Department of Energy
Carlsbad Area Office
P. O. Box 3090
Carlsbad, New Mexico 88221

DEC 2 8 1995

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Mr. Mark Weidler
New Mexico Environment Department
Camino de Los Marquez, #4
P.O. Box 26110
Santa Fe, NM 87502

Dear Mr. Weidler:

Enclosed is a copy of Revision 2 of the Transuranic Waste Baseline Inventory Report (TWBIR), DOE/CAO-95-1121 (December 1995). In order to save resources, we are shipping Revision 2 unbound and separately wrapped, to replace Revision 1 in its current binder. Each volume is clearly marked for easy replacement and includes a new front cover and spine.

Revision 2 to the TWBIR documents the total inventory of DOE TRU waste as defined by the DOE TRU waste generator/storage sites. This inventory includes both the TRU waste that is planned to be disposed at the Waste Isolation Pilot Plant (WIPP) site and the TRU waste that currently cannot be sent to WIPP. This revision of the TWBIR also supports the WIPP Land Withdrawal Act requirement for providing the total DOE TRU waste inventory.

Included with Revision 2 is a "read only" diskette containing the waste stream profile data used to produce the report. The software runs on Access 2.0, and instructions for loading and operating the program are included on the diskette.

not included

Please sign and return the Document Transmittal Acknowledgement Receipt (DTAR) to Jim Teak, Advanced Sciences, Inc. at 6739 Academy Road, NE, Albuquerque, NM 87109-3345. The receipt of the signed DTAR will provide ready reference to those organizations which are in possession of the controlled copies of Revision 2.

If you have any questions, please contact Russ Bisping, of my staff, at (505) 234-7446.

Should have been a controlled copy - called Russ Bisping to confirm.

Sincerely,

Don Watkins
Manager
National TRU Program

Enclosure

cc w/enclosure:
C & C File

cc w/o enclosure:
D. Hurtt, CAO

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United States Government | Department of Energy

memorandum

Carlsbad Area Office
Carlsbad, New Mexico 88221

DATE: DEC 2 8 1995

REPLY TO ATTN OF: CAO:NTP:RLB 95-3172

SUBJECT: Transuranic Waste Baseline Inventory Report (TWBIR), Revision 2

TO: Those on Attached List

RECEIVED FEB 1 5 1996

Please find attached a copy of Revision 2 to the Transuranic Waste Baseline Inventory Report (TWBIR), DOE/CAO-95-1121 (December 1995). In order to save resources, we are shipping Revision 2 unbound and separately wrapped, to replace Revision 1 in its current binder. Each volume is clearly marked for easy replacement and includes a new front cover and spine.

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↳ 7.(b)(6)

Revision 2 also includes a "read only" diskette containing the waste stream profile data used to produce the report. The software runs on Access 2.0 and instructions for loading and operating the program are included on the diskette.

To ensure only the most current data is discussed among DOE and the regulators, we have produced both "controlled" and "information" copies of Revision 2 of the TWBIR. Those of you receiving "controlled" copies are requested to sign and return the Document Transmittal Acknowledgment Receipt (DTAR) to Jim Teak, Advanced Sciences, Inc., at 6739 Academy Road, NE, Albuquerque, NM 87109-3345. The receipt of the signed DTAR will provide ready reference to those organizations which are in possession of the controlled copies of Revision 2.

If you have questions, please contact Mr. Russ Bisping, of my staff, at (505) 234-7446.

Don Watkins
Manager
National TRU Program

Attachment

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Title 40 CFR Part 191 Compliance Certification Application for the Waste Isolation Pilot Plant

Appendix BIR

United States Department of Energy
Waste Isolation Pilot Plant

Carlsbad Area Office
Carlsbad, New Mexico

Transuranic Waste Baseline Inventory Report

DOE/CAO-95-1121

Transuranic Waste Baseline Inventory Report (Revision 2)

December 1995

Prepared by Carlsbad Area Office Technical Assistance Contractor
for U.S. Department of Energy
under Contract No. DE-AC04-95AL-89446

Volume 1

PREFACE

TRANSURANIC WASTE BASELINE INVENTORY REPORT
REVISION 2, CAO/DOE-95-1121

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ACRONYMS AND ABBREVIATIONS

AE	Argonne National Laboratory-East site identifier
AL	Ames Laboratory site identifier
AM	ARCO Medical Products Company site identifier
ANL-E	Argonne National Laboratory-East
AW	ANL-W site identifier
ANL-W	Argonne National Laboratory-West
BC	Battelle Columbus Laboratory site identifier
BEMR	Baseline Environmental Management Report
BT	Bettis Atomic Power Laboratory site identifier
C&C Agreement	Agreement for Consultation and Cooperation between the Department of Energy and the State of New Mexico on the Waste Isolation Pilot Plant
CFR	Code of Federal Regulations
CH	contact handled
CY	calendar year
D&D	decontamination and decommissioning
DOE	U.S. Department of Energy
EPA	U.S. Environmental Protection Agency
ER	environmental restoration
ET	Energy Technology Engineering Center site identifier
ETEC	Energy Technology Engineering Center
FFCAct	Federal Facility Compliance Act
FGE	Fissile Gram Equivalent
HDPE	high-density polyethylene
HQ	(DOE) Headquarters
ID	identification
IDB	Integrated Data Base
IDC	item description code
IN	Idaho National Engineering Laboratory site identifier
INEL	Idaho National Engineering Laboratory
IMWIR	Interim Mixed Waste Inventory Report
IT	Inhalation Toxicology Research Institute site identifier
ITRI	Inhalation Toxicology Research Institute
KA	Knolls Atomic Power Laboratory-Schenectady site identifier
KAPL	Knolls Atomic Power Laboratory - Schenectady
kg	kilograms
LA	Los Alamos National Laboratory site identifier
LANL	Los Alamos National Laboratory
LB	Lawrence Berkeley Laboratory site identifier
LBL	Lawrence Berkeley Laboratory
LL	Lawrence Livermore National Laboratory site identifier
LLNL	Lawrence Livermore National Laboratory
LWA	Land Withdrawal Act
MC	U.S. Army Material Command
MD	Mound Plant site identifier
MITI95	Material Inventory and Tracking Information Database 1995
m^3	cubic meters

mrem	millirem
MU	University of Missouri Research Reactor site identifier
MTRU	mixed transuranic
MWIR	Mixed Waste Inventory Report
NMVP	No-Migration Variance Petition
NRC	Nuclear Regulatory Commission
NT	Nevada Test Site site identifier
NTS	Nevada Test Site
OR	Oak Ridge National Laboratory site identifier
ORIGEN-2	Oak Ridge Isotope Generation and Depletion Code
ORNL	Oak Ridge National Laboratory
PA	performance assessment (in text only)
PA	Paducah Gaseous Diffusion Plant site identifier (in waste profiles only)
PCB	polychlorinated biphenyls
PGDP	Paducah Gaseous Diffusion Plant
PX	Pantex site identifier
RCRA	Resource Conservation and Recovery Act
RF	Rocky Flats Environmental Technology Site site identifier
RFETS	Rocky Flats Environmental Technology Site
RH	remote handled
RL	Hanford (Richland) site identifier
SA	Sandia National Laboratories/New Mexico site identifier
SARP	Safety Analysis Report for Packaging
SEIS	Supplemental Environmental Impact Statement
SNL/NM	Sandia National Laboratories/New Mexico
SR	Savannah River Site site identifier
SRS	Savannah River Site
SWB	Standard Waste Box
TB	Teledyne Brown Engineering
TDOP	Ten Drum Overpack
TRU	transuranic
TRUCON	Transuranic Package Transporter-II Content Codes
TRUPACT-II	Transuranic Package Transporter-II
TSCA	Toxic Substances Control Act
TWBID	Transuranic Waste Baseline Inventory Database
TWBIR	Transuranic Waste Baseline Inventory Report
WAC	waste acceptance criteria
WIPP	Waste Isolation Pilot Plant
WMC	waste matrix code
WMP	waste material parameter
WS	waste stream
WTWBIR	Waste Isolation Pilot Plant Transuranic Waste Baseline Inventory Report
WV	West Valley Demonstration Project site identifier
WVDP	West Valley Demonstration Project

PREFACE

The information in this report summarizes the U.S. Department of Energy's (DOE) transuranic (TRU) waste inventory, projections, and characteristics. Revision 0 of the *Waste Isolation Pilot Plant (WIPP) Transuranic Waste Baseline Inventory Report* (WTWBIR) published in June 1994, was the first attempt ever made by the DOE complex to report all of its TRU waste at the waste stream level. The waste data reported in Revision 0 was considered preliminary until quality checks of the data were completed by the DOE TRU waste generator/storage sites. Data changes resulting from the site reviews were contained in Revision 1 of the WTWBIR.

This document, Revision 2 of the *Transuranic Waste Baseline Inventory Report* (TWBIR) reports **all** DOE TRU waste, WIPP and non-WIPP TRU wastes, that have been identified by DOE TRU waste generator/storage sites. The primary differences between Revision 1 and Revision 2 are as follows:

- The name of the document has changed from WTWBIR to TWBIR to reflect the inclusion of all DOE TRU waste.
- Revision 1 was primarily developed to support Sandia National Laboratories, New Mexico (SNL/NM) performance assessment (PA) of the WIPP. Revision 2 TWBIR questionnaire continues to support the SNL/NM PA analyses and also supports additional WIPP program (e.g., WIPP Land Withdrawal Act requirements, WIPP transportation studies, the RCRA Part B Permit Application, WIPP No-Migration Variance Petition for Operations Period, and the Supplemental Environmental Impact Statement for Disposal Phase).
- Revision 2 incorporates a change in the plutonium residue processing assumptions at the Rocky Flats Environmental Technology Site (RFETS). In Revision 1, the RFETS TRU waste and radionuclide inventory projections reflected the plan to process the plutonium residues for actinide separation. In Revision 2, at the WIPP level, the RFETS TRU waste and radionuclide inventory projections reflect the plan to repackage/process the plutonium residues to meet WIPP Waste Acceptance Criteria, and safe storage requirements. This results in an increase to the WIPP waste inventory of approximately 1,320 cubic meters and an increase to the WIPP radionuclide inventory of approximately 1.35 million curies in the RFETS submittal.
- Revision 1 reported Hanford Site's submittal as approximately 46,000 cubic meters projected RH-TRU, of which 43,000 cubic meters were called "suspect" RH-TRU due to insufficient information from the Hanford Site. Reevaluation of the 46,000 m^3 of projected RH-TRU by Hanford personnel has resulted in a decrease of reported projected RH-TRU to approximately 21,500 m^3 for Revision 2 of the TWBIR. Additional evaluations of the reported Hanford Site RH-TRU waste volumes is ongoing and the results will be reported in future revisions of the TWBIR.
- Revision 2 defines waste streams to a more detailed level than Revision 1 of the WTWBIR. Savannah River Site (SRS), Idaho National Engineering Laboratory (INEL), Hanford Site, and RFETS divided their waste streams to the Local Identification level which will provide the detail desired to support the additional programs requesting DOE TRU waste inventory information. This resulted in an increase in the number of waste streams from 360 to approximately 970.

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

The *Transuranic Waste Baseline Inventory Report* (TWBIR) establishes a methodology for grouping wastes of similar physical and chemical properties, from across the U.S. Department of Energy (DOE) transuranic (TRU) waste system, into a series of "waste profiles" that can be used as the basis for waste form discussions with regulatory agencies. The majority of this document reports TRU waste inventories of the DOE defense sites.

The purpose of Revisions 0 and 1 of this report was to provide data to be included in the SNL/NM performance assessment (PA) processes. This revision of the document is also intended to support the WIPP Land Withdrawal Act requirement for providing the total DOE TRU waste inventory. Therefore, this document includes a chapter and an appendix that discusses the total DOE TRU waste inventory including non-defense, commercial, PCB contaminated, and buried (pre-1970) TRU wastes.

The WIPP baseline inventory is estimated using waste streams identified by the DOE TRU waste generator/storage sites. Each waste stream is defined in a waste stream profile and has been assigned to a Final Waste Form by the DOE TRU waste generator/storage sites. The sites provided and/or authorized all information in the Waste Stream Profiles. Waste stream profiles that have similar physical and chemical properties can be combined into the same Final Waste Form and is documented in a site-specific waste profile for each TRU waste generator/storage site.

Based on the methodology presented in this TWBIR, a maximum of 11 site-specific waste profiles have been identified for contact-handled (CH) TRU waste and a maximum of 11 have been identified for remote-handled (RH) TRU waste for each site. Each of these site-specific waste profiles have unique Final Waste Form criteria, and they are developed, if appropriate, for each of the TRU waste generator/storage sites. A particular site-specific waste profile, with a specific Final Waste Form, can be combined with other site-specific waste profiles having identical Final Waste Forms from the TRU waste generator/storage sites to derive a WIPP waste profile.

The WIPP anticipated (stored and projected) inventory of TRU waste is defined as the sum of retrievably stored waste plus currently projected TRU waste volumes. The anticipated inventory for CH-TRU waste is not sufficient to fill the maximum CH-TRU disposal inventory for WIPP (calculated to be 5,950,000 cubic feet or approximately 168,500 cubic meters). Scaling has been developed as a means for Sandia National Laboratories/New Mexico (SNL/NM) to model the impacts of a full repository. Scaling has not been applied to the RH-TRU inventory since the sites have reported sufficient RH-TRU waste to fill the RH-TRU disposal inventory (250,000 cubic feet or approximately 7,080 cubic meters). Additionally, it is anticipated that the data on wastes to be generated in the future from environmental restoration (ER) and decontamination and decommissioning (D&D) activities at the sites will be available in the Baseline Environmental Management Report that is currently under preparation by the DOE. Because of the difficulty in estimating detailed characteristics of these future ER and D&D wastes on a waste stream basis (as is required by the TWBIR), it was possible for only three sites (Battelle Columbus Laboratories, Bettis Atomic Power Laboratories, and Hanford) to report ER and D&D projections for this document.

The TWBIR also estimates the WIPP disposal inventory in terms of 12 waste material parameters and additional packaging materials that have been identified by Sandia National Laboratories/New Mexico, as necessary for PA. The 12 waste material parameters and additional packaging materials are waste constituents of TRU waste and are input parameters for one or more PA models or are required to adequately describe the waste form. These parameters may change as a result of PA efforts.

The 12 waste material parameters and additional packaging materials are listed below:

Waste Material Parameters
- Iron-base metal/alloys
- Aluminum-base metal/alloys
- Other metal/alloys
- Other inorganic materials
- Vitrified
- Cellulosics
- Rubber
- Plastics
- Solidified inorganic material
- Solidified organic material
- Cement (solidified)
- Soils

Packaging Materials
- Steel
- Plastic
- Lead

The waste material parameters in the waste stream, site-specific and WIPP waste profiles are expressed on a weight/volume (kilograms per cubic meter) basis. However, the occurrence of more than one waste material parameter at the maximum value within a waste stream is highly unlikely. If required by PA calculations, the sampling statistics must be controlled so that several waste material parameters do not get sampled all at their maximum value (weight/volume), thereby exceeding the average weight/volume. This revision of the TWBIR provides diskettes that contain the TRU Waste Baseline Inventory Database (TWBID) in Microsoft Access in either a run-time only version (not requiring purchase of Access) or a full version (requiring Access).

There are two types of distributions of the TWBIR, Revision 2 document. One will be presented in three volumes: Volume 1 contains the TWBID diskettes, the Preface; Executive Summary through Chapter 8; Volumes II and III contain Appendices A through P. This document presentation will be distributed to regulatory agencies, DOE and other top-level interfaces. A second distribution will be presented in one volume with the elimination of Volumes 2 and 3. For this second type of distribution the volume will contain the TWBID diskettes; the Preface; Executive Summary through Chapter 8; and Appendices A through N. Information for Appendices O and P can be found on the diskettes. This document presentation will be distributed to all other users of the TWBIR.

Attached to this Executive Summary are several summary tables from the remainder of the TWBIR which are frequently requested by TWBIR users:

- Table ES-1. WIPP CH-TRU Waste Material Parameter Disposal Inventory

- Table ES-2. WIPP RH-TRU Waste Material Parameter Disposal Inventory
- Table ES-3. WIPP CH-TRU Waste Anticipated Inventory by Site
- Table ES-4. WIPP RH-TRU Waste Anticipated Inventory by Site
- Table ES-5. WIPP Contact-Handled Mixed and Non-Mixed Disposal Inventory by Site (Final Waste Form)
- Table ES-6. WIPP Remote-Handled Mixed and Non-Mixed Disposal Inventory by Site (Final Waste Form)
- Table ES-7. Summary Radionuclide Inventory

Table ES-1

WIPP CH-TRU Waste Material Parameter Disposal Inventory

Waste Material Parameters (Kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	2.6E+03	1.7E+02	0.0E+00
Aluminum Base Metal/Alloys	8.0E+02	1.8E+01	0.0E+00
Other Metal/Alloys	1.6E+03	6.7E+01	0.0E+00
Other Inorganic Materials	1.4E+03	3.1E+01	0.0E+00
Vitrified	2.5E+03	5.5E+01	0.0E+00
Cellulosics	9.6E+02	5.4E+01	0.0E+00
Rubber	6.3E+02	1.0E+01	0.0E+00
Plastics	8.9E+02	3.4E+01	0.0E+00
Solidified Inorganic Material	2.2E+03	5.4E+01	0.0E+00
Solidified Organic Material	1.4E+03	5.6E+00	0.0E+00
Cement (Solidified)	1.2E+03	5.0E+01	0.0E+00
Soils	1.6E+03	4.4E+01	0.0E+00

Container Materials - Kg/m3

Steel	139
Plastic/ Liners	26

Table ES-2

WIPP RH-TRU Waste Material Parameter Disposal Inventory

Waste Material Parameters (Kg/m3	Maximum	Average	Minimum
Iron Base Metal/Alloys	1.7E+03	1.0E+02	0.0E+00
Aluminum Base Metal/Alloys	1.7E+02	7.1E+00	0.0E+00
Other Metal/Alloys	9.1E+02	2.5E+02	0.0E+00
Other Inorganic Materials	2.0E+03	6.4E+01	0.0E+00
Vitrified	2.5E+03	4.7E+00	0.0E+00
Cellulosics	5.7E+02	1.7E+01	0.0E+00
Rubber	4.4E+02	3.3E+00	0.0E+00
Plastics	6.2E+02	1.5E+01	0.0E+00
Solidified Inorganic Material	6.1E+02	2.2E+01	0.0E+00
Solidified Organic Material	8.1E+02	9.3E-01	0.0E+00
Cement (Solidified)	5.8E+02	1.9E+01	0.0E+00
Soils	2.4E+01	1.0E+00	0.0E+00

Container Materials - Kg/m3

Steel	446
Plastic/Liners	3.1
Lead	465
Steel Plug	2145

Table ES-3

WIPP CH-TRU Waste Anticipated Inventory By Site

(Cubic Meters)

Storage/Generator Site	Stored Volumes	Projected Volumes	Anticipated Volumes
Ames Laboratory - Iowa State Univ.	0.0E+00	4.2E-01	4.2E-01
Argonne National Laboratory - East	1.1E+01	1.3E+02	1.4E+02
Argonne National Laboratory - West	6.5E+00	7.4E+02	7.5E+02
Bettis Atomic Power Laboratory	0.0E+00	1.2E+02	1.2E+02
Energy Technology Engineering Center	1.7E+00	0.0E+00	1.7E+00
Hanford (Richland) Site	1.2E+04	3.3E+04	4.6E+04
Idaho National Engineering Laboratory	2.9E+04	0.0E+00	2.9E+04
Lawrence Livermore National Laboratory	2.3E+02	7.1E+02	9.4E+02
Los Alamos National Laboratory	1.1E+04	7.4E+03	1.8E+04
Mound Plant	2.7E+02	0.0E+00	2.7E+02
Nevada Test Site	6.2E+02	9.0E+00	6.3E+02
Oak Ridge National Laboratory	1.3E+03	2.6E+02	1.6E+03
Paducah Gaseous Diffusion Plant	0.0E+00	1.9E+00	1.9E+00
Pantex Plant	6.2E-01	0.0E+00	6.2E-01
Rocky Flats Environmental Technology Site	7.1E+02	4.4E+03	5.1E+03
Sandia National Laboratory - Albuquerque	6.7E+00	7.5E+00	1.4E+01
Savannah River Site	2.9E+03	6.8E+03	9.6E+03
Teledyne Brown Engineering	2.1E-01	0.0E+00	2.1E-01
U.S. Army Material Command	2.5E+00	0.0E+00	2.5E+00
University of Missouri Research Reactor	2.1E-01	8.3E-01	1.0E+00
Total CH Volumes	**5.8E+04**	**5.4E+04**	**1.1E+05**

Table ES-4

WIPP RH-TRU Waste Anticipated Inventory By Site

(Cubic Meters)

Storage/Generator Site	Stored Volumes	Projected Volumes	Anticipated Volumes
Argonne National Laboratory - West	1.9E+01	1.3E+03	1.3E+03
Battelle Columbus Laboratories	5.8E+02	0.0E+00	5.8E+02
Bettis Atomic Power Laboratory	0.0E+00	6.7E+00	6.7E+00
Energy Technology Engineering Center	8.9E-01	0.0E+00	8.9E-01
Hanford (Richland) Site	2.0E+02	2.2E+04	2.2E+04
Idaho National Engineering Laboratory	2.2E+02	0.0E+00	2.2E+02
Los Alamos National Laboratory	9.4E+01	9.9E+01	1.9E+02
Oak Ridge National Laboratory	2.5E+03	4.5E+02	2.9E+03
Total RH Volumes	**3.6E+03**	**2.3E+04**	**2.7E+04**
Total TRU Waste Volumes	**6.2E+04**	**7.7E+04**	**1.4E+05**

Table ES-5. WIPP Contact-Handled Mixed and Non-Mixed Disposal Inventory by Site (Final Waste Form)

Storage/Generator Site	Stored Volumes (m3)		Projected Volumes (m3)	
	Mixed	Non-Mixed	Mixed	Non-Mixed
Ames Laboratory - Iowa State Univ.	0.0E+00	0.0E+00	4.2E-01	0.0E+00
Argonne National Laboratory - East	6.5E+00	5.0E+00	1.3E+00	1.3E+02
Argonne National Laboratory - West	4.3E+00	2.3E+00	2.0E+00	7.4E+02
Bettis Atomic Power Laboratory	0.0E+00	0.0E+00	0.0E+00	1.2E+02
Energy Technology Engineering Center	0.0E+00	1.7E+00	0.0E+00	0.0E+00
Hanford (Richland) Site	2.0E+02	1.2E+04	1.3E+04	2.0E+04
Idaho National Engineering Laboratory	2.3E+04	5.3E+03	0.0E+00	0.0E+00
Lawrence Livermore National Laboratory	8.3E+00	2.2E+02	5.0E+01	6.6E+02
Los Alamos National Laboratory	7.7E+03	3.3E+03	3.8E+03	3.6E+03
Mound Plant	3.5E+00	2.7E+02	0.0E+00	0.0E+00
Nevada Test Site	6.1E+02	5.7E+00	9.0E+00	0.0E+00
Oak Ridge National Laboratory	7.0E+02	6.1E+02	2.6E+02	0.0E+00
Paducah Gaseous Diffusion Plant	0.0E+00	0.0E+00	1.9E+00	0.0E+00
Pantex Plant	0.0E+00	6.2E-01	0.0E+00	0.0E+00
Rocky Flats Environmental Technology Site	4.4E+02	2.7E+02	3.3E+03	1.1E+03
Sandia National Laboratory - Albuquerque	0.0E+00	6.7E+00	0.0E+00	7.5E+00
Savannah River Site	1.5E+03	1.4E+03	2.9E+03	3.9E+03
Teledyne Brown Engineering	0.0E+00	2.1E-01	0.0E+00	0.0E+00
U.S. Army Material Command	0.0E+00	2.5E+00	0.0E+00	0.0E+00
University of Missouri Research Reactor	2.1E-01	0.0E+00	8.3E-01	0.0E+00
Totals	3.4E+04	2.4E+04	2.4E+04	3.0E+04

Table ES-6. WIPP Remote-Handled Mixed and Non-Mixed Disposal Inventory by Site (Final Waste Form)

Storage/Generator Site	Stored Volumes (m3)		Projected Volumes (m3)	
	Mixed	Non-Mixed	Mixed	Non-Mixed
Argonne National Laboratory - West	1.8E+00	1.8E+01	3.5E+01	1.2E+03
Battelle Columbus Laboratories	0.0E+00	5.8E+02	0.0E+00	0.0E+00
Bettis Atomic Power Laboratory	0.0E+00	0.0E+00	0.0E+00	6.7E+00
Energy Technology Engineering Center	8.9E-01	0.0E+00	0.0E+00	0.0E+00
Hanford (Richland) Site	2.7E+00	2.0E+02	1.5E+04	6.3E+03
Idaho National Engineering Laboratory	1.9E+02	2.6E+01	0.0E+00	0.0E+00
Los Alamos National Laboratory	1.7E+01	7.7E+01	3.4E+01	6.5E+01
Oak Ridge National Laboratory	2.4E+03	8.5E+01	4.5E+02	0.0E+00
Totals	2.6E+03	9.9E+02	1.6E+04	7.6E+03

Table ES-7. Summary Radionuclide Inventory[1]

Nuclide	CH-TRU Waste (Ci/m^3)	RH-TRU Waste (Ci/m^3)
Am241	2.60E+00	8.42E-01
Ba137m	4.53E-02	2.89E+01
Cm244	4.72E-02	4.45E-02
Co58	1.81E-18	1.47E+00
Cs137	4.78E-02	3.05E+01
Pu238	2.26E+01	2.05E-01
Pu239	4.64E+00	1.45E+00
Pu240	1.23E+00	7.16E-01
Pu241	1.55E+01	2.00E+01
Sr90	4.07E-02	2.95E+01
Y90	4.07E-02	2.95E+01

[1]Summary shows the ten radionuclides with the highest concentration in curies per cubic meter of the waste.

CHAPTER 1

1. INTRODUCTION

1.1 BACKGROUND

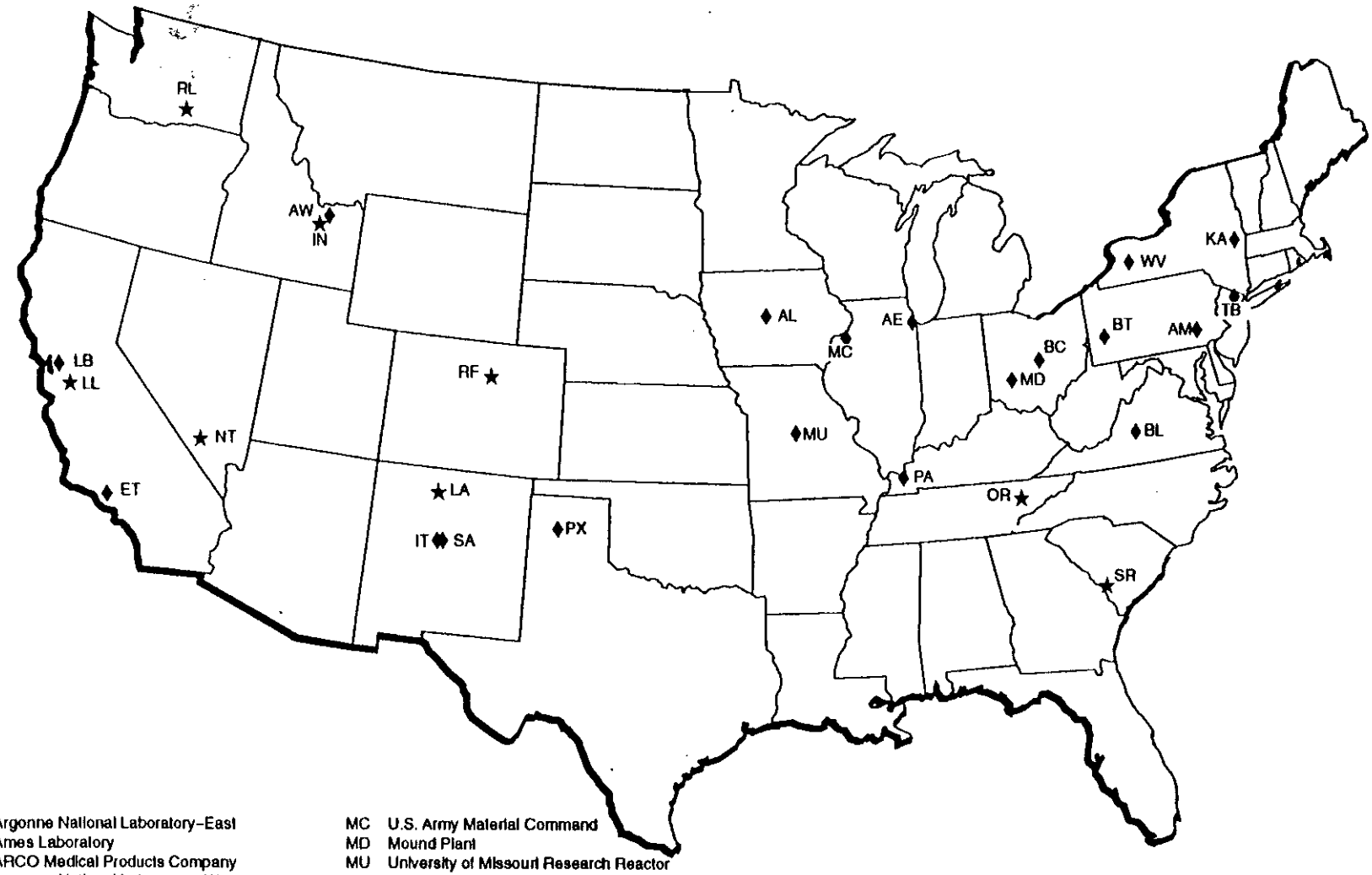
Transuranic (TRU) waste is defined as waste that is contaminated with alpha-emitting radionuclides with an atomic number greater than 92, with half-lives greater than 20 years, and concentrations of TRU isotopes greater than 100 nanocuries per gram of waste (DOE, 1988). TRU wastes are classified as either contact-handled (CH) waste or remote-handled (RH) waste, depending on the dose rate at the surface of the waste container. CH-TRU wastes are packaged TRU wastes with an external surface dose rate of 200 millirems (mrem) or less per hour, while RH-TRU wastes are packaged TRU wastes with an external surface dose rate exceeding 200 mrem per hour. Unless otherwise indicated, for the purposes of this document, all references to TRU waste include TRU waste and mixed TRU waste (waste that contains both radioactive and hazardous components, as defined by the Atomic Energy Act and the Resource Conservation and Recovery Act [RCRA] as codified in Title 40 Code of Federal Regulations [CFR] Part 261.3 [EPA, 1980]).

The Waste Isolation Pilot Plant (WIPP) is a TRU waste management facility operated by the U.S. Department of Energy (DOE). The WIPP is currently identified as the permanent disposal site for TRU wastes generated at various DOE sites after 1970 from defense activities of the United States including weapons production and research and development.

The DOE is committed to demonstrating compliance with all applicable regulations prior to permanent disposal of TRU defense wastes in the WIPP repository. These regulations are the environmental standards for management and disposal of TRU defense wastes as mandated in 40 CFR Part 191 (EPA, 1993) and Part 194 (EPA, 1995), and the RCRA regulations. Compliance demonstration through Sandia National Laboratory/New Mexico (SNL/NM) performance assessment (PA) calculations will be based on the inventory of existing and currently projected waste streams compiled in this document, as reported by the DOE TRU waste generator/storage sites. The WIPP is scheduled to receive and dispose of TRU defense wastes from 8 major and additional minor DOE TRU waste generator/storage sites (see Figure 1-1). In addition to the sites identified in Figure 1-1, there are several small quantity sites that may have DOE TRU wastes in storage and/or projected. These sites are listed below:

- Babcock & Wilcox – Parks Township; Vandergrift, PA
- GE Vallecitas Nuclear Center; Pleasanton, CA
- Massachusetts Institute of Technology; Boston, MA
- National Institute of Standards and Technology; Gaithersburg, MD
- Site A/Plot M; Argonne, IL
- Special Process Research Unit; Schenectady, NY

The TWBIR team contacted these sites and requested data on their TRU waste inventories. These sites were not able to respond to the TWBIR Revision 2 data call with sufficient information to be included in this revision of the TWBIR, but could be included in future revisions as more detailed data are submitted.



AE Argonne National Laboratory–East
AL Ames Laboratory
AM ARCO Medical Products Company
AW Argonne National Laboratory–West
BC Battelle Columbus Laboratory
BL Babcock & Wilcox–Lynchburg
BT Bettis Atomic Power Laboratory
ET Energy Technology Engineering Center
IN Idaho National Engineering Laboratory
IT Inhalation Toxicology Research Institute
KA Knolls Atomic Power Laboratory – Schenectady
LA Los Alamos National Laboratory
LB Lawrence Berkeley Laboratory
LL Lawrence Livermore National Laboratory
MC U.S. Army Material Command
MD Mound Plant
MU University of Missouri Research Reactor
NT Nevada Test Site
OR Oak Ridge National Laboratory
PA Paducah Gaseous Diffusion Plant
PX Pantex Plant
RF Rocky Flats Environmental Technology Site
RL Hanford (Richland) Site
SA Sandia National Laboratories/New Mexico
SR Savannah River Site
TB Teledyne Brown Engineering
WV West Valley Demonstration Project

♦ Indicates Small Quantity Site
★ Indicates Major Site

Figure 1-1. U.S. Department of Energy Transuranic Waste Generator/Storage Sites.

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Inhalation Toxicology Research Institute reports their waste stream profiles with Sandia National Laboratories/New Mexico submittals in Appendix P. Two Small Quantity Site, Babcock & Wilcox-Lynchburg and General Electric Vallecitas Nuclear Center, provided TRU waste volumes only. There is insufficient information provided to generate waste stream profiles for these wastes, so they are incorporated as "Possible Future Waste" for WIPP and are listed in Section 5.4.

1.2 PURPOSE

The purpose of the *Transuranic Waste Baseline Inventory Report* (TWBIR) is to document the total inventory of DOE TRU waste as defined by the DOE TRU waste generator/storage sites. This includes both the TRU waste that is planned to be disposed at the WIPP site and the TRU waste that will not be sent to WIPP. The WIPP portion of the TRU waste inventory will be used in the SNL/NM PA calculations and sensitivity analyses that will support the development of compliance applications to the appropriate regulatory agencies regarding the operations and post-closure timeframes of the WIPP repository. The total DOE TRU waste inventory will be used in the development of the DOE plan to define the disposal options for all WIPP and non-WIPP transuranic waste as required by the Land Withdrawal Act (LWA) (Public Law, 1992b).

To accomplish this purpose, the TWBIR has been developed from the best available information and acceptable knowledge provided by the DOE TRU waste generator/storage sites. In support of PA, the TWBIR describes a process for grouping individual waste streams with similar physical and chemical properties into waste profiles, based on their waste matrix code (WMC) (DOE, 1995b) assigned by the DOE TRU waste generator/storage sites. Waste profiles with similar WMCs, are then combined across the DOE TRU waste system to provide estimated total volumes and total waste material parameters (WMPs). The methodology for this grouping and combining is discussed in detail in Chapter 2, Waste Profile Methodology. The individual waste streams also are evaluated to estimate the occurrence and quantities of non-radioactive waste material parameters as defined in Appendix B and listed in Table 1-1 (e.g., cellulosics, plastics, iron-base metal/alloys, etc.) that have been identified by SNL/NM as being potentially important to the performance of the WIPP repository. The methodology, assumptions, and totals of these waste material parameters are described in Chapter 3, WIPP Disposal Inventory.

The information/data presented in this report is derived from the Transuranic Waste Baseline Inventory Database (TWBID). The TWBID supports most programs at WIPP that require waste information and/or volumes. Examples of some of the programs that are supported by the TWBID are: Performance Assessment (PA), RCRA Part B Permit Application (DOE, 1995f), WIPP No-Migration Variance Petition for Operations Period (DOE, 1995c), and the Supplemental Environmental Impact Statement (SEIS)-II for Disposal Phase (in development phase). In addition, the TWBID can support other projects and applications requiring waste information in formats different than that presented in the TWBIR. The TWBID structure and a data dictionary are included in Chapter 6 and Appendix L of this report.

1.3 WASTE INVENTORY TERMINOLOGY

The derivation of a disposal inventory from individual waste streams is a formidable and complex process. To document each step of this process, a system of waste inventory terminology needs to be defined so the reader may easily follow the process. The following sections provide

TABLE 1-1. TECHNICAL DATA NEEDS FOR PERFORMANCE ASSESSMENT WASTE MATERIAL PARAMETERS

Waste Material Parameter	Input Variable in Current PA Models		Input Variable in PA Models Under Development	Input Variable in Possible Future PA Models
	Gas Generation	Mechanical Characteristics		
Iron-Base Metal/Alloys	YES	YES	YES	YES
Aluminum-Base Metal/Alloys[1]		YES	YES	
Other Metal/Alloys		YES		POSSIBLE
Other Inorganic Materials		YES		POSSIBLE
Vitrified[2]		YES	POSSIBLE	POSSIBLE
Cellulosics	YES	YES	YES	YES
Rubber	YES[3]	YES	YES	YES
Plastics	YES[3]	YES	YES	YES
Solidified Inorganic Material		YES	YES	YES
Solidified Organic Material		YES	YES	YES
Cement (solidified)[4,5]	YES		YES	POSSIBLE
Soils[6]		YES	POSSIBLE	POSSIBLE

1 Future model for PA does not include aluminum.
2 New waste material parameter corresponding to treatment, identified by some sites, to be used in the future.
3 Only one-half of materials assumed to generate gas.
4 Percentage of material to generate gas is unknown at the present time.
5 Information on this waste material parameter is needed for non-PA scoping calculations for assessment of its importance.
6 May impact colloids.

definitions of terminology used throughout the TWBIR. These definitions are also summarized in Chapter 7, Glossary. A list of acronyms and abbreviations used are provided in the front of the document.

1.3.1 Inventory Terminology

Stored Inventory – The part of the TRU inventory currently in retrievable storage at the time of the last data call for inventory information is known as "stored inventory." For Revision 2, stored waste includes that waste in storage as of December 31, 1994, unless a different inventory date is indicated in the waste stream profiles (Appendices O and P). Retrievably stored waste includes

waste stored since approximately 1970 in buildings or in berms with earthen cover and does not include any waste that was buried prior to 1970 (DOE, 1990a).

As Generated Waste – The chemical and physical status of waste when it is generated. The "As-Generated" term applies to both stored and future generation waste.

Projected Inventory – The part of the TRU inventory that has not been generated but is currently estimated to be generated at some time in the future by the TRU waste generator/storage sites is known as "projected inventory." Because of the current uncertainty associated with environmental restoration (ER) and decontamination and decommissioning (D&D) waste inventory projections, the ER and D&D wastes are not included in the projected inventory, except for a few waste streams at some sites. For Revision 2, a projected inventory includes waste scheduled for generation from calendar year (CY) 1995 to 2022. "Newly generated waste" is sometimes used as a synonym for the projected inventory.

Anticipated Inventory – For the TWBIR, this is the sum of the stored and projected inventories, calculated as:

Stored Inventory	+	Projected Inventory	=	Anticipated Inventory

Scaling – The process for adjusting, if needed, the projected inventory to the design limit (disposal inventory) of the WIPP repository is called "scaling." Chapter 3, describes the scaling process used for developing the TWBIR.

Stored Inventory + Projected Inventory (scaled as needed) = Disposal Inventory

Disposal Inventory – The inventory volume defined for WIPP emplacement to be used for PA calculations is the "disposal inventory." The LWA defines the total amount of TRU waste allowed for disposal in the WIPP as 6,200,000 cubic feet (approximately 175,600 cubic meters) (Public Law, 1992b). The "Agreement for Consultation and Cooperation" (C&C Agreement) limits the RH-TRU inventory to 250,000 cubic feet (approximately 7,080 cubic meters) (DOE and State of New Mexico, 1981). Therefore by difference, the CH-TRU inventory will be limited to 5,950,000 cubic feet (approximately 168,500 cubic meters) if all of the RH-TRU allowance is filled.

1.3.2 Waste Matrix Code Terminology

Waste Matrix Code (WMC) - The WMCs were developed by DOE, in response to the Federal Facilities Compliance Act (FFCAct) (Public Law 1992a), as a methodology to aid in categorizing mixed waste streams in the DOE system into a series of five-digit alphanumeric codes (e.g., S5400; Heterogeneous Debris) that represent different physical/chemical matrices (DOE, 1995b). The WMC is assigned by the TRU waste generator/storage sites for all mixed waste streams and some non-mixed waste streams. The TWBIR has adopted this system to remain consistent with common terminology used by the DOE waste generator/storage sites.

Final Waste Form – Final Waste Form of a waste stream consists of a series of WMCs that are grouped together, which for PA purposes have similar physical and chemical properties. The Final Waste Form applies to both stored and future generation waste. An example of combining three waste streams which either contain particulates or are cemented particulate waste is presented below:

WMC S3100 (inorganic process residues)
WMC S3110 (inorganic particulates)
WMC S3150 (solidified process residues)
] Solidified Inorganics

Because of the restriction on particulate wastes in the *TRU Waste Acceptance Criteria (WAC) for the Waste Isolation Pilot Plant*, Revision 4 (DOE, 1991), particulate waste will usually be immobilized prior to shipment to WIPP. Therefore, all three of these WMCs would be the same basic waste form when emplaced in WIPP and have similar physical and chemical properties. The Final Waste Form for this example is solidified inorganics. Table 1-2 presents all anticipated WMCs for TRU waste and indicates the Final Waste Form typically assigned to each WMC for the TWBIR. There are 11 Final Waste Forms used in this TWBIR. The last two rows in Table 1-2, excluded waste streams and unknown, group WMCs that will not be accepted at WIPP unless additional characterization and/or processing occurs to meet the WIPP WAC (DOE, 1991). Wastes that are categorized as "Excluded" or "Unknown" are listed in Section 5.4, Possible Future Waste. Some sites did not assign WMCs to non-mixed TRU streams; but they did assign Final Waste Forms based on the physical and chemical properties of the waste stream.

1.3.3 Waste Profile Terminology

Waste Stream Profile – This is a description of a CH-TRU or RH-TRU waste stream. Sites were requested to define a waste stream as presented in Figure 1-2 and to describe their waste streams at the lowest practical level of Figure 1-2. The waste stream profile is presented in tabular format and is intended to provide a summary of important information about a particular waste stream. Examples of information included in a waste stream profile are:

- Waste Stream description.
- Waste Stream source description.
- Currently used identification codes, including the DOE TRU waste site matrix description;
- Final waste form assigned by the TRU waste generator/storage sites;
- As-generated waste form volumes and Final Waste Form volumes:
- Estimated minimum, average, and maximum weights of waste material parameters per cubic meter of final waste form volume (e.g., iron-base metal/alloys, aluminum-base metal/alloys, cellulosics, etc.);
- Indication as to whether the waste is CH-TRU or RH-TRU;
- Indication as to whether the waste is mixed or non-mixed;

TABLE 1-2. WASTE MATRIX CODES AND THEIR ANTICIPATED FINAL WASTE FORM

Final Waste Form	Waste Matrix Codes
Solidified Inorganics	L1000[1], L1100[1], L1110[1], L1120[1], L1130[1], L1140[1], L1190[1],1200[1], L1210[1], L1220[1], L1230[1], L1240[1], L1290[1], S3000[2], S3100[3], S3110[3], S3111[3], S3112[3], S3113[3], S3115[3], S3118[3], S3119[3], S3120[1], S3121[1], S3122[1], S3123[1], S3124[1], S3125[1], S3129[1], S3130[1 or 3], S3131[1 or 3], S3132[1 or 3], S3139[1 or 3], S3144[3], S3150, S3160[3], S3190[1 or 3], S3900[2], X6000[4], X6200[5], X6300[6], X6400[5], X6900[4], X7300[3], X7500[8], X7510[8], X7520[8], X7530[8], X7590[8], L9000[2], Z1110, Z1190
Salt	S3000[2], S3140, S3141, S3142, S3143, S3149, S3900[2], L9000[2]
Solidified Organics	L2000[1], L2100[1], L2110[1], L2120[1], L2190[1], L2200[1], L2210[1], L2220[1], L2290[1], L2900[1], S3000[2], S3114[3], S3200[3], S3210[3], S3211[3], S3212[3], S3219[3], S3220[1], S3221[1], S3222[1], S3223[1], S3229[1], S3230[3], S3290[1 or 3], S3900[2], S5340[3], X6000[4], X6100[5], X6190[4], X6900[4], L9000[2], Z1110, Z1190
Soils	S4000, S4100, S4200, S4300, S4900,
Uncategorized Metal (Metal Waste Other Than Lead and/or Cadmium)	S3116, S5000[9], S5100[7], S5110, S5111, S5119, S5190, X6200, X7000[10], X7290, X7400[11], X7430, X7490[11], X7520[8], Z1140, Z1190, Z2100[10]
Lead/Cadmium Metal	S5000[9], S5100[7], S5110, S5112, S5113, S5119, S5190, X6220[8], X7000[10], X7200, X7210, X7211, X7212, X7219, X7220, X7290, X7400[11], X7410[11], X7420[11], X7490[11], Z2100[10]
Inorganic Non-Metal	S3117, S3118, S3160, S5000[9], S5100[7], S5120, S5121, S5122, S5123, S5124, S5125, S5126, S5129, S5190, Z1120, Z1150, Z1190
Combustible	S5000[9], S5300, S5310, S5311, S5312, S5313, S5319, S5320, S5330, S5390, Z1130, Z1190, Z1200
Graphite	S5000[9], S5126
Heterogeneous	S5000[9], S5100[9], S5400, S5420, S5440, S5450, S5460, S5490, X7520[8], Z2900
Filter	S5000[9], S5410
Excluded Waste Streams[12]	X7000, X7100, X7600, X7700
Unknown[13]	S5190, X7900, L9000, S9000, Z9000, U9999

TABLE 1-2. FINAL WASTE FORM NAMES (CONTINUED)

[1] Liquid waste streams are assumed to be solidified prior to sending to WIPP.

[2] WMCs S3000, S3900, and L9000 are placed in "solidified inorganics," "salt," or "solidified organics," depending on the information provided by the TRU waste generator/storage site.

[3] Particulate waste streams are assumed to be solidified prior to sending to WIPP.

[4] WMCs X6000 and X6900 are placed in "solidified organics," or "solidified inorganics," depending on the information provided by the TRU waste generator/storage site.

[5] Liquid lab pack waste is assumed to be solidified prior to sending to WIPP.

[6] Solid lab packs are assumed to be solidified prior to sending to WIPP.

[7] WMC S5100 is placed in "uncategorized metal," "lead-cadmium metal," or in "inorganic non-metal," depending on the information provided by the generator/storage site.

[8] Waste stream is assumed to be treated prior to sending to WIPP.

[9] WMC S5000 is placed in "uncategorized metal," "lead/cadmium metal," "inorganic non-metal," "combustible," "graphite," "heterogeneous," or "filter," depending on the information provided by the generator/storage site.

[10] WMC Z2100 is placed in "uncategorized metal" or "lead/cadmium metal," depending on the information provided by the generator/storage site.

[11] WMCs X7400, X7410, X7420, and X7490 are assumed to be drained of liquid and contain only metal waste.

[12] These waste streams are excluded from disposal in WIPP at this time, e.g., PCB and elemental mercury.

[13] If adequate information is provided by the TRU waste generator/storage site, these WMCs are changed. If there is not enough information, these waste streams remain as "unknown" and are excluded from disposal in WIPP until characterized.

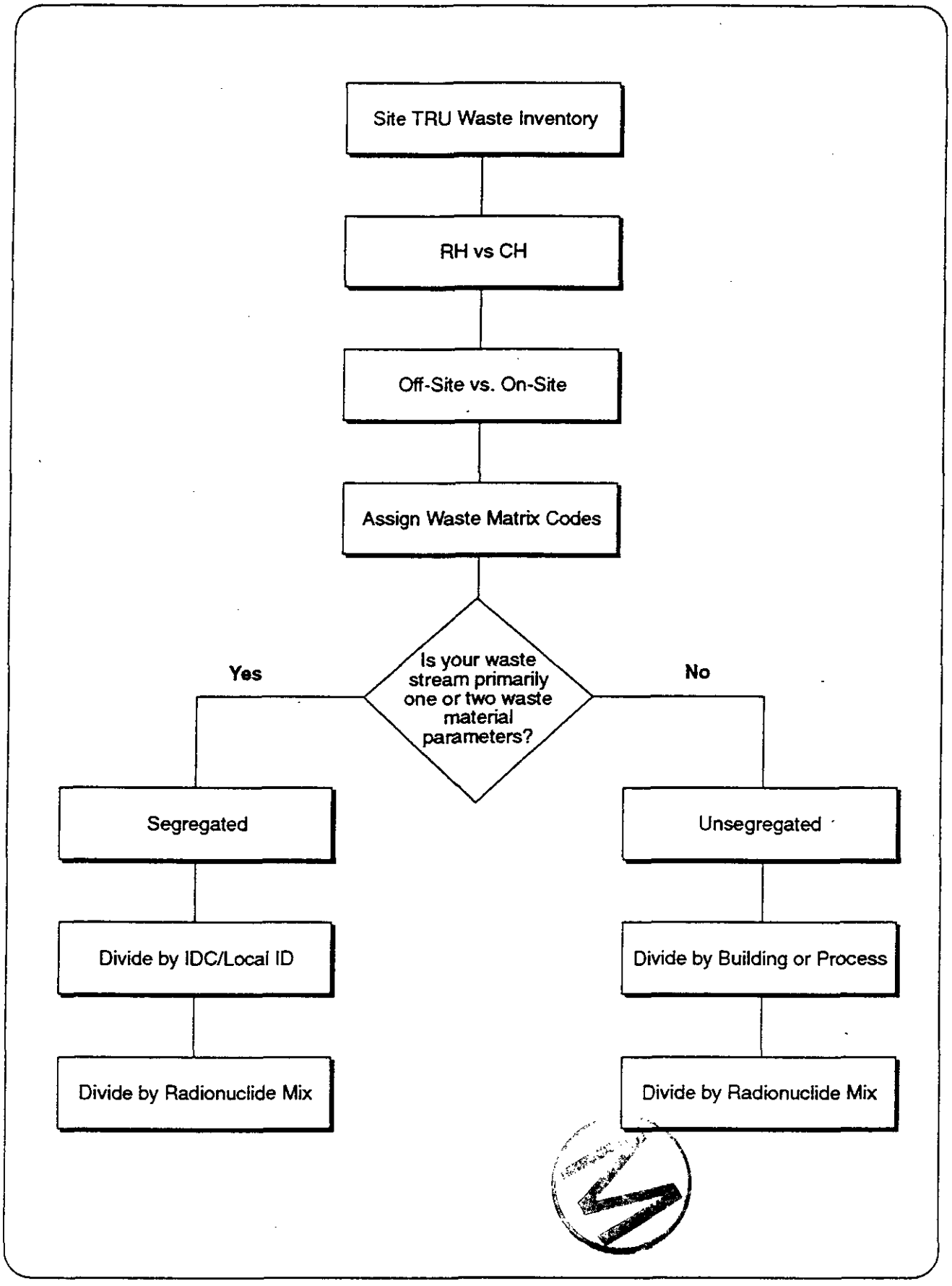

Figure 1-2. Definition of a Waste Stream

- As-generated Hazardous waste codes (EPA codes) as assigned by the DOE TRU waste generator/storage sites for the RCRA regulated portion of the waste stream. Some waste streams (waste stream profiles) contain hazardous waste codes that would not be currently acceptable for disposal in WIPP (e.g., D001, D002, and D003) under the most recent WIPP Part B Permit Application (DOE, 1995f). These hazardous waste codes are applied to the waste in its current physical form. These waste streams will have to be treated for any unacceptable hazardous constituents prior to transport to WIPP for disposal.
- Final Waste Form radionuclide inventory: activity in curies per cubic meter.
- Comments provided by the TRU waste generator/storage sites to further explain the data provided.
- TRUPACT-II Content (TRUCON) Codes (DOE, 1994c) and No Migration Variance Petition (NMVP) (DOE, 1990b) identifiers, where provided by the site.

Figure 1-3 provides an example of a blank waste stream profile form. The methodology for developing waste stream profiles is described in Chapter 2 and the TRU waste stream profiles are provided in Appendices O, P, and in the TWBID database files.

Site-Specific Waste Profile – This represents a Final Waste Form at a particular DOE TRU waste generator/storage site. That is, one or more waste stream profiles at a particular DOE TRU waste site, that have been placed in the same Final Waste Form, are summarized in the site-specific waste profile. Examples of information included in a site-specific waste profile are:

- DOE TRU waste generator/storage site identification;
- The Final Waste Form that the profile represents;
- Listing of the waste streams (represented by waste stream profiles provided by the TRU waste generator/storage sites) that are included in the site-specific waste profile, including the waste stream identification;
- Final Waste Form volumes (both stored and currently projected); and
- Summary of minimum, volume weighted average, and maximum weights of waste material parameters per cubic meter of final waste form volume on a site basis (e.g., iron-base metal/alloys, aluminum-base metal/alloys, cellulosics, etc.).

Figure 1-4 provides an example of a blank site-specific waste profile form. The methodology for developing site-specific waste profiles is described in Chapter 2 and printouts of WIPP TRU site-specific waste profiles are provided in Appendix A.

Waste Sub-stream – A waste sub-stream is one that results from a waste stream being divided into two or more fractions (for the purposes of reporting) in order to provide an additional level of detail about a site's current plans for repackaging or treating the waste.

WIPP Waste Profile – The WIPP waste profile represents a summary of TRU wastes at all DOE TRU waste generator/storage sites that have an identical Final Waste Form. Examples of information included in a WIPP waste profile are:

- The Final Waste Form that the profile represents;

TWBIR ID:

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:		Handling:		NMVP #:		Stream Name:				Inventory Date:	
Local ID:		Type:		Generator Site:		Final Waste Form:		Waste Matrix Code:		TRUCON Code:	

AS-GENERATED EPA CODES

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		

FINAL WASTE FORM DESCRIPTORS

Defense:

Residues:

Asbestos:

PCBs:

Source:

SITE IDCs

FINAL FORM RADIONUCLIDES

Isotope Activity (Ci/m3)

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	96-97	98-02	03-12	13-22	Totals

Final Waste Form Volumes

Container	Stored	96-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: Projected: Total:

Final Waste Form: Stored: Projected: Total:

WASTE STREAM DESCRIPTION

WASTE STREAM SOURCE DESCRIPTION

CURRENT CONTAINER COMMENTS

Figure 1-3. Blank Waste Stream Profile Form

TWBIR ID:

TRU WASTE BASELINE INVENTORY WASTE PROFILE

COMMENTS	
EPA COMMENTS	
MANAGEMENT COMMENTS	
ACCEPTANCE COMMENTS	

Figure 1-3. Blank Waste Stream Profile Form (continued)

Site-Specific Contact Handled Waste Profiles

Site Name:

Final Waste Form:

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)

Total Volume:

Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metals			
Aluminum Base Metals			
Other Metals			
Other Inorganic Material			
Vitrified			
Cellulosics			
Rubber			
Plastics			
Solidified Inorganic Materi			
Solidified Organic Materia			
Cement (Solidified)			
Soils			

Figure 1-4. Blank Site-Specific Waste Profile Form

- Listing of the DOE TRU waste sites (represented by the same Final Waste Form) that are included in the WIPP waste profile, including the name of the DOE TRU waste site;
- Final Waste Form volumes of stored and currently projected waste for each site and
- Summary of minimum, volume weighted average, and maximum weights of waste material parameters per cubic meter of final waste form volume on a WIPP basis (e.g., iron-base metal/alloys, aluminum-base metal/alloys, cellulosics, etc.).

Figure 1-5 provides an example of a blank WIPP waste profile form. The methodology and assumptions for developing WIPP waste profiles and printouts of the WIPP profiles are described in Chapters 2 and 3.

1.3.4 Database Terminology

Integrated Data Base (IDB) – The IDB refers to the latest version of the *Integrated Data Base: U.S. Spent Fuel and Radioactive Waste Inventories, Projections, and Characteristics* (DOE, 1995d).

Transuranic Waste Baseline Inventory Database (TWBID) – The TWBID is the database specifically developed to support the TWBIR and any other applications that might need TRU waste information on a waste–stream basis or for higher–level roll-ups.

1.3.5 Other Terminology

Waste Material Parameter – This is one or more nonradioactive waste constituents that occur in a TRU waste stream that is an input parameter into one or more current PA models or PA models under development, a potential future model, or is required to adequately describe the waste form (see Appendix B). The 12 waste material parameters have been grouped by their chemical/physical properties. These waste material parameters and additional packaging materials that are reported in densities (kg/m^3) and included in the TWBIR are:

WASTE MATERIAL PARAMETERS
- Iron-base metal/alloys
- Aluminum-base metal/alloys
- Other metal/alloys
- Other inorganic materials
- Vitrified
- Cellulosics
- Rubber
- Plastics
- Solidified inorganic material
- Solidified organic material
- Cement (solidified)
- Soils

PACKAGING MATERIALS
- Steel
- Plastic
- Lead

Definitions for these waste material parameters can be found in Chapter 2.

WIPP Contact Handled Waste Profiles

Final Waste Form:

Site	Retrievably Stored (m3)	Projected (m3)	Total (m3)

Total Volume _____

	Material Parameters (Kg/m3)		
	Maximum	Average	Minimum
Iron Base Metals			
Aluminum Base Metals			
Other Metals			
Other Inorganic Material			
Vitrified			
Cellulosics			
Rubber			
Plastics			
Solidified Inorganic Materi			
Solidified Organic Materia			
Cement (Solidified)			
Soils			

Figure 1-5. Blank WIPP Waste Profile Form

1.4 OBJECTIVES

The objectives of the TWBIR are:

1. **Establish a consistent DOE complex-wide methodology for grouping TRU wastes of similar physical and chemical composition.** A consistent methodology, in support of PA, for grouping TRU wastes of similar physical and chemical properties into "waste profiles" will provide a common frame of reference for discussion of TRU waste issues with regulatory organizations.

2. **Define the inventory of TRU wastes destined for WIPP.** The anticipated inventory of CH-TRU and RH-TRU wastes is defined as the sum of the existing volumes of stored and currently projected waste streams at each of the TRU waste generator/storage sites. The WIPP disposal inventory is defined in Section 1.3.1.

   Scaling of the currently projected CH-TRU waste inventory is necessary to attain the WIPP capacity. There is a high level of uncertainty in and a current lack of consistent data on waste projected to be produced by D&D and ER activities. DOE is developing the ER and D&D inventories through the 1995 *Baseline Environmental Management Report* (BEMR) data call (in development). The data for this report were not available in time to be incorporated in this revision of the TWBIR. Therefore, the projected inventory has been scaled to the WIPP capacity (disposal inventory).

3. **Calculate the disposal inventory in terms of waste material parameters.** Several waste material parameters (e.g., iron-base metal/alloys, rubber, plastics, etc.) have been identified by SNL/NM as being potentially significant in relation to the performance of the WIPP repository (see Table 1-1). Calculating the WIPP disposal inventory in terms of these parameters provides input for the PA calculations and sensitivity analyses needed to determine compliance with federal standards.

4. **Define the total DOE TRU waste inventory.** The Land Withdrawal Act requires that DOE develop recommendations and schedules for the disposal of all DOE TRU waste (Public Law, 1992b). The inventory presented in this document will be used in the development of the plan to respond to the LWA requirement.

1.5 TRU SYSTEM-WIDE DATA ASSUMPTIONS

As stated earlier, the TWBIR was developed using the best available information from the TRU *waste generator/storage sites. Some sites used different assumptions and methodologies for* reporting their waste stream data. Because of these differences, the TWBIR team had to make assumptions and take specific steps to ensure consistency among the sites' reported data. This section addresses the system-wide assumptions and actions taken by the TWBIR team in reporting the waste stream data. All adjustments made to the TRU waste generator/storage sites' data by the TWBIR team were approved by the sites. For a description of site-specific assumptions, see discussion in front of each site's waste stream profiles in Appendices O and P.

1.5.1 Waste Material Parameter Assumptions

The waste material parameter information reported by the sites must be summed and averaged to obtain data at the site-specific and WIPP waste profile levels. For some waste streams, however, not all of the waste parameter data were available from the sites. In order to calculate material parameters from the waste stream data provided by the sites, the following assumptions were made by the TWBIR team:

- If no minimum was provided, but a maximum was provided, the minimum was assumed to be zero.
- If a maximum and minimum were provided, but no average, the average was assumed to be one half the sum of the maximum and minimum.
- If an average was provided but no minimum or maximum, the average was assigned to the minimum and maximum.
- If only a minimum was provided, the minimum was assigned to both the maximum and the average.

For those waste streams where the site did not provide any waste material parameter information, but which could be assigned to a final waste form, an average set of parameters was calculated and used. This average set of parameters was calculated by volume averaging the parameters provided for other waste streams with the same final waste form.

Waste material parameter data contained in the body of this report are based on these assumptions, whereas, individual waste stream profiles included in Appendices O and P or in the database which accompanies this report contain the original, unchanged data as reported by the TRU waste generator/storage sites.

1.5.2 General Inventory Volume Assumptions

Other assumptions had to be made by the TWBIR team to ensure consistency in inventory volumes:

- Some sites did not provide final waste form volumes for waste streams that would be shipped to WIPP. Final waste form volumes are used in determining the overall inventories. In those instances, the TWBIR team assumed that the reported, as-generated volume would be the same as the final waste form volume.
- Many sites reported the final waste form containers (volumes) in the year that the waste will be treated or repackaged and not in the year the waste is initially generated. Because it is not the intent of the TWBIR to be a WIPP load management document, the TWBIR team put those treated/repackaged waste volumes in the year of initial generation, rather than show the work-off plans for the sites.

1.5.3 Changes to Rocky Flats Environmental Technology Site Volume and Curies Due to Change in Processing Option for Plutonium Residues

The Rocky Flats Environmental Technology Site (RFETS) changed their processing option for plutonium residues after the Revision 2 TWBIR data were submitted. The waste stream data provided in the TWBIR Revision 2 data update are based on processing of plutonium residues to recover plutonium. The current processing option is to repackage the plutonium residues to meet WIPP WAC (DOE, 1991) and ship as TRU waste to WIPP for disposal. There was not

enough time left in Revision 2 TWBIR update for RFETS to completely restructure their waste stream profiles to the new processing option in time to achieve the TWBIR Revision 2 schedule. Therefore, in order to more accurately represent the new treatment option (repackaging; ship as waste to WIPP) for plutonium residues, the following supplementary information was requested from RFETS (see Appendix J):

- Changes in total volume of waste by "Final Waste Form" due to the change in processing options
- Report the additional amount of radionuclides that would occur in the RFETS inventories as a result of not processing the plutonium residues to recover plutonium.

The methodology used to incorporate this supplemental information from RFETS, due to the new processing option, into the anticipated inventory (volumes) and the disposal radionuclide inventory (curies) is outlined below.

- The RFETS waste stream profiles are reported (Appendix P or the database that accompanies this report) as submitted with the older processing option, recovery of plutonium.
- In the RFETS site transuranic waste volume (Chapter 4), after all the individual waste stream profiles have been summed for a particular final waste form, the summed volumes are adjusted per the RFETS memo (Appendix J) and this adjustment is indicated in a footnote to the WIPP waste profiles.
- The "adjusted" final waste form volumes for RFETS are then in the summation of all TRU waste site volumes by final waste form to calculate the volumes for the WIPP waste profiles.
- The waste material parameter distributions for the new "ship as waste" option is assumed to be the same as that calculated in the "process to recover plutonium" option.
- Finally, the increased curies reported by RFETS due to the changes in processing options are added to the RFETS radionuclide inventory (Appendix D) and the WIPP radionuclide inventory (Table 3-4). The increased plutonium residue curies are not decayed to end of CY 1994 because RFETS did not have enough time to provide the residue radionuclide inventory for each year.

1.5.4 Packaging Material Assumptions

The TRU waste container data were not always reported consistently. While most did, some of the sites did not provide data for final waste form in WIPP approved containers as defined in WIPP WAC, Revision 3 (DOE, 1989). Some reported their waste in as-generated containers while others did not provide container information. Adjustments had to be made to the data to:

- Achieve consistency at the waste stream level in the presentation of data in the waste stream profiles (Appendices O and P or in the database which accompanies this report).
- Produce the upper-level waste packaging roll-ups needed by PA as inputs to the modeling activities.

1.5.5 Waste Profile Assumptions

The DOE TRU waste generator/storage sites assigned the TRUCON and NMVP codes based on the best available information. Many of the waste streams reported in Appendices O and P (or the database that accompanies this report) do not have TRUCON codes. The generator/storage sites will be required to generate the characterization paperwork necessary for DOE to include these waste streams in TRUCON. The cross-correlation table presented in Appendix E identifies each waste stream, TRUCON code, and NMVP code (if available).

Each waste stream profile was reviewed for consistency in reporting packaging configurations. In cases where incomplete information was submitted, clarifications were requested from the TRU waste generator/storage sites. In those cases where clarifications were not received from these sites, the following assumptions were made, concerning the waste stream profiles:

- If a particular waste container (e.g., 55-gallon drum) was reported by the sites (but no further information was provided), "standard" values of the waste container properties (see Table 1-3) were added to the waste profile forms. An example of this process is listed below for a reported 55-gallon drum without any additional information:

  - Type of material used to fabricate the waste container (steel)

  - The internal volume of the container (0.208 m^3)

  - Inclusion of a "standard" density for the container (131 kg/ m^3).

- If sites reported a "plastic" or "rigid" liner without any further definition of the liner then the values in Table 1-3 were used in the waste stream profiles:

  - A 90-mil high density polyethylene (HDPE) liner was assumed

  - The density for that type of liner was assumed (37 kg/m^3).

For RH-TRU waste, the following assumptions were made:

- If the waste was reported in drums, the drums were assumed to be overpacked in RH canisters at a maximum of three drums per canister.
- If the waste was not reported to be in drums, the waste was assumed to be direct loaded into RH canisters. The standard internal volume for RH canisters and the reported waste stream volume were used to determine the number of RH canisters.
- The lead in the RH canister (464 kg/m^3) is assumed in the packaging roll-ups even if it was not stated on each RH waste stream profile by the TRU waste generator/storage site.

Sites were requested to provide inventories and projections in number of containers. To be consistent with other DOE inventory reports (i.e., proposed Site Treatment Plans, IDB), the TWBIR team converted the number of containers to cubic meters using the internal container volume provided by the sites.

Table 1-3. Packaging Material Assumptions*

Container Configuration	Steel (kg/m^3)	Plastic (kg/m^3)	Lead (kg/m^3)	Volume (m^3)
55-gallon drum	131	37	N/A	0.208
SWB (direct load)	154	1.2	N/A	1.89
SWB (overpack) (4 55-gallon drums)	211	16	N/A	1.89
RH-TRU Canister (direct load)	434	0	464	0.89
RH-TRU Canister (overpack of 3 55-gallon drums)	526	26	464	0.89

*See calculations in Appendix M.

1.5.6 Radionuclide Information Assumptions

Some TRU waste sites reported incomplete radionuclide information (e.g., some show mixed fission products but no transuranic isotopes) for some waste streams. It is assumed that these waste streams will be demonstrated to be TRU upon completion of the radionuclide characterization.

Some sites did not report the radionuclide inventories for some waste streams in the units required by the TWBIR (curies per cubic meter). If the sites could provide the conversion factors, the TWBIR team converted the units to curies per cubic meter. If the conversion factors could not be provided, the radionuclides for these waste stream profiles were not reported in Appendices O and P or in the database that accompanies this report.

As indicated in Section 1.5.3, RFETS requested to change their TWBIR Revision 2 data package after submission. The data package modification was to incorporate a change in processing options for plutonium residues from recovery of plutonium to repackage and ship as waste to WIPP for disposal. The additional increment of curies due to the change in processing options has been included in the RFETS radionuclide submittal for Revision 2, which is reflected in the disposal radionuclide inventory presented later in Chapter 3, Table 3-4 and Appendix D.

The reported radionuclide information provided by the TRU waste generator/storage sites on a waste stream basis for most waste stream profiles is reported in Appendices O and P or in the database that accompanies this document. These data are provided for informational purposes only. The waste stream specific radionuclide data are not used in the calculation of the radionuclide inventory in Chapter 3.

1.6 SOURCE OF TRU WASTE INFORMATION

The TRU waste disposal inventory is derived from existing information on waste, which has been provided by the DOE TRU waste generator/storage sites and is primarily based on acceptable knowledge (see Glossary in Chapter 7). In addition to the general acceptable knowledge of a waste stream for non-radionuclide parameters, the radionuclide inventories are derived from non-

destructive assay, with some chemical analyses (to detect isotopes that do not lend themselves to non-destructive analyses or to evaluate waste streams that cannot be effectively analyzed through non-destructive methods), and on-site accountability and tracking records of special nuclear materials including any changes of isotopic ratios during processing.

Transuranic waste information primarily exists in two forms within the DOE TRU waste system:

- On-site documentation developed by the TRU waste generator/storage sites during the history of their operations.
- Summary reports, usually prepared to support WIPP documentation requirements. These summary reports have either been generated by the DOE area office in charge of WIPP or at the DOE-Headquarters (HQ) level. The information contained in these reports is derived from the TRU waste generator/storage sites.

Each of these two forms of waste information is described below.

1.6.1 Site-Specific Waste Information

The TRU waste generator/storage sites use a variety of on-site documents and records in order to derive the information listed for each individual waste stream in Appendices O and P or the database that accompanies this report. The documents/records can include many different sources, some of which might be the following: procurement records, waste stream process manuals, operating procedures, on-site safety documentation, process diagrams, waste production records, storage records, on-site waste database management systems, interviews with existing and former workers, transportation records, waste container tracking records, on-site documentation prepared for local, state, or regional regulators. This list is not meant to be inclusive or representative of all records used at every site, but is intended to be used for example purposes only. The number and types of documents can vary greatly from site-to-site so it is impractical to list them as references in this document.

The TWBIR team provided each DOE TRU waste site with a data package defining each TRU waste stream at their site that was reported in the WTWBIR, Revision 1 from their previous data submittals. The TRU waste generator/storage sites reviewed, changed, and authorized the characterization as valid for use in developing the TRU inventory for the TWBIR, Revision 2.

1.6.2 Existing Summary Documents on TRU Waste Information

In support of various programs, the DOE has published a series of documents over the years that contain varying amounts of waste information. Listed below are those documents that have formed the foundation of summary TRU waste information prior to the publication of the TWBIR.

Mixed Waste Inventory Report

The FFCAct required that the DOE, within 180 days of enactment of the FFCAct, submit to the EPA Administrator and the governor of each state in which the DOE stores or generates mixed wastes a report that contains:

- National inventory of all mixed wastes, regardless of the time they were generated, on a state-by-state basis and
- National inventory of mixed waste treatment capacities and technologies.

The FFCAct also stipulated specific reporting requirements for each of these inventories. The DOE submitted the six-volume set entitled: *U.S. Department of Energy Interim Mixed Waste Inventory Report: Waste Streams, Treatment Capacities and Technologies* (IMWIR), DOE/NBM-1100, dated April 1993 (DOE, 1993b), to fulfill these requirements. Since issuance of the "interim" report, DOE has requested additional information from the DOE TRU waste generator/storage sites and published two updated reports entitled:

- *Release of Phase I Mixed Waste Inventory Report Data*, dated April 1, 1994 (Phase I MWIR) (DOE, 1994b), which includes a data diskette (Version .97B) and the draft *Mixed Waste Inventory Report Data Base System User's Guide*.
- *Distribute* [Distribution] *of the Phase II Mixed Waste Inventory Report Data*, dated May 17, 1994 (Phase II MWIR) (DOE, 1994a), which includes a data diskette (Version 1.00) and the draft *User's Guide for National Data Base System for the Final Mixed Waste Inventory Report* (May 1994).
- *1995 National Mixed Waste Inventory Report Data System* which is the updated *1995 Mixed Waste Inventory Report* (DOE 1995g).

The Phase II MWIR was the basis of the mixed waste streams that were included in Revision 0 of the WTWBIR. The *1995 National Mixed Waste Inventory Report Data System*, Revision 11 of the IDB, and Revision 2 of the TWBIR were based on a joint request for data. Because the waste streams reported in the MWIR are the same as the mixed waste streams reported in the TWBIR, it was decided to expand the data call to accommodate both systems.

Integrated Data Base

The IDB (DOE, 1995d) is published by Oak Ridge National Laboratory (ORNL) for the DOE. The ORNL assembles radioactive waste inventories provided by DOE TRU waste generator/storage sites. This database does not report by waste stream, but rather, by the total inventory at each DOE site. The IDB also contains the radionuclide isotopic distribution for the waste stored at each site. In the past there were apparent inconsistencies between the WIPP TRU Waste Baseline Inventory Report and the IDB inventories due to the time differences and assumptions associated with the two data calls and due to the differences in reporting formats (e.g., "as-generated" versus "final form" volumes). In an effort to eliminate such inconsistencies, the TRU waste section of Revision 11 of the IDB (DOE, 1995d) was developed based on the Revision 1 WTWBIR data call and is presented in Appendix G of this document.

Other Sources of TRU Waste Information

There are additional summary documents that have been produced which contain extensive information about TRU waste. The amount and form of the documentation varies between documents due to the initial purpose for including waste information. These include:

- TRUCON (DOE, 1994c) - This document was developed to provide waste information to the Nuclear Regulatory Commission (NRC) in support of the TRUPACT-II certification application. The TRUCON concentrated on those waste parameters that were important for safe transportation of TRU waste (e.g., thermal heat loading, criticality, free liquids, etc.)
- NMVP (DOE, 1990b) - The No-Migration Variance Petition (NMVP) was developed by DOE to obtain a variance from the land disposal restrictions for mixed waste during the WIPP test phase as allowed under 40 CFR 268.6 (EPA, 1986). The NMVP waste information

concentrated on defining the volumes of various known TRU and MTRU waste streams in the DOE system at that time, and identifying the hazardous constituents expected to be found in the MTRU waste streams. Text was provided in the NMVP on each known waste stream at that time which summarized the acceptable knowledge and sampling and analysis information available (many TWBIR waste streams were not defined at the time the NMVP was developed). A NMVP for the operations/disposal phase will be submitted in 1996 to the EPA. The most current version of the TWBID will be the basis of the waste inventories in the operations/disposal phase NMVP.

- WIPP RCRA Part B Permit Application (DOE, 1995f) – This document has been submitted to the State of New Mexico to obtain a RCRA Part B Permit for WIPP.

TRU waste streams that are included in the TRUCON and the NMVP are cross correlated, if possible, to TWBIR waste streams in Appendix E. The designation of each waste stream in the TRUCON and NMVP, if applicable, can be found on the waste stream profile (Figure 1-3). The TWBIR should be considered the most current source of waste stream information when there is a discrepancy in information between the TWBIR and the TRUCON or NMVP documents.

1.7 METHODOLOGY FOR DEVELOPMENT OF DISPOSAL INVENTORY

Development of the WIPP TRU waste disposal inventory is accomplished by a series of steps starting with the individual waste streams submitted by the TRU waste generator/storage sites that are identified in Appendices O and P or the database that accompanies this report. These waste stream profiles are grouped together, based on similar physical and chemical properties, into common "WIPP waste profiles," which should facilitate discussions concerning the disposal waste inventory with regulatory agencies and stakeholders. The waste profiles also contain information on waste material parameters that could affect the performance of the WIPP repository and that may be direct inputs to the PA models. A more detailed explanation of the waste profile methodology is found in Chapter 2.

Because the volume of the anticipated inventory (as defined in Section 1.3.1) is not sufficient to fill the maximum calculated CH-TRU capacity of WIPP, scaling of the projected CH-TRU inventory is necessary to attain the following WIPP disposal inventory:

- Maximum calculated CH-TRU inventory = 5.95 million cubic feet (approximately 168,500 cubic meters) (see Section 1.3.1)

The anticipated inventory (as defined in Section 1.3.1) consists of up to 11 overall CH-TRU WIPP Final Waste Forms based on the physical and chemical properties of the waste streams. The CH-TRU scaling factor is computed as follows:

- For CH waste:

$$\frac{\text{maximum calculated CH-TRU inventory - stored CH-TRU inventory}}{\text{projected CH-TRU inventory}} = \text{CH-TRU scaling factor}$$

If the sum of the anticipated RH-TRU and CH-TRU inventories are less than the maximum allowable WIPP capacity, the projected inventory in future revisions of the TWBIR will include volumes of waste anticipated from D&D and ER activities as these estimates are made available.

The WIPP disposal inventory is the inventory to be used in PA calculations. To calculate the disposal inventory by Final Waste Form for CH-TRU waste, the projected inventory is multiplied by the scaling factor, added to the stored inventory for each Final Waste Form and summed together. See Section 3.2 for further details.

The RH-TRU anticipated inventory is greater than the WIPP C&C Agreement limit (DOE and State of New Mexico, 1981) of approximately 7,080 cubic meters. DOE will abide by the WIPP C&C Agreement for RH-TRU waste volumes and the Land Withdrawal Act which limits the curies of RH-TRU waste allowed in WIPP to 5.1 million curies (Public Law, 1992b). As stated earlier, one purpose of the TWBIR is to report the DOE TRU inventory in such a way that it will facilitate performance assessment by SNL/NM and support development of compliance applications to the appropriate regulatory agencies. **This is not a WIPP load management document. For these reasons, the RH-TRU inventory has not been scaled back in this document to the regulatory limit.** The RH-TRU inventory for WIPP will be averaged across all RH-TRU waste sites and reported as kg/m^3 for the waste material parameters and curies/m^3 for radionuclides.

1.8 BASELINE INVENTORY UPDATES

The TWBIR represents the best available TRU waste inventory information in support of the WIPP Project. It is anticipated that the TWBIR will be updated periodically. This update cycle will be modified based on the availability of additional waste information and/or the data needs of the WIPP Project as determined by the DOE.

1.9 DOCUMENT ORGANIZATION

The TWBIR is organized into chapters of text, figures, tables and supporting appendices. It flows from specific, detailed TRU waste information (provided by the TRU waste generator/storage sites) to the top level development and description of waste profiles and waste material parameters. The contents of remaining chapters in this document are summarized below:

- Chapter 2 discusses the waste profile methodology .
- Chapter 3 presents the WIPP disposal inventory: volumes, waste material parameters, and radionuclide inventory.
- Chapter 4 provides the stored and currently projected WIPP CH-TRU and RH-TRU inventories by site.
- Chapter 5 provides waste streams that are currently unacceptable for disposal in WIPP.
- Chapter 6 contains a description of the TWBID.
- Chapter 7 contains a glossary of important terms used in this document.
- Chapter 8 lists references cited in the TWBIR.
- Appendix A provides the WIPP site-specific waste profiles.
- Appendix B provides the SNL/NM memorandum describing the WIPP inventory data needed for PA modeling.
- Appendix C provides the TWBIR Revision 2 questionnaire.

- Appendix D provides the site-specific stored radionuclide inventories decayed to December 1995.
- Appendix E provides the cross-correlation table for the TWBIR Revision 2, TRUCON, and the NMVP.
- Appendix F provides the MWIR code designations and descriptions.
- Appendix G provides the TRU waste section of the 1995 Integrated Data Base, Revision 11.
- Appendix H provides a cross-reference table for the WTWBIR Revision 1 waste streams and the TWBIR Revision 2 waste streams.
- Appendix I provides a table of the phosphates, sulfates, and nitrates reported by the DOE generator/storage sites.
- Appendix J provides the Rocky Flats Environmental Technology Site memorandum that describes the volume and curie changes due to the change in processing assumptions for plutonium residues.
- Appendix K provides summary information of the mixed and non-mixed WIPP waste by site.
- Appendix L provides the TWBID Revision 2 Data Dictionary.
- Appendix M provides Waste Packaging Material Derivation Calculations.
- Appendix N provides the guidelines for review of generator/storage site waste stream profiles.
- Appendix O provides the non-WIPP waste stream profiles.
- Appendix P provides the WIPP waste stream profiles.

There will be two distributions of the TWBIR, Revision 2 document. One will be presented in three volumes: Volume 1 contains the TWBID diskettes; the Preface; Executive Summary through Chapter 8; Volumes 2 and 3 contain Appendices A through P. This document presentation will be distributed to regulatory agencies, DOE and other top-level interfaces. A second distribution will be presented in one volume. For this second type of distribution, the volume will contain the TWBID diskettes; the Preface; Eecutive Summary through Chapter 8; and Appendices A through N. Information for Appendices O and P can be found on the diskettes. This document presentation will be distributed to all other users of the TWBIR.

CHAPTER 2

2. WASTE PROFILE METHODOLOGY

2.1 INTRODUCTION

The lowest tier of information in the TWBIR is the waste stream profile, which documents specific information for each separate TRU waste stream identified by each DOE TRU waste generator/storage site. In this chapter the waste stream profile will be discussed along with the methodology for grouping waste streams into site-specific profiles and WIPP waste profiles.

2.1.1 Waste Stream Profile Description

Each DOE TRU waste generator/storage site was provided data packages that contained the characterization information provided by the TRU waste sites for Revision 1 of the WTWBIR. Each DOE site was asked to review the data packages and update the information as necessary (see Appendix C for the TWBIR Revision 2 Questionnaire). Some sites divided their WTWBIR, Revision 1 waste streams into two or more sub-streams to provide greater characterization detail. A cross reference table for WTWBIR, Revision 1 waste streams and TWBIR, Revision 2 waste streams is provided in Appendix H. Additionally, the sites were required to generate data packages for any waste streams that were not defined in the WTWBIR, Revision 1 (e.g., new waste streams or excluded waste streams). This data submittal from the DOE generator/storage sites provided approximately 970 individual TRU waste streams that were used in developing the waste stream profiles (see Appendices O and P or the database that accompanies this report). Figure 2-1 provides an example TRU waste stream profile for an INEL waste stream.

In addition to presenting the density of waste material parameters (if reported by the TRU waste generator/storage sites) in each DOE waste stream, the waste stream profile also provides a cross-reference (top of the waste stream profile form) to the different waste stream nomenclature used in previously generated DOE documents (i.e., TRUCON, NMVP). Appendix E provides a cross correlation table for a TWBIR waste stream with the NMVP and the TRUCON. The fields utilized on the waste stream profile, the sources of the information, and a short explanation of the data located in a particular field are described in Table 2-1. All data (except the MWIR ID which may be provided by the MWIR team) in all waste profiles are provided by the TRU waste generator/storage sites. A complete set of the waste stream profiles is provided in Appendices O and P or in the database that accompanies this report. The waste stream profiles do not incorporate all the data collected in the TWBIR data call questionnaire. Other information, such as that presented in Appendix K, can be obtained by querying the TWBID.

DOE has directed the TRU waste generator/storage sites to append their hazardous waste codes (EPA codes) to further define the waste in order to develop an appropriate treatment technology. These appended codes are recorded in the TWBIR, if they were provided by the generator/storage sites, to maintain consistency with other characterization documents and to provide the maximum characterization information available. These code designations and descriptions are presented in Appendix F. For example, D003 is defined by EPA as a hazardous waste that exhibits "reactive" characteristics. DOE further subdivided this code as D003A (reactive cyanide), D003B (reactive sulfides), D003C (explosives), D003D (water reactives), and D003E (other reactives).

TWBIR ID: IN-W169.191

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W169	Handling:	CH	NMVP #:	116	Stream Name:	DRY PAPER AND RAGS:CH-Cert-repack	Inventory Date:	
Local ID:	ID-RFO-330T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D022, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	36.8	0.0	233.0
Other Inorganic Material:	27.2	0.0	196.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	135.0	6.6	817.0
Rubber:	57.2	0.0	330.0
Plastics:	188.0	14.8	887.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

116, 216

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
U-238	8.48E-11
U-235	2.60E-06
Pu-242	9.75E-06
Pu-241	3.61E+00
Pu-240	1.36E-01
Pu-239	5.98E-01
Pu-238	2.11E-02
Am-241	3.78E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	4266.8	0.0	0.0	0.0	0.0	4266.8
Totals	4266.8	0.0	0.0	0.0	0.0	4266.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4267.1	0.0	0.0	0.0	0.0	4267.1
Totals	4267.1	0.0	0.0	0.0	0.0	4267.1

As-Generated Form: Stored: 4266.8 Projected: 0.0 Total: 4266.8

Final Waste Form: Stored: 4267.1 Projected: 0.0 Total: 4267.1

Figure 2-1. Example of Waste Stream Profile from Idaho National Engineering Laboratory

WASTE STREAM DESCRIPTION	This waste stream is the largest combustible waste stream. The waste stream is from Rocky Flats Plant and primarily consists of line- and nonline-generated dry combustible materials such as paper, rags, plastics, surgical gloves, cloth overalls and booties, cardboard, wood, wood filter frames, PE bottles, and laundry lint. Some combustibles may be damp or moist. Limited amounts of noncombustibles such as glass, concrete, cement, leaded glovebox gloves, batteries, and metal scrap may also be present. There is a lack of information about the waste shipped prior to 1975. The average waste organic material content may range from 6 lb/ft3 for boxes to over 14 lb/ft3 for drums. Although limited fines are expected from floor sweepings, powder, etc., levels of fines should be within WIPP-WAC limits. The waste is packaged with no free liquids, sludges, explosives, compressed gases, pyrophoric or corrosive materials. Depending on when and where the waste was generated at Rocky Flats, the waste packaging may vary. For wastes generated prior to 1975, packaging information is incomplete. Line-generated waste may be double contained in plastic or placed in PE bottles and then double bagged. Nonline-generated wastes were single-bagged or placed directly into the waste container. Oil-Dri may have been added to some drums. After 1974, some waste was drummed, and some waste was placed in 4 ft x 4 ft x 7 ft boxes. Some combustibles are single, double or quadruple bagged or wrapped PVC and PE bags or plastic. Combustibles such as clothing and dryer lint are placed directly into 55-gallon drums. Some wastes are placed in 1-gallon PE bottles. Some drummed waste was repacked into boxes to reduce volume. During repacking, any noncombustibles were removed. Some boxes may contain moist combustible waste and up to 100 lb of Oil-Dri. Drums containing wastes from the Americium Recovery Line are lead-lined. Drums shipped prior to 1977 contain compacted wastes.
WASTE STREAM SOURCE	This record represents the [CH-Cert-repack] portion (73.89%) of the MWIR waste stream, [DRY PAPER AND RAGS] after processing. The proposed processing sequence is {SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp}. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W169, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

Figure 2-1. Example of Waste Stream Profile from Idaho National Engineering Laboratory

TABLE 2-1. SOURCES OF INFORMATION USED IN WASTE STREAM PROFILES

Information Field	Explanation
TWBIR ID	The TWBIR ID number assigned by the TRU waste generator/storage site
HQ ID	The unique identifier assigned by the Headquarters Waste Inventory team (MWIR)
Local ID	On-site ID used at the TRU waste generator/storage site
Handling	CH – Contact-Handled TRU waste RH – Remote-Handled TRU waste
[Waste] Type	MTRU – mixed TRU waste TRU – nonmixed TRU waste
NMVP #	If applicable, what a waste stream is called in the No Migration Variance Petition (DOE, 1990b)
Generator Site	TRU waste site that originally generated the waste
Stream Name	Name used to identify waste stream by the TRU waste generator/storage site
Final Waste Form	Grouping of wastes into 11 WIPP profiles (see Table 1-2)
Waste Matrix Code	Physical/chemical waste matrix code assigned by the TRU waste generator/storage site (DOE, 1995b)
Inventory Date	Date of the waste volume inventory
TRUCON Code	If applicable, what a waste stream is called in the TRUCON (DOE, 1994c)
As-Generated EPA Codes	Identifies the applicable EPA codes for the waste at the time of generation
Waste Material Parameters	The average (nominal), minimum, and maximum densities of the non-radionuclide waste materials in the waste stream (kg/m^3)
Final Waste Form Descriptors	Identifies if the waste stream is defense, non-defense, or commercial; if it contains residues, asbestos, PCBs, identifies the source for the waste stream
Final Form Radionuclides	Radionuclide inventory of the Final Waste Form of the waste stream. Provides estimate of "typical" radionuclide concentration expected in waste stream on a curies/m^3 basis.
Waste Volume Detail	The as-generated waste form volumes and the final waste form volumes (in cubic meters)
Waste Stream Description	Description of the physical/chemical nature of the waste from Section 3.1 of the TWBIR, Revision 2 Questionnaire (see Appendix C).
Waste Stream Source Description	Description of the waste stream generating process from Section 8.2.9.1 of the TWBIR, Revision 2 Questionnaire (see Appendix C)
Management Comments	Additional information (if provided by the sites) that may be pertinent to the status of current or planned management of the waste stream.
Acceptance Comments	Additional information (if provided by the site) that may be pertinent to the acceptance of the data reported for the waste stream.
Current Container Comments	Additional information (if provided by the site) that may be pertinent to describing the as-generated waste.
EPA Comments	Additional information (if provided by the site) that may be pertinent to the hazardous waste characterization of the waste stream.

2.1.2 Waste Material Parameter Description

This section defines the waste material parameters to be evaluated in PA calculations. Waste material parameter information is provided on the waste stream profile by the TRU waste generator/storage sites. In those cases where waste material parameter information could not be provided by the TRU waste generator/storage sites for waste streams with volumes in the final waste form. An alternative methodology was adopted as described in Section 2.1.3. If a waste stream is to be packaged in Final Waste Form into more than one type of container (e.g., drums and SWBs) and the waste material parameters are different for each container, then the Waste Stream Profile for the waste stream in Appendix O or P will provide a weighted average for all containers for the waste material parameters. The database that accompanies the report will provide the waste material parameters for each container. This waste material parameter information is used to estimate the anticipated WIPP inventory, which is then scaled, if necessary, to obtain the WIPP disposal inventory. This WIPP inventory is presented as a weighted average with a maximum and minimum expected weight/volume for each waste material parameter. The packaging materials are also reported as weight/volume, but there is no range because standard packaging densities in Table 1-3 are used for roll-ups.

The waste material parameter information, which is provided by the TRU waste generator/storage sites, consists of 12 waste material parameters and additional packaging materials that are inputs into the PA models. These are presented below.

- Iron-base metal/alloys – This designation is meant to include iron and steel alloys in the waste and does not include the waste container materials. This also includes an iron-base metallic phase associated with any vitrification process, if applicable.
- Aluminum-base metal/alloys – Aluminum or aluminum-base alloys in the waste materials.
- Other Metal/Alloys – All other metals found in the waste materials (e.g., copper, lead, zirconium, tantalum, etc.). The lead portion of lead rubber gloves/aprons is also included in this category.
- Other Inorganic Materials – Includes inorganic non-metal waste materials such as concrete, glass, firebrick, ceramics, graphite, sand, and inorganic sorbents.
- Vitrified – This refers to waste that has been melted or fused at high temperatures with glass forming additives such as soil or silica in appropriate proportions to result in a homogeneous glass-like matrix. (Note that any unoxidized metallic phases, if present, are included in the "Iron-base metal/alloys" WMP.)
- Cellulosics – Includes those materials generally derived from high polymer plant carbohydrates. Examples are paper, cardboard, kimwipes, wood, cellophane, cloth, etc.
- Rubber – Includes natural or manmade elastic latex materials. Examples are Hypalon®, neoprene, surgeons' gloves, leaded-rubber gloves (rubber part only), etc.
- Plastics – Includes generally manmade materials, often derived from petroleum feedstock. Examples are polyethylene, polyvinylchloride, Lucite®, Teflon, etc.

- Solidified Inorganic Material – Includes any homogenous materials consisting of sludge or aqueous-base liquids that are solidified with cement, Envirostone®, or other solidification agents. Examples are wastewater treatment sludge, cemented aqueous liquids, and inorganic particulates, etc. If a TRU waste site has not reported cement used as part of the solidification process in the "cement (solidified)" WMP, the density of the cement is included in this field.
- Solidified Organic Material – Includes cemented organic resins, solidified organic liquids, and sludges.
- Cement (solidified) – Includes the cement used in solidifying liquids, particulates, and sludges. If for a solidified final waste form this field is left blank, it means that either cement is not the solidifying agent or that the cement is included in the "solidified inorganic material" WMP.
- Soils – Generally consists of naturally occurring soils that have been contaminated with inorganic radioactive waste materials.

Packaging Materials

The TRU waste generator/storage sites have been asked in each waste stream profile to define the final waste form and volumes in containers that are currently approved for shipment. Listed below are the currently approved CH–TRU packaging configurations for TRUPACT–II (NRC, 1995) and anticipated approved RH–TRU packaging configurations (VECTRA Technologies, Inc., 1994):

- TRUPACT–II
  - 55-gallon drum
  - Standard Waste Box (SWB)
  - 55-gallon drums (maximum of 4) overpacked in SWB.
  - Ten drum overpack (TDOP)
- RH–TRU cask (anticipated acceptable packaging configurations for the RH–TRU cask)
  - RH–TRU canister
  - maximum of three 55-gallon or 30-gallon drums overpacked in a RH–TRU canister.

For the rollups in the site-specific and WIPP profiles, the standard values provided in Table 1-3 were used for the packaging materials.

In cases where the sites defined a type of waste container, but not the weight/volume of the packaging, assumptions were made about the weight of the containers in order to include these estimates as part of the overall inventory destined for WIPP. If overpacking a waste container was necessary for transport in a shipping cask, overpacking was assumed. The densities assumed are included as part of the "TRU system–wide data assumptions" included in Section 1.5.4 and Table 1-3.

- Steel – The weight of the steel part of the packaging from container information provided by the TRU waste generator/storage sites. Any necessary overpacking is included in the weight.
- Plastics – The weight of any plastic packaging submitted by the TRU sites. When weight of a rigid liner is not given a 90-mil HDPE liner is assumed.
- Lead – The weight of the lead shielding in a RH-TRU canister is assumed if not provided by the TRU waste generator/storage sites. The weight is included in the "Packaging Material Assumptions" in Section 1.5.

2.1.3 Assignment of the Final Waste Form

The DOE TRU waste generator/storage sites have assigned an overall Final Waste Form to each waste stream based on the physical and chemical form of the waste. The WIPP Project has developed the WIPP WAC (DOE, 1991) for any waste packages to be shipped to WIPP to ensure the safe handling, transport, and emplacement of the waste packages in the WIPP. In general, the final waste forms that meet the Department of Transportation (DOT) regulations and are acceptable for emplacement in WIPP are listed in Table 1-2. The WMC and Final Waste Form are located on each waste stream profile. The assignment of the WMC is based on *DOE Waste Treatability Group Guidance* (DOE, 1995b).

For the purpose of this document, TRU waste generator/storage sites were requested to provide Final Waste Forms for the waste after the sites process, treat, or repackage the waste. The Final Waste Form is indicated on the waste stream profile. For most waste stream profiles, the TRU waste generator/storage sites have provided estimates of the waste material parameters (e.g., an INEL waste stream profile is used for illustrative purposes in Figure 2-1). However, in some cases the TRU waste generator/storage sites were unable to provide waste material parameter values for some waste streams. This resulted in the following possible changes to the overall methodology presented in this chapter:

- In some cases the TRU waste generator/storage sites could categorize the waste stream profile into one of the 11 WIPP Final Waste Forms (Table 1-2) but could not give any waste material parameter information. In these cases, the TWBIR derived the parameters as follows:
  - If the waste stream was reported with waste material parameters in the WTWBIR, Revision 1, the TWBIR team used the Revision 1 parameters.
  - If the waste stream was not reported with waste material parameters in the WTWBIR, Revision 1, the TWBIR team assumed that the waste stream has the same range and average waste material parameters as that of the particular WIPP Final Waste Form

profile. For example, if a salt waste stream did not contain any waste material parameter information, but has been identified by a TRU waste generator/storage site as being a salt final waste form, then the volume of that waste stream was added to the total volume of all other salt waste streams in the WIPP Waste Profile for salt waste.

- In a few cases, TRU waste generator/storage sites were unable to categorize a TRU waste stream into one of the WIPP Final Waste Forms (Table 1-2). In these cases the waste stream profile is placed in the "unknown" category. The "unknown" waste streams are not documented as part of the WIPP inventory, but are listed in the "Possible Future Waste" in Section 5.4. "Unknown" wastes will have to be characterized and may require treatment prior to emplacement in WIPP.

2.2 REVIEW OF WASTE STREAM PROFILES

The TWBIR technical staff conducted a thorough review of each waste stream profile submitted by the generator/storage sites. Appendix N provides the reviewer guidelines for waste stream profile evaluations. If there are questions about the waste stream profiles, the TWBIR team contacts the TRU waste generator/storage site to resolve the issues. In some instances, a member of the team visited the site to support resolution of major discrepancies. Concurrence by TRU waste generator/storage site representative on data changes to waste stream profiles are required prior to publication. Figure 2-2 provides a flow diagram of the waste stream profile review process. New/updated data that are entered in the TWBID are quality checked (QC) to ensure the accuracy of the database.

2.3 SITE-SPECIFIC WASTE PROFILE METHODOLOGY

Waste streams at each TRU waste generator/storage site with similar WMCs can be grouped together into Final Waste Forms (Table 1-2) for a site-specific waste profile. In other words, a site-specific waste profile presents a roll-up of the data for all waste streams at a given site that have the same final waste form. The methodology for grouping waste streams within generator/storage site is shown in Figure 2-3. The grouping of individual waste stream profiles into a site-specific waste profile is based on the similar physical and chemical properties of the waste streams and how that information is used in the PA models (see Appendix B). In the example in Figure 2-3, due to their similar properties for PA modeling, concrete waste, glass waste, firebrick waste, and ceramic waste mainly influence the estimation of porosity and permeability in the PA calculations. Therefore, the three waste streams within DOE TRU Waste Site #1 and the two at DOE TRU Waste Site #2 can be grouped together at each site based on similar physical and chemical properties and placed into the site-specific waste profile "inorganic non-metal" waste, with the Final Waste Form defined in Table 1-2.

A site-specific waste profile is developed at each of the TRU waste generator/storage sites for each of the Final Waste Forms that have individual waste streams at the site. These site-specific waste profiles provide a roll-up of the waste material parameter and volume information found in the waste stream profiles for each site. Since there are 11 Final Waste Forms, there is a maximum of 11 possible CH-TRU and 11 possible RH-TRU site-specific waste profiles at any generator/storage site; however, most sites have fewer profiles due to differences in waste segregation practices. An example site-specific waste profile is provided in Figure 2-4. All the site-specific waste profiles for TRU waste are provided in Appendix A.

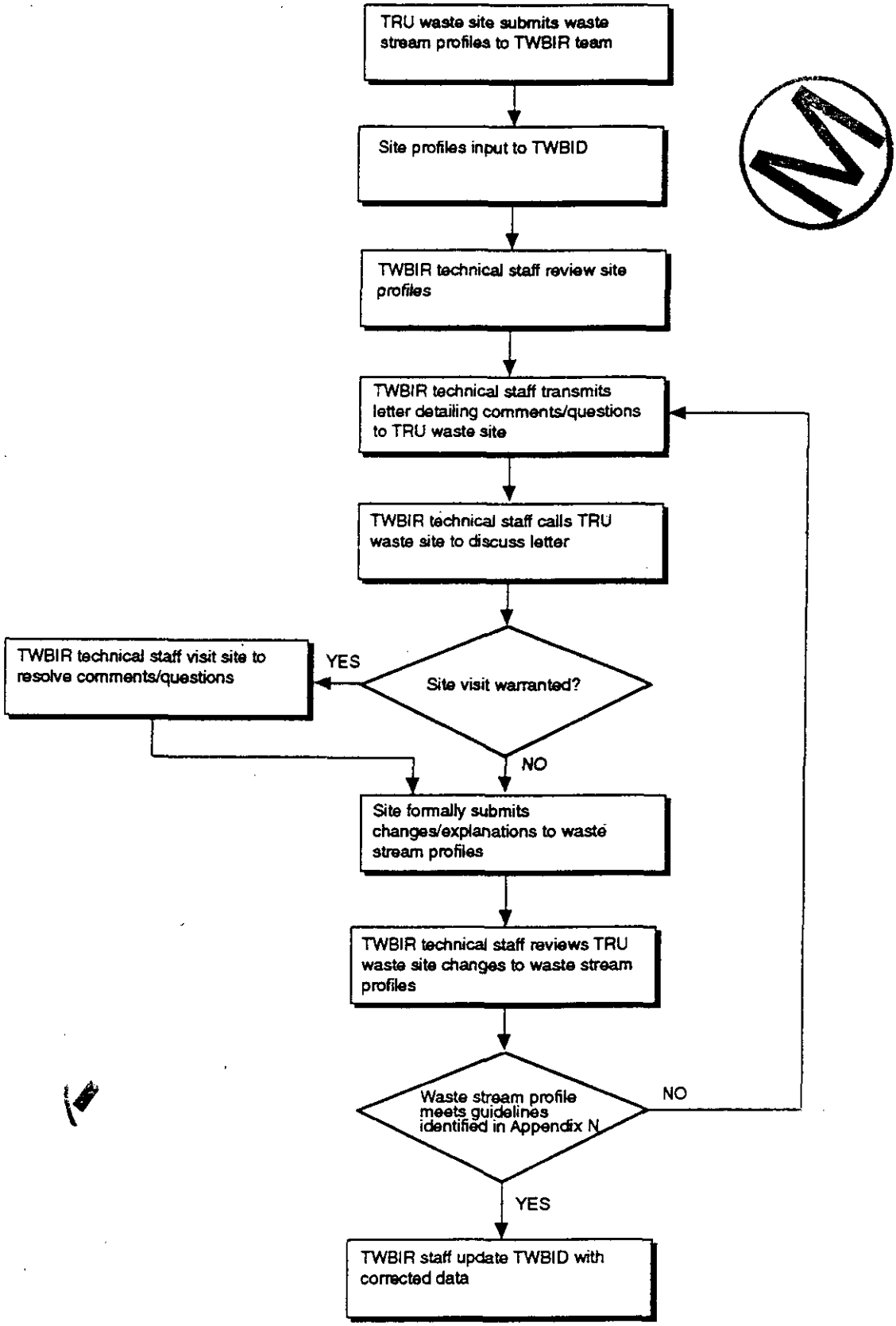

Figure 2-2. Schematic of Review Methodology of Waste Stream Profiles

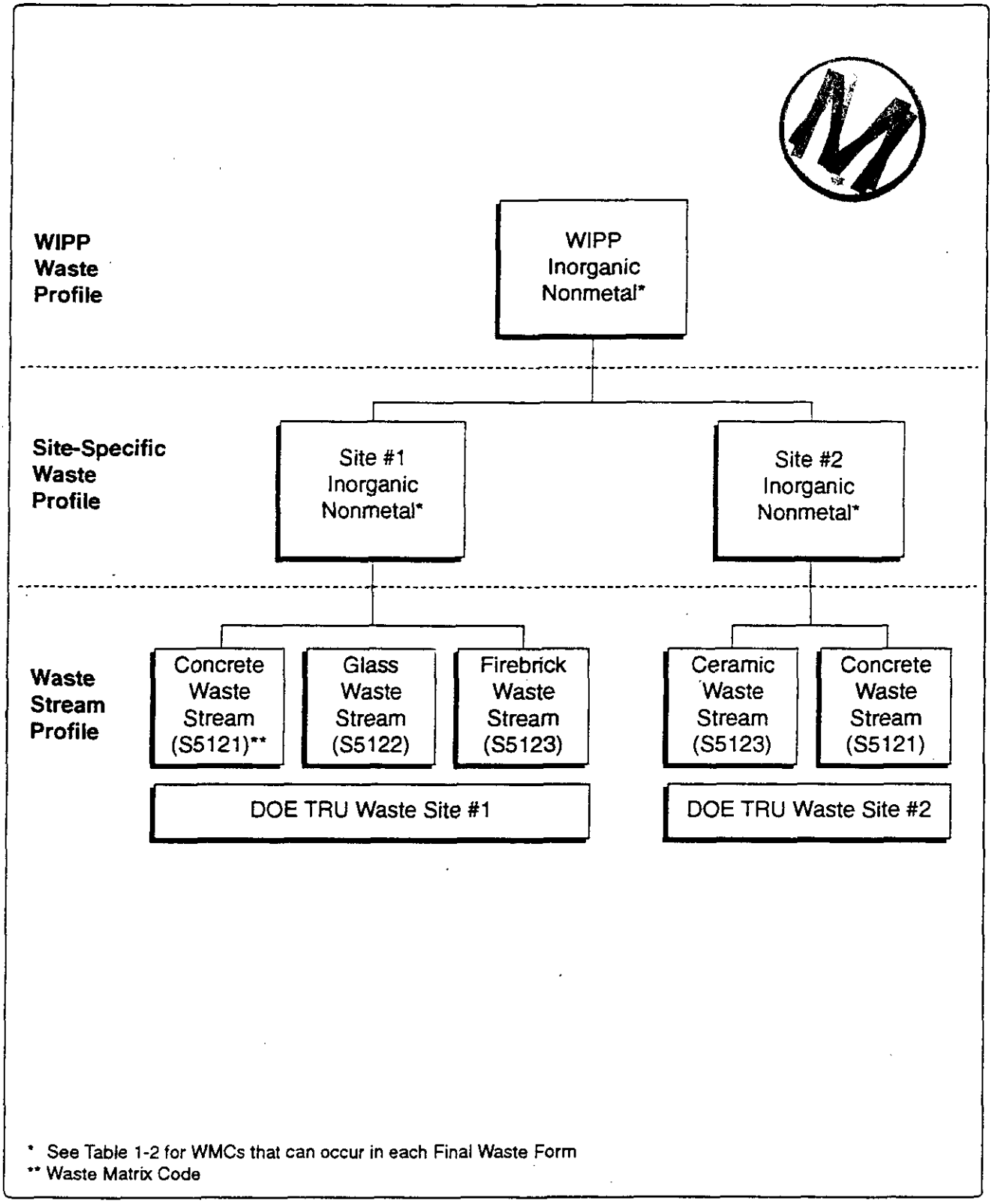

Figure 2-3. Schematic of Waste Stream Profile Methodology.

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Combustible

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
IN-W186.187	2695.2643	0.0000	2695.2643
IN-W198.202	119.6000	0.0000	119.6000
IN-W198.804	32.8230	0.0000	32.8230
IN-W199.1039	0.8885	0.0000	0.8885
IN-W202.1092	0.8885	0.0000	0.8885
IN-W202.224	109.6160	0.0000	109.6160
IN-W205.1086	0.8320	0.0000	0.8320
IN-W205.220	0.6805	0.0000	0.6805
IN-W250.259	14.0670	0.0000	14.0670
IN-W250.941	50.9600	0.0000	50.9600
IN-W252.283	117.7280	0.0000	117.7280
IN-W252.811	32.8230	0.0000	32.8230
IN-W254.289	2.3445	0.0000	2.3445
IN-W254.290	7.2800	0.0000	7.2800
IN-W256.1062	20.5920	0.0000	20.5920
IN-W256.295	5.9935	0.0000	5.9935
IN-W269.510	5.9935	0.0000	5.9935
IN-W269.535	20.8000	0.0000	20.8000
IN-W305.1068	37.4400	0.0000	37.4400
IN-W305.828	10.6825	0.0000	10.6825
IN-W327.1085	3.5360	0.0000	3.5360
IN-W327.735	1.3045	0.0000	1.3045
IN-W330.677	6.0320	0.0000	6.0320

Figure 2-4. Example of Site-Specific Waste Profile

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Combustible

IN-W330.678	1.9285	0.0000	1.9285
IN-W336.660	4.1600	0.0000	4.1600
IN-W336.820	0.6805	0.0000	0.6805
Total Volume:	**3304.94**	**0.00**	**3304.94**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	167.8	2.2	0.0
Aluminum Base Metal/Alloys	0.3	0.0	0.0
Other Metal/Alloys	474.5	7.8	0.0
Other Inorganic Materials	119.0	6.1	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	961.5	479.6	0.0
Rubber	629.0	75.3	0.0
Plastics	706.7	145.9	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Figure 2-4. Example of Site-Specific Waste Profile (continued)

The TWBIR technical staff performs QC on the site-level rollups to be sure that the database rollups are correct, and reviews the summary data to ascertain if the data are "reasonable" based on the experience of the technical staff. If the data appear unreasonable, the TWBIR participant will question the site to be sure that the data have been properly reported. If a change is required, formal documentation from the site is received.

2.4 WIPP WASTE PROFILE METHODOLOGY

The WIPP waste profiles are the highest tier of information in the TWBIR. Site-specific waste profiles with the same Final Waste Form are combined across the TRU waste generator/storage sites into what is defined as an overall WIPP waste profile. To illustrate the methodology for grouping similar site-specific waste profiles into WIPP waste profiles, the CH-TRU WIPP waste profile for "inorganic non-metal" waste (exemplified in Figure 2-3) is provided in Figure 3-5. The TWBIR technical staff evaluates the WIPP-level rollups in a similar manner as described for the site-level rollups.

As described in Sections 2.1 and 2.2, each waste stream from each TRU waste generator/storage site is defined in a waste stream profile, then grouped by site Final Waste Forms into site-specific waste profiles. These site-specific waste profiles are then rolled-up into WIPP waste profiles by combining identical Final Waste Forms from all the TRU waste generator/storage sites. For example, all site-specific waste profiles for "inorganic non-metal" waste are grouped together to generate the WIPP waste profile, "inorganic non-metal" waste. As with the site-specific waste profiles, there can be a maximum of 11 possible WIPP waste profiles for CH-TRU and 11 possible WIPP waste profiles for RH-TRU waste.

CHAPTER 3

3. WIPP DISPOSAL INVENTORY

3.1 INTRODUCTION

The highest tier of information in the TWBIR is the WIPP waste profiles, waste material parameter densities, disposal radionuclide inventory, and the WIPP disposal inventory volumes. This chapter will present these upper level WIPP data sets and the methodology used in deriving the data sets.

3.2 WIPP DISPOSAL INVENTORY VOLUMES FOR EACH FINAL WASTE FORM

As discussed in Section 1.3, the disposal inventory is defined by the LWA (Public Law, 1992b) and the WIPP C&C Agreement (DOE and the State of New Mexico, 1981) as: the maximum allowable WIPP capacity is approximately 175,600 cubic meters, of which RH-TRU disposal inventory is limited to approximately 7,080 cubic meters resulting in a calculated CH-TRU disposal inventory limit of approximately 168,500 cubic meters.

Using volumes for all the defense TRU waste streams (including the mixed and non-mixed TRU waste volumes) in the TWBID, a disposal inventory of TRU waste has been developed using the methodology described in this and the preceding sections. This inventory is presented in Table 3-1 (by Final Waste Forms) and depicts both the anticipated and disposal inventory volumes.

As defined in Section 1.3.1, the anticipated CH-TRU inventory volumes are the sum of the "stored" and "projected" volumes. The procedure to scale to the disposal inventory is summarized below. Scaling of the disposal inventory is for PA purposes to allow PA to model a capacity waste load based on currently anticipated profiles.

- Applying the formula given in Chapter 1:

$$\frac{\underset{\text{(CH-TRU disposed inventory)}}{1.685 \times 10^5 m^3} - \underset{\text{(stored inventory)}}{5.8 \times 10^4\ m^3}}{5.4 \times 10^4\ m^3 \text{ (projected inventory)}} \approx 2.05 \text{ (scaling factor)}$$

- Multiply the CH-TRU waste projected inventory volumes by the scaling factor for all the Final Waste Forms, and add the stored volumes (which results in the numbers in the "Disposal Inventory" column of Table 3-1).

The CH-TRU waste stream volume on a system-wide Final Waste Form basis is increased by 50 percent to account for the difference between the anticipated inventory and the maximum calculated WIPP CH-TRU disposal inventory.

The RH-TRU WIPP inventory has not been scaled. The RH-TRU anticipated inventory is greater than the amount of RH-TRU waste allowed in the WIPP by the C&C Agreement (DOE and the State of New Mexico, 1981). DOE is committed to abide by all agreements and laws regarding RH-TRU limitations. DOE and SNL/NM will evaluate this inventory to determine the disposal

Table 3-1

TRANSURANIC WASTE DISPOSAL INVENTORY FOR WIPP

Contact Handled Waste (Cubic Meters)

Final Waste Forms	Stored Volumes	Projected Volumes	Anticipated Volumes	WIPP Disposal Volumes
Combustible	5.8E+03	4.6E+03	1.0E+04	1.4E+04
Filter	2.2E+02	5.1E+02	7.3E+02	1.2E+03
Graphite	5.1E+02	4.8E+01	5.6E+02	6.0E+02
Heterogeneous	2.7E+04	1.3E+04	4.0E+04	5.1E+04
Inorganic Non-Metal	3.1E+03	9.4E+02	4.1E+03	4.9E+03
Lead/Cadmium Metal Waste	3.5E+01	3.3E+02	3.7E+02	6.6E+02
Salt Waste	2.1E+01	3.3E+02	3.5E+02	6.4E+02
Soils	4.1E+02	6.0E+03	6.4E+03	1.2E+04
Solidified Inorganics	9.6E+03	4.5E+03	1.4E+04	1.8E+04
Solidified Organics	9.1E+02	7.5E+01	9.8E+02	1.1E+03
Uncategorized Metal	1.1E+04	2.3E+04	3.4E+04	5.4E+04
Total CH Volumes	**5.8E+04**	**5.4E+04**	**1.1E+05**	**1.6E+05**
Remote Handled Waste				
Combustible	3.6E+01	4.9E+01	8.5E+01	
Heterogeneous	2.3E+03	5.5E+03	7.8E+03	
Inorganic Non-Metal	4.6E+01	2.1E+01	6.8E+01	
Lead/Cadmium Metal Waste	7.1E+00	6.7E+01	7.4E+01	
Solidified Inorganics	1.1E+03	2.3E+02	1.3E+03	
Solidified Organics	3.6E+00	0.0E+00	3.6E+00	
Uncategorized Metal	1.2E+02	1.7E+04	1.8E+04	
Total RH Volumes	**3.6E+03**	**2.3E+04**	**2.7E+04**	
Total TRU Waste Volumes	**6.2E+04**	**7.7E+04**	**1.4E+05**	**1.7E+05**

options for all DOE RH-TRU waste. This inventory has not been scaled down to the limit imposed by the C&C Agreement so that all available data are presented to DOE and SNL/NM to conduct modeling and other evaluations to determine the disposition of this waste.

3.3 ROLL-UP OF WIPP WASTE MATERIAL PARAMETERS BY FINAL WASTE FORM

The roll-ups of waste material parameters by Final Waste Forms, or by site, are developed from the volumes from the TWBID. The roll-ups by Final Waste Forms or by site require combining data from several TWBID waste streams. A weighted average value for the waste material parameters is calculated from the average densities provided by the TRU waste generator/storage sites modified by the TWBID volume fractions and summed as follows:

$$\text{Average Density of waste material parameter} = \sum \text{Average Density}_i \times \frac{(\text{Volume TWBIR Stream}_i)}{(\text{Total Volume of Final Waste Form})}$$

where i is an index representing individual waste streams of the same Final Waste Form

The minimum density is chosen as the smallest minimum density of a particular waste material parameter in the TWBID waste streams in a particular site-specific roll-up. The maximum density is chosen in a similar manner, except that the largest maximum density was chosen. Thus, the maximum and minimum values reported in Tables 3-2 and 3-3 are the **absolute extreme values** reported across the system, and in many cases they only apply to a very small volume of waste. If required, the user can use the data in the database to calculate a "weighted average maximum" value to obtain a maximum value that may be more representative of the total inventory.

In some cases, the TRU waste generator/storage sites did not have data for minimum and maximum densities, even though average densities were provided. In these cases, for roll-up purposes only, the assumptions identified in Section 1.5.1 were implemented. This ensures that the calculated and rolled-up maximum densities are equal to or greater than the average densities. However, the maximum density may not be a true maximum but rather the maximum average density (see Chapter 6 for further TWBID information).

The waste material parameters that are inputs into the PA models are presented in Table 3-2 for CH-TRU waste and Table 3-3 for RH-TRU waste. These tables represent the waste material parameters for the WIPP disposal inventory.

3.4 UTILIZATION OF WASTE MATERIAL PARAMETER DATA IN APPLICATIONS

The waste material parameter data presented in Tables 3-2 and 3-3 must be used with certain limitations. If the "average" weight/volume (density) composition of CH-TRU and RH-TRU wastes in terms of the waste material parameters is needed then the middle column of Tables 3-2 and 3-3 labelled "Average" should be used in the calculations. If the task requires a distribution of values then the "Maximum" and "Minimum" columns should be used in conjunction with the "Average" column with the following limitations:

Table 3-2

WIPP CH-TRU Waste Material Parameter Disposal Inventory

Waste Material Parameters (Kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	2.6E+03	1.7E+02	0.0E+00
Aluminum Base Metal/Alloys	8.0E+02	1.8E+01	0.0E+00
Other Metal/Alloys	1.6E+03	6.7E+01	0.0E+00
Other Inorganic Materials	1.4E+03	3.1E+01	0.0E+00
Vitrified	2.5E+03	5.5E+01	0.0E+00
Cellulosics	9.6E+02	5.4E+01	0.0E+00
Rubber	6.3E+02	1.0E+01	0.0E+00
Plastics	8.9E+02	3.4E+01	0.0E+00
Solidified Inorganic Material	2.2E+03	5.4E+01	0.0E+00
Solidified Organic Material	1.4E+03	5.6E+00	0.0E+00
Cement (Solidified)	1.2E+03	5.0E+01	0.0E+00
Soils	1.6E+03	4.4E+01	0.0E+00

Container Materials - Kg/m3

Steel	139
Plastic/ Liners	26

Table 3-3

WIPP RH-TRU Waste Material Parameter Disposal Inventory

Waste Material Parameters (Kg/m3	Maximum	Average	Minimum
Iron Base Metal/Alloys	1.7E+03	1.0E+02	0.0E+00
Aluminum Base Metal/Alloys	1.7E+02	7.1E+00	0.0E+00
Other Metal/Alloys	9.1E+02	2.5E+02	0.0E+00
Other Inorganic Materials	2.0E+03	6.4E+01	0.0E+00
Vitrified	2.5E+03	4.7E+00	0.0E+00
Cellulosics	5.7E+02	1.7E+01	0.0E+00
Rubber	4.4E+02	3.3E+00	0.0E+00
Plastics	6.2E+02	1.5E+01	0.0E+00
Solidified Inorganic Material	6.1E+02	2.2E+01	0.0E+00
Solidified Organic Material	8.1E+02	9.3E-01	0.0E+00
Cement (Solidified)	5.8E+02	1.9E+01	0.0E+00
Soils	2.4E+01	1.0E+00	0.0E+00

Container Materials - Kg/m3

Steel	446
Plastic/Liners	3.1
Lead	465
Steel Plug	2145

- The sum of all the waste material parameters in the "average" column represents the "average" weight of a cubic meter of CH-TRU or RH-TRU expected at WIPP. For instance, the "average" cubic meter of CH-TRU waste expected at WIPP is (see Table 3-2):

  592.6 kg/m^3 CH-TRU waste + 165 kg/m^3 of packaging = 757.6 kg/m^3

- The weight of packaging is not expected to vary, so if any "sampling" of distributions of densities is required, the sampling should only be on the waste part of the above equation.
- If sampling of the waste material parameters is needed, caution should be taken in not over- or under-estimating the waste material parameters during analyses. The minimum and maximum values are the absolute extremes and never should a site have an entire waste stream which resulted with values at either extreme. Within a waste stream there may be only one container (as small as 0.002 m^3) that is packaged at either extreme. Additionally, these extremes could result from a projected waste volume which contains more uncertainty than stored waste.

The same sampling methodology, if needed, should be used for the RH-TRU waste as reported in Table 3-3.

TO OBTAIN THE TOTAL WASTE MATERIAL PARAMETER WEIGHTS FOR THE DISPOSAL INVENTORY, USERS OF THE DATA SHOULD MULTIPLY THE AVERAGE DENSITIES OF THE WASTE MATERIAL PARAMETERS FOR CH-TRU (TABLE 3-2) AND RH-TRU (TABLE 3-3) BY THEIR RESPECTIVE DISPOSAL INVENTORY VOLUMES AS DEFINED IN SECTION 1.3.1.

For example:

The expected (average) CH-TRU inventory of cellulosics for WIPP is (Table 3-2):

54 kg/m^3 x 168,500 m^3 (design basis) = 9,099,500 kg cellulosics

For steel in CH-TRU waste:

170 kg/m^3(waste) + 139 kg/m^3(container) = 309 kg/m^3

309 kg/m^3 x 168,500 m^3 = 52,066,500 kg steel

3.5 WIPP WASTE PROFILES

Figures 3-1 through 3-18 present the WIPP profiles by Final Waste Form. These profiles provide the WIPP level volumes and summary waste material parameter densities of each Final Waste Form.

WIPP Contact Handled Waste Profiles

Final Waste Form: Combustible

Site	Retrievably Stored (m3)	Projected (m3)	Total (m3)
Mound Plant	7.07	0.00	7.07
Hanford (Richland) Site	455.73	1247.26	1702.99
Rocky Flats Environmental Technology Site	185.54	861.08	1046.62
Los Alamos National Laboratory	1821.45	2376.19	4197.64
Idaho National Engineering Laboratory	3304.94	0.00	3304.94
Argonne National Laboratory - West	0.00	101.64	101.64
Total Volume	**5774.73**	**4586.18**	**10360.91**

Waste Material Parameters (Kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	265.2	109.0	0.0
Aluminum Base Metal/Alloys	4.9	0.2	0.0
Other Metal/Alloys	474.5	10.4	0.0
Other Inorganic Materials	370.2	8.7	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	961.5	192.5	0.0
Rubber	629.0	30.0	0.0
Plastics	706.7	59.5	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	7.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	7.5	0.0	0.0

Figure 3 - 1
WIPP CH-TRU Waste Profile for Final Waste Form Combustible

WIPP Contact Handled Waste Profiles

Final Waste Form: Filter

Site	Retrievably Stored (m3)	Projected (m3)	Total (m3)
Rocky Flats Environmental Technology Site	72.09	477.51	549.60
Mound Plant	0.83	0.00	0.83
Lawrence Livermore National Laboratory	15.54	32.28	47.82
Idaho National Engineering Laboratory	131.05	0.00	131.05
Total Volume	**219.51**	**509.79**	**729.30**

Waste Material Parameters (Kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	150.0	5.3	0.0
Aluminum Base Metal/Alloys	191.6	12.5	0.0
Other Metal/Alloys	20.0	0.8	0.0
Other Inorganic Materials	293.3	15.0	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	429.5	56.3	0.0
Rubber	20.0	3.3	0.0
Plastics	100.0	4.6	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Figure 3 - 2
WIPP CH-TRU Waste Profile for Final Waste Form Filter

WIPP Contact Handled Waste Profiles

Final Waste Form: Graphite

Site	Retrievably Stored (m3)	Projected (m3)	Total (m3)
Rocky Flats Environmental Technology Site	13.73	47.57	61.30
Idaho National Engineering Laboratory	498.19	0.00	498.19
Total Volume	511.91	47.57	559.48

Waste Material Parameters (Kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	764.4	1.4	0.0
Aluminum Base Metal/Alloys	38.2	0.0	0.0
Other Metal/Alloys	46.6	0.0	0.0
Other Inorganic Materials	812.5	299.9	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	9.8	4.8	0.0
Rubber	0.0	0.0	0.0
Plastics	51.4	5.6	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Figure 3 - 3
WIPP CH-TRU Waste Profile for Final Waste Form Graphite

WIPP Contact Handled Waste Profiles

Final Waste Form: Heterogeneous

Site	Retrievably Stored (m3)	Projected (m3)	Total (m3)
University of Missouri Research Reactor	0.21	0.83	1.04
Los Alamos National Laboratory	16.02	29.12	45.14
Hanford (Richland) Site	11190.75	6271.29	17462.04
Lawrence Livermore National Laboratory	198.85	663.78	862.63
Energy Technology Engineering Center	1.68	0.00	1.68
Idaho National Engineering Laboratory	10608.50	0.00	10608.50
Nevada Test Site	613.26	8.98	622.24
Mound Plant	0.62	0.00	0.62
Bettis Atomic Power Laboratory	0.00	123.27	123.27
U.S. Army Material Command	2.50	0.00	2.50
Savannah River Site	2611.61	5475.85	8087.46
Sandia National Laboratory - Albuquerque	6.66	7.49	14.14
Argonne National Laboratory - West	6.54	345.35	351.89
Oak Ridge National Laboratory	1304.16	256.26	1560.42
Rocky Flats Environmental Technology Site	3.86	0.00	3.86
Pantex Plant	0.62	0.00	0.62
Total Volume	**26565.83**	**13182.22**	**39748.05**

Figure 3 - 4
WIPP CH-TRU Waste Profile for Final Waste Form Heterogeneous

WIPP Contact Handled Waste Profiles

Waste Material Parameters (Kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	1716.4	247.3	0.0
Aluminum Base Metal/Alloys	800.0	46.0	0.0
Other Metal/Alloys	800.0	5.7	0.0
Other Inorganic Materials	1442.3	26.2	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	961.5	86.1	0.0
Rubber	330.0	19.4	0.0
Plastics	887.0	71.5	0.0
Solidified Inorganic Material	300.0	3.8	0.0
Solidified Organic Material	331.6	0.4	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	628.4	2.9	0.0

Figure 3-4 (continued)
WIPP CH-TRU Waste Profile for Final Waste Form Heterogeneous

WIPP Contact Handled Waste Profiles

Final Waste Form: Inorganic Non-Metal

Site	Retrievably Stored (m3)	Projected (m3)	Total (m3)
Hanford (Richland) Site	34.74	69.06	103.79
Paducah Gaseous Diffusion Plant	0.00	1.89	1.89
Teledyne Brown Engineering	0.21	0.00	0.21
Idaho National Engineering Laboratory	3028.24	0.00	3028.24
Rocky Flats Environmental Technology Site	58.29	866.74	925.03
Total Volume	**3121.47**	**937.68**	**4059.16**

Waste Material Parameters (Kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	63.6	2.8	0.0
Aluminum Base Metal/Alloys	3.9	0.0	0.0
Other Metal/Alloys	76.6	0.2	0.0
Other Inorganic Materials	1250.0	99.6	0.0
Vitrified	2500.0	1414.6	0.0
Cellulosics	850.0	15.9	0.0
Rubber	47.6	0.4	0.0
Plastics	166.9	6.7	0.0
Solidified Inorganic Material	327.0	1.4	0.0
Solidified Organic Material	0.9	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	865.8	0.0	0.0

Figure 3 - 5
WIPP CH-TRU Waste Profile for Final Waste Form Inorganic Non-Metal

WIPP Contact Handled Waste Profiles

Final Waste Form: Lead/Cadmium Metal Waste

Site	Retrievably Stored (m3)	Projected (m3)	Total (m3)
Argonne National Laboratory - East	1.07	1.29	2.36
Rocky Flats Environmental Technology Site	3.95	298.27	302.22
Los Alamos National Laboratory	1.89	0.00	1.89
Hanford (Richland) Site	14.17	34.53	48.69
Idaho National Engineering Laboratory	14.37	0.00	14.37
Total Volume	**35.45**	**334.09**	**369.53**

Waste Material Parameters (Kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	488.7	133.8	0.0
Aluminum Base Metal/Alloys	61.6	16.6	0.0
Other Metal/Alloys	1438.1	52.2	0.0
Other Inorganic Materials	40.9	11.7	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	87.9	4.0	0.0
Rubber	125.5	15.5	0.0
Plastics	91.7	22.3	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.9	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Figure 3 - 6
WIPP CH-TRU Waste Profile for Final Waste Form Lead/Cadmium Metal Waste

WIPP Contact Handled Waste Profiles

Final Waste Form: Salt Waste

Site	Retrievably Stored (m3)	Projected (m3)	Total (m3)
Rocky Flats Environmental Technology Site	0.00	325.92	325.92
Idaho National Engineering Laboratory	20.52	0.00	20.52
Lawrence Livermore National Laboratory	0.62	3.02	3.64
Total Volume	**21.14**	**328.93**	**350.07**

Waste Material Parameters (Kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	540.0	181.4	0.0
Aluminum Base Metal/Alloys	80.0	0.1	0.0
Other Metal/Alloys	212.0	2.3	0.0
Other Inorganic Materials	625.0	170.1	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	211.7	164.2	0.0
Rubber	20.0	0.0	0.0
Plastics	100.0	0.6	0.0
Solidified Inorganic Material	10.0	0.0	0.0
Solidified Organic Material	10.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Figure 3 - 7
WIPP CH-TRU Waste Profile for Final Waste Form Salt Waste

WIPP Contact Handled Waste Profiles

Final Waste Form: Soils

Site	Retrievably Stored (m3)	Projected (m3)	Total (m3)
Mound Plant	177.18	0.00	177.18
Los Alamos National Laboratory	110.57	29.12	139.69
Hanford (Richland) Site	119.48	5961.70	6081.17
Total Volume	407.23	5990.82	6398.04

Waste Material Parameters (Kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	29.1	1.7	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	0.0	0.0	0.0
Other Inorganic Materials	17.4	1.0	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	68.7	3.7	0.0
Rubber	56.4	1.7	0.0
Plastics	131.0	3.2	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	138.2	0.1	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	1600.0	756.9	0.0

Figure 3 - 8
WIPP CH-TRU Waste Profile for Final Waste Form Soils

WIPP Contact Handled Waste Profiles

Final Waste Form: Solidified Inorganics

Site	Retrievably Stored (m3)	Projected (m3)	Total (m3)
Hanford (Richland) Site	12.94	7.07	20.02
Argonne National Laboratory - East	5.20	0.00	5.20
Nevada Test Site	5.67	0.00	5.67
Savannah River Site	200.19	1169.61	1369.80
Rocky Flats Environmental Technology Site	165.36	1257.64	1423.01
Idaho National Engineering Laboratory	4344.44	0.00	4344.44
Mound Plant	6.03	0.00	6.03
Los Alamos National Laboratory	4888.20	2033.82	6922.02
Ames Laboratory - Iowa State Univ.	0.00	0.42	0.42
Lawrence Livermore National Laboratory	14.35	5.82	20.18
Total Volume	**9642.39**	**4474.39**	**14116.78**

Waste Material Parameters (Kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	2375.0	181.4	0.0
Aluminum Base Metal/Alloys	50.0	0.0	0.0
Other Metal/Alloys	544.0	0.8	0.0
Other Inorganic Materials	985.1	80.7	0.0
Vitrified	2473.0	32.4	0.0
Cellulosics	100.0	0.4	0.0
Rubber	32.9	0.0	0.0
Plastics	100.0	2.2	0.0
Solidified Inorganic Material	2180.0	415.6	0.0
Solidified Organic Material	365.0	0.1	0.0
Cement (Solidified)	1166.0	388.1	0.0
Soils	671.5	0.6	0.0

Figure 3 - 9
WIPP CH-TRU Waste Profile for Final Waste Form Solidified Inorganics

WIPP Contact Handled Waste Profiles

Final Waste Form: Solidified Organics

Site	Retrievably Stored (m3)	Projected (m3)	Total (m3)
Rocky Flats Environmental Technology Site	109.82	31.11	140.93
Hanford (Richland) Site	7.36	9.36	16.72
Los Alamos National Laboratory	1.46	29.12	30.58
Idaho National Engineering Laboratory	789.67	0.00	789.67
Argonne National Laboratory - East	0.21	0.00	0.21
Lawrence Livermore National Laboratory	1.04	5.82	6.86
Total Volume	**909.56**	**75.41**	**984.97**

Waste Material Parameters (Kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	100.0	0.3	0.0
Aluminum Base Metal/Alloys	50.0	0.0	0.0
Other Metal/Alloys	20.0	0.0	0.0
Other Inorganic Materials	673.1	115.4	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	100.0	0.3	0.0
Rubber	20.0	0.0	0.0
Plastics	126.5	6.7	0.0
Solidified Inorganic Material	1014.0	20.6	0.0
Solidified Organic Material	1375.6	612.2	0.0
Cement (Solidified)	1166.0	129.8	0.0
Soils	137.2	0.2	0.0

Figure 3 - 10
WIPP CH-TRU Waste Profile for Final Waste Form Solidified Organics

WIPP Contact Handled Waste Profiles

Final Waste Form: Uncategorized Metal

Site	Retrievably Stored (m3)	Projected (m3)	Total (m3)
Savannah River Site	70.35	120.54	190.89
Argonne National Laboratory - East	4.99	128.54	133.54
Mound Plant	82.48	0.00	82.48
Argonne National Laboratory - West	0.00	293.76	293.76
Idaho National Engineering Laboratory	5866.82	0.00	5866.82
Hanford (Richland) Site	444.86	19635.15	20080.01
Los Alamos National Laboratory	4214.43	2853.76	7068.19
Rocky Flats Environmental Technology Site	93.31	236.12	329.43
Total Volume	**10777.24**	**23267.87**	**34045.12**

Waste Material Parameters (Kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	2595.2	153.5	0.0
Aluminum Base Metal/Alloys	73.7	3.5	0.0
Other Metal/Alloys	1586.5	210.3	0.0
Other Inorganic Materials	812.5	14.1	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	184.8	12.2	0.0
Rubber	113.7	0.7	0.0
Plastics	149.0	7.9	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.1	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	3.5	0.0	0.0

Figure 3 - 11
WIPP CH-TRU Waste Profile for Final Waste Form Uncategorized Metal

WIPP Remote Handled Waste Profiles

Final Waste Form: Combustible

Site	Retrievably Stored (m3)	Projected (m3)	Total (m3)
Idaho National Engineering Laboratory	21.36	0.00	21.36
Los Alamos National Laboratory	15.13	48.95	64.08
Total Volume	**36.49**	**48.95**	**85.44**

Waste Material Parameters (Kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	265.2	193.3	0.0
Aluminum Base Metal/Alloys	0.4	0.3	0.0
Other Metal/Alloys	330.9	16.6	0.0
Other Inorganic Materials	50.3	8.6	3.3
Vitrified	0.0	0.0	0.0
Cellulosics	98.3	49.0	0.0
Rubber	438.7	64.4	0.0
Plastics	71.1	7.0	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Figure 3 - 12
WIPP RH-TRU Waste Profile for Final Waste Form Combustible

WIPP Remote Handled Waste Profiles

Final Waste Form: Heterogeneous

Site	Retrievably Stored (m3)	Projected (m3)	Total (m3)
Oak Ridge National Laboratory	1432.01	240.30	1672.31
Los Alamos National Laboratory	11.57	0.00	11.57
Battelle Columbus Laboratories	580.50	0.00	580.50
Bettis Atomic Power Laboratory	0.00	6.67	6.67
Idaho National Engineering Laboratory	49.84	0.00	49.84
Hanford (Richland) Site	199.36	4066.41	4265.77
Argonne National Laboratory - West	0.00	1208.62	1208.62
Total Volume	**2273.28**	**5522.00**	**7795.29**

Waste Material Parameters (Kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	1716.4	175.5	0.0
Aluminum Base Metal/Alloys	167.8	23.7	0.0
Other Metal/Alloys	500.0	14.1	0.0
Other Inorganic Materials	2000.0	185.7	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	572.8	57.4	0.0
Rubber	231.4	10.4	0.0
Plastics	621.9	49.1	0.0
Solidified Inorganic Material	83.0	9.0	0.0
Solidified Organic Material	31.0	2.9	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	24.4	3.5	0.0

Figure 3 - 13
WIPP RH-TRU Waste Profile for Final Waste Form Heterogeneous

WIPP Remote Handled Waste Profiles

Final Waste Form: Inorganic Non-Metal

Site	Retrievably Stored (m3)	Projected (m3)	Total (m3)
Argonne National Laboratory - West	0.00	21.36	21.36
Idaho National Engineering Laboratory	46.28	0.00	46.28
Total Volume	**46.28**	**21.36**	**67.64**

Waste Material Parameters (Kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	4.3	0.9	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	9.1	0.1	0.0
Other Inorganic Materials	592.8	55.7	0.0
Vitrified	2500.0	1852.5	0.0
Cellulosics	40.8	6.1	0.0
Rubber	6.1	0.2	0.0
Plastics	48.8	3.8	0.0
Solidified Inorganic Material	2.9	0.4	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.4	0.0	0.0

Figure 3 - 14
WIPP RH-TRU Waste Profile for Final Waste Form Inorganic Non-Metal

WIPP Remote Handled Waste Profiles

Final Waste Form: Lead/Cadmium Metal Waste

Site	Retrievably Stored (m3)	Projected (m3)	Total (m3)
Argonne National Laboratory - West	0.00	6.23	6.23
Energy Technology Engineering Center	0.89	0.00	0.89
Hanford (Richland) Site	2.67	60.52	63.19
Idaho National Engineering Laboratory	3.56	0.00	3.56
Total Volume	7.12	66.75	73.87

Waste Material Parameters (Kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	345.0	24.2	4.7
Aluminum Base Metal/Alloys	43.1	2.1	0.0
Other Metal/Alloys	585.3	512.7	104.7
Other Inorganic Materials	29.2	1.4	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	7.1	0.5	0.0
Rubber	17.4	1.9	0.0
Plastics	49.6	2.8	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	202.7	5.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Figure 3 - 15
WIPP RH-TRU Waste Profile for Final Waste Form Lead/Cadmium Metal Waste

WIPP Remote Handled Waste Profiles

Final Waste Form: Solidified Inorganics

Site	Retrievably Stored (m3)	Projected (m3)	Total (m3)
Oak Ridge National Laboratory	1036.85	206.48	1243.33
Idaho National Engineering Laboratory	65.27	0.00	65.27
Argonne National Laboratory - West	1.78	28.48	30.26
Total Volume	**1103.90**	**234.96**	**1338.86**

Waste Material Parameters (Kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	199.9	3.8	0.0
Aluminum Base Metal/Alloys	0.1	0.0	0.0
Other Metal/Alloys	2.3	0.1	0.0
Other Inorganic Materials	109.6	2.7	0.0
Vitrified	40.5	0.7	0.0
Cellulosics	0.8	0.0	0.0
Rubber	0.0	0.0	0.0
Plastics	6.8	0.3	0.0
Solidified Inorganic Material	609.6	390.5	33.9
Solidified Organic Material	0.5	0.0	0.0
Cement (Solidified)	584.4	385.6	22.6
Soils	0.6	0.0	0.0

Figure 3 - 16
WIPP RH-TRU Waste Profile for Final Waste Form Solidified Inorganics

WIPP Remote Handled Waste Profiles

Final Waste Form: Solidified Organics

Site	Retrievably Stored (m3)	Projected (m3)	Total (m3)
Idaho National Engineering Laboratory	3.56	0.00	3.56
Total Volume	**3.56**	**0.00**	**3.56**

Waste Material Parameters (Kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	0.9	0.3	0.1
Aluminum Base Metal/Alloys	0.4	0.0	0.0
Other Metal/Alloys	0.1	0.0	0.0
Other Inorganic Materials	220.4	115.4	37.8
Vitrified	0.0	0.0	0.0
Cellulosics	1.0	0.3	0.2
Rubber	0.2	0.0	0.0
Plastics	14.1	6.7	1.1
Solidified Inorganic Material	36.0	20.6	17.0
Solidified Organic Material	808.1	612.2	391.2
Cement (Solidified)	195.7	129.8	75.9
Soils	0.2	0.2	0.2

Figure 3 - 17
WIPP RH-TRU Waste Profile for Final Waste Form Solidified Organics

WIPP Remote Handled Waste Profiles

Final Waste Form: Uncategorized Metal

Site	Retrievably Stored (m3)	Projected (m3)	Total (m3)
Argonne National Laboratory - West	17.51	0.00	17.51
Idaho National Engineering Laboratory	30.85	0.00	30.85
Los Alamos National Laboratory	67.64	49.84	117.48
Hanford (Richland) Site	0.00	17400.39	17400.39
Total Volume	**116.00**	**17450.23**	**17566.23**

Waste Material Parameters (Kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	1146.1	75.3	0.0
Aluminum Base Metal/Alloys	33.5	0.4	0.0
Other Metal/Alloys	913.5	375.5	0.0
Other Inorganic Materials	52.0	15.4	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	129.6	0.8	0.0
Rubber	11.5	0.0	0.0
Plastics	104.5	0.5	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Figure 3 - 18
WIPP RH-TRU Waste Profile for Final Waste Form Uncategorized Metal

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3.6 WIPP DISPOSAL RADIONUCLIDE INVENTORY

The waste–stream level radionuclide data reported in Appendices O and P (and/or on the accompanying TWBID diskettes) are insufficient to derive a WIPP radionuclide inventory because not all sites provided radionuclide data for each individual waste stream. Therefore, the site–level radionuclide inventories collected in the joint IDB and Revision 2 TWBIR data call were used. Table 3-4 provides the radionuclide inventory reported in curies per cubic meter and total curies. The generator/storage sites report the total curies for each isotope for stored waste only. All numbers (except the RFETS plutonium residues as explained in Section 1.5.3) have been decayed to December 1995, using the Oak Ridge Isotope Generation and Depletion Code (ORIGEN 2) (Croff, 1980 and Croff, 1983). The TWBIR team calculated the WIPP radionuclide inventory as follows:

CH-TRU

- All sites (except RFETS)

$$\frac{\text{Total Stored Decayed Curies (IDB)}}{\text{Total Stored Volume (TWBIR)}} = \text{Stored Ci/m}^3$$

- For RFETS

$$\frac{\text{Total Stored Decayed Curies (IDB)}}{\underset{\text{(TWBIR)}}{\text{Total Stored Volume}} - \underset{\text{(TWBIR, Appendix J)}}{\text{RFETS Actinide Separation Residue Volume}}} = \text{Stored Ci/m}^3$$

Because RFETS did not report plutonium residue curies in the IDB submittals, the RFETS plutonium residue volumes had to be subtracted from the TWBIR stored volumes to make the TWBIR consistent with the IDB.

To calculate the radionuclide inventory for all sites (except RFETS) the following formula was used:

$$\underset{\text{(TWBIR)}}{\text{Stored Decayed Curies (IDB)} + [\text{(Scaled Projected Volumes) (Stored Ci/m}^3)]} = \text{Total Decayed CH-TRU WIPP Curies for all sites except RFETS}$$

For the RFETS, the following formula was used:

$$\text{Stored Decayed Curies (IDB)} + \text{RFETS (ship as waste) Undecayed Curies (TWBIR, Appendix J)} + \left[\left(\text{Scaled Projected Volumes (TWBIR)}\right)\left(\text{Stored Ci/m}^3\right)\right] = \text{Total Decayed CH-TRU WIPP Curies for RFETS}$$

To calculate the WIPP CH-TRU radionuclide inventory in Ci/m^3):

$$\frac{\text{Total Decayed CH-TRU WIPP Curies for all sites}}{\text{CH-TRU Disposal Inventory}} = \text{CH-TRU radionuclide inventory (Ci/m}^3\text{)}$$

RH-TRU

$$\frac{\text{Total Stored Decayed Curies (IDB)}}{\text{Total Stored Volume (TWBIR)}} = \text{Stored Ci/m}^3$$

$$\text{Stored Decayed Curies (IDB)} + [(\text{Total Projected Volumes (TWBIR)})(\text{Stored Ci/m}^3)] = \text{Total Decayed RH-TRU WIPP Curies}$$

To calculate the WIPP RH-TRU radionuclide inventory in Ci/m^3:

$$\frac{\text{Total Decayed RH-TRU WIPP Curies}}{\text{Total RH-TRU (stored \& projected) Inventory}} = \text{RH-TRU radionuclide inventory (Ci/m}^3\text{)}$$

Reporting the radionuclide inventory and curies per cubic meter (see Table 3-4) will allow the users of the data the opportunity to scale the radionuclide inventory to various volumes for sensitivity studies. Reporting in terms of curies per cubic meter also eliminates the requirement to scale down the RH-TRU inventory to the WIPP disposal RH-TRU inventory. Assuming that the *radionuclide distribution for the WIPP inventory will be the same as that reported for the stored* inventory, the total CH-TRU and RH-TRU radionuclide inventory is estimated in Table 3-4 by multiplying the respective disposal inventories as defined in Section 1.3.1 (168,500 cubic meters for CH-TRU and 7,080 cubic meters for RH-TRU).

Appendix D presents the radionuclide inventory in decayed curies for each TRU waste site for the stored waste inventories provided by the TRU waste generator/storage sites. Again, these numbers were decayed to December, 1995 using ORIGEN 2. The RFETS plutonium residue curies, which are included in the numbers in Table 3-4, are undecayed values (see Appendix J)

and were added to their decayed site radionuclide inventory submittal to calculate the total RFETS radionuclide inventory. The results are reported as the RFETS radionuclide inventory in Appendix D.

Since Oak Ridge National Laboratory (ORNL) reported a very conservative inventory for U-235 in RH-TRU waste, the anticipated transportation requirements of the RH-TRU canister have been imposed on the RH-TRU inventory in order to estimate the curies per cubic meter of U-235 in the WIPP radionuclide inventory for RH-TRU waste.

The basis for the new estimate for U-235 is the anticipated initial transportation limit of a maximum of 325 grams of Pu-239 fissile gram equivalent (FGE) for an RH canister (DOE, 1991). Based on the curies per cubic meter calculated for Pu-239 (1.45 Ci/m^3) and U-233 (4.50E-03 Ci/m^3) in Table 3-4 for RH-TRU waste, it was estimated that these two radionuclides would contribute a total of approximately 21.8 grams of Pu-239 FGE per RH canister. If the transportation limit of 325 Pu-239 FGE is imposed, the maximum amount of U-235 that can be transported would equal not more than 303.8 Pu-239 FGE. Assuming a 1:1 equivalence for U-235 in terms of Pu-239 FGE (Nuclear Packaging, 1991) and 2.19 curies per gram of U-235, the curies per cubic meter of U-235 is estimated as,

$$= \frac{303.8 \text{ g of U-235}}{\text{RH Canister}} \times \frac{1 \text{ RH Canister}}{0.89 \text{ m}^3} \times \frac{2.19\text{E-06 Curies of U-235}}{1 \text{ g of U-235}}$$

$$= 7.47\text{E-04 Ci/m}^3$$

To avoid discrepancies in reporting the radionuclide inventory between the IDB and the Baseline Inventory Report, the TRU waste section of Revision 11 of the IDB is based on Revision 1 of the WTWBIR. Appendix G of this report presents the site-level radionuclide inventory as reported in Revision 11 of the IDB (DOE, 1995d).

Table 3-4. Disposal Radionuclide Inventory[1]

Nuclide	CH-TRU Waste (Ci/m^3)	RH-TRU Waste (Ci/m^3)	CH-TRU Waste (Total Curies[2])	RH-TRU Waste (Total Curies[2])
Ac225	1.71E-05	4.89E-06	2.88E+00	3.46E-02
Ac227	3.61E-06	2.05E-07	6.08E-01	1.45E-03
Ac228	4.43E-06	1.10E-05	7.46E-01	7.76E-02
Ag109M	9.32E-05	NR	1.57E+01	NR
Ag110	4.20E-14	2.46E-13	7.07E-09	1.74E-09
Ag110M	7.48E-12	1.85E-11	1.26E-06	1.31E-07
Am241	2.60E+00	8.42E-01	4.39E+05	5.96E+03
Am243	1.93E-04	3.23E-08	3.25E+01	2.28E-04
Am245	7.89E-15	4.06E-20	1.33E-09	2.87E-16
At217	1.71E-05	4.89E-06	2.88E+00	3.46E-02
Ba137m	4.53E-02	2.89E+01	7.63E+03	2.04E+05
Bi210	1.52E-05	1.00E-09	2.55E+00	7.08E-06
Bi211	3.61E-06	2.05E-07	6.09E-01	1.45E-03
Bi212	1.61E-04	8.53E-05	2.71E+01	6.04E-01
Bi213	1.71E-05	4.89E-06	2.88E+00	3.46E-02
Bi214	6.91E-05	4.97E-09	1.16E+01	3.52E-05
Bk249	5.44E-10	2.80E-15	9.16E-05	1.98E-11
Bk250	2.59E-16	NR	4.37E-11	NR
C14	6.43E-05	2.89E-04	1.08E+01	2.05E+00
Cd109	9.31E-05	NR	1.57E+01	NR
Cd113m	1.09E-11	7.71E-11	1.84E-06	5.46E-07

NR = Not reported by sites.
[1]Decayed to December 1995. RFETS plutonium residue curies are included, but not decayed.
[2]Total curies estimated by assuming a volume of 168,500 cubic meters for CH-TRU waste and 7,080 cubic meters for RH-TRU waste.

Table 3-4. Disposal Radionuclide Inventory (continued)

Nuclide	CH-TRU Waste (Ci/m^3)	RH-TRU Waste (Ci/m^3)	CH-TRU Waste (Total Curies[2])	RH-TRU Waste (Total Curies[2])
Ce144	3.71E-07	7.25E-04	6.26E-02	5.14E+00
Cf249	3.81E-07	6.31E-07	6.42E-02	4.47E-03
Cf250	1.96E-06	NR	3.30E-01	NR
Cf251	2.24E-08	NR	3.78E-03	NR
Cf252	1.41E-03	1.82E-04	2.37E+02	1.29E+00
Cm242	1.92E-08	NR	3.23E-03	NR
Cm243	1.63E-05	6.98E-03	2.75E+00	4.95E+01
Cm244	4.72E-02	4.45E-02	7.96E+03	3.15E+02
Cm245	6.64E-04	2.07E-10	1.12E+02	1.46E-06
Cm246	6.06E-07	NR	1.02E-01	NR
Cm247	1.91E-14	NR	3.21E-09	NR
Cm248	5.29E-07	2.89E-08	8.91E-02	2.05E-04
Co58	1.81E-18	1.75E-15	3.05E-13	1.24E-11
Co60	3.83E-04	1.47E+00	6.46E+01	1.04E+04
Cr51	NR	4.29E-10	NR	3.04E-06
Cs134	7.97E-08	2.60E-03	1.34E-02	1.84E+01
Cs135	2.98E-09	1.66E-08	5.02E-04	1.17E-04
Cs137	4.78E-02	3.05E+01	8.06E+03	2.16E+05
Es254	2.51E-16	NR	4.24E-11	NR
Eu150	2.08E-10	NR	3.51E-05	NR
Eu152	7.46E-06	1.73E-01	1.26E+00	1.22E+03
Eu154	6.81E-06	8.36E-02	1.15E+00	5.92E+02

NR = Not reported by sites.
[1]Decayed to December 1995. RFETS plutonium residue curies are included, but not decayed.
[2]Total curies estimated by assuming a volume of 168,500 cubic meters for CH-TRU waste and 7,080 cubic meters for RH-TRU waste.

Table 3-4. Disposal Radionuclide Inventory (continued)

Nuclide	CH-TRU Waste (Ci/m^3)	RH-TRU Waste (Ci/m^3)	CH-TRU Waste (Total Curies[2])	RH-TRU Waste (Total Curies[2])
Eu155	1.86E-03	1.67E-02	3.14E+02	1.18E+02
Fe55	1.13E-10	2.38E-05	1.91E-05	1.68E-01
Fe59	1.57E-12	NR	2.64E-07	NR
Fr221	1.71E-05	4.89E-06	2.88E+00	3.46E-02
Fr223	4.98E-08	2.83E-09	8.39E-03	2.01E-05
H3	5.15E-06	9.33E-06	8.68E-01	6.60E-02
I129	4.11E-12	NR	6.93E-07	NR
Kr85	1.20E-06	2.37E-04	2.02E-01	1.68E+00
Mn54	5.06E-09	3.31E-06	8.52E-04	2.34E-02
Nb95	1.51E-14	1.48E-07	2.54E-09	1.05E-03
Nb95m	5.04E-17	1.16E-10	8.50E-12	8.19E-07
Ni59	4.39E-08	NR	7.40E-03	NR
Ni63	5.35E-06	1.40E-04	9.02E-01	9.89E-01
Np237	3.26E-04	6.85E-06	5.49E+01	4.85E-02
Np239	2.20E-04	3.23E-08	3.71E+01	2.28E-04
Np240M	8.91E-12	3.12E-15	1.50E-06	2.21E-11
Pa231	2.67E-06	1.24E-06	4.51E-01	8.79E-03
Pa233	3.26E-04	6.85E-06	5.49E+01	4.85E-02
Pa234	3.05E-07	2.64E-07	5.14E-02	1.87E-03
Pa234m	2.35E-04	2.03E-04	3.96E+01	1.44E+00
Pb209	1.71E-05	4.89E-06	2.88E+00	3.46E-02

NR = Not reported by sites.
[1]Decayed to December 1995. RFETS plutonium residue curies are included, but not decayed.
[2]Total curies estimated by assuming a volume of 168,500 cubic meters for CH-TRU waste and 7,080 cubic meters for RH-TRU waste.

Table 3-4. Disposal Radionuclide Inventory (continued)

Nuclide	CH-TRU Waste (Ci/m^3)	RH-TRU Waste (Ci/m^3)	CH-TRU Waste (Total Curies[2])	RH-TRU Waste (Total Curies[2])
Pb210	1.52E-05	1.00E-09	2.55E+00	7.08E-06
Pb211	3.61E-06	2.05E-07	6.09E-01	1.45E-03
Pb212	1.61E-04	8.53E-05	2.71E+01	6.04E-01
Pb214	6.91E-05	4.97E-09	1.16E+01	3.52E-05
Pd107	4.40E-10	2.45E-09	7.41E-05	1.73E-05
Pm147	4.68E-05	1.52E-03	7.88E+00	1.07E+01
Po210	1.52E-05	1.00E-09	2.55E+00	7.08E-06
Po211	1.01E-08	5.75E-10	1.71E-03	4.07E-06
Po212	1.03E-04	5.47E-05	1.73E+01	3.87E-01
Po213	1.67E-05	4.78E-06	2.82E+00	3.39E-02
Po214	6.91E-05	4.97E-09	1.16E+01	3.52E-05
Po215	3.61E-06	2.05E-07	6.09E-01	1.45E-03
Po216	1.61E-04	8.63E-05	2.71E+01	6.11E-01
Po218	6.91E-05	4.97E-09	1.16E+01	3.52E-05
Pr144	3.67E-07	8.68E-04	6.18E-02	6.14E+00
Pu236	6.16E-08	NR	1.04E-02	NR
Pu238	2.26E+01	2.05E-01	3.80E+06	1.45E+03
Pu239	4.64E+00	1.45E+00	7.82E+05	1.03E+04
Pu240	1.23E+00	7.16E-01	2.08E+05	5.07E+03
Pu241	1.55E+01	2.00E+01	2.61E+06	1.42E+05
Pu242	6.93E-03	2.11E-05	1.17E+03	1.50E-01

NR = Not reported by sites.
[1]Decayed to December 1995. RFETS plutonium residue curies are included, but not decayed.
[2]Total curies estimated by assuming a volume of 168,500 cubic meters for CH-TRU waste and 7,080 cubic meters for RH-TRU waste.

Table 3-4. Disposal Radionuclide Inventory (continued)

Nuclide	CH-TRU Waste (Ci/m^3)	RH-TRU Waste (Ci/m^3)	CH-TRU Waste (Total Curies[2])	RH-TRU Waste (Total Curies[2])
Pu243	1.91E-14	NR	3.21E-09	NR
Pu244	8.92E-12	3.12E-15	1.50E-06	2.21E-11
Ra223	1.39E-05	2.05E-07	2.34E+00	1.45E-03
Ra224	1.61E-04	8.53E-05	2.71E+01	6.04E-01
Ra225	1.71E-05	4.89E-06	2.88E+00	3.46E-02
Ra226	6.95E-05	4.97E-09	1.17E+01	3.52E-05
Ra228	4.43E-06	1.10E-05	7.46E-01	7.76E-02
Rh106	1.72E-07	1.54E-03	2.90E-02	1.09E+01
Rn219	3.61E-06	2.05E-07	6.09E-01	1.45E-03
Rn220	1.61E-04	8.53E-05	2.71E+01	6.04E-01
Rn222	6.91E-05	4.97E-09	1.16E+01	3.52E-05
Ru106	1.72E-07	1.54E-03	2.90E-02	1.09E+01
Sb125	7.17E-07	2.67E-04	1.21E-01	1.89E+00
Sb126	8.02E-10	4.46E-09	1.35E-04	3.16E-05
Sb126m	5.73E-09	3.18E-08	9.65E-04	2.25E-04
Se79	2.58E-09	1.44E-08	4.35E-04	1.02E-04
Sm151	8.76E-06	5.06E-05	1.48E+00	3.58E-01
Sn119m	2.46E-11	1.35E-10	4.14E-06	9.59E-07
Sn121M	1.58E-07	9.46E-07	2.66E-02	6.70E-03
Sn126	5.80E-09	3.18E-08	9.77E-04	2.25E-04
Sr89	NR	2.65E-08	NR	1.88E-04

NR = Not reported by sites.
[1]Decayed to December 1995. RFETS plutonium residue curies are included, but not decayed.
[2]Total curies estimated by assuming a volume of 168,500 cubic meters for CH-TRU waste and 7,080 cubic meters for RH-TRU waste.

Table 3-4. Disposal Radionuclide Inventory (continued)

Nuclide	CH-TRU Waste (Ci/m^3)	RH-TRU Waste (Ci/m^3)	CH-TRU Waste (Total Curies[2])	RH-TRU Waste (Total Curies[2])
Sr90	4.07E-02	2.95E+01	6.85E+03	2.09E+05
Ta182	NR	5.95E-12	NR	4.21E-08
Tc99	1.49E-04	8.26E-07	2.52E+01	5.85E-03
Te125m	1.75E-07	6.57E-05	2.95E-02	4.65E-01
Te127	7.72E-13	2.42E-13	1.30E-07	1.72E-09
Te127m	7.88E-13	2.47E-13	1.33E-07	1.75E-09
Th227	3.56E-06	2.03E-07	6.01E-01	1.43E-03
Th228	1.61E-04	8.53E-05	2.71E+01	6.04E-01
Th229	1.71E-05	4.89E-06	2.88E+00	3.46E-02
Th230	5.36E-07	1.04E-06	9.03E-02	7.34E-03
Th231	7.60E-05	9.38E-03	1.28E+01	6.64E+01
Th232	5.41E-06	1.31E-05	9.11E-01	9.24E-02
Th234	2.35E-04	2.03E-04	3.96E+01	1.44E+00
Tl207	3.60E-06	2.05E-07	6.07E-01	1.45E-03
Tl208	5.77E-05	3.07E-05	9.73E+00	2.17E-01
Tl209	3.69E-07	1.06E-07	6.22E-02	7.48E-04
U232	1.56E-04	8.31E-05	2.63E+01	5.88E-01
U233	1.18E-02	4.50E-03	2.00E+03	3.18E+01
U234	3.28E-03	5.55E-03	5.53E+02	3.93E+01
U235	7.60E-05	7.34E-04	1.28E+01	5.20E+00
U236	1.89E-06	3.70E-07	3.19E-01	2.62E-03

NR = Not reported by sites.
[1]Decayed to December 1995. RFETS plutonium residue curies are included, but not decayed.
[2]Total curies estimated by assuming a volume of 168,500 cubic meters for CH-TRU waste and 7,080 cubic meters for RH-TRU waste.

Table 3-4. Disposal Radionuclide Inventory (continued)

Nuclide	CH-TRU Waste (Ci/m^3)	RH-TRU Waste (Ci/m^3)	CH-TRU Waste (Total Curies[2])	RH-TRU Waste (Total Curies[2])
U237	2.31E-04	4.91E-04	3.89E+01	3.48E+00
U238	2.35E-04	2.03E-04	3.96E+01	1.44E+00
U240	8.91E-12	3.12E-15	1.50E-06	2.21E-11
Y90	4.07E-02	2.95E+01	6.85E+03	2.09E+05
Zn65	4.13E-14	NR	6.96E-09	NR
Zr93	NR	2.89E-07	NR	2.04E-03
Zr95	NR	1.56E-08	NR	1.10E-04
TOTALS	**4.68E+01**	**1.43E+02**	**7.88E+06**	**1.02E+06**

NR = Not reported by sites.
[1]Decayed to December 1995. RFETS plutonium residue curies are included, but not decayed.
[2]Total curies estimated by assuming a volume of 168,500 cubic meters for CH-TRU waste and 7,080 cubic meters for RH-TRU waste.

CHAPTER 4

4. STORED AND PROJECTED WIPP CH-TRU AND RH-TRU INVENTORIES BY SITE

As described in Chapter 2, each WIPP waste stream from each waste generator/storage site is characterized in a waste stream profile (Appendix P or the accompanying TWBID). These waste stream profiles are rolled-up by Final Waste Forms for each generator/storage site. Summary tables of contact-handled and remote-handled WIPP (only) waste volumes by site are provided in Tables 4-1 and 4-2. Summary profiles of WIPP waste volumes by Final Waste Form for each site are provided in Tables 4-3 through 4-23. Additional information is presented in Appendix K.

Table 4 - 1

WIPP CH-TRU Waste Anticipated Inventory By Site

(Cubic Meters)

Storage/Generator Site	Stored Volumes	Projected Volumes	Anticipated Volumes
Ames Laboratory - Iowa State Univ.	0.0E+00	4.2E-01	4.2E-01
Argonne National Laboratory - East	1.1E+01	1.3E+02	1.4E+02
Argonne National Laboratory - West	6.5E+00	7.4E+02	7.5E+02
Bettis Atomic Power Laboratory	0.0E+00	1.2E+02	1.2E+02
Energy Technology Engineering Center	1.7E+00	0.0E+00	1.7E+00
Hanford (Richland) Site	1.2E+04	3.3E+04	4.6E+04
Idaho National Engineering Laboratory	2.9E+04	0.0E+00	2.9E+04
Lawrence Livermore National Laboratory	2.3E+02	7.1E+02	9.4E+02
Los Alamos National Laboratory	1.1E+04	7.4E+03	1.8E+04
Mound Plant	2.7E+02	0.0E+00	2.7E+02
Nevada Test Site	6.2E+02	9.0E+00	6.3E+02
Oak Ridge National Laboratory	1.3E+03	2.6E+02	1.6E+03
Paducah Gaseous Diffusion Plant	0.0E+00	1.9E+00	1.9E+00
Pantex Plant	6.2E-01	0.0E+00	6.2E-01
Rocky Flats Environmental Technology Site	7.1E+02	4.4E+03	5.1E+03
Sandia National Laboratory - Albuquerque	6.7E+00	7.5E+00	1.4E+01
Savannah River Site	2.9E+03	6.8E+03	9.6E+03
Teledyne Brown Engineering	2.1E-01	0.0E+00	2.1E-01
U.S. Army Material Command	2.5E+00	0.0E+00	2.5E+00
University of Missouri Research Reactor	2.1E-01	8.3E-01	1.0E+00
Total CH Volumes	**5.8E+04**	**5.4E+04**	**1.1E+05**

Table 4 - 2

WIPP RH-TRU Waste Anticipated Inventory By Site

(Cubic Meters)

Storage/Generator Site	Stored Volumes	Projected Volumes	Anticipated Volumes
Argonne National Laboratory - West	1.9E+01	1.3E+03	1.3E+03
Battelle Columbus Laboratories	5.8E+02	0.0E+00	5.8E+02
Bettis Atomic Power Laboratory	0.0E+00	6.7E+00	6.7E+00
Energy Technology Engineering Center	8.9E-01	0.0E+00	8.9E-01
Hanford (Richland) Site	2.0E+02	2.2E+04	2.2E+04
Idaho National Engineering Laboratory	2.2E+02	0.0E+00	2.2E+02
Los Alamos National Laboratory	9.4E+01	9.9E+01	1.9E+02
Oak Ridge National Laboratory	2.5E+03	4.5E+02	2.9E+03
Total RH Volumes	**3.6E+03**	**2.3E+04**	**2.7E+04**
Total TRU Waste Volumes	**6.2E+04**	**7.7E+04**	**1.4E+05**

Table 4 - 3

Ames Laboratory - Iowa State Univ. Final Waste Form Volumes

	(Cubic Meters)		
Final Waste Form	**Retrievably Stored**	**Projected**	**Total**
Contact Handled Waste			
Solidified Inorganics	0.00	0.42	0.42
Total CH Volumes	**0.00**	**0.42**	**0.42**

Table 4 - 4

Argonne National Laboratory - East Final Waste Form Volumes

	(Cubic Meters)		
Final Waste Form	**Retrievably Stored**	**Projected**	**Total**
Contact Handled Waste			
Lead/Cadmium Metal Waste	1.07	1.29	2.36
Solidified Inorganics	5.20	0.00	5.20
Solidified Organics	0.21	0.00	0.21
Uncategorized Metal	4.99	128.54	133.54
Total CH Volumes	**11.47**	**129.83**	**141.30**

Table 4 - 5

Argonne National Laboratory - West Final Waste Form Volumes

	(Cubic Meters)		
Final Waste Form	**Retrievably Stored**	**Projected**	**Total**
Contact Handled Waste			
Combustible	0.00	101.64	101.64
Heterogeneous	6.54	345.35	351.89
Uncategorized Metal	0.00	293.76	293.76
Total CH Volumes	**6.54**	**740.76**	**747.30**
Remote Handled Waste			
Heterogeneous	0.00	1208.62	1208.62
Inorganic Non-Metal	0.00	21.36	21.36
Lead/Cadmium Metal Waste	0.00	6.23	6.23
Solidified Inorganics	1.78	28.48	30.26
Uncategorized Metal	17.51	0.00	17.51
Total RH Volumes	**19.29**	**1264.69**	**1283.98**

Table 4 - 6

Battelle Columbus Laboratories Final Waste Form Volumes

	(Cubic Meters)		
Final Waste Form	**Retrievably Stored**	**Projected**	**Total**
Contact Handled Waste			
Total CH Volumes			
Remote Handled Waste			
Heterogeneous	580.50	0.00	580.50
Total RH Volumes	**580.50**	**0.00**	**580.50**

Table 4 - 7

Bettis Atomic Power Laboratory Final Waste Form Volumes

	(Cubic Meters)		
Final Waste Form	**Retrievably Stored**	**Projected**	**Total**
Contact Handled Waste			
Heterogeneous	0.00	123.27	123.27
Total CH Volumes	**0.00**	**123.27**	**123.27**
Remote Handled Waste			
Heterogeneous	0.00	6.67	6.67
Total RH Volumes	**0.00**	**6.67**	**6.67**

Table 4 - 8

Energy Technology Engineering Center Final Waste Form Volumes

	(Cubic Meters)		
Final Waste Form	**Retrievably Stored**	**Projected**	**Total**
Contact Handled Waste			
Heterogeneous	1.68	0.00	1.68
Total CH Volumes	**1.68**	**0.00**	**1.68**
Remote Handled Waste			
Lead/Cadmium Metal Waste	0.89	0.00	0.89
Total RH Volumes	**0.89**	**0.00**	**0.89**

Table 4 - 9

Hanford (Richland) Site Final Waste Form Volumes

(Cubic Meters)

Final Waste Form	Retrievably Stored	Projected	Total
Contact Handled Waste			
Combustible	455.73	1247.26	1702.99
Heterogeneous	11190.75	6271.29	17462.04
Inorganic Non-Metal	34.74	69.06	103.79
Lead/Cadmium Metal Waste	14.17	34.53	48.69
Soils	119.48	5961.70	6081.17
Solidified Inorganics	12.94	7.07	20.02
Solidified Organics	7.36	9.36	16.72
Uncategorized Metal	444.86	19635.15	20080.01
Total CH Volumes	**12280.03**	**33235.41**	**45515.44**
Remote Handled Waste			
Heterogeneous	199.36	4066.41	4265.77
Lead/Cadmium Metal Waste	2.67	60.52	63.19
Uncategorized Metal	0.00	17400.39	17400.39
Total RH Volumes	**202.03**	**21527.32**	**21729.35**

Table 4 - 10

Idaho National Engineering Laboratory Final Waste Form Volumes

(Cubic Meters)

Final Waste Form	Retrievably Stored	Projected	Total
Contact Handled Waste			
Combustible	3304.94	0.00	3304.94
Filter	131.05	0.00	131.05
Graphite	498.19	0.00	498.19
Heterogeneous	10608.50	0.00	10608.50
Inorganic Non-Metal	3028.24	0.00	3028.24
Lead/Cadmium Metal Waste	14.37	0.00	14.37
Salt Waste	20.52	0.00	20.52
Solidified Inorganics	4344.44	0.00	4344.44
Solidified Organics	789.67	0.00	789.67
Uncategorized Metal	5866.82	0.00	5866.82
Total CH Volumes	**28606.72**	**0.00**	**28606.72**
Remote Handled Waste			
Combustible	21.36	0.00	21.36
Heterogeneous	49.84	0.00	49.84
Inorganic Non-Metal	46.28	0.00	46.28
Lead/Cadmium Metal Waste	3.56	0.00	3.56
Solidified Inorganics	65.27	0.00	65.27
Solidified Organics	3.56	0.00	3.56
Uncategorized Metal	30.85	0.00	30.85
Total RH Volumes	**220.72**	**0.00**	**220.72**

Table 4 - 11

Lawrence Livermore National Laboratory Final Waste Form Volumes

	(Cubic Meters)		
Final Waste Form	**Retrievably Stored**	**Projected**	**Total**
Contact Handled Waste			
Filter	15.54	32.28	47.82
Heterogeneous	198.85	663.78	862.63
Salt Waste	0.62	3.02	3.64
Solidified Inorganics	14.35	5.82	20.18
Solidified Organics	1.04	5.82	6.86
Total CH Volumes	**230.40**	**710.73**	**941.13**

Table 4 - 12

Los Alamos National Laboratory Final Waste Form Volumes

(Cubic Meters)

Final Waste Form	Retrievably Stored	Projected	Total
Contact Handled Waste			
Combustible	1821.45	2376.19	4197.64
Heterogeneous	16.02	29.12	45.14
Lead/Cadmium Metal Waste	1.89	0.00	1.89
Soils	110.57	29.12	139.69
Solidified Inorganics	4888.20	2033.82	6922.02
Solidified Organics	1.46	29.12	30.58
Uncategorized Metal	4214.43	2853.76	7068.19
Total CH Volumes	**11054.01**	**7351.14**	**18405.15**
Remote Handled Waste			
Combustible	15.13	48.95	64.08
Heterogeneous	11.57	0.00	11.57
Uncategorized Metal	67.64	49.84	117.48
Total RH Volumes	**94.34**	**98.79**	**193.13**

Table 4 - 13

Mound Plant Final Waste Form Volumes

	(Cubic Meters)		
Final Waste Form	**Retrievably Stored**	**Projected**	**Total**
Contact Handled Waste			
Combustible	7.07	0.00	7.07
Filter	0.83	0.00	0.83
Heterogeneous	0.62	0.00	0.62
Soils	177.18	0.00	177.18
Solidified Inorganics	6.03	0.00	6.03
Uncategorized Metal	82.48	0.00	82.48
Total CH Volumes	**274.22**	**0.00**	**274.22**

Table 4 - 14

Nevada Test Site Final Waste Form Volumes

	(Cubic Meters)		
Final Waste Form	**Retrievably Stored**	**Projected**	**Total**
Contact Handled Waste			
Heterogeneous	613.26	8.98	622.24
Solidified Inorganics	5.67	0.00	5.67
Total CH Volumes	**618.93**	**8.98**	**627.91**

Table 4 - 15

Oak Ridge National Laboratory Final Waste Form Volumes

	(Cubic Meters)		
Final Waste Form	**Retrievably Stored**	**Projected**	**Total**
Contact Handled Waste			
Heterogeneous	1304.16	256.26	1560.42
Total CH Volumes	**1304.16**	**256.26**	**1560.42**
Remote Handled Waste			
Heterogeneous	1432.01	240.30	1672.31
Solidified Inorganics	1036.85	206.48	1243.33
Total RH Volumes	**2468.86**	**446.78**	**2915.64**

Table 4 - 16

Paducah Gaseous Diffusion Plant Final Waste Form Volumes

	(Cubic Meters)		
Final Waste Form	**Retrievably Stored**	**Projected**	**Total**
Contact Handled Waste			
Inorganic Non-Metal	0.00	1.89	1.89
Total CH Volumes	**0.00**	**1.89**	**1.89**

Table 4 - 17

Pantex Plant Final Waste Form Volumes

	(Cubic Meters)		
Final Waste Form	**Retrievably Stored**	**Projected**	**Total**
Contact Handled Waste			
Heterogeneous	0.62	0.00	0.62
Total CH Volumes	**0.62**	**0.00**	**0.62**

Table 4 - 18

Rocky Flats Environmental Technology Site Final Waste Form Volumes

	(Cubic Meters)		
Final Waste Form	**Retrievably Stored**	**Projected**	**Total**
Contact Handled Waste			
Combustible	185.54	861.08	1046.62
Filter	72.09	477.51	549.60
Graphite	13.73	47.57	61.30
Heterogeneous	3.86	0.00	3.86
Inorganic Non-Metal	58.29	866.74	925.03
Lead/Cadmium Metal Waste	3.95	298.27	302.22
Salt Waste	0.00	325.92	325.92
Solidified Inorganics	165.36	1257.64	1423.01
Solidified Organics	109.82	31.11	140.93
Uncategorized Metal	93.31	236.12	329.43
Total CH Volumes	**705.96**	**4401.95**	**5107.91**

Table 4 - 19

Sandia National Laboratory - Albuquerque Final Waste Form Volumes

	(Cubic Meters)		
Final Waste Form	**Retrievably Stored**	**Projected**	**Total**
Contact Handled Waste			
Heterogeneous	6.66	7.49	14.14
Total CH Volumes	**6.66**	**7.49**	**14.14**

Table 4 - 20

Savannah River Site Final Waste Form Volumes

	(Cubic Meters)		
Final Waste Form	**Retrievably Stored**	**Projected**	**Total**
Contact Handled Waste			
Heterogeneous	2611.61	5475.85	8087.46
Solidified Inorganics	200.19	1169.61	1369.80
Uncategorized Metal	70.35	120.54	190.89
Total CH Volumes	**2882.14**	**6766.01**	**9648.15**

Table 4 - 21

Teledyne Brown Engineering Final Waste Form Volumes

	(Cubic Meters)		
Final Waste Form	**Retrievably Stored**	**Projected**	**Total**
Contact Handled Waste			
Inorganic Non-Metal	0.21	0.00	0.21
Total CH Volumes	**0.21**	**0.00**	**0.21**

Table 4 - 22

U.S. Army Material Command Final Waste Form Volumes

	(Cubic Meters)		
Final Waste Form	**Retrievably Stored**	**Projected**	**Total**
Contact Handled Waste			
Heterogeneous	2.50	0.00	2.50
Total CH Volumes	**2.50**	**0.00**	**2.50**

Table 4 - 23

University of Missouri Research Reactor Final Waste Form Volumes

	(Cubic Meters)		
Final Waste Form	**Retrievably Stored**	**Projected**	**Total**
Contact Handled Waste			
Heterogeneous	0.21	0.83	1.04
Total CH Volumes	**0.21**	**0.83**	**1.04**

CHAPTER 5

5. DEPARTMENT OF ENERGY TRANSURANIC WASTE INVENTORY

5.1 INTRODUCTION

The *Waste Isolation Pilot Plant Land Withdrawal Act* states that "The Secretary may commence emplacement of transuranic waste underground for disposal at WIPP only upon completion of ... the submittal to the Congress by the Secretary of comprehensive recommendations for the disposal of all transuranic waste under the control of the Secretary, including a timetable for the disposal of such waste..." (Public Law, 1992b). This section identifies waste streams not included in the WIPP inventory. The combined waste streams from Appendices O and P define all known TRU waste reported by the TRU waste generator/storage sites. Non-WIPP waste streams in Appendix O are summarized in Section 5.2.

There are some materials that have not been declared TRU waste by the DOE TRU waste generator/storage sites at this time that may become TRU waste in the future. These possible future wastes are also discussed in this chapter.

5.2 WASTE STREAMS EXCLUDED FROM WIPP

The DOE has several categories of waste that are not authorized for disposal in WIPP. These are summarized below:

- **Commercial and Non-Defense Waste** – The *National Security Programs* (Public Law, 1979), which authorized the construction of the WIPP, states that WIPP is to be a defense activity. Therefore those wastes that are identified as non-defense or commercial are not allowed to be disposed in WIPP. The non-defense or commercial waste streams are identified in Table 5-1.

- **Pre-1970 Buried Waste** – Several sites (i.e., Los Alamos National Laboratory, Savannah River Site, Sandia National Laboratories, Hanford Site, Idaho National Engineering Laboratory, Oak Ridge National Laboratory, and West Valley) have TRU waste that were buried prior to 1970. The final disposition of the buried TRU wastes at DOE sites is still undecided. The waste streams presented in Table 5-2 provide the volume of pre-1970 buried waste that has been reported to date.

- **Classified Waste** – Sites that have classified waste will be required to declassify the waste prior to shipment to WIPP. Several generator/storage sites have identified classified waste in storage. These sites have planned declassification of these waste streams. If declassification is anticipated, the Final Waste Form is a part of the WIPP disposal inventory. If declassification is not anticipated, the Final Waste Form is excluded from WIPP. There was no classified waste in Final Waste Form reported in the Revision 2 TWBIR data call.

- **Polychlorinated Biphenyls (PCBs)** – This category of Toxic Substances Control Act (TSCA) waste is not permitted in WIPP if the PCB concentrations exceed 50 ppm (DOE, 1995f). The TRU waste generator/storage sites have identified several waste streams that are regulated under TSCA (i.e., containing PCBs). Because the concentrations

Table 5-1

Non Defense and Commercial Waste (Final Waste Form)

(Cubic Meters)

Commercial TRU Waste

Waste Stream ID	Waste Stream Name	Stored Volumes	Projected Volumes	Total Volumes
AM-W001	Nuclear Pacemakers	0.0E+00	4.2E-01	4.2E-01
WV-M005	TRU Filters	4.9E+01	4.6E+01	9.5E+01
WV-M007	TRU General Waste	1.0E+01	0.0E+00	1.0E+01
WV-M008	TRU Concrete	2.1E-01	0.0E+00	2.1E-01
WV-M010	TRU Spent Absorbents	4.2E-01	0.0E+00	4.2E-01
WV-M012	Glove Boxes	2.1E-01	0.0E+00	2.1E-01
WV-M013	Sweeping Compound	1.5E+00	0.0E+00	1.5E+00
WV-M015	Chemical Process Cell General Waste	1.8E+01	0.0E+00	1.8E+01
WV-T001	Fissile Material - Solids	3.7E+00	0.0E+00	3.7E+00
WV-T002	Fissile Material - Alpha Lab Liquids	6.2E-01	0.0E+00	6.2E-01
WV-T003	Fissile Material-UNH Solution	2.1E-01	0.0E+00	2.1E-01
WV-T004	Fissile Material - Other	4.2E-01	0.0E+00	4.2E-01
WV-T006	TRU General Waste	1.3E+01	8.8E+01	1.0E+02
WV-T009	TRU General Laboratory Waste	2.1E+00	2.9E+01	3.1E+01
WV-T011	TRU Glove Boxes	2.1E-01	0.0E+00	2.1E-01
WV-T014	Chemical Process Cell Vessels	9.0E+01	0.0E+00	9.0E+01
WV-T016	Chemical Process Cell Miscellaneous Equipment	1.5E+02	0.0E+00	1.5E+02
WV-T017	Spent Filter Media	3.8E+00	0.0E+00	3.8E+00
WV-W024	TRU Lead	2.1E+00	0.0E+00	2.1E+00
WV-W041	TRU Paint (Dry) with Metals	4.2E-01	0.0E+00	4.2E-01
	Totals	3.4E+02	1.6E+02	5.1E+02

Non-Defense TRU Waste

Waste Stream ID	Waste Stream Name	Stored Volumes	Projected Volumes	Total Volumes
KA-T001	Transuranic Debris	2.5E+00	5.1E+01	5.4E+01
KA-W016	Transuranic Debris	0.0E+00	6.9E+00	6.9E+00
LB-T001	LBL - Waste	6.2E-01	1.0E+00	1.7E+00
OR-W051	CH-TRU Heterogeneous Debris (nondefense)	1.0E+00	0.0E+00	1.0E+00
OR-W052	CH-TRU Uncategorized (nondefense, nonmixed)	4.4E+00	0.0E+00	4.4E+00
	Totals	8.5E+00	5.9E+01	6.8E+01

Table 5-2. Pre-1970 Buried Waste

Site	Waste Stream ID	Current Volume (m^3)	Total Curies (estimates)
LANL	LA-Z001	14,000	9,230[1]
ORNL	OR-Z001	176	20[1]
Hanford	RL-Z001	63,629	93,800[1]
SNL/NM	SA-Z001	1.33	Not available
SRS	SR-Z001	4,874	30,500[1]
INEL	IN-Z001	57,000	248,830[2]
WVDP	WV-Z001	1,353	652,000[2,3]

[1] Decayed to December 1993
[2] Not decayed
[3] TRU radionuclides only

of the PCBs frequently is unknown, it is assumed that any waste identified as PCB contaminated cannot be accepted at WIPP under the WIPP permit applications without being treated. These waste streams are summarized in Table 5-3 and are not included in the WIPP disposal inventory.

5.3 ANTICIPATED DOE TRU WASTE INVENTORY

The anticipated DOE TRU waste inventory that has been identified to date is provided in Tables 5-4 and 5-5. Tables 5-4 and 5-5 include the WIPP transuranic waste disposal inventory provided in Tables 4-1 and 4-2 with the addition of the excluded wastes discussed in Section 5.2. Table 5-2 provides the total pre-1970 buried waste inventory by site. This information is not included in Tables 5-4 or 5-5 because the handling (CH-TRU or RH-TRU) is unknown.

5.4 POSSIBLE FUTURE WIPP WASTE

There are several categories of material that have not been declared TRU waste at this time that may be placed in the TRU waste category in the future:

- One of these is plutonium residues at sites other than RFETS. RFETS has declared their (<50% Pu) plutonium residues TRU waste and the volumes and radionuclide inventories are included in the WIPP-level profiles. The *Defense Nuclear Facilities Safety Board Recommendation 94-1 Implementation Plan* (DOE, 1995a) provides estimates of residues and mixed oxides (<50% assay) at other DOE TRU waste sites as presented in Table 5-6. The units for Table 5-6 is kilogram which departs from units used elsewhere in this document. These are the units used in the *94-1 Implementation Plan*. Although the RFETS residues are included in the Defense Nuclear Facilities Safety Board document, they are not listed in Table 5-6 because they are already included in the WIPP disposal inventory.

Table 5-3

Polychlorinated Biphenyl (PCB) TRU Waste (Final Waste Form)

		(Cubic Meters)		
WASTE Stream ID	Waste Stream Name	Stored Volumes	Projected Volumes	Total Volumes
RF-MT0831	PCB Solids-Compatibles/TRM			
RL-W327	2345Z Uncat met debris CH RC/TS MTRU w/ met(Hg)	6.6E+01	1.1E+02	1.8E+02
RL-W328	2345Z Pb/Cd debris CH RC/TS MTRU w/ met(Hg)	3.8E+00	0.0E+00	3.8E+00
RL-W329	2345Z Solidif org CH RC/TS MTRU w/ ign	2.1E+00	8.3E+00	1.0E+01
RL-W333	2345Z Solidif org debris CH TSCA MTRU	1.2E+00	2.5E+00	3.7E+00
RL-W334	2345Z Uncat mt debris CH TSCA MTRU	2.1E-01	0.0E+00	2.1E-01
	Totals	7.3E+01	1.2E+02	1.9E+02

No volumes are shown for the waste stream from Rocky Flats because the Final Waste Form for this stream has not been determined by the site.

Table 5-4

Total Contact-Handled Transuranic Waste Inventory By Site

Contact Handled TRU Waste Site	(Cubic Meters)		
Generator/Storage Site	**Stored Volumes**	**Projected Volumes**	**Anticipated Volumes**
Ames Laboratory - Iowa State Univ.	0.0E+00	4.2E-01	4.2E-01
ARCO Medical Products Co.	0.0E+00	4.2E-01	4.2E-01
Argonne National Laboratory - East	2.5E+01	1.3E+02	1.5E+02
Argonne National Laboratory - West	6.5E+00	7.4E+02	7.5E+02
Bettis Atomic Power Laboratory	0.0E+00	1.2E+02	1.2E+02
Energy Technology Engineering Center	1.7E+00	0.0E+00	1.7E+00
Hanford (Richland) Site	1.2E+04	3.3E+04	4.6E+04
Idaho National Engineering Laboratory	2.9E+04	0.0E+00	2.9E+04
Lawrence Berkeley Laboratory	6.2E-01	1.0E+00	1.7E+00
Lawrence Livermore National Laboratory	2.3E+02	7.1E+02	9.4E+02
Los Alamos National Laboratory	1.1E+04	7.4E+03	1.8E+04
Mound Plant	3.2E+02	0.0E+00	3.2E+02
Nevada Test Site	6.2E+02	9.0E+00	6.3E+02
Oak Ridge National Laboratory	1.3E+03	2.6E+02	1.6E+03
Paducah Gaseous Diffusion Plant	0.0E+00	5.7E+00	5.7E+00
Pantex Plant	6.2E-01	0.0E+00	6.2E-01
Rocky Flats Environmental Technology Site	7.1E+02	4.4E+03	5.1E+03
Sandia National Laboratory - Albuquerque	6.7E+00	7.5E+00	1.4E+01
Savannah River Site	2.9E+03	6.8E+03	9.6E+03
Teledyne Brown Engineering	2.1E-01	0.0E+00	2.1E-01
U.S. Army Material Command	2.5E+00	0.0E+00	2.5E+00
University of Missouri Research Reactor	2.1E-01	8.3E-01	1.0E+00
West Valley Demonstration Project	3.9E+01	1.2E+02	1.6E+02
Totals	5.8E+04	5.4E+04	1.1E+05

Table 5-5

Total Remote-Handled Transuranic Waste Inventory By Site

Remote Handled TRU Waste Site	(Cubic Meters)		
Generator/Storage Site	**Stored Volumes**	**Projected Volumes**	**Anticipated Volumes**
Argonne National Laboratory - West	1.9E+01	1.3E+03	1.3E+03
Battelle Columbus Laboratories	5.8E+02	0.0E+00	5.8E+02
Bettis Atomic Power Laboratory	0.0E+00	6.7E+00	6.7E+00
Energy Technology Engineering Center	6.3E+00	8.3E-01	7.1E+00
Hanford (Richland) Site	2.0E+02	2.2E+04	2.2E+04
Idaho National Engineering Laboratory	2.2E+02	0.0E+00	2.2E+02
Knolls Atomic Power Laboratory - Schenectady	2.5E+00	5.8E+01	6.1E+01
Los Alamos National Laboratory	9.4E+01	9.9E+01	1.9E+02
Oak Ridge National Laboratory	2.5E+03	4.5E+02	2.9E+03
West Valley Demonstration Project	3.0E+02	4.6E+01	3.5E+02
Totals	3.9E+03	2.3E+04	2.7E+04

Table 5-6. Possible Future Waste - Residues

Site	Radionuclide Inventory (kgs)	Number of Items
Argonne National Laboratory-East	<1	12
Hanford (Richland) Site	1,500	5000
Lawrence Berkley Laboratory	<1	250
Lawrence Livermore National Laboratory	35	182
Los Alamos National Laboratory	1,400	6,300
Mound	3	39
Oak Ridge National Laboratories	0.1	12
Savannah River Site	Classified	1,306

- Another category of possible future TRU waste is from Hanford site. The tank wastes at Hanford can be classified as high-level wastes (HLW), transuranic (TRU) wastes, or low-level (LLW). For purposes of receipt, storage, and management, all tank wastes are managed as HLW. As the tank wastes are characterized and retrieved, those wastes classified as TRU wastes will be maintained as a separate waste stream for purposes of treatment and immobilization at Hanford and potential disposal at the Waste Isolation Pilot Project (WIPP). A very preliminary estimate of the volume of immobilized TRU tank waste from Hanford that would be potentially disposed in WIPP as the tank wastes are characterized and retrieved (if these wastes are able to be segregated), is approximately 1300 m^3.
- Waste streams that have been declared "unknown" make up another category of possible future WIPP waste and are summarized in Table 5-7. These wastes have not been characterized adequately to determine the Final Waste Form and/or other significant parameters. If these wastes are characterized they will be included in the WIPP inventory.
- Babcock and Wilcox in Lynchburg, VA, currently has in storage approximately 18.1 m^3 of TRU waste in on-site storage silos that are classified as possible future TRU waste. Virtually all of the material is a result of the Light Water Reactor Extended Burnup Program. The program was responsible for sending test elements of normal commercial reactor fuel to various hot cells, including the one at Lynchburg, for examination. The waste consists mostly of cellulosics, rubber, and lead lined gloves. In addition, some TRU materials and spent fuel currently reside in TRU-waste contaminated hot cells; however, these materials have not been declared TRU waste.
- General Electric Vallecitas Nuclear Center currently has in storage approximately 5.33 m^3 of CH-TRU waste and 8 m^3 of RH-TRU wastes. They anticipate generating an additional 3.5 m^3 of CH-TRU and 5.33 m^3 of RH-TRU waste during D&D activities of the DOE programs. This waste was generated in support of the Nuclear Energy's boiling water reactor (BWR) activities conducted for DOE and the Atomic Energy Commission.
- RFETS particulate waste streams will be shipped and disposed in a 55-gallon drum containing a 6-inch or 12-inch steel pipe component. The 6-inch pipe will add 88 pounds of steel and 97 pounds of fiberboard per container. The 12-inch pipe will add 195 pounds of steel and 65 pounds of fiberboard per drum. It is anticipated that RFETS will have an estimate of the total number of drums in TWBIR, Rev. 3.

Table 5-7

Possible Future Waste for WIPP

		(Cubic Meters)		
Waste Stream ID	Waste Stream Name	Stored Volumes	Projected Volumes	Total Volumes
AE-T001	Solid heterogeneous inorganic/organic waste	1.3E+01	0.0E+00	1.3E+01
AW-N028	TRU WASTE USED PRE-FILTERS			
AW-W018	SODIUM - TRU			
AW-W019	SODIUM POTASSIUM -NaK- TRU			
ET-T001A	Hot Lab & PU Facility D&D	5.4E+00	8.3E-01	6.2E+00
MD-T004	Uncategorized unknowns	4.2E+00	0.0E+00	4.2E+00
MD-T004	Uncategorized unknowns	2.3E+01	0.0E+00	2.3E+01
MD-W018	PCB TRU WASTE	2.1E-01	0.0E+00	2.1E-01
MD-W018	PCB TRU WASTE	1.9E+01	0.0E+00	1.9E+01
OR-W049	CH-TRU Uncategorized (nonmixed)	1.8E+01	0.0E+00	1.8E+01
OR-W050	RH-TRU Uncategorized (nonmixed)	8.9E-01	0.0E+00	8.9E-01
OR-W052	CH-TRU Uncategorized (nondefense, nonmixed)	4.4E+00	0.0E+00	4.4E+00
PA-B015	Transuranic and Technetium Wastes - Liquid	0.0E+00	1.9E+00	1.9E+00
PA-W014	Transuranic Waste Liquid	0.0E+00	1.9E+00	1.9E+00
RL-W284	201C Unk form CH RCRA MTRU w/ met	4.2E-01	0.0E+00	4.2E-01
RL-W332	2345Z Unk form CH St MTRU	2.0E-01	0.0E+00	2.0E-01
RL-W357	KAPL Unk form CH/r TRU	2.1E-01	0.0E+00	2.1E-01
RL-W366	202A Unk form CH TRU	1.5E+00	8.3E-01	2.3E+00
RL-W382	2345Z Unk form CH TRU	1.9E+01	6.1E+01	8.0E+01
RL-W391	308 Comb unk form CH TRU	4.2E-01	0.0E+00	4.2E-01
	Totals	1.1E+02	6.7E+01	1.8E+02

No volumes are shown for the waste streams from Argonne-West because the Final Waste Form for these streams has not been determined by the site.

CHAPTER 6

6. TRANSURANIC WASTE BASELINE INVENTORY DATABASE

A Transuranic Waste Baseline Inventory Database (TWBID) has been developed to support the Transuranic Waste Baseline Inventory Report (TWBIR). This database was used to summarize the waste data and print out the various tables and reports used in the TWBIR. The database is operated in the Microsoft Access version 2.0 system.

6.1 DATABASE DESCRIPTION

The database actually consists of two databases with essentially the same primary data tables. The first database is TWBIR.MDB. This database contains the original data submitted by the sites or amended data as agreed upon by the sites through discussions with TWBIR personnel. This database is used to produce the forms in Appendices O and P. The second database is called REPORTS.MDB and is used to produce the tables and figures in the remainder of the report. Summary tables produced by REPORTS.MDB are the result of a series of calculations based on data from TWBIR.MDB utilizing assumptions outlined in Chapter 1, Appendix O and Appendix P. These calculations and the associated methodology are described in this section of the report. The basic data tables in each database are the same with the exception of one additional table called Container_Data in the Reports.MDB database.

Each record in the database represents one waste stream as defined by a unique Waste Stream ID (WIPP_ID) and a Survey ID (Survey_ID). The Survey ID is the record identifier for the Material Inventory and Tracking Information Database for 1995 (MITI95) data call. The MITI95 database is the source of information for the 1995 Mixed Waste Inventory Report (to be published in Winter 1995). The WIPP_ID is a unique TWBIR identifier for the records containing the TRU waste stream data reported in the MITI95 data call. There may be more than one WIPP_ID for each Survey_ID because some of the sites presented the WIPP waste streams at a finer level of detail. Under the WIPP_ID records there is another level of detail associated with containers as currently existing or as planned to be generated plus containers in final form as expected to arrive at the WIPP.

The reports and tables produced for the TWBIR are produced from different data sorts based on the WIPP_ID, Site_Name, Handling and Final_Waste_Form fields. The Site_Name specifies the site which reported and is typically storing the waste. The generator site may differ from the storage site. The Handling field defines whether the waste is categorized as CH-TRU or RH-TRU waste. The Final_Waste_Form defines a general grouping based on the physical and chemical properties in the waste stream.

The volumes are rolled-up from the stored and projected final waste form containers provided by the sites. The date on which the stored inventory is based may not be consistent among sites.

In Table 3-1, a column, titled "WIPP Disposal Volumes," was calculated to match the maximum calculated CH-TRU disposal inventory. This was done by increasing all the Final_Waste_Form projected volumes proportionately, except Unknown, so that the total CH-TRU volume would equal the maximum calculated WIPP capacity for CH-TRU. Additional waste volume was calculated for each waste stream proportionate to the projected volumes for each stream such that the sum of the scaled volumes for contact handled waste equaled 168,500 cubic meters. Enough waste is already identified to fill the WIPP to capacity for RH-TRU waste.

The other fields used to develop summaries for the tables in the reports are the waste material parameters. The TRU waste generator/storage sites were asked to estimate an average, minimum and maximum concentration of materials in each waste stream. For example, weights of metals such as brass, copper, tantalum and materials simply described as metals were included under the field OM_xxx (where xxx is min, max, or avg) which stands for "Other Metals" (see the data dictionary; Appendix L). Note that because some materials are described only as metals, aluminum and iron can be in the OM_xxx field as well as in the IB_xxx (iron-base) or AB_xxx (aluminum-base) fields.

Four categories of sludges and solidified materials are represented by fields. These are solidified inorganic material (SIM_xxx), solidified organic material (SOM_xxx), vitrified (VIT_xxx) and cement (solidified). The particular category into which a sludge or solidified material is placed is determined by the overall matrix of the resulting material after any solidification or stabilization steps. For example, a small amount of inorganic liquids/sludges solidified in an inorganic matrix would be placed in the solidified inorganic material category and a drum of organic base resin beads solidified in cement would be placed in the solidified organic material category.

The rest of the fields are reasonably self explanatory, but additional discussion on Cel_xxx, Rub_xxx, and Plas_xxx, may be helpful. Cel_xxx includes all cellulose-base materials and will typically include paper, cloth, wood, kimwipes and other materials derived from plant base materials. It is assumed that cloth is plant derived material such as cotton and not plastic based such as rayon or nylon. Rub_xxx consists of rubber based materials. Included in this category are Hypalon®, neoprene, and surgeons gloves. Plas_xxx represents plastics such as Lucite®, polyethylene, Tyvek®, teflon and polyvinyl chloride. Plastic bags are used extensively in packaging the waste and would be included in this category. The plastic drum or container liners were not included in this category and were requested separately.

The waste material parameter information is structured in the database so that the waste material parameters can be summed and averaged at the WIPP, site and Final Waste Form levels. Waste streams for which no waste material parameters are provided or for which average, minimum and maximum parameters are not all provided cannot be rationally averaged and summed. Therefore, in order to calculate averaged parameters from the waste stream data provided, certain data assumptions are necessary. These assumptions are summarized below. If the parameters for a particular waste material were incomplete, the following assumptions were used so that averages and sums could be provided:

- If no minimum was provided, but a maximum was provided, the minimum was assumed to be zero.
- If a maximum and minimum was provided, but no average, the average was assumed to be one half the sum of the maximum and minimum.
- If an average was provided but no minimum or maximum, the average was assigned to the minimum and maximum.
- If only a minimum was provided, the minimum was assigned to both the maximum and the average.

For those waste streams where the site did not provide any waste parameter information, but which could be assigned to a final waste form, an average set of parameters was calculated and used. This average set of parameters was calculated by volume averaging the parameters provided for other waste streams with the same final waste form.

The data that are printed on all the tables in the report are based on these calculations and assumptions and are derived from the REPORTS.MDB database. The individual stream data printed in Appendices O and P are the original data submitted by the TRU waste generator/storage sites or amended data as agreed to by the sites through discussions and questions with the TWBIR team and is contained in the TWBIR.MDB database.

The minimum density is chosen as the smallest minimum density of a particular material parameter in the TWBIR streams in a particular Final_Waste_Form. The maximum density is chosen in a similar manner except that the largest maximum density was chosen. Note that the maximum and minimum densities apply to individual containers and cannot be used to directly calculate a maximum and minimum density of particular material parameters for the entire WIPP inventory. Also note, that it is possible, that the maximum density may not be a true maximum but a maximum average density, if a site provided only averages and no maximums and these averages are higher than other sites' maximums.

The amount of and type of materials in the containers and liners was requested separately in the waste stream profiles. Many of the sites did not provide complete data for final waste form containers. In order to add up packaging materials for the waste as it would arrive at WIPP, standard container configurations were assumed for waste from all sites. This was done because many sites did not provide liner information and assuming standard liners will generally maximize the amount of liner material. The standard packaging configurations used are shown in Table 6-1. This data is used in generating the packaging material assumptions provided in Table 1-3.

The tables and reports for the TWBIR were produced using the various data organization features provided by the Microsoft Access Version 2.0 database system. These tables and reports consist primarily of various sorts based on waste streams, final waste forms, sites, etc. and summations of volumes and waste material parameter weights.

6.2 DATA DICTIONARY

Appendix L presents a data dictionary for the TWBIR and REPORTS databases. The tables in the databases are the same except for an additional table in REPORTS called Container_Data. Except for tables Page_1 and Container_Data, tables are the same as tables in the MITI95 data call with some minor changes and field additions. Certain temporary tables or tables used to hold intermediate data that were used to produce reports are not included in the dictionary.

6.3 DATABASE OPERATING INSTRUCTIONS

The Transuranic (TRU) Waste Baseline Inventory Report (TWBIR), Revision 2, database is a Microsoft Access 2.0 database. It requires the user to possess a copy of Access 2.0 and be running under the Windows 3.1 operating system. Access, unlike most other databases, provides a single structure that contains objects such as queries, reports, program segments, macros,

Table 6-1. Table of Materials for CH and RH Waste Containers (Weights in kg per container, Volume in m^3 per container)

CH Waste			
Container Characteristic	**Drum**	**SWB**	**SWB Overpack[1]**
Steel Weight	27.3	290.9	400.1 (includes 4 drums)
Liner Type	Rigid Drum Liner	Bag	Rigid Drum Liners and Bag
Liner Material	90 mil HDPE	Plastic	90 mil HDPE and Plastic
Liner Weight	7.7	2.2	33
Volume (Capacity)	0.208	1.89	1.89
Payload Volume[2]	0.208	1.89	0.832 (4 drums)

RH Waste		
Container Characteristics	**RH Canister**	**RH Canister Overpack[3]**
Steel Weight	386.4	468 (3 drums)
Lead Weight	412.7	412.7
Steel Plug Weight	1911.6	1911.6
Liner Type	None	Rigid Liner in Drums
Liner Material	N/A	90 mil HDPE
Liner Weight	N/A	23.1
Volume (Capacity)	0.89	0.89
Payload Volume[2]	0.89	0.624 (3 drums)

[1] Four 55-gallon drums overpacked in an SWB
[2] Payload volume is the actual volume of waste which can be placed in the container.
[3] Three 55-gallon drums overpacked in an RH Canister

indexes, relations, and multiple data tables. This means there is only one file to work with, one with the suffix, .MDB. A second file normally accompanies the database file, one with the suffix .LDB and having the same name. It is not normally used except for certain file maintenance operations. For those users who do not have a copy of Access 2.0, a "run-time" only version also accompanies this report.

Two databases are provided as part of the compressed file on the TWBID distribution disk. The first database is TWBIR_1, which contains the original data by waste stream from all generator/storage sites. This is the database used to print out the individual stream data in Appendices O and P.

The second database is called REPORTS. This is the database used to produce the other tables and figures in the report. The databases are separate because the summaries for some TWBIR tables require some changes to the data to produce technically corrected numbers in appendices, tables and figures.

INSTALLATION: The two databases are compressed into a file on the distribution disk called TWBIR.EXE. Approximately 26 megabytes of hard disc space should be available to install the database. To install the TWBIR Revision 2 database, copy TWBIR.EXE to a convenient directory on your hard disk, go to the directory containing TWBIR.EXE, type TWBIR and press the enter key. The database should be expanded into the directory. The directory should now contain TWBIR.EXE, TWBIR1.MDB, TWBIR1.LDB, TWBIR.HLP, REPORTS.MDB, and REPORTS.LDB. TWBIR.HLP contains the data field descriptions. (See the latest installation instructions in the file README.TXT on the first disc.) This procedure can be performed either in DOS, a DOS prompt in Windows or from File Manager in Windows. Enter Windows and start Access, and open the TWBIR_1 or REPORTS database. See the Access User's Manual in case of difficulty.

TWBIR_1 INSTRUCTIONS: The TWBIR Revision 2 database has a built-in program (a macro called "autoexec") which takes control immediately upon opening the database file. It brings up a screen from which the user can view, edit, and locate various waste streams using the normal Access 2.0 tool bar features. In addition, a large printer icon button appears midway down the left side of the screen. This button affords the user the opportunity of printing the waste stream being viewed, waste streams for a specific site, or waste streams for all sites in the database. Scroll bars are provided to scroll between waste streams at the bottom left of the screen. For a given waste stream, the gray section contains waste container data for the various containers used to store this stream, and a scroll bar is provided in the bottom left to scroll among the types of containers for that waste stream. For a given type of container, the typical nuclides for that type of container are listed in a white area inset into the gray and a scroll bar provided.

Descriptions of the data fields can be viewed by opening the desired data table in Access's Table Mode, Design View. If the TWBIR_1.HLP file was copied into the directory occupied by the TWBIR database files, limited descriptions of the data fields in the TWBIR database are available when the cursor is placed in a data box and the F1 function key is pressed.

Reports Instructions:

The first step is to open the database REPORTS.MDB. An "autoexec" macro executes when the database opens. This macro presents a form, titled "Figure and Table Viewer", listing the reports available for viewing.

The reports and tables available for review are listed with a number on the left side. If all entries cannot be seen, the scrolling arrows on the right side of the form can be used to scroll the entries. On the bottom of the form is a series of buttons. Each form can be viewed (in report preview mode) by clicking on the command button with the same number as the number to the left of the list of figures and tables.

When the table appears on screen, the size of the window for viewing the table can be adjusted by clicking on the upper right corner up or down arrow in the report window. The report preview window also permits moving between pages of multi-page sets of figures and tables by using the arrows on the lower left corner.

The table or figure can be printed from the report preview window. The tables and figures were originally printed from and formatted for a Laserjet III printer. When printing the tables and figures, make sure the margins are set so that the entire table or figure is contained on one page, other wise blank pages may be printed.

6.4 TWBID QUALITY CONTROL

To ensure that proper controls and documentation were in place during development and population of the TWBID, several quality control activities were implemented by the TWBIR Team. Project quality control objectives were to:

- Define a method for receiving, tracking, reviewing, updating, and documenting data received from the waste generator/storage sites.
- Identify and document the contents of each project baseline.
- Establish and implement a process for releasing and maintaining the TWBID.
- Create a master library for TWBID software and documentation.
- Ensure that TWBID-generated reports and database copies are produced from released database revisions.

The activities performed to meet these objectives are described in the Transuranic Baseline Inventory Report Database Management Procedure (DOE, 1995e). The procedure identifies the responsible individuals and actions required for developing, populating, and maintaining the TWBID, and for managing the data used to produce the TWBIR and other summary documents if required in the future.

CHAPTER 7

7. GLOSSARY

40 CFR Part 191, Protection of Environment. EPA: Environmental Radiation Protection Standards for Management and Disposal of Spent Nuclear Fuel, High-Level and Transuranic Radioactive Wastes – The EPA's environmental standards for the storage (Subpart A) and disposal (Subpart B) of spent nuclear fuel, and high-level and TRU radioactive wastes. This is the primary post-closure standard that applies to WIPP.

40 CFR Part 268, Protection of Environment. EPA: Land Disposal Restrictions – Restricts the land disposal of all hazardous wastes and specifies strict treatment standards that must be met before these wastes can be land-disposed.

Acceptable Knowledge – Includes process knowledge and results from previous testing, sampling, and analysis associated with the waste. Acceptable knowledge includes information regarding the raw materials used in a process or operation, process description, products produced, and associated wastes. Acceptable knowledge documentation may include the site history and mission, site-specific processes or operations, administration building controls, and all previous and current activities that generate a specific waste.

Americium (Am) – A TRU radionuclide having an atomic number of 95, containing 95 electrons and 95 protons. Am-241 (half-life 432.7 y) results from the decay of Pu-241 (half-life 14.4 y). Waste initially rich in Pu-241 will therefore "grow" in Am-241 for several decades as the Pu decays. Am-241 exists in finite amounts in TRU waste at some DOE sites.

Anticipated Inventory – The sum of the stored and projected inventories, as defined in this document.

As-Generated Waste – The chemical and physical status of waste when it is generated.

Buried Waste – TRU waste buried in shallow trenches prior to the 1970 Atomic Energy Commission policy that required TRU waste to be retrievably stored.

Californium (Cf) – A TRU element having an atomic number 98 (the number of protons in the nucleus). An alpha emitter (half-life 2.64 y), Cf-252 also spontaneously fissions, thus making it desirable as a neutron source. Cf-252 is created by neutron bombardment of Cm-244 targets. Oak Ridge National Laboratory (ORNL) is the only production agency for Cf. As a result, the ORNL inventory is the only TRU waste inventory showing finite quantities of this element.

Code of Federal Regulations (CFR) – (1) A codification of the general and permanent rules published in the **Federal Register** by the department and agencies of the federal government. The CFR is divided into 50 titles that represent broad areas subject to federal regulation. It is issued quarterly and revised annually. (2) All federal regulations in force are published annually in codified form in the CFR.

Contact-Handled (CH) TRU Waste – Packaged TRU wastes with an external surface dose rate of 200 mrem or less per hour.

Curie – A quantitative measure of radioactivity equal to 3.7×10^{10} disintegrations per second.

Curium (Cm) – A TRU element having an atomic number of 96 (the number of protons in the nucleus). An alpha emitter (half-life 18.1 y), Cm-244 is used for neutron bombardment of targets for the production of Cf-252 at ORNL. In spite of its half-life being less than 20 years, ORNL manages Cm-244 as if it were a TRU nuclide. Some TRU waste at both ORNL and Savannah River Site contains Cm-244.

Decontamination and Decommissioning (D&D) – The process through which DOE facilities which are no longer operational are cleared of contamination and removed from service. In particular, a reference to D&D waste is a reference to the waste materials that are generated during D&D activities.

Defense Waste – (1) Radioactive waste from any activity performed in whole or in part in support of DOE atomic energy defense activities; excludes waste under purview of the Nuclear Regulatory Commission or generated by the commercial nuclear power industry. (2) Nuclear waste derived mostly from the manufacture of nuclear weapons, weapons-related research programs, the operation of naval reactors, and the decontamination of nuclear weapons production facilities. (DOE, 1993a)

Department of Energy Site – A DOE-owned or -controlled tract used for DOE operations. Either a tract owned by DOE or a tract leased or otherwise made available to the federal government under terms that afford to DOE rights of access and control substantially equal to those that DOE would possess if it were the holder of the fee (or pertinent interest therein) as agent of and on behalf of the government. One or more DOE operations/program activities are carried out within the boundaries of the described tract.

Disposal – Emplacement of waste in a manner that assures isolation from the biosphere for the foreseeable future with no intent of retrieval and that requires deliberate action to regain access to the waste. For example, disposal of wastes in a mined geologic repository occurs when all of the shafts to the repository area are backfilled and sealed.

Disposal Inventory – The inventory volume defined for WIPP emplacement to be used for PA calculations is the "disposal inventory." The LWA defines the total amount of TRU waste allowed in the WIPP as 6,200,000 cubic feet (approximately 176,000 cubic meters) (Public Law, 1992b). The "Agreement for Consultation and Cooperation" (C&C Agreement) limits the RH-TRU inventory to 250,000 cubic feet (approximately 7,080 cubic meters) (DOE and State of New Mexico, 1981). Therefore by difference, the CH-TRU inventory is limited to 5,950,000 cubic feet (approximately 168,920 cubic meters).

Environmental Restoration (ER) – Those activities associated with the remediation of sites contaminated with hazardous and/or radioactive materials. In particular, a reference to remediation activities conducted under the auspices of the DOE Office of Environmental Management, Office of Environmental Restoration, EM-40.

Federal Facility Compliance Act (FFCAct) – Public law 102-386, 1992.

Final Waste Form – Consists of a series of WMCs that for PA purposes has similar physical and chemical properties.

Gas Generation – Three gas generation processes are expected to be a factor associated with the degradation of TRU wastes in the WIPP repository. The generation of gases is expected to occur through chemical (i.e., corrosion), microbial, and radiolytic processes.

Generator/Storage Sites – See Waste Generator/Storage Sites.

Hazardous Waste – Those wastes that are designated hazardous by EPA (or state) regulations through the RCRA.

Integrated Data Base (IDB) – The latest version of the IDB, the *Integrated Data Base for [1995]: U.S. Spent Fuel and Radioactive Waste Inventories, Projections, and Characteristics* (DOE, 1995d)

Mixed TRU Waste – TRU waste that contains both radioactive and hazardous components as defined by the Atomic Energy Act and the RCRA as codified in 40 CFR Parts 261.3 (EPA, 1980).

Mixed Waste Inventory Report (MWIR) – The latest release of information from the MWIR database that supports requirements under the FFCAct of 1992 (Public Law 102-386).

Newly Generated Wastes – See Projected Inventory.

No-Migration Variance Petition (NMVP) – Section 3004 of RCRA allows EPA to grant a variance from the land disposal restrictions when a determination can be made that, to a reasonable degree of certainty, there will be no migration of hazardous constituents from the disposal unit for as long as the waste remains hazardous. Specific requirements for making this demonstration are found in 40 CFR 268.6, and EPA has published a draft guidance document to assist petitioners in preparing a variance petition.

Non-Defense Waste – The balance of radioactive waste (including TRU) belonging to DOE that is not from support of DOE atomic energy defense activities.

Non-Mixed TRU Waste – Transuranic waste that does not contain hazardous constituents or exhibit hazardous characteristics, as identified in 40 CFR 261, Subparts C and D.

Performance Assessment (PA) – (1) A systematic analysis of the potential risks posed by waste management systems to the public and environment and a comparison of those risks to established performance objectives. (2) An analysis that (a) identifies the processes and events that might affect the disposal system, (b) examines the effects of these processes and events on the performance of the disposal system, and (c) estimates the cumulative releases of radionuclides, considering the associated uncertainties, caused by all significant processes and events. These estimates shall be incorporated into an overall probability distribution of cumulative release to the extent practicable. (3) A term used to denote all activities (qualitative and quantitative) carried out to (a) determine the long-term ability of a site/facility to effectively isolate the waste and ensure the long-term health and safety of the public and (b) provide the basis for demonstrating regulatory compliance. (SNL/NM, 1993)

Plutonium (Pu) – A radionuclide having an atomic number of 94. Pu isotopes exist in some TRU waste at all the major DOE storage facilities. The significant isotopes that may exist in measurable quantities at these facilities are Pu-238 through Pu-242. Each isotope is an alpha emitter; the respective half-lives in years are: 238=87.7, 239=24,000, 240=6,563, 241=14.4, 242=376,000. Because of its high activity, Pu-238 can contribute significantly to the thermal loading on some TRU waste. Pu-241 decays, primarily by beta emission, to Am-241.

Process Knowledge – A qualitative evaluation of the contents of a waste container through the study of existing records of production history of the waste.

Projected Inventory – That part of the inventory that has not been generated but is estimated to be generated at some time in the future by the TRU waste generator/storage sites. The estimated timeframe may vary, but is usually between 20 and 30 years. "Newly generated waste" also is sometimes used as a synonym for the projected inventory.

Radioactive – Term used to refer to an unstable atomic nuclei that decays with the spontaneous emission of ionizing radiation (also see "radionuclide").

Radionuclide – (1) A species of atom having an unstable nucleus, that is subject to spontaneous decay or disintegration and usually accompanied by the emission of ionizing radiation. (2) Any nuclide that emits radiation. A nuclide is a species of atom characterized by the constitution of its nucleus and hence by the number of protons, the number of neutron, and the energy content.

Remote-Handled (RH) TRU Waste – Packaged TRU wastes with an external surface dose rate exceeding 200 mrem per hour.

Repository – As used in this report: designated location for the permanent disposal of post-1970 defense transuranic wastes; the Waste Isolation Pilot Plant.

Resource Conservation and Recovery Act (RCRA) – (1) Establishes a system for controlling hazardous waste from generation to disposal. (2) A Federal law passed in 1976, and amended under the HSWA of 1984, that established a structure to track and regulate hazardous wastes from the time of generation to disposal. The law requires safe and secure procedures to be used in treating, handling, transporting, storing, and disposing of hazardous substances. RCRA is designed to prevent new uncontrolled hazardous waste sites. The law also regulates the disposal of solid waste that may not be considered hazardous. (3) Specifically, Subtitle D of RCRA governs the management of solid waste. (Note: 40 CFR Parts 260-272 are the regulations for complying with RCRA with respect to hazardous waste and hazardous waste treatment, storage, and disposal facilities.)

Retrievable Storage – Designated storage location for transuranic wastes that is designed, operated, and maintained in such a manner that the wastes remain accessible for subsequent retrieval.

Scaling – The process for adjusting the anticipated inventory to equal the maximum authorized disposal inventory of the WIPP repository for the purposes of WIPP performance assessment modeling.

Site-Specific Waste Profile – Represents a summary of the characteristics of all waste streams at a particular DOE TRU waste generator/storage site that belong to the same Final Waste Form.

Stakeholders – Those persons and/or groups of people and organizations who are affected or perceive they are affected by the DOE waste management program. Stakeholders include DOE management, employees, and contractors (internal); and executive, legislative, and regulatory groups, public representatives, the general public, intervenor groups, special interest groups, contractors, suppliers, and universities (external).

Stored Inventory – That part of the TRU waste inventory currently in retrievable storage as of the time of the last data call for inventory information. Retrievably stored waste includes waste stored in buildings or in berms with earthen cover since 1970 and does not include any waste that was buried prior to 1970. Stored inventory can be in the "as-generated" form or "final waste form."

Thorium (Th) – A radionuclide having an atomic number of 90. Although not TRU, Th-232 is an alpha emitter (half-life 14 billion years) and exists in finite amounts in some TRU waste at Hanford Site, Idaho National Engineering Laboratory, and Oak Ridge National Laboratory. [Note: Thorium is naturally occurring and contributes to background radiation at some sites (e.g., INEL)]

Transuranic – Pertaining to elements that have atomic numbers greater than 92, including neptunium, plutonium, americium, and curium; all are radioactive, are not naturally occurring, and are members of the actinide group.

Transuranic (TRU) Waste – (1) Waste containing alpha-emitting radionuclides with an atomic number greater than 92 and half-lives greater than 20 years, at concentrations of TRU isotopes greater than 100 nanocuries per gram of waste. **This core definition appears in modified form in various relevant documents as follows:** (a) For purposes of management, DOE Order 5820.2A: (i) considers TRU waste, as defined above, "without regard to source or form" *(The proposed revision to the Order [DOE Order 5820.2A Major Issues for Revision, May 6, 1992]* contemplates removing this clause); (ii) allows head of field elements to determine that wastes containing other alpha-emitting radionuclides must be managed as TRU waste; and (iii) adds "at time of assay," implying both that the classification of a waste as TRU waste is to be made based on an assay, and that such classification can be superseded only by another assay. (b) For purposes of setting standards for management and disposal, 40 CFR 191.02(i) adds "except for: (i) high-level wastes; (ii) wastes that the DOE has determined, with the concurrence of the EPA Administrator, do not need the degree of isolation required by this part; or (iii) wastes that the Nuclear Regulatory Commission has approved for disposal on a case-by-case basis in accordance with 10 CFR 61. (2) Waste materials contaminated with U-233 (and its daughter products), with certain isotopes of plutonium, or with other nuclides with atomic numbers greater than 92. In order to be classified as TRU waste, the long-lived alpha activity from subject isotopes must exceed 100 nanocuries per gram of waste material independent of the level of beta-gamma activity. These wastes are produced primarily from reprocessing spent fuel and from the use of plutonium in the fabrication of nuclear weapons. (3) Wastes that are contaminated with radioactive elements heavier than uranium, thus the name trans-(or beyond) uranic.

TRUCON – See TRUPACT-II Content Codes.

TRUPACT-II Content Codes (TRUCON) – The document containing a description of the waste stream, waste form, and package configuration for each waste content code authorized for shipment in TRUPACT-II containers.

Uranium (U) – A naturally radioactive element with the atomic number of 92 (number of protons in the nucleus) and an atomic weight of approximately 238. The two principal naturally occurring isotopes are the fissionable U-235 (0.7 percent of natural uranium) and the fertile U-238 (99.3 percent of natural uranium). (Note: An alpha emitter [half-life 159,000 y], U-233 also spontaneously fissions; it is present in finite quantities in some TRU waste inventories at INEL, LANL, and ORNL.)

Waste Acceptance Criteria (WAC) – The criteria used to determine if waste packages are acceptable. For the purposes of this document, WAC refers to WIPP WAC.

Waste Form – The physical form of the waste such as sludges, combustibles, metals, etc.

Waste Generator/Storage Sites – The 10 largest DOE facilities and several smaller sites throughout the U.S. that generate and store TRU waste.

Waste Isolation Pilot Plant (WIPP) – (1) The project authorized under Section 213 of the DOE National Security and Military Applications of Nuclear Energy Authorization Act of 1980 (Public Law 96-164; 93 Stat. 1259, 1265) to demonstrate the safe, and environmentally sound, disposal of radioactive waste materials generated by atomic energy defense activities. (2) A research and development facility, located near Carlsbad, New Mexico, to be used for demonstrating a practical, long-term solution to a complex problem: the safe disposal in deep geologic repositories of TRU waste resulting from DOE activities.

Waste Material Parameter – A waste material that occurs in TRU waste that is an input parameter into one or more current PA models or PA model under development, a potential future model, or is required to adequately describe the waste form.

Waste Matrix Code (WMC) – A DOE-developed coding system for grouping waste streams that have similar matrix constituents especially for treatment objectives. This coding system allows waste streams within the DOE TRU waste system that have similar physical and chemical waste form properties to be categorized together. WMCs also have been called "waste treatability codes" in other DOE documents. An example of a WMC for "heterogeneous waste" would be 5400 (DOE, 1995b).

Waste Stream – A flow of waste materials with specific definable characteristics that remain the same throughout the life of the process generating the waste stream.

Waste Stream Name – A site-specific, unique descriptive identifier for a TRU waste stream.

Waste Stream Profile – A description of a CH-TRU or RH-TRU waste stream destined for shipment to and disposal in WIPP, if authorized under permits and certifications by appropriate regulatory agencies for disposal in the WIPP repository. The waste stream profile is presented in tabular format and is intended to provide a summary of the important information about a particular waste stream.

Waste Stream Site ID – A *site-specific alphanumeric identification code which provides a unique* identifier for an individual TRU waste stream.

Waste Sub-stream – A waste sub-stream is one that results from a waste stream being divided into two or more fractions (for the purposes of reporting) in order to provide an additional level of detail about a site's current plans for repackaging or treating the waste.

WIPP Waste Profile – Represents a summary of TRU waste at all DOE TRU waste generator/storage sites that have an identical Final Waste Form.

CHAPTER 8

8. REFERENCES

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DOE – See U.S. Department of Energy.

EPA – See U.S. Environmental Protection Agency.

NRC – See U.S. Nuclear Regulatory Commission

SNL/NM – See Sandia National Laboratory/NM

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Transuranic Waste Baseline Inventory Report (Revision 2)

December 1995

Prepared by Carlsbad Area Office Technical Assistance Contractor
for U.S. Department of Energy
under Contract No. DE-AC04-95AL-89446

Volume 2

APPENDIX A

Site-Specific Contact Handled Waste Profiles

Site Name: Ames Laboratory - Iowa State Univ.

Final Waste Form: Solidified Inorganics

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
AL-W005	0.0000	0.4160	0.4160
Total Volume:	**0.00**	**0.42**	**0.42**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	0.0	0.0	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	0.0	0.0	0.0
Other Inorganic Materials	528.8	394.2	173.1
Vitrified	0.0	0.0	0.0
Cellulosics	0.0	0.0	0.0
Rubber	0.0	0.0	0.0
Plastics	0.0	0.0	0.0
Solidified Inorganic Material	528.6	399.0	173.1
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Argonne National Laboratory - East

Final Waste Form: Lead/Cadmium Metal Waste

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
AE-W041	0.6240	0.6240	1.2480
AE-W042	0.4440	0.6660	1.1100
Total Volume:	**1.07**	**1.29**	**2.36**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	256.1	120.6	0.0
Aluminum Base Metal/Alloys	27.8	13.1	0.0
Other Metal/Alloys	913.5	171.9	24.7
Other Inorganic Materials	29.3	13.8	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	45.3	3.5	0.0
Rubber	0.0	0.0	0.0
Plastics	67.6	7.1	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Argonne National Laboratory - East

Final Waste Form: Solidified Inorganics

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
AE-W038	4.7840	0.0000	4.7840
AE-W040	0.4160	0.0000	0.4160
Total Volume:	**5.20**	**0.00**	**5.20**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	0.0	0.0	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	0.0	0.0	0.0
Other Inorganic Materials	528.8	124.5	101.0
Vitrified	0.0	0.0	0.0
Cellulosics	0.0	0.0	0.0
Rubber	0.0	0.0	0.0
Plastics	0.0	0.0	0.0
Solidified Inorganic Material	528.8	230.9	168.3
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Argonne National Laboratory - East

Final Waste Form: Solidified Organics

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
AE-W039	0.2080	0.0000	0.2080
Total Volume:	**0.21**	**0.00**	**0.21**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	0.0	0.0	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	0.0	0.0	0.0
Other Inorganic Materials	548.1	351.0	28.8
Vitrified	0.0	0.0	0.0
Cellulosics	0.0	0.0	0.0
Rubber	0.0	0.0	0.0
Plastics	0.0	0.0	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	726.0	346.2	101.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Argonne National Laboratory - East

Final Waste Form: Uncategorized Metal

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
AE-T003	4.9920	128.5440	133.5360
Total Volume:	**4.99**	**128.54**	**133.54**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	0.0	0.0	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	913.5	302.9	76.9
Other Inorganic Materials	0.0	0.0	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	0.0	0.0	0.0
Rubber	0.0	0.0	0.0
Plastics	0.0	0.0	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Argonne National Laboratory - West

Final Waste Form: Combustible

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
AW-N027.531	0.0000	2.0415	2.0415
AW-T032.1324	0.0000	99.6015	99.6015
Total Volume:	**0.00**	**101.64**	**101.64**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	112.8	109.7	108.2
Aluminum Base Metal/Alloys	0.2	0.2	0.2
Other Metal/Alloys	41.9	10.4	8.5
Other Inorganic Materials	14.8	8.7	3.9
Vitrified	0.0	0.0	0.0
Cellulosics	314.5	191.3	61.2
Rubber	71.4	30.2	22.8
Plastics	101.6	59.0	38.8
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Argonne National Laboratory - West

Final Waste Form: Heterogeneous

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
AW-N026.82	4.2525	0.0000	4.2525
AW-T033.1325	2.2880	24.5005	26.7885
AW-T034.1327	0.0000	320.8525	320.8525
Total Volume:	**6.54**	**345.35**	**351.89**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	566.8	235.5	207.8
Aluminum Base Metal/Alloys	55.9	42.3	41.8
Other Metal/Alloys	48.8	7.1	2.4
Other Inorganic Materials	95.2	52.3	47.5
Vitrified	0.0	0.0	0.0
Cellulosics	300.1	81.4	18.7
Rubber	67.5	17.9	6.8
Plastics	191.9	67.8	22.9
Solidified Inorganic Material	8.9	4.7	4.4
Solidified Organic Material	5.4	0.8	0.6
Cement (Solidified)	0.0	0.0	0.0
Soils	3.1	3.0	3.0

Site-Specific Contact Handled Waste Profiles

Site Name: Argonne National Laboratory - West

Final Waste Form: Uncategorized Metal

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
AW-T030.1321	0.0000	293.7610	293.7610
Total Volume:	**0.00**	**293.76**	**293.76**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	223.5	126.9	90.3
Aluminum Base Metal/Alloys	6.9	2.4	1.7
Other Metal/Alloys	406.9	266.5	214.2
Other Inorganic Materials	21.4	14.6	10.2
Vitrified	0.0	0.0	0.0
Cellulosics	12.7	8.3	6.7
Rubber	1.5	0.5	0.3
Plastics	11.4	5.4	1.8
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Bettis Atomic Power Laboratory

Final Waste Form: Heterogeneous

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
BT-T002	0.0000	15.1200	15.1200
BT-T003	0.0000	107.7300	107.7300
BT-T004	0.0000	0.2080	0.2080
BT-T005	0.0000	0.2080	0.2080
Total Volume:	**0.00**	**123.27**	**123.27**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	700.0	301.8	0.0
Aluminum Base Metal/Alloys	40.0	4.3	0.0
Other Metal/Alloys	10.0	0.1	0.0
Other Inorganic Materials	40.0	14.1	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	20.0	7.1	0.0
Rubber	10.0	0.9	0.0
Plastics	40.0	4.3	0.0
Solidified Inorganic Material	4.8	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	10.0	0.1	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Energy Technology Engineering Center

Final Waste Form: Heterogeneous

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
ET-T001B	1.6800	0.0000	1.6800
Total Volume:	**1.68**	**0.00**	**1.68**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	566.8	235.5	207.8
Aluminum Base Metal/Alloys	55.9	42.3	41.8
Other Metal/Alloys	48.8	7.1	2.4
Other Inorganic Materials	95.2	52.3	47.5
Vitrified	0.0	0.0	0.0
Cellulosics	300.1	81.4	18.7
Rubber	67.5	17.9	6.8
Plastics	191.9	67.8	22.9
Solidified Inorganic Material	8.9	4.7	4.4
Solidified Organic Material	5.4	0.8	0.6
Cement (Solidified)	0.0	0.0	0.0
Soils	3.1	3.0	3.0

Site-Specific Contact Handled Waste Profiles

Site Name: Hanford (Richland) Site

Final Waste Form: Combustible

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
RL-W278	0.4160	0.0000	0.4160
RL-W289	2.0800	0.0000	2.0800
RL-W293	1.2480	0.0000	1.2480
RL-W296	3.1616	0.0000	3.1616
RL-W298	16.5900	0.4160	17.0060
RL-W300	0.4160	0.0000	0.4160
RL-W305	2.0800	8.3200	10.4000
RL-W309	0.2080	0.0000	0.2080
RL-W314	4.5760	17.0560	21.6320
RL-W321	0.2080	0.0000	0.2080
RL-W322	0.8320	2.2880	3.1200
RL-W325	0.4160	1.2480	1.6640
RL-W331	50.7860	101.5360	152.3220
RL-W335	2.0980	0.0000	2.0980
RL-W340	0.2080	0.0000	0.2080
RL-W343	0.6240	0.0000	0.6240
RL-W347	0.2080	0.0000	0.2080
RL-W356	1.2480	0.0000	1.2480
RL-W360	4.7840	0.0000	4.7840
RL-W365	11.8560	7.9040	19.7600
RL-W368	0.6240	0.6240	1.2480
RL-W371	6.0680	2.2880	8.3560
RL-W372	0.4160	0.0000	0.4160

Site-Specific Contact Handled Waste Profiles

Site Name: Hanford (Richland) Site

Final Waste Form: Combustible

RL-W377	303.7880	1018.7100	1322.4980
RL-W378	16.7840	43.8140	60.5980
RL-W384	0.6240	0.0000	0.6240
RL-W388	16.7300	0.6240	17.3540
RL-W389	0.2080	0.0000	0.2080
RL-W397	3.5360	7.9040	11.4400
RL-W398	0.2080	0.0000	0.2080
RL-W401	0.6240	32.4480	33.0720
RL-W404	2.0800	2.0800	4.1600
Total Volume:	**455.73**	**1247.26**	**1702.99**

Site-Specific Contact Handled Waste Profiles

Site Name: Hanford (Richland) Site

Final Waste Form: Combustible

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	144.2	17.7	0.0
Aluminum Base Metal/Alloys	4.9	0.0	0.0
Other Metal/Alloys	185.5	0.8	0.0
Other Inorganic Materials	80.2	3.5	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	103.0	40.7	0.0
Rubber	105.4	18.1	0.0
Plastics	283.8	48.9	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	7.0	0.3	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	7.5	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Hanford (Richland) Site

Final Waste Form: Heterogeneous

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
RL-T101	567.9440	0.0000	567.9440
RL-T102	200.1240	0.0000	200.1240
RL-T104	4.9920	0.0000	4.9920
RL-T105	80.4040	0.0000	80.4040
RL-T106	8.1120	0.0000	8.1120
RL-T107	6156.0920	0.0000	6156.0920
RL-T108	192.6200	0.0000	192.6200
RL-T109	19.7200	0.0000	19.7200
RL-T110	494.0320	0.0000	494.0320
RL-T112	137.7360	0.0000	137.7360
RL-T113	42.7960	0.0000	42.7960
RL-T114	19.5800	0.0000	19.5800
RL-T115	1025.4320	0.0000	1025.4320
RL-T116	11.0240	0.0000	11.0240
RL-T118	261.9600	0.0000	261.9600
RL-T120	133.8120	0.0000	133.8120
RL-T122	29.3040	0.0000	29.3040
RL-T123	0.6240	0.0000	0.6240
RL-T125	15.1840	0.0000	15.1840
RL-T127	283.6040	0.0000	283.6040
RL-T128	0.4160	0.0000	0.4160
RL-T129	28.7480	0.0000	28.7480
RL-T130	0.2080	0.0000	0.2080

Site-Specific Contact Handled Waste Profiles

Site Name: Hanford (Richland) Site

Final Waste Form: Heterogeneous

RL-T131	30.1600	0.0000	30.1600
RL-T132	28.7040	0.0000	28.7040
RL-T133	0.2080	0.0000	0.2080
RL-T134	0.2080	0.0000	0.2080
RL-T135	0.4160	0.0000	0.4160
RL-T137	151.6320	0.0000	151.6320
RL-T140	138.1120	0.0000	138.1120
RL-T143	403.7120	0.0000	403.7120
RL-T145	711.1920	0.0000	711.1920
RL-W279	6.9264	0.0000	6.9264
RL-W294	1.0400	0.0000	1.0400
RL-W301	0.6240	0.0000	0.6240
RL-W302	0.4160	0.0000	0.4160
RL-W303	0.2080	0.0000	0.2080
RL-W304	2.5140	0.0000	2.5140
RL-W379	0.2080	0.0000	0.2080
RL-W408	0.0000	763.7760	763.7760
RL-W410	0.0000	83.1600	83.1600
RL-W411	0.0000	34.0200	34.0200
RL-W412	0.0000	34.0200	34.0200
RL-W415	0.0000	2449.4400	2449.4400
RL-W417	0.0000	1.9845	1.9845
RL-W437	0.0000	759.4080	759.4080
RL-W438	0.0000	1096.3880	1096.3880
RL-W440	0.0000	206.2260	206.2260

Site-Specific Contact Handled Waste Profiles

Site Name: Hanford (Richland) Site

Final Waste Form: Heterogeneous

RL-W441	0.0000	0.2080	0.2080
RL-W442	0.0000	5.6700	5.6700
RL-W443	0.0000	668.5120	668.5120
RL-W444	0.0000	168.4760	168.4760
Total Volume:	**11190.75**	**6271.29**	**17462.04**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	706.7	491.7	0.0
Aluminum Base Metal/Alloys	168.9	99.3	0.0
Other Metal/Alloys	479.2	2.6	0.0
Other Inorganic Materials	95.2	45.1	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	300.1	64.0	2.7
Rubber	67.5	19.8	0.0
Plastics	191.9	64.2	0.8
Solidified Inorganic Material	15.0	7.6	0.0
Solidified Organic Material	331.6	0.3	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	18.2	6.4	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Hanford (Richland) Site

Final Waste Form: Inorganic Non-Metal

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
RL-W292	0.2080	0.0000	0.2080
RL-W315	0.4160	0.4160	0.8320
RL-W336	0.4160	0.0000	0.4160
RL-W342	0.8320	0.0000	0.8320
RL-W352	0.2080	0.0000	0.2080
RL-W353	0.8320	0.0000	0.8320
RL-W358	2.4960	0.0000	2.4960
RL-W364	2.0800	1.4560	3.5360
RL-W367	2.9120	2.0800	4.9920
RL-W376	16.2240	53.2480	69.4720
RL-W387	1.4560	0.2080	1.6640
RL-W392	0.2080	0.0000	0.2080
RL-W393	5.4080	9.3600	14.7680
RL-W400	0.2080	2.2880	2.4960
RL-W403	0.6240	0.0000	0.6240
RL-W405	0.2080	0.0000	0.2080
Total Volume:	**34.74**	**69.06**	**103.79**

Site-Specific Contact Handled Waste Profiles

Site Name: Hanford (Richland) Site

Final Waste Form: Inorganic Non-Metal

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	59.5	17.6	0.0
Aluminum Base Metal/Alloys	3.9	0.1	0.0
Other Metal/Alloys	76.6	0.8	0.0
Other Inorganic Materials	463.5	129.4	52.2
Vitrified	0.0	0.0	0.0
Cellulosics	28.8	16.1	0.0
Rubber	47.6	9.0	0.0
Plastics	166.9	31.8	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.9	0.1	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	1.5	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Hanford (Richland) Site

Final Waste Form: Lead/Cadmium Metal Waste

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
RL-W277	0.6048	0.0000	0.6048
RL-W287	0.4160	0.0000	0.4160
RL-W290	2.2880	0.0000	2.2880
RL-W306	0.8320	2.2880	3.1200
RL-W311	4.4096	13.1040	17.5136
RL-W312	2.2880	8.5280	10.8160
RL-W317	1.0400	2.2880	3.3280
RL-W318	1.6640	8.3200	9.9840
RL-W339	0.4160	0.0000	0.4160
RL-W349	0.2080	0.0000	0.2080
Total Volume:	**14.17**	**34.53**	**48.69**

Site-Specific Contact Handled Waste Profiles

Site Name: Hanford (Richland) Site

Final Waste Form: Lead/Cadmium Metal Waste

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	345.0	14.0	0.0
Aluminum Base Metal/Alloys	43.1	0.2	0.0
Other Metal/Alloys	1380.9	139.5	23.5
Other Inorganic Materials	38.4	4.5	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	87.9	14.2	1.7
Rubber	125.5	96.0	0.0
Plastics	91.7	36.1	4.3
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.9	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Hanford (Richland) Site

Final Waste Form: Soils

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
RL-T103	99.6320	0.0000	99.6320
RL-W283	11.6480	0.0000	11.6480
RL-W310	0.2912	0.2080	0.4992
RL-W316	0.2080	0.0000	0.2080
RL-W323	0.6240	2.0800	2.7040
RL-W351	0.2080	0.0000	0.2080
RL-W354	0.2080	0.0000	0.2080
RL-W381	6.2400	23.7120	29.9520
RL-W406	0.4160	0.0000	0.4160
RL-W439	0.0000	5935.6961	5935.6961
Total Volume:	**119.48**	**5961.70**	**6081.17**

Site-Specific Contact Handled Waste Profiles

Site Name: Hanford (Richland) Site

Final Waste Form: Soils

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	29.1	1.8	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	0.0	0.0	0.0
Other Inorganic Materials	17.4	1.1	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	68.7	3.9	0.0
Rubber	56.4	1.8	0.0
Plastics	131.0	3.4	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	138.2	0.1	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	1055.7	744.1	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Hanford (Richland) Site

Final Waste Form: Solidified Inorganics

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
RL-W281	0.3744	0.0000	0.3744
RL-W383	9.4500	0.0000	9.4500
RL-W394	3.1200	7.0720	10.1920
Total Volume:	**12.94**	**7.07**	**20.02**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	34.6	32.7	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	0.0	0.0	0.0
Other Inorganic Materials	49.4	26.7	21.7
Vitrified	0.0	0.0	0.0
Cellulosics	17.4	8.8	0.0
Rubber	2.4	1.2	0.0
Plastics	32.4	22.7	0.3
Solidified Inorganic Material	641.3	338.1	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.6	0.3	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Hanford (Richland) Site

Final Waste Form: Solidified Organics

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
RL-W280	0.2080	0.0000	0.2080
RL-W282	0.3328	0.0000	0.3328
RL-W285	1.2064	0.0000	1.2064
RL-W286	0.2080	0.0000	0.2080
RL-W326	1.8720	8.3200	10.1920
RL-W338	0.2080	0.0000	0.2080
RL-W344	0.2080	0.0000	0.2080
RL-W345	2.0800	1.0400	3.1200
RL-W348	0.2080	0.0000	0.2080
RL-W361	0.6240	0.0000	0.6240
RL-W380	0.2080	0.0000	0.2080
Total Volume:	**7.36**	**9.36**	**16.72**

Site-Specific Contact Handled Waste Profiles

Site Name: Hanford (Richland) Site

Final Waste Form: Solidified Organics

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	74.3	6.9	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	1.0	0.0	0.0
Other Inorganic Materials	162.3	70.7	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	48.4	11.9	0.0
Rubber	18.6	0.6	0.0
Plastics	126.5	60.2	1.5
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	110.2	1.6	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	137.2	8.5	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Hanford (Richland) Site

Final Waste Form: Uncategorized Metal

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
RL-W288	1.0400	0.0000	1.0400
RL-W291	7.9760	0.0000	7.9760
RL-W295	1.8720	0.0000	1.8720
RL-W297	1.6640	0.0000	1.6640
RL-W299	0.6240	0.0000	0.6240
RL-W307	1.8900	0.0000	1.8900
RL-W308	0.4160	0.2080	0.6240
RL-W313	9.2240	15.8800	25.1040
RL-W319	7.5600	0.0000	7.5600
RL-W320	1.6640	8.3200	9.9840
RL-W324	3.7800	0.0000	3.7800
RL-W330	32.1300	37.8000	69.9300
RL-W341	0.2080	0.0000	0.2080
RL-W346	0.4160	0.0000	0.4160
RL-W350	0.2080	0.0000	0.2080
RL-W355	2.0800	0.0000	2.0800
RL-W359	16.6400	0.0000	16.6400
RL-W362	2.9120	2.0800	4.9920
RL-W363	0.2080	0.2080	0.4160
RL-W369	33.4960	19.3440	52.8400
RL-W370	0.4160	0.0000	0.4160
RL-W373	80.2120	1.2480	81.4600
RL-W374	182.4020	396.5860	578.9880

Site-Specific Contact Handled Waste Profiles

Site Name: Hanford (Richland) Site

Final Waste Form: Uncategorized Metal

RL-W375	21.6220	37.9900	59.6120
RL-W385	8.1120	0.6240	8.7360
RL-W386	0.4160	0.0000	0.4160
RL-W390	0.6240	0.0000	0.6240
RL-W395	23.3860	22.8800	46.2660
RL-W396	0.2080	0.0000	0.2080
RL-W399	0.2080	3.5360	3.7440
RL-W402	1.2480	2.0800	3.3280
RL-W407	0.0000	542.7000	542.7000
RL-W409	0.0000	7800.8399	7800.8399
RL-W413	0.0000	842.4000	842.4000
RL-W414	0.0000	8.7035	8.7035
RL-W416	0.0000	9049.3199	9049.3199
RL-W418	0.0000	842.4000	842.4000
Total Volume:	**444.86**	**19635.15**	**20080.01**

Site-Specific Contact Handled Waste Profiles

Site Name: Hanford (Richland) Site

Final Waste Form: Uncategorized Metal

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	2595.2	123.9	0.0
Aluminum Base Metal/Alloys	6.9	2.3	0.0
Other Metal/Alloys	442.2	253.5	0.0
Other Inorganic Materials	55.8	13.9	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	63.4	8.5	0.0
Rubber	113.7	0.7	0.0
Plastics	104.6	6.1	0 0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.1	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	3.5	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Combustible

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
IN-W186.187	2695.2643	0.0000	2695.2643
IN-W198.202	119.6000	0.0000	119.6000
IN-W198.804	32.8230	0.0000	32.8230
IN-W199.1039	0.8885	0.0000	0.8885
IN-W202.1092	0.8885	0.0000	0.8885
IN-W202.224	109.6160	0.0000	109.6160
IN-W205.1086	0.8320	0.0000	0.8320
IN-W205.220	0.6805	0.0000	0.6805
IN-W250.259	14.0670	0.0000	14.0670
IN-W250.941	50.9600	0.0000	50.9600
IN-W252.283	117.7280	0.0000	117.7280
IN-W252.811	32.8230	0.0000	32.8230
IN-W254.289	2.3445	0.0000	2.3445
IN-W254.290	7.2800	0.0000	7.2800
IN-W256.1062	20.5920	0.0000	20.5920
IN-W256.295	5.9935	0.0000	5.9935
IN-W269.510	5.9935	0.0000	5.9935
IN-W269.535	20.8000	0.0000	20.8000
IN-W305.1068	37.4400	0.0000	37.4400
IN-W305.828	10.6825	0.0000	10.6825
IN-W327.1085	3.5360	0.0000	3.5360
IN-W327.735	1.3045	0.0000	1.3045
IN-W330.677	6.0320	0.0000	6.0320

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Combustible

IN-W330.678	1.9285	0.0000	1.9285
IN-W336.660	4.1600	0.0000	4.1600
IN-W336.820	0.6805	0.0000	0.6805
Total Volume:	**3304.94**	**0.00**	**3304.94**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	112.8	1.7	0.0
Aluminum Base Metal/Alloys	0.2	0.0	0.0
Other Metal/Alloys	474.5	7.8	0.0
Other Inorganic Materials	119.0	6.1	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	961.5	480.0	0.0
Rubber	629.0	75.4	0.0
Plastics	706.7	146.0	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Filter

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
IN-W206.935	10.8905	0.0000	10.8905
IN-W207.980	0.8885	0.0000	0.8885
IN-W207.981	0.4160	0.0000	0.4160
IN-W208.988	2.3445	0.0000	2.3445
IN-W209.994	10.2665	0.0000	10.2665
IN-W210.1001	1.0965	0.0000	1.0965
IN-W211.1009	98.4690	0.0000	98.4690
IN-W212.1058	3.4410	0.0000	3.4410
IN-W213.1069	1.9285	0.0000	1.9285
IN-W214.1075	0.6240	0.0000	0.6240
IN-W214.755	0.6805	0.0000	0.6805
Total Volume:	**131.05**	**0.00**	**131.05**

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Filter

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	10.6	5.2	0.0
Aluminum Base Metal/Alloys	57.4	12.4	0.0
Other Metal/Alloys	1.6	0.8	0.0
Other Inorganic Materials	293.3	16.3	2.4
Vitrified	0.0	0.0	0.0
Cellulosics	341.9	55.8	0.5
Rubber	17.0	3.3	0.0
Plastics	23.3	4.5	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Graphite

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
IN-W271.532	0.8885	0.0000	0.8885
IN-W272.504	0.8885	0.0000	0.8885
IN-W272.974	1.6640	0.0000	1.6640
IN-W275.502	1.7205	0.0000	1.7205
IN-W275.967	5.2000	0.0000	5.2000
IN-W276.500	86.7465	0.0000	86.7465
IN-W276.966	313.4560	0.0000	313.4560
IN-W367.973	4.6890	0.0000	4.6890
IN-W368.971	1.0965	0.0000	1.0965
IN-W369.837	3.2330	0.0000	3.2330
IN-W369.970	9.9840	0.0000	9.9840
IN-W370.836	15.1635	0.0000	15.1635
IN-W370.929	53.4560	0.0000	53.4560
Total Volume:	**498.19**	**0.00**	**498.19**

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Graphite

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	764.4	0.5	0.0
Aluminum Base Metal/Alloys	38.2	0.0	0.0
Other Metal/Alloys	46.6	0.0	0.0
Other Inorganic Materials	812.5	303.6	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	9.8	5.4	0.0
Rubber	0.0	0.0	0.0
Plastics	51.4	6.3	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Heterogeneous

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
IN-W139.627	12.2720	0.0000	12.2720
IN-W169.191	4267.1201	0.0000	4267.1201
IN-W169.985	41.7850	0.0000	41.7850
IN-W170.189	0.6805	0.0000	0.6805
IN-W170.938	0.4160	0.0000	0.4160
IN-W171.184	3.5360	0.0000	3.5360
IN-W171.801	0.6805	0.0000	0.6805
IN-W172.182	132.4960	0.0000	132.4960
IN-W172.911	36.8880	0.0000	36.8880
IN-W189.1048	4.9920	0.0000	4.9920
IN-W189.131	1.7205	0.0000	1.7205
IN-W197.802	510.2240	0.0000	510.2240
IN-W197.803	45.2260	0.0000	45.2260
IN-W203.1081	0.6805	0.0000	0.6805
IN-W203.210	73.2160	0.0000	73.2160
IN-W204.215	0.8885	0.0000	0.8885
IN-W204.216	1.6640	0.0000	1.6640
IN-W225.127	21.6320	0.0000	21.6320
IN-W225.800	1.0965	0.0000	1.0965
IN-W259.552	10.0585	0.0000	10.0585
IN-W265.516	7.9220	0.0000	7.9220
IN-W278.1090	0.8885	0.0000	0.8885
IN-W281.487	317.8240	0.0000	317.8240

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Heterogeneous

IN-W283.481	0.2080	0.0000	0.2080
IN-W283.534	0.6805	0.0000	0.6805
IN-W285.471	63.0240	0.0000	63.0240
IN-W285.815	2.3445	0.0000	2.3445
IN-W289.466	25.3760	0.0000	25.3760
IN-W291.454	0.6805	0.0000	0.6805
IN-W291.456	634.4000	0.0000	634.4000
IN-W298.812	15.3715	0.0000	15.3715
IN-W302.299	23.4450	0.0000	23.4450
IN-W302.913	84.8640	0.0000	84.8640
IN-W306.633	2361.2160	0.0000	2361.2160
IN-W306.817	998.8135	0.0000	998.8135
IN-W308.816	864.9125	0.0000	864.9125
IN-W323.562	0.8885	0.0000	0.8885
IN-W325.1076	0.4160	0.0000	0.4160
IN-W325.679	0.6805	0.0000	0.6805
IN-W329.681	0.8885	0.0000	0.8885
IN-W334.675	1.5125	0.0000	1.5125
IN-W334.961	4.5760	0.0000	4.5760
IN-W338.657	0.8885	0.0000	0.8885
IN-W338.956	1.0400	0.0000	1.0400
IN-W339.655	2.1365	0.0000	2.1365
IN-W339.955	7.0720	0.0000	7.0720
IN-W341.671	0.2080	0.0000	0.2080
IN-W341.954	0.6805	0.0000	0.6805

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Heterogeneous

IN-W345.669	14.3520	0.0000	14.3520
IN-W345.819	0.8885	0.0000	0.8885
IN-W350.650	0.6805	0.0000	0.6805
IN-W350.923	0.2080	0.0000	0.2080
IN-W351.648	0.8885	0.0000	0.8885
IN-W351.922	1.2480	0.0000	1.2480
Total Volume:	**10608.50**	**0.00**	**10608.50**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	1634.6	82.2	0.0
Aluminum Base Metal/Alloys	55.9	5.6	0.0
Other Metal/Alloys	233.0	16.3	0.0
Other Inorganic Materials	1442.3	19.7	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	961.5	106.1	0.0
Rubber	330.0	29.3	0.0
Plastics	887.0	116.2	0.0
Solidified Inorganic Material	8.9	0.5	0.0
Solidified Organic Material	5.4	0.1	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	144.2	0.3	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Inorganic Non-Metal

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
IN-W157.907	9.3600	0.0000	9.3600
IN-W159.120	0.4160	0.0000	0.4160
IN-W161.231	97.5520	0.0000	97.5520
IN-W161.806	15.7875	0.0000	15.7875
IN-W163.234	0.4160	0.0000	0.4160
IN-W169.192	14.5600	0.0000	14.5600
IN-W187.121	0.2080	0.0000	0.2080
IN-W197.196	2.2880	0.0000	2.2880
IN-W198.203	0.2080	0.0000	0.2080
IN-W199.209	0.2080	0.0000	0.2080
IN-W203.211	3.3280	0.0000	3.3280
IN-W205.1087	0.2080	0.0000	0.2080
IN-W206.936	22.4640	0.0000	22.4640
IN-W207.238	0.2080	0.0000	0.2080
IN-W208.242	1.4560	0.0000	1.4560
IN-W209.244	3.1200	0.0000	3.1200
IN-W210.247	0.2080	0.0000	0.2080
IN-W211.249	22.4640	0.0000	22.4640
IN-W212.251	150.5920	0.0000	150.5920
IN-W213.252	0.4160	0.0000	0.4160
IN-W216.99	255.0080	0.0000	255.0080
IN-W218.109	183.8720	0.0000	183.8720
IN-W219.110	3.9520	0.0000	3.9520

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Inorganic Non-Metal

IN-W222.117	39.1040	0.0000	39.1040
IN-W228.102	198.8480	0.0000	198.8480
IN-W230.229	4.2730	0.0000	4.2730
IN-W230.940	14.7680	0.0000	14.7680
IN-W240.272	167.6480	0.0000	167.6480
IN-W240.931	1.9285	0.0000	1.9285
IN-W243.274	174.3040	0.0000	174.3040
IN-W243.275	7.2800	0.0000	7.2800
IN-W243.808	46.0580	0.0000	46.0580
IN-W245.1034	0.2080	0.0000	0.2080
IN-W245.301	37.5120	0.0000	37.5120
IN-W245.302	133.7440	0.0000	133.7440
IN-W247.1038	0.2080	0.0000	0.2080
IN-W247.810	27.5100	0.0000	27.5100
IN-W249.1071	2.2880	0.0000	2.2880
IN-W249.527	1.0965	0.0000	1.0965
IN-W252.1000	0.2080	0.0000	0.2080
IN-W254.1044	0.2080	0.0000	0.2080
IN-W257.558	0.2080	0.0000	0.2080
IN-W259.920	2.4960	0.0000	2.4960
IN-W260.565	0.2080	0.0000	0.2080
IN-W265.517	0.6240	0.0000	0.6240
IN-W267.1005	1.0965	0.0000	1.0965
IN-W267.514	1.2480	0.0000	1.2480
IN-W278.495	4.1600	0.0000	4.1600

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Inorganic Non-Metal

IN-W281.488	0.6240	0.0000	0.6240
IN-W283.963	0.2080	0.0000	0.2080
IN-W291.455	1.4560	0.0000	1.4560
IN-W294.1057	0.4160	0.0000	0.4160
IN-W296.329	520.2080	0.0000	520.2080
IN-W298.979	0.4160	0.0000	0.4160
IN-W306.632	187.2000	0.0000	187.2000
IN-W308.618	503.5680	0.0000	503.5680
IN-W309.609	108.5760	0.0000	108.5760
IN-W317.1028	0.2080	0.0000	0.2080
IN-W319.583	0.2080	0.0000	0.2080
IN-W321.578	0.2080	0.0000	0.2080
IN-W322.851	0.8885	0.0000	0.8885
IN-W322.952	1.6640	0.0000	1.6640
IN-W323.951	0.2080	0.0000	0.2080
IN-W329.682	0.2080	0.0000	0.2080
IN-W337.673	0.2080	0.0000	0.2080
IN-W337.957	0.6805	0.0000	0.6805
IN-W348.846	4.1600	0.0000	4.1600
IN-W357.1022	0.6805	0.0000	0.6805
IN-W357.850	0.2080	0.0000	0.2080
IN-W358.948	0.2080	0.0000	0.2080
IN-W361.1021	1.5125	0.0000	1.5125
IN-W361.849	2.0800	0.0000	2.0800
IN-W362.1020	5.3695	0.0000	5.3695

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Inorganic Non-Metal

IN-W362.848	8.7360	0.0000	8.7360
IN-W363.1019	0.8885	0.0000	0.8885
IN-W363.847	1.0400	0.0000	1.0400
IN-W364.1011	0.8885	0.0000	0.8885
IN-W364.844	0.6240	0.0000	0.6240
IN-W365.1010	1.3045	0.0000	1.3045
IN-W365.842	1.0400	0.0000	1.0400
IN-W366.1004	2.0800	0.0000	2.0800
IN-W366.841	1.0965	0.0000	1.0965
IN-W367.840	0.2080	0.0000	0.2080
IN-W368.839	0.2080	0.0000	0.2080
IN-W373.1003	0.6805	0.0000	0.6805
IN-W373.830	0.2080	0.0000	0.2080
IN-W374.1091	2.0800	0.0000	2.0800
IN-W374.829	2.3445	0.0000	2.3445
IN-W375.827	7.9040	0.0000	7.9040
Total Volume:	**3028.24**	**0.00**	**3028.24**

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Inorganic Non-Metal

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	4.3	0.0	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	13.1	0.1	0.0
Other Inorganic Materials	1250.0	63.1	0.0
Vitrified	2500.0	1896.1	0.0
Cellulosics	850.0	19.1	0.0
Rubber	8.7	0.1	0.0
Plastics	69.9	3.7	0.0
Solidified Inorganic Material	69.9	1.8	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	865.8	0.0	0.0

M

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Lead/Cadmium Metal Waste

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
IN-W260.566	8.3380	0.0000	8.3380
IN-W260.916	6.0320	0.0000	6.0320
Total Volume:	**14.37**	**0.00**	**14.37**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	345.0	115.6	4.7
Aluminum Base Metal/Alloys	43.1	14.2	0.2
Other Metal/Alloys	163.3	128.9	104.7
Other Inorganic Materials	29.2	10.0	0.6
Vitrified	0.0	0.0	0.0
Cellulosics	7.1	3.4	1.7
Rubber	17.4	13.2	11.2
Plastics	49.6	19.1	4.3
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.9	0.9	0.9
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Salt Waste

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
IN-W311.1013	5.4080	0.0000	5.4080
IN-W311.604	1.7205	0.0000	1.7205
IN-W312.602	1.0965	0.0000	1.0965
IN-W312.942	2.7040	0.0000	2.7040
IN-W314.1017	1.0400	0.0000	1.0400
IN-W314.606	0.6805	0.0000	0.6805
IN-W354.1016	0.2080	0.0000	0.2080
IN-W354.858	0.6805	0.0000	0.6805
IN-W355.1015	1.0400	0.0000	1.0400
IN-W355.857	0.8885	0.0000	0.8885
IN-W356.1014	3.7440	0.0000	3.7440
IN-W356.856	1.3045	0.0000	1.3045
Total Volume:	**20.52**	**0.00**	**20.52**

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Salt Waste

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	57.7	11.2	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	212.0	39.1	0.0
Other Inorganic Materials	625.0	208.2	2.9
Vitrified	0.0	0.0	0.0
Cellulosics	26.2	4.4	0.0
Rubber	0.0	0.0	0.0
Plastics	35.0	5.9	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

M

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Solidified Inorganics

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
IN-W146.699	2.2880	0.0000	2.2880
IN-W159.1072	0.6805	0.0000	0.6805
IN-W163.1007	0.6805	0.0000	0.6805
IN-W166.151	15.9955	0.0000	15.9955
IN-W166.928	56.7840	0.0000	56.7840
IN-W174.1082	30.3680	0.0000	30.3680
IN-W174.154	134.3170	0.0000	134.3170
IN-W177.1083	141.0240	0.0000	141.0240
IN-W177.156	39.2325	0.0000	39.2325
IN-W179.1084	4.5760	0.0000	4.5760
IN-W179.158	1.5125	0.0000	1.5125
IN-W181.162	9.5680	0.0000	9.5680
IN-W187.1094	0.6805	0.0000	0.6805
IN-W188.1093	1.0400	0.0000	1.0400
IN-W188.160	0.6805	0.0000	0.6805
IN-W216.875	1478.8800	0.0000	1478.8800
IN-W216.98	555.6465	0.0000	555.6465
IN-W218.909	101.9100	0.0000	101.9100
IN-W219.914	2.3445	0.0000	2.3445
IN-W220.114	122.8025	0.0000	122.8025
IN-W220.925	443.0400	0.0000	443.0400
IN-W221.113	11.6480	0.0000	11.6480
IN-W221.927	3.6490	0.0000	3.6490

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Solidified Inorganics

IN-W222.116	24.7495	0.0000	24.7495
IN-W222.965	10.6080	0.0000	10.6080
IN-W228.101	287.3335	0.0000	287.3335
IN-W228.883	608.8161	0.0000	608.8161
IN-W247.523	173.6800	0.0000	173.6800
IN-W257.947	0.6805	0.0000	0.6805
IN-W263.520	14.3520	0.0000	14.3520
IN-W315.601	0.4160	0.0000	0.4160
IN-W332.661	0.6805	0.0000	0.6805
IN-W332.962	0.8320	0.0000	0.8320
IN-W347.646	51.7920	0.0000	51.7920
IN-W347.818	3.4410	0.0000	3.4410
IN-W348.1012	2.3445	0.0000	2.3445
IN-W353.859	0.6805	0.0000	0.6805
IN-W353.917	0.2080	0.0000	0.2080
IN-W375.1096	4.4810	0.0000	4.4810
Total Volume:	**4344.44**	**0.00**	**4344.44**

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Solidified Inorganics

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	199.9	4.4	0.0
Aluminum Base Metal/Alloys	0.1	0.0	0.0
Other Metal/Alloys	3.4	2.0	0.0
Other Inorganic Materials	754.8	74.5	0.0
Vitrified	40.5	0.8	0.0
Cellulosics	85.2	1.1	0.0
Rubber	0.0	0.0	0.0
Plastics	68.3	6.9	0.0
Solidified Inorganic Material	947.0	366.2	0.0
Solidified Organic Material	0.5	0.0	0.0
Cement (Solidified)	584.4	212.7	0.0
Soils	671.5	2.0	0.0

M

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Solidified Organics

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
IN-W157.144	49.9150	0.0000	49.9150
IN-W157.906	163.6960	0.0000	163.6960
IN-W164.1060	1.6640	0.0000	1.6640
IN-W164.153	0.8885	0.0000	0.8885
IN-W167.149	36.6800	0.0000	36.6800
IN-W167.926	131.4560	0.0000	131.4560
IN-W309.610	352.7680	0.0000	352.7680
IN-W317.757	39.1040	0.0000	39.1040
IN-W317.758	11.5145	0.0000	11.5145
IN-W319.584	0.6805	0.0000	0.6805
IN-W321.1023	1.3045	0.0000	1.3045
Total Volume:	**789.67**	**0.00**	**789.67**

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Solidified Organics

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	0.9	0.0	0.0
Aluminum Base Metal/Alloys	0.4	0.0	0.0
Other Metal/Alloys	0.1	0.0	0.0
Other Inorganic Materials	673.1	133.9	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	1.0	0.0	0.0
Rubber	0.2	0.0	0.0
Plastics	25.7	5.2	0.0
Solidified Inorganic Material	36.0	1.4	0.0
Solidified Organic Material	1072.0	623.5	39.2
Cement (Solidified)	542.8	133.8	0.0
Soils	0.2	0.0	0.0

M

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Uncategorized Metal

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
IN-W159.119	0.2080	0.0000	0.2080
IN-W203.212	0.2080	0.0000	0.2080
IN-W204.217	0.2080	0.0000	0.2080
IN-W213.253	0.2080	0.0000	0.2080
IN-W214.756	0.2080	0.0000	0.2080
IN-W228.103	31.8240	0.0000	31.8240
IN-W249.528	0.2080	0.0000	0.2080
IN-W271.533	0.2080	0.0000	0.2080
IN-W280.1066	28.4960	0.0000	28.4960
IN-W280.448	8.3380	0.0000	8.3380
IN-W280.449	0.2080	0.0000	0.2080
IN-W287.460	211.9520	0.0000	211.9520
IN-W294.342	406.8480	0.0000	406.8480
IN-W294.814	33.5035	0.0000	33.5035
IN-W296.327	3450.3041	0.0000	3450.3041
IN-W296.813	47.9865	0.0000	47.9865
IN-W298.317	54.7040	0.0000	54.7040
IN-W300.308	1509.4560	0.0000	1509.4560
IN-W300.930	4.6890	0.0000	4.6890
IN-W304.860	8.7540	0.0000	8.7540
IN-W304.861	59.0720	0.0000	59.0720
IN-W342.652	0.6805	0.0000	0.6805
IN-W342.953	0.4160	0.0000	0.4160

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Uncategorized Metal

IN-W358.854	0.8885	0.0000	0.8885
IN-W358.855	3.3280	0.0000	3.3280
IN-W359.853	0.8320	0.0000	0.8320
IN-W360.852	0.6805	0.0000	0.6805
IN-W360.912	0.2080	0.0000	0.2080
IN-W371.1018	0.2080	0.0000	0.2080
IN-W371.831	0.6805	0.0000	0.6805
IN-W372.832	1.3045	0.0000	1.3045
Total Volume:	**5866.82**	**0.00**	**5866.82**

Site-Specific Contact Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Uncategorized Metal

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	1634.6	128.7	0.0
Aluminum Base Metal/Alloys	73.7	11.6	0.0
Other Metal/Alloys	538.0	113.9	0.0
Other Inorganic Materials	812.5	24.1	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	184.8	6.9	0.0
Rubber	16.4	1.1	0.0
Plastics	149.0	21.2	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

M

Site-Specific Contact Handled Waste Profiles

Site Name: Lawrence Livermore National Laboratory

Final Waste Form: Filter

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
LL-T005	15.5360	32.2840	47.8200
Total Volume:	**15.54**	**32.28**	**47.82**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	150.0	66.3	0.0
Aluminum Base Metal/Alloys	50.0	20.7	0.0
Other Metal/Alloys	20.0	10.0	0.0
Other Inorganic Materials	50.0	20.7	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	130.0	65.7	0.0
Rubber	20.0	10.0	0.0
Plastics	100.0	20.7	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

M

Site-Specific Contact Handled Waste Profiles

Site Name: Lawrence Livermore National Laboratory

Final Waste Form: Heterogeneous

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
LL-M001	5.4080	17.2640	22.6720
LL-T002	47.9120	502.8800	550.7920
LL-T003	143.6400	117.1800	260.8200
LL-W018	1.8900	26.4600	28.3500
Total Volume:	**198.85**	**663.78**	**862.63**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	800.0	14.3	0.0
Aluminum Base Metal/Alloys	800.0	4.9	0.0
Other Metal/Alloys	800.0	2.0	0.0
Other Inorganic Materials	800.0	1.1	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	500.0	66.9	0.0
Rubber	200.0	3.7	0.0
Plastics	365.0	67.4	0.0
Solidified Inorganic Material	300.0	4.1	0.0
Solidified Organic Material	300.0	4.1	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	3.1	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Lawrence Livermore National Laboratory

Final Waste Form: Salt Waste

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
LL-T004	0.6240	3.0160	3.6400
Total Volume:	**0.62**	**3.02**	**3.64**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	100.0	20.0	0.0
Aluminum Base Metal/Alloys	80.0	5.0	0.0
Other Metal/Alloys	50.0	2.0	0.0
Other Inorganic Materials	365.0	290.0	100.0
Vitrified	0.0	0.0	0.0
Cellulosics	50.0	2.0	0.0
Rubber	20.0	1.0	0.0
Plastics	100.0	20.0	5.0
Solidified Inorganic Material	10.0	1.0	0.0
Solidified Organic Material	10.0	1.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Lawrence Livermore National Laboratory

Final Waste Form: Solidified Inorganics

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
LL-T001	14.3520	5.8240	20.1760
Total Volume:	**14.35**	**5.82**	**20.18**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	100.0	30.0	0.0
Aluminum Base Metal/Alloys	50.0	5.0	0.0
Other Metal/Alloys	20.0	1.0	0.0
Other Inorganic Materials	20.0	1.0	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	100.0	10.0	0.0
Rubber	20.0	1.0	0.0
Plastics	100.0	20.0	5.0
Solidified Inorganic Material	365.0	100.0	50.0
Solidified Organic Material	365.0	100.0	50.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

M

Site-Specific Contact Handled Waste Profiles

Site Name: Lawrence Livermore National Laboratory

Final Waste Form: Solidified Organics

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
LL-W019	1.0400	5.8240	6.8640
Total Volume:	**1.04**	**5.82**	**6.86**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	100.0	30.0	0.0
Aluminum Base Metal/Alloys	50.0	5.0	0.0
Other Metal/Alloys	20.0	1.0	0.0
Other Inorganic Materials	20.0	1.0	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	100.0	10.0	0.0
Rubber	20.0	1.0	0.0
Plastics	100.0	20.0	5.0
Solidified Inorganic Material	365.0	100.0	50.0
Solidified Organic Material	365.0	100.0	50.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Los Alamos National Laboratory

Final Waste Form: Combustible

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
LA-T004	1555.1560	1677.3120	3232.4681
LA-W004	266.2940	698.8800	965.1740
Total Volume:	**1821.45**	**2376.19**	**4197.64**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	265.2	257.7	254.0
Aluminum Base Metal/Alloys	0.4	0.4	0.4
Other Metal/Alloys	89.7	18.8	18.8
Other Inorganic Materials	6.8	6.8	6.8
Vitrified	0.0	0.0	0.0
Cellulosics	68.7	64.0	59.2
Rubber	1.2	1.1	1.0
Plastics	5.7	5.3	4.9
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

M

Site-Specific Contact Handled Waste Profiles

Site Name: Los Alamos National Laboratory

Final Waste Form: Heterogeneous

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
LA-T007	6.6560	29.1200	35.7760
LA-W067	8.9440	0.0000	8.9440
LA-W068	0.4160	0.0000	0.4160
Total Volume:	**16.02**	**29.12**	**45.14**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	822.2	264.9	69.2
Aluminum Base Metal/Alloys	55.9	8.8	0.0
Other Metal/Alloys	91.3	25.5	2.4
Other Inorganic Materials	95.2	10.9	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	300.1	16.9	0.0
Rubber	67.5	3.7	0.0
Plastics	191.9	14.1	0.0
Solidified Inorganic Material	8.9	1.0	0.0
Solidified Organic Material	5.4	0.2	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	3.1	0.6	0.0

M

Site-Specific Contact Handled Waste Profiles

Site Name: Los Alamos National Laboratory

Final Waste Form: Lead/Cadmium Metal Waste

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
LA-W066	1.8900	0.0000	1.8900
Total Volume:	**1.89**	**0.00**	**1.89**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	345.0	115.6	4.7
Aluminum Base Metal/Alloys	43.1	14.2	0.2
Other Metal/Alloys	163.3	128.9	104.7
Other Inorganic Materials	29.2	10.0	0.6
Vitrified	0.0	0.0	0.0
Cellulosics	7.1	3.4	1.7
Rubber	17.4	13.2	11.2
Plastics	49.6	19.1	4.3
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.9	0.9	0.9
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

M

Site-Specific Contact Handled Waste Profiles

Site Name: Los Alamos National Laboratory

Final Waste Form: Soils

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
LA-T008	110.5700	29.1200	139.6900
Total Volume:	**110.57**	**29.12**	**139.69**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	0.0	0.0	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	0.0	0.0	0.0
Other Inorganic Materials	0.0	0.0	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	0.0	0.0	0.0
Rubber	0.0	0.0	0.0
Plastics	0.0	0.0	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	1600.0	1200.0	1000.0

Site-Specific Contact Handled Waste Profiles

Site Name: Los Alamos National Laboratory

Final Waste Form: Solidified Inorganics

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
LA-M002	3053.5340	553.2800	3606.8140
LA-T006	4.9920	81.5360	86.5280
LA-W003	1277.4760	559.1040	1836.5800
LA-W006	552.1940	839.9040	1392.0980
Total Volume:	**4888.20**	**2033.82**	**6922.02**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	0.0	0.0	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	0.0	0.0	0.0
Other Inorganic Materials	48.1	20.7	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	0.0	0.0	0.0
Rubber	0.0	0.0	0.0
Plastics	0.0	0.0	0.0
Solidified Inorganic Material	2180.0	583.5	335.3
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	1166.0	641.1	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Los Alamos National Laboratory

Final Waste Form: Solidified Organics

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
LA-T002	1.4560	29.1200	30.5760
Total Volume:	**1.46**	**29.12**	**30.58**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	0.0	0.0	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	0.0	0.0	0.0
Other Inorganic Materials	0.0	0.0	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	0.0	0.0	0.0
Rubber	0.0	0.0	0.0
Plastics	0.0	0.0	0.0
Solidified Inorganic Material	1014.0	603.0	507.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	1166.0	693.0	583.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Los Alamos National Laboratory

Final Waste Form: Uncategorized Metal

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
LA-T001	95.9560	559.1040	655.0600
LA-T005	1503.0280	1118.2080	2621.2360
LA-T009	53.5440	58.2400	111.7840
LA-W001	2203.3460	139.7760	2343.1220
LA-W005	214.7100	698.8800	913.5900
LA-W009	143.8480	279.5520	423.4000
Total Volume:	**4214.43**	**2853.76**	**7068.19**

M

Site-Specific Contact Handled Waste Profiles

Site Name: Los Alamos National Laboratory

Final Waste Form: Uncategorized Metal

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	822.2	265.1	69.2
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	913.5	166.6	7.7
Other Inorganic Materials	6.8	6.4	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	68.7	28.2	0.0
Rubber	1.2	0.5	0.0
Plastics	5.7	2.3	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

M

Site-Specific Contact Handled Waste Profiles

Site Name: Mound Plant

Final Waste Form: Combustible

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
MD-T008	3.7440	0.0000	3.7440
MD-T009	0.2080	0.0000	0.2080
MD-W003	1.6640	0.0000	1.6640
MD-W017	1.4560	0.0000	1.4560
Total Volume:	**7.07**	**0.00**	**7.07**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	112.8	109.7	108.2
Aluminum Base Metal/Alloys	0.2	0.2	0.2
Other Metal/Alloys	41.9	10.4	8.5
Other Inorganic Materials	14.8	8.7	3.9
Vitrified	0.0	0.0	0.0
Cellulosics	314.5	191.3	61.2
Rubber	71.4	30.2	22.8
Plastics	101.6	59.0	38.8
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Mound Plant

Final Waste Form: Filter

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
MD-M001	0.4160	0.0000	0.4160
MD-T010	0.4160	0.0000	0.4160
Total Volume:	**0.83**	**0.00**	**0.83**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	10.6	5.3	0.0
Aluminum Base Metal/Alloys	57.4	12.5	1.8
Other Metal/Alloys	1.6	0.8	0.0
Other Inorganic Materials	69.1	15.0	2.4
Vitrified	0.0	0.0	0.0
Cellulosics	341.9	56.3	3.7
Rubber	17.0	3.3	0.2
Plastics	23.3	4.6	0.6
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Mound Plant

Final Waste Form: Heterogeneous

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
MD-T012	0.6240	0.0000	0.6240
Total Volume:	**0.62**	**0.00**	**0.62**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	566.8	235.5	207.8
Aluminum Base Metal/Alloys	55.9	42.3	41.8
Other Metal/Alloys	48.8	7.1	2.4
Other Inorganic Materials	95.2	52.3	47.5
Vitrified	0.0	0.0	0.0
Cellulosics	300.1	81.4	18.7
Rubber	67.5	17.9	6.8
Plastics	191.9	67.8	22.9
Solidified Inorganic Material	8.9	4.7	4.4
Solidified Organic Material	5.4	0.8	0.6
Cement (Solidified)	0.0	0.0	0.0
Soils	3.1	3.0	3.0

Site-Specific Contact Handled Waste Profiles

Site Name: Mound Plant

Final Waste Form: Soils

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
MD-T003	146.9400	0.0000	146.9400
MD-T005	30.2400	0.0000	30.2400
Total Volume:	**177.18**	**0.00**	**177.18**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	0.0	0.0	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	0.0	0.0	0.0
Other Inorganic Materials	0.0	0.0	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	0.0	0.0	0.0
Rubber	0.0	0.0	0.0
Plastics	0.0	0.0	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	1315.0	846.8	566.0

Site-Specific Contact Handled Waste Profiles

Site Name: Mound Plant

Final Waste Form: Solidified Inorganics

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
MD-T001	4.1600	0.0000	4.1600
MD-W002	1.8720	0.0000	1.8720
Total Volume:	**6.03**	**0.00**	**6.03**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	199.9	51.5	0.0
Aluminum Base Metal/Alloys	0.1	0.0	0.0
Other Metal/Alloys	1.0	0.2	0.0
Other Inorganic Materials	109.6	22.9	0.0
Vitrified	40.5	9.2	0.0
Cellulosics	0.6	0.1	0.0
Rubber	0.0	0.0	0.0
Plastics	2.6	0.6	0.0
Solidified Inorganic Material	1204.0	916.6	305.8
Solidified Organic Material	0.5	0.0	0.0
Cement (Solidified)	584.4	120.4	0.0
Soils	0.6	0.2	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Mound Plant

Final Waste Form: Uncategorized Metal

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
MD-T006	58.5900	0.0000	58.5900
MD-T007	23.8920	0.0000	23.8920
Total Volume:	**82.48**	**0.00**	**82.48**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	223.5	126.9	90.3
Aluminum Base Metal/Alloys	6.9	2.4	1.7
Other Metal/Alloys	406.9	266.5	214.2
Other Inorganic Materials	21.4	14.6	10.2
Vitrified	0.0	0.0	0.0
Cellulosics	12.7	8.3	6.7
Rubber	1.5	0.5	0.3
Plastics	11.4	5.4	1.8
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Nevada Test Site

Final Waste Form: Heterogeneous

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
NT-W001	613.2620	8.9800	622.2420
Total Volume:	**613.26**	**8.98**	**622.24**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	554.0	72.2	0.0
Aluminum Base Metal/Alloys	512.0	12.3	0.0
Other Metal/Alloys	483.0	5.8	0.0
Other Inorganic Materials	475.0	4.8	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	318.0	52.5	0.0
Rubber	168.0	3.8	0.0
Plastics	318.0	50.1	1.9
Solidified Inorganic Material	177.0	11.8	0.0
Solidified Organic Material	177.0	11.8	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.1	0.0	0.0

M

Site-Specific Contact Handled Waste Profiles

Site Name: Nevada Test Site

Final Waste Form: Solidified Inorganics

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
NT-W021	5.6700	0.0000	5.6700
Total Volume:	**5.67**	**0.00**	**5.67**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	0.0	0.0	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	544.0	272.0	0.0
Other Inorganic Materials	0.0	0.0	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	0.0	0.0	0.0
Rubber	0.0	0.0	0.0
Plastics	0.0	0.0	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

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Site-Specific Contact Handled Waste Profiles

Site Name: Oak Ridge National Laboratory

Final Waste Form: Heterogeneous

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
OR-W041	170.7680	0.0000	170.7680
OR-W044	522.9120	256.2560	779.1680
OR-W045	5.4080	0.0000	5.4080
OR-W047	154.1280	0.0000	154.1280
OR-W048	15.1840	0.0000	15.1840
OR-W053	435.7600	0.0000	435.7600
Total Volume:	**1304.16**	**256.26**	**1560.42**

Site-Specific Contact Handled Waste Profiles

Site Name: Oak Ridge National Laboratory

Final Waste Form: Heterogeneous

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	1716.4	96.2	0.0
Aluminum Base Metal/Alloys	1.6	0.0	0.0
Other Metal/Alloys	21.3	0.0	0.0
Other Inorganic Materials	24.0	2.4	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	184.8	80.9	0.0
Rubber	17.9	7.4	0.0
Plastics	149.0	64.9	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	3.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Paducah Gaseous Diffusion Plant

Final Waste Form: Inorganic Non-Metal

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
PA-A015	0.0000	1.8900	1.8900
Total Volume:	**0.00**	**1.89**	**1.89**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	63.6	63.6	63.6
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	0.0	0.0	0.0
Other Inorganic Materials	0.0	0.0	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	0.0	0.0	0.0
Rubber	0.0	0.0	0.0
Plastics	0.0	0.0	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Pantex Plant

Final Waste Form: Heterogeneous

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
PX-T001	0.6240	0.0000	0.6240
Total Volume:	**0.62**	**0.00**	**0.62**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	0.0	0.0	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	0.0	0.0	0.0
Other Inorganic Materials	95.8	87.0	78.4
Vitrified	0.0	0.0	0.0
Cellulosics	0.0	0.0	0.0
Rubber	12.4	11.3	10.2
Plastics	12.4	11.3	10.2
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Rocky Flats Environmental Technology Site

Final Waste Form: Combustible

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
RF-MT0339	22.8800	138.1120	160.9920
RF-MT0341	0.0000	0.0000	0.0000
RF-MT0821	0.4160	0.0000	0.4160
RF-MT0831	44.9280	223.7520	268.6800
RF-MT0832	72.3840	312.4784	384.8624
RF-MT0833	8.7360	46.9620	55.6980
RF-MT2116	2.0800	0.0000	2.0800
RF-TT0302	0.0000	0.0000	0.0000
RF-TT0821	12.4800	59.6960	72.1760
RF-TT0822	0.0000	0.0000	0.0000
RF-TT0825	21.6320	80.0800	101.7120
Total Volume:	**185.54**	**861.08**	**1046.62**

Site-Specific Contact Handled Waste Profiles

Site Name: Rocky Flats Environmental Technology Site

Final Waste Form: Combustible

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	112.8	0.0	0.0
Aluminum Base Metal/Alloys	0.2	0.0	0.0
Other Metal/Alloys	41.9	0.0	0.0
Other Inorganic Materials	370.2	33.1	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	647.8	47.2	0.0
Rubber	217.4	21.7	0.0
Plastics	349.2	20.6	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

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Site-Specific Contact Handled Waste Profiles

Site Name: Rocky Flats Environmental Technology Site

Final Waste Form: Filter

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
RF-MT-0335	1.4560	400.4000	401.8560
RF-MT-0338	0.0000	0.0000	0.0000
RF-MT-0491	0.6240	26.6240	27.2480
RF-TR0335	1.4560	0.0000	1.4560
RF-TT0335	19.3440	30.7216	50.0656
RF-TT0338	2.0800	5.8240	7.9040
RF-TT0376	8.9440	12.4800	21.4240
RF-TT0490	22.1740	1.4560	23.6300
RF-TT0491	16.0160	0.0000	16.0160
Total Volume:	**72.09**	**477.51**	**549.60**

Site-Specific Contact Handled Waste Profiles

Site Name: Rocky Flats Environmental Technology Site

Final Waste Form: Filter

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	10.6	0.0	0.0
Aluminum Base Metal/Alloys	191.6	11.9	0.0
Other Metal/Alloys	1.6	0.0	0.0
Other Inorganic Materials	236.0	14.1	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	429.5	55.6	0.0
Rubber	19.4	2.7	0.0
Plastics	25.6	3.2	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

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Site-Specific Contact Handled Waste Profiles

Site Name: Rocky Flats Environmental Technology Site

Final Waste Form: Graphite

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
RF-TT0300	12.8960	4.7840	17.6800
RF-TT0303	0.2080	0.0000	0.2080
RF-TT0312	0.6240	42.7835	43.4075
Total Volume:	**13.73**	**47.57**	**61.30**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	17.3	8.7	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	0.0	0.0	0.0
Other Inorganic Materials	381.9	270.4	51.9
Vitrified	0.0	0.0	0.0
Cellulosics	0.0	0.0	0.0
Rubber	0.0	0.0	0.0
Plastics	0.0	0.0	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Rocky Flats Environmental Technology Site

Final Waste Form: Heterogeneous

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
RF-MT0374	1.2480	0.0000	1.2480
RF-TT0374	0.6240	0.0000	0.6240
RF-TT2116	0.2080	0.0000	0.2080
RF-TT2216	1.7805	0.0000	1.7805
Total Volume:	**3.86**	**0.00**	**3.86**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	0.0	0.0	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	0.0	0.0	0.0
Other Inorganic Materials	628.4	132.4	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	483.0	144.9	12.0
Rubber	46.1	13.3	0.0
Plastics	139.0	45.9	9.6
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	628.4	31.5	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Rocky Flats Environmental Technology Site

Final Waste Form: Inorganic Non-metal

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
RF-MT-0368	0.6240	2.9120	3.5360
RF-MT-0438	0.4160	15.8080	16.2240
RF-MT0440	5.6340	195.8863	201.5203
RF-MT0442	6.6560	584.2720	590.9280
RF-MT0444	2.7220	8.3920	11.1140
RF-MT0855	0.2080	1.6640	1.8720
RF-MT0856	0.2080	5.4080	5.6160
RF-TR0334	0.4160	0.0000	0.4160
RF-TT0438	7.6960	7.2800	14.9760
RF-TT0440	5.6340	21.8300	27.4640
RF-TT0442	28.0800	23.2860	51.3660
Total Volume:	**58.29**	**866.74**	**925.03**

Site-Specific Contact Handled Waste Profiles

Site Name: Rocky Flats Environmental Technology Site

Final Waste Form: Inorganic Non-metal

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	24.3	10.3	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	5.3	0.5	0.0
Other Inorganic Materials	789.8	216.2	1.9
Vitrified	0.0	0.0	0.0
Cellulosics	12.6	5.5	0.0
Rubber	3.1	0.3	0.0
Plastics	78.1	13.9	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Rocky Flats Environmental Technology Site

Final Waste Form: Lead/Cadmium Metal Waste

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
RF-MT0321	3.7440	7.9040	11.6480
RF-MT0480	0.2080	290.3659	290.5739
Total Volume:	**3.95**	**298.27**	**302.22**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	488.7	154.2	0.0
Aluminum Base Metal/Alloys	61.6	19.4	0.0
Other Metal/Alloys	1438.1	33.1	0.0
Other Inorganic Materials	40.9	12.9	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	7.6	2.4	0.0
Rubber	8.9	2.8	0.0
Plastics	64.7	20.4	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Rocky Flats Environmental Technology Site

Final Waste Form: Salt Waste

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
RF-TT0999	0.0000	325.9173	325.9173
Total Volume:	**0.00**	**325.92**	**325.92**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	540.0	193.9	47.5
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	0.0	0.0	0.0
Other Inorganic Materials	237.6	166.4	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	211.7	176.1	140.4
Rubber	0.0	0.0	0.0
Plastics	0.0	0.0	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Rocky Flats Environmental Technology Site

Final Waste Form: Solidified Inorganics

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
RF-MR0089	0.0000	0.0000	0.0000
RF-MR0423	0.0000	0.0000	0.0000
RF-MT-0823	0.2080	0.0000	0.2080
RF-MT0001	3.7440	0.0000	3.7440
RF-MT0007	0.8320	0.0000	0.8320
RF-MT0377	3.5360	0.0000	3.5360
RF-MT0800	65.5200	38.8960	104.4160
RF-MT0803	2.9120	2.0800	4.9920
RF-MT0806	0.0000	923.8050	923.8050
RF-MT0807	73.4240	41.6000	115.0240
RF-T010	0.6240	0.0000	0.6240
RF-TT0802	7.4880	26.0000	33.4880
RF-TT0806	0.0000	202.1760	202.1760
RF-TT0823	7.0720	23.0880	30.1600
Total Volume:	**165.36**	**1257.64**	**1423.01**

Site-Specific Contact Handled Waste Profiles

Site Name: Rocky Flats Environmental Technology Site

Final Waste Form: Solidified Inorganics

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	199.9	0.0	0.0
Aluminum Base Metal/Alloys	0.1	0.0	0.0
Other Metal/Alloys	98.7	0.6	0.0
Other Inorganic Materials	985.1	470.8	0.0
Vitrified	40.5	0.0	0.0
Cellulosics	49.7	0.0	0.0
Rubber	32.9	0.0	0.0
Plastics	35.5	0.2	0.0
Solidified Inorganic Material	609.6	155.9	0.0
Solidified Organic Material	0.5	0.0	0.0
Cement (Solidified)	584.4	81.7	0.0
Soils	0.6	0.0	0.0

M

Site-Specific Contact Handled Waste Profiles

Site Name: Rocky Flats Environmental Technology Site

Final Waste Form: Solidified Organics

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
RF-MT0003	0.6240	0.0000	0.6240
RF-MT0375	0.2080	0.0000	0.2080
RF-MT0801	108.9920	0.0000	108.9920
RF-TT0809	0.0000	31.1085	31.1085
Total Volume:	**109.82**	**31.11**	**140.93**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	0.0	0.0	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	0.0	0.0	0.0
Other Inorganic Materials	362.2	47.4	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	0.0	0.0	0.0
Rubber	0.0	0.0	0.0
Plastics	74.6	9.7	0.0
Solidified Inorganic Material	7.7	0.0	0.0
Solidified Organic Material	1375.6	779.3	0.6
Cement (Solidified)	54.3	7.1	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Rocky Flats Environmental Technology Site

Final Waste Form: Uncategorized Metal

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
RF-MT0320	1.4560	19.5520	21.0080
RF-TT0320	4.5760	3.7440	8.3200
RF-TT0479	0.0000	0.0000	0.0000
RF-TT0480	77.2940	193.0610	270.3550
RF-TT0481	0.2080	0.0000	0.2080
RF-TT0485	0.0000	0.0000	0.0000
RF-TT0824	9.7760	19.7600	29.5360
Total Volume:	**93.31**	**236.12**	**329.43**

Site-Specific Contact Handled Waste Profiles

Site Name: Rocky Flats Environmental Technology Site

Final Waste Form: Uncategorized Metal

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	488.7	137.5	0.0
Aluminum Base Metal/Alloys	61.6	10.7	0.0
Other Metal/Alloys	406.9	133.9	0.0
Other Inorganic Materials	40.9	14.0	0.1
Vitrified	0.0	0.0	0.0
Cellulosics	12.7	4.9	0.0
Rubber	8.9	1.6	0.0
Plastics	64.7	12.5	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Sandia National Laboratory - Albuquerque

Final Waste Form: Heterogeneous

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
SA-T001	5.4080	5.8240	11.2320
SA-W134	1.2480	1.6640	2.9120
Total Volume:	**6.66**	**7.49**	**14.14**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	110.0	95.9	10.0
Aluminum Base Metal/Alloys	10.0	3.4	1.0
Other Metal/Alloys	15.0	6.8	2.0
Other Inorganic Materials	20.0	12.1	1.0
Vitrified	0.0	0.0	0.0
Cellulosics	5.0	2.8	1.0
Rubber	9.0	4.4	1.0
Plastics	10.0	5.0	1.0
Solidified Inorganic Material	60.0	31.8	0.0
Solidified Organic Material	9.0	4.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

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Site-Specific Contact Handled Waste Profiles

Site Name: Savannah River Site

Final Waste Form: Heterogeneous

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
T001-221F-HET	938.7040	1598.4800	2537.1841
T001-221H-HET	158.1424	971.5057	1129.6481
T001-235F-HET	162.9680	205.1920	368.1600
T001-772F-HET	29.0784	11.4816	40.5600
T001-773A-HET	22.0896	257.4624	279.5520
T003-773A-HET	0.6240	6.8640	7.4880
W026-221F-HET	0.0000	1402.9600	1402.9600
W026-221H-HET	0.0000	691.3920	691.3920
W026-235F-HET	0.0000	144.7680	144.7680
W026-772F-HET	0.0000	11.6480	11.6480
W026-773A-HET	0.0000	174.0960	174.0960
W027-221F-HET	265.6160	0.0000	265.6160
W027-221H-HET	125.4240	0.0000	125.4240
W027-235F-HET	34.7360	0.0000	34.7360
W027-772F-HET	515.4240	0.0000	515.4240
W027-773A-HET	331.1360	0.0000	331.1360
W027-999-HET	27.6640	0.0000	27.6640
Total Volume:	**2611.61**	**5475.85**	**8087.46**

Site-Specific Contact Handled Waste Profiles

Site Name: Savannah River Site

Final Waste Form: Heterogeneous

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	566.8	3.7	0.0
Aluminum Base Metal/Alloys	55.9	0.7	0.0
Other Metal/Alloys	48.8	0.1	0.0
Other Inorganic Materials	95.2	1.9	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	576.9	115.3	0.0
Rubber	67.5	11.2	0.0
Plastics	191.9	33.9	0.0
Solidified Inorganic Material	8.9	0.1	0.0
Solidified Organic Material	5.4	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	3.1	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: Savannah River Site

Final Waste Form: Solidified Inorganics

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
T001-221F-VIT	23.1504	141.0302	164.1807
T001-221H-VIT	33.8000	478.4208	512.2208
T001-235F-VIT	1.4768	85.5338	87.0106
T001-772F-VIT	0.1872	7.5816	7.7688
T001-773A-CLAS	4.5760	0.0000	4.5760
T001-773A-VIT	0.3952	15.1424	15.5376
T003-773A-VIT	0.2080	0.0000	0.2080
W006-773A-VIT	0.5179	0.0000	0.5179
W026-221F-VIT	0.0000	65.6885	65.6885
W026-221H-VIT	0.0000	299.2475	299.2475
W026-235F-VIT	0.0000	63.0344	63.0344
W026-772F-VIT	0.0000	5.3082	5.3082
W026-773A-VIT	0.0000	8.6258	8.6258
W027-221F-VIT	33.1760	0.0000	33.1760
W027-221H-VIT	25.8773	0.0000	25.8773
W027-235F-VIT	16.5880	0.0000	16.5880
W027-772F-VIT	10.6163	0.0000	10.6163
W027-773A-VIT	17.2515	0.0000	17.2515
W027-999-VIT	31.8490	0.0000	31.8490
W053-773A-VIT	0.5179	0.0000	0.5179
Total Volume:	**200.19**	**1169.61**	**1369.80**

Site-Specific Contact Handled Waste Profiles

Site Name: Savannah River Site

Final Waste Form: Solidified Inorganics

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	2375.0	1854.4	87.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	0.0	0.0	0.0
Other Inorganic Materials	0.0	0.0	0.0
Vitrified	2473.0	331.4	0.0
Cellulosics	0.0	0.0	0.0
Rubber	0.0	0.0	0.0
Plastics	0.0	0.0	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

M

Site-Specific Contact Handled Waste Profiles

Site Name: Savannah River Site

Final Waste Form: Uncategorized Metal

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
T001-221F-MET	23.8140	70.6860	94.5000
T001-221H-MET	0.7938	14.3262	15.1200
T001-235F-MET	0.0000	1.8900	1.8900
T001-772F-MET	0.0000	1.8900	1.8900
T001-773A-MET	0.3780	31.7520	32.1300
W027-221F-MET	1.8900	0.0000	1.8900
W027-221H-MET	1.8900	0.0000	1.8900
W027-235F-MET	1.8900	0.0000	1.8900
W027-772F-MET	32.1300	0.0000	32.1300
W027-773A-MET	7.5600	0.0000	7.5600
Total Volume:	**70.35**	**120.54**	**190.89**

Site-Specific Contact Handled Waste Profiles

Site Name: Savannah River Site

Final Waste Form: Uncategorized Metal

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	317.0	91.0	0.0
Aluminum Base Metal/Alloys	6.9	0.4	0.0
Other Metal/Alloys	1586.5	207.2	0.0
Other Inorganic Materials	21.4	18.5	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	12.7	1.4	0.0
Rubber	1.5	0.1	0.0
Plastics	11.4	0.9	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

M

Site-Specific Contact Handled Waste Profiles

Site Name: Teledyne Brown Engineering

Final Waste Form: Inorganic Non-Metal

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
TB-W001	0.2080	0.0000	0.2080
Total Volume:	**0.21**	**0.00**	**0.21**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	0.0	0.0	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	0.0	0.0	0.0
Other Inorganic Materials	0.0	0.0	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	0.0	0.0	0.0
Rubber	0.0	0.0	0.0
Plastics	0.0	0.0	0.0
Solidified Inorganic Material	327.0	327.0	327.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Contact Handled Waste Profiles

Site Name: U.S. Army Material Command

Final Waste Form: Heterogeneous

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
MC-W001	2.4960	0.0000	2.4960
Total Volume:	**2.50**	**0.00**	**2.50**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	566.8	235.5	207.8
Aluminum Base Metal/Alloys	55.9	42.3	41.8
Other Metal/Alloys	48.8	7.1	2.4
Other Inorganic Materials	95.2	52.3	47.5
Vitrified	0.0	0.0	0.0
Cellulosics	300.1	81.4	18.7
Rubber	67.5	17.9	6.8
Plastics	191.9	67.8	22.9
Solidified Inorganic Material	8.9	4.7	4.4
Solidified Organic Material	5.4	0.8	0.6
Cement (Solidified)	0.0	0.0	0.0
Soils	3.1	3.0	3.0

M

Site-Specific Contact Handled Waste Profiles

Site Name: University of Missouri Research Reactor

Final Waste Form: Heterogeneous

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
MU-W002	0.2080	0.8320	1.0400
Total Volume:	**0.21**	**0.83**	**1.04**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	20.0	11.3	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	0.0	0.0	0.0
Other Inorganic Materials	60.0	25.0	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	10.0	2.5	0.0
Rubber	50.0	25.0	0.0
Plastics	80.0	37.5	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Remote Handled Waste Profiles

Site Name: Argonne National Laboratory - West

Final Waste Form: Heterogeneous

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
AW-T031.1322	0.0000	1208.6200	1208.6200
Total Volume:	**0.00**	**1208.62**	**1208.62**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	566.8	235.5	207.8
Aluminum Base Metal/Alloys	55.9	42.3	41.8
Other Metal/Alloys	48.8	7.1	2.4
Other Inorganic Materials	95.2	52.3	47.5
Vitrified	0.0	0.0	0.0
Cellulosics	300.1	81.4	18.7
Rubber	67.5	17.9	6.8
Plastics	191.9	67.8	22.9
Solidified Inorganic Material	8.9	4.7	4.4
Solidified Organic Material	5.4	0.8	0.6
Cement (Solidified)	0.0	0.0	0.0
Soils	3.1	3.0	3.0

Site-Specific Remote Handled Waste Profiles

Site Name: Argonne National Laboratory - West

Final Waste Form: Inorganic Non-Metal

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
AW-T035.1326	0.0000	21.3600	21.3600
Total Volume:	**0.00**	**21.36**	**21.36**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	4.3	2.8	0.5
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	1.0	0.2	0.0
Other Inorganic Materials	190.1	98.9	23.2
Vitrified	1421.7	1421.7	1421.7
Cellulosics	40.8	15.7	3.8
Rubber	0.9	0.4	0.2
Plastics	13.4	6.7	1.9
Solidified Inorganic Material	2.9	1.4	0.2
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.4	0.0	0.0

Site-Specific Remote Handled Waste Profiles

Site Name: Argonne National Laboratory - West

Final Waste Form: Lead/Cadmium Metal Waste

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
AW-W021.16	0.0000	6.2300	6.2300
Total Volume:	**0.00**	**6.23**	**6.23**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	345.0	115.6	4.7
Aluminum Base Metal/Alloys	43.1	14.2	0.2
Other Metal/Alloys	163.3	128.9	104.7
Other Inorganic Materials	29.2	10.0	0.6
Vitrified	0.0	0.0	0.0
Cellulosics	7.1	3.4	1.7
Rubber	17.4	13.2	11.2
Plastics	49.6	19.1	4.3
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.9	0.9	0.9
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Remote Handled Waste Profiles

Site Name: Argonne National Laboratory - West

Final Waste Form: Solidified Inorganics

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
AW-W012.10	0.0000	21.3600	21.3600
AW-W016.20	0.0000	4.4500	4.4500
AW-W020.13	1.7800	1.7800	3.5600
AW-W022.22	0.0000	0.8900	0.8900
Total Volume:	**1.78**	**28.48**	**30.26**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	199.9	166.0	131.3
Aluminum Base Metal/Alloys	0.1	0.0	0.0
Other Metal/Alloys	1.0	0.7	0.6
Other Inorganic Materials	109.6	73.9	44.6
Vitrified	40.5	29.7	13.5
Cellulosics	0.6	0.3	0.0
Rubber	0.0	0.0	0.0
Plastics	2.6	2.0	1.7
Solidified Inorganic Material	609.6	413.4	305.8
Solidified Organic Material	0.5	0.1	0.1
Cement (Solidified)	584.4	387.9	295.1
Soils	0.6	0.6	0.4

Site-Specific Remote Handled Waste Profiles

Site Name: Argonne National Laboratory - West

Final Waste Form: Uncategorized Metal

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
AW-T029.1323	17.5063	0.0000	17.5063
Total Volume:	**17.51**	**0.00**	**17.51**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	223.5	126.9	90.3
Aluminum Base Metal/Alloys	6.9	2.4	1.7
Other Metal/Alloys	406.9	266.5	214.2
Other Inorganic Materials	21.4	14.6	10.2
Vitrified	0.0	0.0	0.0
Cellulosics	12.7	8.3	6.7
Rubber	1.5	0.5	0.3
Plastics	11.4	5.4	1.8
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

M

Site-Specific Remote Handled Waste Profiles

Site Name: Battelle Columbus Laboratories

Final Waste Form: Heterogeneous

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
BC-T001	580.5025	0.0000	580.5025
Total Volume:	**580.50**	**0.00**	**580.50**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	0.0	0.0	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	0.0	0.0	0.0
Other Inorganic Materials	2000.0	2000.0	2000.0
Vitrified	0.0	0.0	0.0
Cellulosics	0.0	0.0	0.0
Rubber	0.0	0.0	0.0
Plastics	0.0	0.0	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Remote Handled Waste Profiles

Site Name: Bettis Atomic Power Laboratory

Final Waste Form: Heterogeneous

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
BT-T001	0.0000	6.6750	6.6750
Total Volume:	**0.00**	**6.67**	**6.67**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	0.0	0.0	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	500.0	425.0	350.0
Other Inorganic Materials	0.0	0.0	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	20.0	10.0	0.0
Rubber	0.0	0.0	0.0
Plastics	550.0	450.0	350.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Remote Handled Waste Profiles

Site Name: Energy Technology Engineering Center

Final Waste Form: Lead/Cadmium Metal Waste

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
ET-M001	0.8900	0.0000	0.8900
Total Volume:	**0.89**	**0.00**	**0.89**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	345.0	115.6	4.7
Aluminum Base Metal/Alloys	43.1	14.2	0.2
Other Metal/Alloys	163.3	128.9	104.7
Other Inorganic Materials	29.2	10.0	0.6
Vitrified	0.0	0.0	0.0
Cellulosics	7.1	3.4	1.7
Rubber	17.4	13.2	11.2
Plastics	49.6	19.1	4.3
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.9	0.9	0.9
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

M

Site-Specific Remote Handled Waste Profiles

Site Name: Hanford (Richland) Site

Final Waste Form: Heterogeneous

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
RL-T121	53.4000	0.0000	53.4000
RL-T124	0.8900	0.0000	0.8900
RL-T147	27.5900	0.0000	27.5900
RL-T148	24.0300	0.0000	24.0300
RL-T149	69.4200	0.0000	69.4200
RL-W161	5.3400	0.0000	5.3400
RL-W162	18.6900	0.0000	18.6900
RL-W419	0.0000	67.6400	67.6400
RL-W421	0.0000	28.4800	28.4800
RL-W422	0.0000	224.2800	224.2800
RL-W424	0.0000	1014.6000	1014.6000
RL-W425	0.0000	1183.7000	1183.7000
RL-W428	0.0000	213.6000	213.6000
RL-W430	0.0000	622.1100	622.1100
RL-W431	0.0000	8.9000	8.9000
RL-W433	0.0000	676.4000	676.4000
RL-W435	0.0000	26.7000	26.7000

Site-Specific Remote Handled Waste Profiles

Site Name: Hanford (Richland) Site

Final Waste Form: Heterogeneous

Total Volume:	**199.36**	**4066.41**	**4265.77**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	744.8	215.0	60.0
Aluminum Base Metal/Alloys	167.8	31.3	0.0
Other Metal/Alloys	60.0	22.8	0.0
Other Inorganic Materials	95.2	51.1	35.0
Vitrified	0.0	0.0	0.0
Cellulosics	300.1	49.5	0.0
Rubber	67.5	10.9	0.0
Plastics	191.9	43.5	6.0
Solidified Inorganic Material	83.0	15.1	0.0
Solidified Organic Material	31.0	5.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	24.4	5.5	0.0

M

Site-Specific Remote Handled Waste Profiles

Site Name: Hanford (Richland) Site

Final Waste Form: Lead/Cadmium Metal Waste

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
RL-W276	1.7800	0.0000	1.7800
RL-W337	0.8900	60.5200	61.4100
Total Volume:	**2.67**	**60.52**	**63.19**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	66.4	8.8	7.1
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	585.3	577.6	310.4
Other Inorganic Materials	0.0	0.0	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	0.0	0.0	0.0
Rubber	0.0	0.0	0.0
Plastics	0.0	0.0	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	202.7	5.7	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Remote Handled Waste Profiles

Site Name: Hanford (Richland) Site

Final Waste Form: Uncategorized Metal

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
RL-W420	0.0000	801.0000	801.0000
RL-W423	0.0000	801.0000	801.0000
RL-W426	0.0000	115.7000	115.7000
RL-W427	0.0000	696.8700	696.8700
RL-W429	0.0000	2162.7000	2162.7000
RL-W432	0.0000	35.6000	35.6000
RL-W434	0.0000	2509.8000	2509.8000
RL-W436	0.0000	10277.7198	10277.7198

Site-Specific Remote Handled Waste Profiles

Site Name: Hanford (Richland) Site

Final Waste Form: Uncategorized Metal

Total Volume:	**0.00**	**17400.39**	**17400.39**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	241.0	74.1	0.0
Aluminum Base Metal/Alloys	6.9	0.4	0.0
Other Metal/Alloys	596.0	376.6	0.0
Other Inorganic Materials	52.0	15.5	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	12.7	0.8	0.0
Rubber	1.5	0.0	0.0
Plastics	11.4	0.5	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Remote Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Combustible

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
IN-W198.204	2.3733	0.0000	2.3733
IN-W252.282	17.8000	0.0000	17.8000
IN-W254.1045	1.1867	0.0000	1.1867
Total Volume:	**21.36**	**0.00**	**21.36**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	0.0	0.0	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	330.9	9.9	0.0
Other Inorganic Materials	50.3	14.0	3.3
Vitrified	0.0	0.0	0.0
Cellulosics	98.3	4.0	0.0
Rubber	438.7	254.1	0.0
Plastics	71.1	12.0	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

M

Site-Specific Remote Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Heterogeneous

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
IN-W169.193	17.8000	0.0000	17.8000
IN-W197.197	16.6133	0.0000	16.6133
IN-W283.964	1.1867	0.0000	1.1867
IN-W298.318	8.3067	0.0000	8.3067
IN-W306.635	2.3733	0.0000	2.3733
IN-W349.924	3.5600	0.0000	3.5600

Site-Specific Remote Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Heterogeneous

Total Volume:	**49.84**	**0.00**	**49.84**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	1146.1	44.4	0.0
Aluminum Base Metal/Alloys	55.9	3.8	0.0
Other Metal/Alloys	163.4	14.9	0.0
Other Inorganic Materials	137.4	19.5	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	572.8	55.2	0.0
Rubber	231.4	18.1	0.0
Plastics	621.9	73.9	0.0
Solidified Inorganic Material	8.9	0.3	0.0
Solidified Organic Material	5.4	0.1	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	3.1	0.2	0.0

Site-Specific Remote Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Inorganic Non-Metal

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
IN-W169.194	1.1867	0.0000	1.1867
IN-W197.198	1.1867	0.0000	1.1867
IN-W198.205	1.1867	0.0000	1.1867
IN-W208.243	1.1867	0.0000	1.1867
IN-W216.876	8.3067	0.0000	8.3067
IN-W228.884	4.7467	0.0000	4.7467
IN-W243.276	3.5600	0.0000	3.5600
IN-W243.277	1.1867	0.0000	1.1867
IN-W245.1035	2.3733	0.0000	2.3733
IN-W247.524	2.3733	0.0000	2.3733
IN-W259.921	7.1200	0.0000	7.1200
IN-W260.567	1.1867	0.0000	1.1867
IN-W296.331	4.7467	0.0000	4.7467
IN-W306.634	1.1867	0.0000	1.1867
IN-W308.621	1.1867	0.0000	1.1867
IN-W349.667	1.1867	0.0000	1.1867
IN-W364.845	1.1867	0.0000	1.1867
IN-W365.843	1.1867	0.0000	1.1867

Site-Specific Remote Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Inorganic Non-Metal

Total Volume:	**46.28**	**0.00**	**46.28**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	0.0	0.0	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	9.1	0.1	0.0
Other Inorganic Materials	592.8	35.7	0.0
Vitrified	2500.0	2051.3	0.0
Cellulosics	24.8	1.7	0.0
Rubber	6.1	0.1	0.0
Plastics	48.8	2.4	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Remote Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Lead/Cadmium Metal Waste

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
IN-W260.568	3.5600	0.0000	3.5600
Total Volume:	**3.56**	**0.00**	**3.56**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	345.0	115.6	4.7
Aluminum Base Metal/Alloys	43.1	14.2	0.2
Other Metal/Alloys	163.3	128.9	104.7
Other Inorganic Materials	29.2	10.0	0.6
Vitrified	0.0	0.0	0.0
Cellulosics	7.1	3.4	1.7
Rubber	17.4	13.2	11.2
Plastics	49.6	19.1	4.3
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.9	0.9	0.9
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

M

Site-Specific Remote Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Solidified Inorganics

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
IN-W216.877	43.9067	0.0000	43.9067
IN-W228.886	21.3600	0.0000	21.3600
Total Volume:	**65.27**	**0.00**	**65.27**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	0.0	0.0	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	2.3	1.6	0.0
Other Inorganic Materials	71.8	21.5	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	0.8	0.0	0.0
Rubber	0.0	0.0	0.0
Plastics	6.8	5.1	1.5
Solidified Inorganic Material	396.6	262.8	33.9
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	264.4	175.2	22.6
Soils	0.0	0.0	0.0

Site-Specific Remote Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Solidified Organics

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
IN-W317.1029	3.5600	0.0000	3.5600
Total Volume:	**3.56**	**0.00**	**3.56**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	0.9	0.3	0.1
Aluminum Base Metal/Alloys	0.4	0.0	0.0
Other Metal/Alloys	0.1	0.0	0.0
Other Inorganic Materials	220.4	115.4	37.8
Vitrified	0.0	0.0	0.0
Cellulosics	1.0	0.3	0.2
Rubber	0.2	0.0	0.0
Plastics	14.1	6.7	1.1
Solidified Inorganic Material	36.0	20.6	17.0
Solidified Organic Material	808.1	612.2	391.2
Cement (Solidified)	195.7	129.8	75.9
Soils	0.2	0.2	0.2

Site-Specific Remote Handled Waste Profiles

Site Name: Idaho National Engineering Laboratory

Final Waste Form: Uncategorized Metal

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
IN-W228.885	1.1867	0.0000	1.1867
IN-W294.343	9.4933	0.0000	9.4933
IN-W296.330	13.0533	0.0000	13.0533
IN-W358.949	2.3733	0.0000	2.3733
IN-W372.918	4.7467	0.0000	4.7467
Total Volume:	**30.85**	**0.00**	**30.85**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	1146.1	81.7	0.0
Aluminum Base Metal/Alloys	33.5	3.7	0.0
Other Metal/Alloys	406.9	124.7	0.0
Other Inorganic Materials	41.5	15.3	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	129.6	7.1	0.0
Rubber	11.5	1.0	0.0
Plastics	104.5	15.8	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

M

Site-Specific Remote Handled Waste Profiles

Site Name: Los Alamos National Laboratory

Final Waste Form: Combustible

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
LA-TR04	15.1300	48.9500	64.0800
Total Volume:	**15.13**	**48.95**	**64.08**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	265.2	257.7	254.0
Aluminum Base Metal/Alloys	0.4	0.4	0.4
Other Metal/Alloys	89.7	18.8	18.8
Other Inorganic Materials	6.8	6.8	6.8
Vitrified	0.0	0.0	0.0
Cellulosics	68.7	64.0	59.2
Rubber	1.2	1.1	1.0
Plastics	5.7	5.3	4.9
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Remote Handled Waste Profiles

Site Name: Los Alamos National Laboratory

Final Waste Form: Heterogeneous

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
LA-TR07	11.5700	0.0000	11.5700
Total Volume:	**11.57**	**0.00**	**11.57**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	822.2	272.6	69.2
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	91.3	30.3	7.7
Other Inorganic Materials	0.0	0.0	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	0.0	0.0	0.0
Rubber	0.0	0.0	0.0
Plastics	0.0	0.0	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

M

Site-Specific Remote Handled Waste Profiles

Site Name: Los Alamos National Laboratory

Final Waste Form: Uncategorized Metal

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
LA-TR05	50.7300	16.0200	66.7500
LA-WR01	2.6700	0.0000	2.6700
LA-WR05	14.2400	33.8200	48.0600
Total Volume:	**67.64**	**49.84**	**117.48**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	822.2	258.0	69.2
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	913.5	296.7	7.7
Other Inorganic Materials	6.8	6.8	6.8
Vitrified	0.0	0.0	0.0
Cellulosics	68.7	1.5	0.0
Rubber	1.2	0.0	0.0
Plastics	5.7	0.1	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Remote Handled Waste Profiles

Site Name: Oak Ridge National Laboratory

Final Waste Form: Heterogeneous

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
OR-W040	922.0400	240.3000	1162.3400
OR-W043	425.4200	0.0000	425.4200
OR-W054	84.5500	0.0000	84.5500
Total Volume:	**1432.01**	**240.30**	**1672.31**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	1716.4	96.2	0.0
Aluminum Base Metal/Alloys	1.6	0.0	0.0
Other Metal/Alloys	21.3	0.0	0.0
Other Inorganic Materials	24.0	2.4	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	184.6	80.9	0.0
Rubber	17.9	7.4	0.0
Plastics	149.0	64.9	0.0
Solidified Inorganic Material	0.0	0.0	0.0
Solidified Organic Material	3.0	0.0	0.0
Cement (Solidified)	0.0	0.0	0.0
Soils	0.0	0.0	0.0

Site-Specific Remote Handled Waste Profiles

Site Name: Oak Ridge National Laboratory

Final Waste Form: Solidified Inorganics

Waste Stream ID	Retrievably Stored (m3)	Projected (m3)	Total (m3)
OR-W042	175.3300	0.0000	175.3300
OR-W046	861.5200	206.4800	1068.0000
Total Volume:	**1036.85**	**206.48**	**1243.33**

Waste Material Parameters (kg/m3)	Maximum	Average	Minimum
Iron Base Metal/Alloys	0.0	0.0	0.0
Aluminum Base Metal/Alloys	0.0	0.0	0.0
Other Metal/Alloys	0.0	0.0	0.0
Other Inorganic Materials	0.0	0.0	0.0
Vitrified	0.0	0.0	0.0
Cellulosics	0.0	0.0	0.0
Rubber	0.0	0.0	0.0
Plastics	0.0	0.0	0.0
Solidified Inorganic Material	528.9	396.6	173.1
Solidified Organic Material	0.0	0.0	0.0
Cement (Solidified)	528.9	396.6	173.1
Soils	0.0	0.0	0.0

APPENDIX B

APPENDIX B

Sandia National Laboratories

Managed and Operated by Sandia Corporation
a Lockheed Martin Company
Albuquerque, New Mexico 87185-1328

date : November 6, 1995

to : R. L. Bisping, DOE/CAO, WOIC 3, MS-560

from : L. C. Sanchez, Org 6342, MS-1328 (505)848-0685

subject : **CH and RH-TRU Waste Parameters Potentially Important in WIPP PA**

A) **Requested PA Data From TWBIR**

Below you will find an updated list of waste material parameters that have been identified as being potentially important to the performance analysis of the WIPP repository. It is requested that these parameters be be supplied in Rev. 2 of the Transuranic Waste Baseline Inventory Report (TWBIR). Itemized below you will find the two categories of requested waste parameter data.

1) **Non-radioactive Materials**
The non-radioactive materials are those which influence gas generation potential and those that are needed for mechanical models which predict waste consolidation and shear strength properties. The list of the non-radioactive materials is shown in Table 1.

2) **Radionuclide**
At this time there are no new requests for additional radionuclide inventory data beyond those previously reported in Rev. 1 of the WTWBIR. If there are significant inventory increases in radionuclides due to special circumstances (such as inclusion of residues to the TRU inventory), sufficient footnote explanations should be supplied.

Table 1. Justification of TWBIR Nonradioactive Waste Parameters.

Waste Parameter	Input Variable in Current PA Models		Input Variable in PA Models Under Development	Input Variable in Possible Future PA Models
	Gas Generation	Mechanical Characteristics		
Iron-Based Metals and Alloys	X	X	X	X
Aluminum-Based Metals and Alloys (a)		X	X	
Other Metals		X		?
Other Inorganics		X		?
Cellulosics	X	X	X	X
Plastics	½ (b)	X	X (d)	X
Rubbers	½ (b)	X	X (e)	X
Solidified Inorganics		X	X	X
Solidified Organics Matrix		X	X	X
Soils (c)		X	?	?

(a) Future model for PA does not include aluminum.
(b) Only one-half of material is assumed to generate gas.
(c) May impact colloids.
(d) As is.
(e) Percentage of material to generate gas is unknown at the present time.

B) Special Request Non-PA Items

Also wanted at this time is additional information for several waste material characteristics. Although these characteristics have not been identified as waste material parameters to be used for WIPP PA, they are needed for non-PA scoping calculations to assess their influence on PA. Since these items are not currently PA parameters, inventory estimates of these characteristics as "additional information" in the TWBIR or supplied outside of the TWBIR via written correspondence. Below you will find an itemized list of these special request items.

1) **Non-radioactive Materials**
Additional information is needed on the five waste material characteristics (see Table 2): 1) vitrified wastes, 2) nitrates (NO_3^-), 3) sulfates (SO_4^{2-}), 4) phosphorus, and 5) cement. Of these waste parameters, the last four are needed for the gas generation modeling. The nitrates and the sulfates are involved in the denitrification and sulfate reduction processes which breakup the cellulosics, while the phosphorus is a nutrient for biodecay of cellulosics. The estimate of the mass quantities of cement in the waste inventory should include both the cement that is contained in the waste as cement itself (due to D&D activities, etc.,) and the cement found in various sludges. Cement consumes CO_2 due to its content of $Ca(OH)_2$. The estimates for this non-radioactive waste constituent need only be "best estimates" at this present time so that non-PA scoping calculations can be made to determine their importance on overall repository performance. (Do not generate upper-bound estimates that are overly conservative.)

2) **Residues**
"Best estimates" are needed for residues, in addition to those already identified at the Rocky Flats Plant (RFP), that have the possibility of being changed from a resource category to a TRU waste category.

3) **Organic Ligands (Chelating Agents)**
"Best estimates", from currently available information, are needed for major water-soluble organic ligands which are under consideration for the actinide source term (see Table 3). If it is not possible to obtain data from major waste generating sites then supply guidance on how a first-order estimate may be made (from existing information such as process knowledge etc.,) so that non-PA scoping calculations can be performed to identify if the presence of these ligands would have any significant impacts. (Do not generate estimates that are overly conservative.) Requested data is for final form "process-level" quantities used in production only for the key sites. If information on the "process-level" values does not exist at the key sites, then "laboratory-scale" values should be used in the requested assessment of the inventory. Should it be determined that more detailed information on organic ligands will be needed, you will be given a specific written request at a future time. This effort should be performed in parallel with the TWBIR. Technical data should be supplied in memorandum form by the end of February 1996 with supporting documentation by the end of March 1996.

Table 2. Justification of Special Request Non-PA Non-Radioactive Waste Materials. (a)

Waste Parameter	Input Variable in Current PA Models		Input Variable in PA Models Under Development	Input Variable in Possible Future PA Models
	Gas Generation	Mechanical Characteristics		
Vitrified (b)		X	?	?
Nitrates (NO_3)	X (c)		X	?
Sulfates (SO_4)	X (c)		X	?
Phosphorus	X (c)		X	?
Cement (d)	X		X	?

(a) Information on these additional waste materials are needed for non-PA scoping calculations for assessment of their importance. These waste characteristics can be reported at the "best estimate" level.
(b) New waste parameter corresponding to treatment, identified by some of the sites, to be anticipated in the future.
(c) Input variable is of concern when predicting the rates of microbial action and is used in currently existing reaction path model, which will not become a baseline PA model.
(d) Any concrete or cement (including dry portland cement) that contains calcium oxide.

Table 3. Justification of Special Request For Info On Organic Complexing Agents. (a)

Ligand (b)	Discussion (c)
1) Total Complexants	The most valuable information at this time is a "best estimate" of the total amount of water soluble complexing agents (ligands) in the TRU waste matrix.
2) Citrate	Preliminary information indicates that citrate (citric acid) may be the largest used ligand at TRU waste generating sites. Hence, inventory quantities are very important.
3) Lactate	This is an important ligand that is produced by bacteria as part of its own metabolism. What is requested here is a "best estimate" of the quantity of lactate that actually exists in the TRU waste matrix (not just an initial amount supplied as part of a waste stream). However, if this information cannot be developed, then supply information on the initial amount.
4) Oxalate	This is an important ligand that is produced by bacteria as part of its own metabolism. What is requested here is a "best estimate" of the quantity of oxalate that actually exists in the TRU waste matrix (not just an initial amount supplied as part of a waste stream). However, if this information cannot be developed, then supply information on the initial amount.
5) EDTA	This ligand (ethylenediaminetetraacetic acid) is also of major importance due to its common use as a cleaning solvent.

(a) Information on these additional waste materials are needed for non-PA scoping calculations for assessment of their importance. The presence of these complexing agents are important for the actinide source term, with respect to increasing the solubility of radionuclides.
(b) These items are ranked in the order of their importance in the actinide source term.
(c) Also supply any available information that TRU waste generation sites may have on the degradation or decay rates of ligands in current (and expected) waste matrixes if possible. In cases where no information is available, supply guidance on estimating first-order quantities.

LCS:6741:lcs/(95-2082)

Copy to:
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S. Chakraborti [Science Applications International Corporation]
MS-1320, C.F. Novak [Dept. 6119]
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APPENDIX B

MS-1328, M.S. Tierney [Dept. 6741]
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MS-1495, P.E. Sanchez [Dept. 6700]
MS-1328, Day File [Dept. 6741]
MS-1328, L.C. Sanchez [Dept. 6741]
File - SWCF-A WBS 1.1.6.2; PA; PBWAC - WIPP ACTIVITY

APPENDIX C

APPENDIX C

TWBIR

DATA REQUIREMENTS

REVISION 8

APRIL 14, 1995

M

1.1.1 DOE Site Name: _____

2.1.1 Unique HQ WS ID: _____

2.1.2 Site WS ID: _____

2.1.3 Waste Stream Name: _____

2.1.4 PSTP WS ID: _____

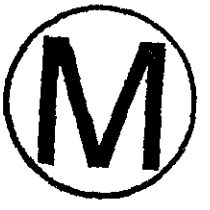
2.3 Waste Stream Source

2.3.1 Waste Stream Source Description:

_____
_____
_____
_____

2.3.2 Source Category (choose only one)

- o Pollution Control or Waste Treatment Process
- o Materials Production/Recovery Effluents
- o Facility/Equipment Operation and Maintenance Waste
- o Discarding Excess/Expired Materials
- o Analytical Laboratory Waste
- o R&D/R&D Laboratory Waste
- o Remediation/D&D Waste
- o Spill Clean-ups/Emergency Response Actions
- o Other/Multiple Sources
- o Source Information Not Compiled
- o Source Unknown



2.3.3 Name of the site(s) that generated this waste stream: _____

3.1 Waste Stream Description:

_____
_____
_____
_____
_____

3.2.1 Waste Type: o HLW o MTRU o TRU o MLLW o M11e(2)

3.2.2 Contact Handled or Remote Handled: o CH o RH

3.2.6 Radionuclides

Radionuclide	Concentration			Basis
	Typical	Range	Units	(S, P, B or U)

3.4.3 EPA/State Regulated Contaminant List

EPA/ STATE CODE	LDR CODE	CONTAMINANT NAME	CONCENTRATION (Typical or Range)	UNIT	BASIS S/P/B/U	Total or Extract

S = Sampling; P = Process Knowledge; B = Both; U = Unknown

3.4.4 Does this waste stream contain PCB's?
○ Yes ○ No ○ Unknown

3.4.4.1 Is this waste stream subject to TSCA regulations for PCB's?
○ Yes ○ No ○ Unknown

3.4.4.2 If yes, indicate the PCB concentration range (ppm):
○ <50 ○ $50 \leq$ PCB's < 500 ○ ≥ 500 ○ Unknown

3.4.6 Does this waste stream contain asbestos?
○ Yes ○ No ○ Unknown

3.4.6.1 Is this waste stream subject to TSCA or CAA regulations for asbestos?
○ Yes ○ No ○ Unknown

3.4.6.2 If asbestos is known, or believed, to be present, provide details on the condition of the asbestos:

_____
_____
_____
_____

8. WIPP Transuranic Waste Baseline Inventory Report (WTWBIR) Data Requirements

8.1 Provide the WTWBIR WS ID numbers that apply to this MWIR WS:

8.1.1 _____
8.1.2 _____
8.1.3 _____
8.1.4 _____

M

8.2 WTWBIR Level of Information (Repeat this section for each WTWBIR WS ID listed in section 8.1)

8.2.1 WTWBIR WS ID: _____ WTWBIR Waste Stream Name: _____

8.2.2 Unique HQ WS ID: _____ MWIR Waste Stream Name: _____

Waste Stream Difference Comments: _____
_____
_____

8.2.3 Final Waste Form Group (Select the one that best represents the overall waste stream):

____ Combustible
____ Filter
____ Graphite
____ Heterogeneous
____ Inorganic Non-Metal
____ Lead/Cadmium Metal Waste
____ Salt Waste
____ Soils
____ Solidified Inorganics
____ Solidified Organics
____ Uncategorized Metal
____ Unknown

8.2.4 Does this WTWBIR waste stream contain residues?

____ Yes
____ No

8.2.5 What best describes the source of this WTWBIR waste stream (Check only one)?

____ Commercial TRU Waste
____ Defense TRU Waste
____ Non-Defense TRU Waste
____ Unknown

8.2.6 What is the No Migration Variance Petition (NMVP) ID for this WTWBIR waste stream? _____

8.2.7 What TRUCON codes apply to this WTWBIR waste stream?

_____
_____
_____
_____

8.2.8 What final waste form IDC's apply to this WTWBIR waste stream?

_____
_____
_____
_____

8.2.9 Is the information for this WTWBIR waste stream the same as provided for the MWIR waste stream for section 2.3?

____ Yes
____ No

If Yes, go to section 8.2.10
If No, continue

8.2.9.1 Waste Stream Source Description

_____
_____
_____
_____

8.2.9.2 Source Category (choose only one)

____ Pollution Control or Waste Treatment Process
____ Materials Production/Recovery Effluents
____ Facility/Equipment Operation and Maintenance Waste
____ Discarding Excess/Expired Materials
____ Analytical Laboratory Waste
____ R&D/R&D Laboratory Waste
____ Remediation/D&D Waste
____ Spill Clean-ups/Emergency Response Actions
____ Other/Multiple Sources
____ Source Information Not Compiled
____ Source Unknown

8.2.10 Is the information for this WTWBIR waste stream the same as provided for the MWIR waste stream in section 3.4.3?

____ Yes
____ No

If Yes, go to section 8.2.11
If No, continue

M

8.2.10.1 EPA/State Regulated Contaminant List						
EPA/ STATE CODE	LDR CODE	CONTAMINANT NAME	CONCENTRATION (Typical or Range)	UNIT	BASIS S/P/E/U	Total or Extract

S = Sampling; P = Process Knowledge; E = Calc; U = Unknown

8.2.11 Does this WTWBIR waste stream contain the following in concentrations greater than 1 wt%?		
Component	Y/N	Estimated Concentration (wt%)
Nitrates		
Sulfates		
Phosphate		

8.2.12 List the container types and sizes that are used/have been used/will be used to store this WTWBIR waste stream (e.g., Drum/55 gal; Box/4 x 4 x 7 ft; box/112 ft3; SWB):		
Current Container Type/Size:	Radionuclides same as 3.2.6? (Y/N)	Comments:

M

8.2.13 Select the container types that will be used to ship the final forms of this WTWBIR waste stream to WIPP (indicate all that apply):		
Container:	(Y/N)	Radionuclides same as 3.2.6? (Y/N)
55 Gallon Drum		
Standard Waste Box		
SWB used to overpack 55 gallon drums		
RH Canister		
RH Canister used to overpack 55 gallon drums		
RH Canister used to overpack 30 gallon drums		

M

8.2.14 Current Container Information for this WTWBIR waste stream:

8.2.14.1 Current Container Type/Size: _____

8.2.14.1.1 Material of Construction (Check all that apply)?

____ Cement
____ Plastic
____ Steel, Carbon
____ Steel, Galvanized
____ Steel, Stainless
____ Wood
____ Other: _____

8.2.14.1.2 Liner Types (check all that apply):

____ Bag
____ Drum
____ Rigid liner
____ Shielding
____ None

8.2.14.1.3 Liner Material (check all that apply):

____ Cement
____ Fiberboard
____ HDPE
____ Lead
____ None
____ Plastic
____ Steel
____ Wood
____ Other: _____

8.2.14.1.4 Internal Volume (payload volume) per container (M3): ____

NOTE: If the current container type includes several sizes, use the average internal volume of all the sizes (e.g., 55 gal + 30 gal + 70 gal = 52 gal X 0.0038 M3/gal = 0.20 M3).

8.2.14.1.5 Estimated % containers less than 350 lb/container (required only for drums): ____

8.2.14.1.6 Estimated % containers between 350 and 500 lbs/container (required only for drums): ____

8.2.14.1.7 Estimated % of containers with less than 23 Pu-239 Fissile Gram Equivalents (required only for drums): _____

8.2.14.1.8 Estimated % of containers with between 23 and 200 Pu-239 Fissile Gram Equivalents (required only for drums): _____

8.2.14.1.9 Number Currently in storage: _____

8.2.14.1.10 Date of this inventory: _____

8.2.14.1.11 Total Number of these containers projected from date of inventory to end of 2022 (Do not include the current inventory): _____

8.2.14.1.12 Estimated TRU Waste Generation by number of containers:		
WTWBIR WS ID:		
Container Type/Size:		
Year	Number of Containers Projected	Comments
1993	(*)	
1994		
1995		
1996		
1997		
1998		
1999		
2000		
2001		
2002		
2003		
2004		
2005		
2006		
2007		

2008		
2009		
2010		
2011		
2012		
2013		
2014		
2015		
2016		
2017		
2018		
2019		
2020		
2021		
2022		

(*) Indicate 0 if the entire calendar year is included in the "Number Currently in Storage".

8.2.14.1.13 WAC Revision 3 Certifiability

8.2.14.1.13.1 Is all of this current container type/size certifiable to WIPP WAC Revision 3?

____ Yes (100% of the containers are certifiable)
____ No

If Yes, go to section 8.2.14.1.14
If No, continue

8.2.14.1.13.2 What % of these containers are non-certifiable? _____

8.2.14.1.13.3 For containers not certifiable to WIPP WAC Revision 3, is it due to:

8.2.14.1.13.3.1 Repackaging Required?

____ No (repackaging is not required)
____ Yes (repackaging is required)

If No, go to section 8.2.14.1.13.3.2
If Yes, continue

8.2.14.1.13.3.1.1 What % of the non-certifiable containers require repackaging?

____

8.2.14.1.13.3.1.2 WAC repackaging requirement table		
Repackaging Cause:	Y/N	% of Containers affected (0 - 100)
Particulates		
Pu Equivalent		
Nonapproved Container		
Curies/Vol (RH)		
Dose Rates		
Liquids		
Explosives/Pyrophorics		
Surface Contamination		
Other: _____		

8.2.14.1.13.3.2 Treatment Required

____ No (treatment is not required)
____ Yes (treatment is required)

If No, go to section 8.2.14.1.14
If Yes, continue

8.2.14.1.13.3.2.1 What % of the non-certifiable containers require treatment?

____

8.2.14.1.13.3.2.2 WAC treatment requirements table		
Treatment Cause:	Y/N	% of Containers affected (0 - 100)
PCBs		
Corrosives		
Reactives		
Ignitables		
Liquids		
Particulates		
Other: _____		

8.2.14.1.14 TRAMPAC Certifiability

8.2.14.1.14.1 Is all of this current container type/size certifiable to TRAMPAC (shipment to WIPP via TRUPACT-II)?

____ Yes (100% of the containers are certifiable)
____ No

If Yes, go to section 8.2.14.2 or 8.2.15 (as applicable)
If No, continue

8.2.14.1.14.2 What % of these containers are non-certifiable? _____

8.2.14.1.14.3 For containers not certifiable to TRAMPAC (shipment to WIPP via TRUPACT-II) is it due to:

8.2.14.1.14.3.1 Filters/liner vents?

____ No (filters/liner vents not required)
____ Yes (filters/liner vents are required)

If No, go to section 8.2.14.1.14.3.2
If Yes, continue

8.2.14.1.14.3.1.1 What % of the non-certifiable containers require filters/liner vents? ____

8.2.14.1.14.3.2 Repackaging Required?

____ No (repackaging is not required)
____ Yes (repackaging is required)

If No, go to section 8.2.14.1.14.3.3
If Yes, continue

8.2.14.1.14.3.2.1 What % of the non-certifiable containers require repackaging? _____

8.2.14.1.14.3.2.2 TRAMPAC repackaging requirements table		
Repackaging Cause:	Y/N	% of Containers affected (0 - 100)
Watt Limit		
Chemical Compatibility		
Liquids		
Packaging Configuration (*)		
Explosives/Pyrophorics		
Corrosives		
Compressed gases		
VOCs (flammable - 500 ppm limit)		
Dose Rate		
Shielding		
Not in TRUCON		
Nonapproved Container		
Other: _____		

(*) Sealed containers, layers of packaging per TRUCON, etc.

8.2.14.1.14.3.3 Treatment required?

_____ No (treatment is not required)
_____ Yes (treatment is required)

If No, go to section 8.2.14.2 or 8.2.15 (as applicable)
If Yes, continue

8.2.14.1.14.3.3.1 What % of the non-certifiable containers require treatment?

_____

8.2.14.1.14.3.3.2 TRAMPAC treatment requirements table		
Treatment Cause:	Y/N	% of Containers affected (0 - 100)
PCBs		
Corrosives		
Reactives		
Ignitables		
Liquids		
Particulates		
Other: _____		

8.2.14.1.14.3.4 Current Container comments:

_____

_____

_____

8.2.15 Final Waste Form Container information for this WTWBIR waste stream

8.2.15.1 Container Type: The final waste form is or will be packaged in WIPP acceptable 55 Gallon Drums?

____ No (Go to 8.2.15.2)
____ Yes, continue

8.2.15.1.1 Container Material (Check all that apply):

____ Steel, Carbon
____ Steel, Galvanized
____ Steel, Stainless
____ Other: _____

8.2.15.1.2 Liner Type (Check all that apply):

____ Bag
____ Drum
____ Rigid liner
____ Shielding
____ None

8.2.15.1.3 Liner Material (Check all that apply):

____ Cement
____ Fiberboard
____ HDPE
____ Lead
____ None
____ Plastic
____ Steel
____ Wood
____ Other: _____

8.2.15.1.4 Internal Volume (payload volume) per Container (M3): 0.208

8.2.15.1.5 Estimated % containers less than 350 lbs/container: ____

8.2.15.1.6 Estimated % containers between 350 and 500 lbs/container: ____

8.2.15.1.7 Estimated % of containers with less than 23 Pu-239 Fissile Gram Equivalents: ____

8.2.15.1.8 Estimated % of containers with between 23 and 200 Pu-239 Fissile Gram Equivalents: ____

8.2.15.1.9 Number Currently in storage: _____

8.2.15.1.10 Date of this inventory: _____

8.2.15.1.11 Total Number of these containers projected from date of inventory to the end of 2022 (Do not include the current inventory): _____

8.2.15.1.12 Comments (55 Gallon Drum):

_____

_____

8.2.15.1.13 Estimated Rates of TRU Waste Generation (Number of Containers)		
WTWBIR WS ID:		
Container Type: 55 Gallon Drum		
Year	Projected Number of Container Type	Comments
1993	(*)	
1994		
1995		
1996		
1997		
1998		
1999		
2000		
2001		
2002		
2003		
2004		
2005		
2006		

M

2007		
2008		
2009		
2010		
2011		
2012		
2013		
2014		
2015		
2016		
2017		
2018		
2019		
2020		
2021		
2022		

NOTE: (*) Indicate 0 if the entire calendar year is included in the "Number Currently in Storage".

8.2.15.1.14 Typical Waste Material Weights for Final Waste Form (Kg/M3)				
WTWBIR WS ID:				
Container Type: 55 Gallon Drum				
Material Parameters	Average	Lower Limit	Upper Limit	Comment
Iron-Based Metal				
Aluminum-Based Metal				
Other Metal				

Other Inorganic Materials				
Cellulosics				
Rubber				
Plastics				
Solidified, Inorganic Matrix				
Solidified, Organic Matrix				
Soils				
Packaging Material, Steel	131	0	0	
Packaging Material, Plastic	37	0	0	

8.2.15.2 Container Type: The final waste form is or will be packaged in WIPP acceptable Standard Waste Boxes?

____ No (Go to 8.2.15.3)
____ Yes, continue

8.2.15.2.1 Container Material (Check all that apply):

XXXX Steel, Carbon
____ Steel, Galvanized
____ Steel, Stainless
____ Other: _____

8.2.15.2.2 Liner Type (Check all that apply):

____ Bag
____ Drum
____ Rigid liner
____ Shielding
____ None

8.2.15.2.3 Liner Material (Check all that apply):

____ Cement
____ Fiberboard
____ HDPE
____ Lead
____ None
____ Plastic
____ Steel
____ Wood
____ Other: _____

M

8.2.15.2.4 Internal Volume (payload volume) per Container (M3): 1.89

8.2.15.2.5 Number Currently in storage: _____

8.2.15.2.6 Date of this inventory: _____

8.2.15.2.7 Total Number of these containers projected from date of inventory to the end of 2022 (Do not include the current inventory): _____

8.2.15.2.8 Ccomments (Standard Waste Box):

8.2.15.2.9 Estimated Rates of TRU Waste Generation (Number of Containers)		
WTWBIR WS ID:		
Container Type: Standard Waste Box		
Year	Projected Number of Container Type	Comments
1993	(*)	
1994		
1995		
1996		
1997		
1998		
1999		
2000		
2001		
2002		
2003		
2004		
2005		
2006		
2007		
2008		
2009		

2010		
2011		
2012		
2013		
2014		
2015		
2016		
2017		
2018		
2019		
2020		
2021		
2022		

(*) Indicate 0 if the entire calendar year is included in the "Number Currently in Storage".

8.2.15.2.10 Typical Waste Material Weights for Final Waste Form (Kg/M3)				
WTWBIR WS ID:				
Container Type: Standard Waste Box				
Material Parameters	Average	Lower Limit	Upper Limit	Comment
Iron-Based Metal				
Aluminum-Based Metal				
Other Metal				
Other Inorganic Materials				
Cellulosics				
Rubber				

Plastics				
Solidified, Inorganic Matrix				
Solidified, Organic Matrix				
Soils				
Packaging Material, Steel	154	0	0	
Packaging Material, Plastic	1.2	0	0	

M

8.2.15.3 Container Type: The final waste form is or will be packaged in WIPP acceptable Standard Waste Boxes (SWB) used to overpack 55 gallon drums?

____ No (Go to 8.2.15.4)
____ Yes, continue

8.2.15.3.1 Container Material (Check all that apply):

XXXX Steel, Carbon
____ Steel, Galvanized
____ Steel, Stainless
____ Other: _____

8.2.15.3.2 Liner Type (Check all that apply):

____ Bag
____ Drum
____ Rigid liner
____ Shielding
____ None

8.2.15.3.3 Liner Material (Check all that apply):

____ Cement
____ Fiberboard
____ HDPE
____ Lead
____ None
____ Plastic
____ Steel
____ Wood
____ Other: _____

M

8.2.15.3.4 Internal Volume (payload volume) per Container (M3): 1.89

8.2.15.3.5 Number Currently in storage: _____

8.2.15.3.6 Date of this inventory: _____

8.2.15.3.7 Total Number of these containers projected from the date of inventory to the end of 2022 (Do not include the current inventory):

_____

8.2.15.3.8 Comments (SWB used to overpack 55 gallon drums):

8.2.15.3.9 Estimated Rates of TRU Waste Generation (Number of Containers)		
WTWBIR WS ID:		
Container Type: SWB used to overpack 55 gallon drums		
Year	Projected Number of Container Type	Comments
1993	(*)	
1994		
1995		
1996		
1997		
1998		
1999		
2000		
2001		
2002		
2003		
2004		
2005		
2006		
2007		
2008		

2009		
2010		
2011		
2012		
2013		
2014		
2015		
2016		
2017		
2018		
2019		
2020		
2021		
2022		

(*) Indicate 0 if the entire calendar year is included in the "Number Currently in Storage".

8.2.15.3.10 Typical Waste Material Weights for Final Waste Form (Kg/M3)				
WTWBIR WS ID:				
Container Type: SWB used to overpack 55 gallon drums				
Material Parameters	Average	Lower Limit	Upper Limit	Comment
Iron-Based Metal				
Aluminum-Based Metal				
Other Metal				
Other Inorganic Materials				
Cellulosics				

Rubber				
Plastics				
Solidified. Inorganic Matrix				
Solidified. Organic Matrix				
Soils				
Packaging Material. Steel	212	0	0	
Packaging Material. Plastic	17.5	0	0	

M

8.2.15.4 Container Type: The final waste form is or will be packaged in WIPP acceptable RH Canisters?

____ No (Go to 8.2.15.5)
____ Yes, continue

8.2.15.4.1 Container Material (Check all that apply):

XXXX Steel, Carbon
____ Steel, Galvanized
____ Steel, Stainless
____ Other: _____

8.2.15.4.2 Liner Type (Check all that apply):

____ Bag
____ Drum
____ Rigid liner
____ Shielding
____ None

8.2.15.4.3 Liner Material (Check all that apply):

____ Cement
____ Fiberboard
____ HDPE
____ Lead
____ None
____ Plastic
____ Steel
____ Wood
____ Other: _____

M

8.2.15.4.4 Internal Volume (payload volume) per Container (M3): 0.89

8.2.15.4.5 Number Currently in storage: _____

8.2.15.4.6 Date of this inventory: _____

8.2.15.4.7 Total Number of these containers projected from date of inventory to the end of 2022 (Do not include the current inventory): _____

8.2.15.4.8 Comments (RH Canister):

8.2.15.4.9 Estimated Rates of TRU Waste Generation (Number of Containers)		
WTWBIR WS ID:		
Container Type: RH Canister		
Year	Projected Number of Container Type	Comments
1993	(*)	
1994		
1995		
1996		
1997		
1998		
1999		
2000		
2001		
2002		
2003		
2004		
2005		
2006		
2007		
2008		
2009		

2010		
2011		
2012		
2013		
2014		
2015		
2016		
2017		
2018		
2019		
2020		
2021		
2022		

(*) Indicate 0 if the entire calendar year is included in the "Number Currently in Storage".

8.2.15.4.10 Typical Waste Material Weights for Final Waste Form (Kg/M3)				
WTWBIR WS ID:				
Container Type: RH Canister				
Material Parameters	Average	Lower Limit	Upper Limit	Comment
Iron-Based Metal				
Aluminum-Based Metal				
Other Metal				
Other Inorganic Materials				
Cellulosics				
Rubber				

Plastics				
Solidified, Inorganic Matrix				
Solidified, Organic Matrix				
Soils				
Packaging Material, Steel	435	0	0	
Packaging Material, Plastic	0	0	0	

M

8.2.15.5 Container Type: The final waste form is or will be packaged in WIPP acceptable RH Canisters used to overpack 55 gallon drums?

____ No (Go to 8.2.15.6)
____ Yes, continue

8.2.15.5.1 Container Material (Check all that apply):

XXXX Steel, Carbon
____ Steel, Galvanized
____ Steel, Stainless
____ Other: _____

8.2.15.5.2 Liner Type (Check all that apply):

____ Bag
____ Drum
____ Rigid liner
____ Shielding
____ None

8.2.15.5.3 Liner Material (Check all that apply):

____ Cement
____ Fiberboard
____ HDPE
____ Lead
____ None
____ Plastic
____ Steel
____ Wood
____ Other: _____

M

8.2.15.5.4 Internal Volume (payload volume) per Container (M3): 0.89

8.2.15.5.5 Number Currently in storage: _____

8.2.15.5.6 Date of this inventory: _____

8.2.15.5.7 Total Number of these containers projected from the date of inventory to the end of 2022 (Do not include the current inventory):

_____

8.2.15.5.8 Comments (RH Canisters used to overpack 55 gallon drums):

8.2.15.5.9 Estimated Rates of TRU Waste Generation (Number of Containers)		
WTWBIR WS ID:		
Container Type: RH Canister used to overpack 55 Gallon drums		
Year	Projected Number of Container Type	Comments
1993	(*)	
1994		
1995		
1996		
1997		
1998		
1999		
2000		
2001		
2002		
2003		
2004		
2005		
2006		
2007		
2008		

M

2009		
2010		
2011		
2012		
2013		
2014		
2015		
2016		
2017		
2018		
2019		
2020		
2021		
2022		

(*) Indicate 0 if the entire calendar year is included in the "Number Currently in Storage".

8.2.15.5.10 Typical Waste Material Weights for Final Waste Form (Kg/M3)				
WTWBIR WS ID:				
Container Type: RH canister used to overpack 55 gallon drums				
Material Parameters	Average	Lower Limit	Upper Limit	Comment
Iron-Based Metal				
Aluminum-Based Metal				
Other Metal				
Other Inorganic Materials				
Cellulosics				

Rubber				
Plastics				
Solidified, Inorganic Matrix				
Solidified, Organic Matrix				
Soils				
Packaging Material, Steel	527	0	0	
Packaging Material, Plastic	26	0	0	

8.2.15.6 Container Type: The final waste form is or will be packaged in WIPP acceptable RH Canisters used to overpack 30 gallon drums?

____ No (Go to 8.3 if applicable)
____ Yes, continue

8.2.15.6.1 Container Material (Check all that apply):

XXXX Steel, Carbon
____ Steel, Galvanized
____ Steel, Stainless
____ Other: _____

8.2.15.6.2 Liner Type (Check all that apply):

____ Bag
____ Drum
____ Rigid liner
____ Shielding
____ None

8.2.15.6.3 Liner Material (Check all that apply):

____ Cement
____ Fiberboard
____ HDPE
____ Lead
____ None
____ Plastic
____ Steel
____ Wood
____ Other: _____

M

8.2.15.6.4 Internal Volume (payload volume) per Container (M3): 0.89

8.2.15.6.5 Number Currently in storage: _____

8.2.15.6.6 Date of this inventory: _____

8.2.15.6.7 Total Number of these containers projected from date of inventory to the end of 2022 (Do not include the current inventory): _____

8.2.15.6.8 Comments (RH Canisters used to overpack 30 gallon drums):

8.2.15.6.9 Estimated Rates of TRU Waste Generation (Number of Containers)		
WTWBIR WS ID:		
Container Type: RH Canister used to overpack 30 gallon drums		
Year	Projected Number of Container Type	Comments
1993	(*)	
1994		
1995		
1996		
1997		
1998		
1999		
2000		
2001		
2002		
2003		
2004		
2005		
2006		
2007		
2008		

2009		
2010		
2011		
2012		
2013		
2014		
2015		
2016		
2017		
2018		
2019		
2020		
2021		
2022		

(*) Indicate 0 if the entire calendar year is included in the "Number Currently in Storage".

8.2.15.6.10 Typical Waste Material Weights for Final Waste Form (Kg/M3)				
WTWBIR WS ID:				
Container Type: RH Canister used to overpack 30 gallon drums				
Material Parameters	Average	Lower Limit	Upper Limit	Comment
Iron-Based Metal				
Aluminum-Based Metal				
Other Metal				
Other Inorganic Materials				
Cellulosics				

Rubber				
Plastics				
Solidified, Inorganic Matrix				
Solidified, Organic Matrix				
Soils				
Packaging Material, Steel	485	0	0	
Packaging Material, Plastic	14	0	0	

3/13/95

WTWBIR DATA ENTRY INSTRUCTIONS FOR SECTION 8: MIXED AND NON MIXED TRU WASTE DATA

M

WTWBIR Data Entry Instructions

8. WIPP Transuranic Waste Baseline Inventory Report (WTWBIR) Data Requirements

General Instructions: This section should be completed for all mixed and non mixed TRU waste streams. If the site includes additional information in the comment entry for this section, list the question number in the section to which the comment applies in the comment section.

8. 1 Provide the WTWBIR WS ID numbers that apply to this MWIR WS:

Provide the applicable WTWBIR WS ID number for the waste stream. These should be the same numbers used in WTWBIR revision 1, unless the site has divided the streams to better comply with WIPP requirements or this is a stream not included in WTWBIR revision 1. There may be more than one WTWBIR stream for each MWIR stream and section 8.2 must be filled out for each WTWBIR stream. If a WTWBIR waste stream is deleted, please indicate the reason for the deletion in the data submittal.

8.2 WTWBIR Level of Information (Repeat this section for each WTWBIR WS ID listed in section 8.1)

8.2.1 Provide the WTWBIR WS ID for the waste stream data to be entered in the following sections.

8.2.2 Provide the applicable MWIR ID. The comment field should be used to describe the difference between the MWIR stream and the WTWBIR stream. If applicable, describe how the MWIR stream is subdivided.

8.2.3 Check the Final Waste Form Group that best describes the final form of this waste stream as it will arrive at WIPP. These groups are broad and it should be possible to check one of the groups other than "Unknown". Do not check "Unknown" unless it is justifiable. The choice for the Final Waste Form Group should be based on the new MWIR treatability guidance that was just published. A table showing a match between treatability groups and final waste form groups is attached to these instructions.

8.2.4 Check yes or no. residues are quantities of plutonium or plutonium contaminated material which are or have been previously defined as containing economically recoverable plutonium. Unless the materials are officially defined as residues, "No" should be checked.

8.2.5 Check one of the selections. If unknown is selected, provide additional information in the comments section. The additional information should describe why the source of the waste is unknown. Only on source can be checked. If the waste originates from more than one source, the waste stream must be divided into two or more waste streams.

8.2.6 List the NMVP ID. If this waste did not appear in the NMVP, leave blank.

8.2.7 List the applicable TRUCON codes. Only list TRUCON codes that have been officially assigned through the appropriate WIPP procedures and appear in revision 6 of TRUCON.

8.2.8 List the IDCs or other site identifiers for this waste stream that apply to the waste form as it will be received by the WIPP.

8.2.9 & 8.2.10 Complete these questions for this specific WTWBIR WS ID stream if it differs from that provided in the MWIR section of the report. The instructions for these questions are the same as provided for the referenced MWIR sections except for the following additions and clarifications.

The answer to 8.2.9.1 should describe the processes producing the waste, the inputs and outputs for the processes and the buildings or areas which generated the waste. This description should include all major inputs into the process, any reactions that changed materials in the process and any additions to the waste stream which resulted in the final waste form. Unless further treatment is planned before shipment to WIPP, The description should be consistent with the Final Waste Form Group in section 8.2.3 and the distribution of waste material parameters to be provided in section 8.2.15.3.10.

Information in addition to that requested in the MWIR section is being requested by WIPP for Table 8.2.10.1. List all the RCRA Appendix VIII contaminants which occur in this waste stream. These additional entries should be entered without an EPA code. Provide state codes, if applicable, for the Appendix VIII constituents.

8.2.11 Provide estimates for the specified components in the waste stream. If the answer in the Y/N column is Y, but no estimated concentration can be provided, describe the source of the component and the reason for the unknown estimated concentration.

8.2.12 List the container types/sizes in which the waste is currently stored or in which the waste will be stored as it is generated in the future. This table defines those containers for which additional information will be requested in section 8.2.14. List all waste containers whether in final form containers that comply with WIPP WAC revision 3 and the TRAMPAC or non compliant containers in this table. Final form containers are also to be indicated in section 8.2.13. This table should also include TRU wastes which are not planned to be sent to WIPP.

Indicate in the second column whether the radionuclide information for the container is the same as provided in section 3.2.6 for the MWIR. If the entry is "Y", WIPP will use the information provided in section 3.2.6. If the entry is "N", describe the difference in the comment field. If the isotopic distribution is the same but the concentration is different, provide the value by which to multiply the concentrations in section 3.2.6 to obtain the concentrations for this container in the comment field. If the isotopic distributions are different, so indicate in the comment field and provide a table, similar to the table in section 3.2.6, but in paper form, for the container type and WTWBIR WS ID.

8.2.13 Indicate in the Y/N column the container types/sizes in which this waste will arrive at WIPP. Only containers currently approved by WIPP are permitted. This table defines those containers for which additional information will be requested in section 8.2.15. All waste in this stream that is planned for disposition at WIPP should be included in this table and section 8.2.15. The site should estimate the number and type of containers required for the non WIPP compliant wastes listed in 8.2.12 that are destined for WIPP.

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Indicate in the third column whether the radionuclide information for the container is the same as provided in section 3.2.6 for the MWIR. If the entry is "Y", WIPP will use the information provided in section 3.2.6. If the entry is "N", describe the difference in the comment fields in sections 8.2.15.1.12 or 8.2.15.2 - 6.8 where additional container data is requested. If the isotopic distribution is the same but the concentration is different, provide the value by which to multiply the concentrations in section 3.2.6 to obtain the concentrations for this container in the comment field. If the isotopic distributions are different, so indicate in the comment field and provide a table, similar to the table in section 3.2.6, but in paper form, for the container type and WTWBIR WS ID.

Sections 8.2.14 and 8.2.15 ask for information by container type. Non WIPP compliant and WIPP compliant waste is placed in section 8.2.14 and WIPP compliant wastes only are placed in 8.2.15. All waste planned for disposition at WIPP should be included in both sections 8.2.14 and 8.2.15. WIPP compliant is defined as compliance with WIPP WAC revision 3 and the TRAMPAC.

Information for sections 8.2.14 and 8.2.15 is to be provided for each container indicated in sections 8.2.12 and 8.2.13 respectively.

8.2.14 Current Container Information for this WTWBIR waste stream:

This section requests information for the waste in the current or planned packaging. The same waste which appears in this section will appear in 8.2.15 in WIPP compliant form and packaging based on site plans or estimates.

WIPP would prefer that a separate section 8.2.14.x (where x represents separate package type defined by 1, 2, etc.) be completed for each type and size of package. To accommodate situations where this is not appropriate, multiple answers are permitted for some questions.

8.2.14.1 Provide the standard descriptive title for the container used by the generator/storage site. For example, 55 gallon drum, steel box, 4X4X7 wooden box, etc.

8.2.14.1.1 Indicate all the materials used to construct the containers. Enter a material in the Other field, if a specific material is not listed.

8.2.14.1.2 Provide the internal volume of the container in cubic meters. This is the maximum amount of waste that will fit into the container. If this stream includes containers of different sizes enter an average volume and state that the volume is an average of the different containers in the comment entry for this section (8.2.14.x.14.3.4; x = 1, 2, 3, etc.). Generally enter the volume of the container, such as a drum, even if the drum is only partially full. In other circumstances, such as partially full tanks, enter the actual or average volume of the waste in the tanks. Describe these situations in the comment field.

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WIPP will use this volume and the number of containers to calculate the volume of this waste stream. If there is some additional information that WIPP requires to do this accurately, provide the information in the comment field 8.2.14.x.14.3.4.

8.2.14.1.3 Check each liner type that is used in this waste stream. Check shielding, if internal shielding such as lead or concrete is used with these containers. If only some containers include internal shielding or liners, describe the approximate percent of containers which include internal shielding or liners in the comment section (8.2.14.x.14.3.4).

8.2.14.1.4 Check all the liner (or shielding materials) used in the containers. If a liner material is not listed, enter the liner material in the other field.

8.2.14.5 - 8.2.14.8 These questions are included to support WIPP transportation planning activities. These questions apply only to drums. The site should provide their best estimates for the answers to these questions. The comment section can be used to add qualifications or additional information, if desired.

8.2.14.1.9 Provide the number of containers that the site includes in storage. The date of this inventory should be provided in 8.2.14.1.10.

8.2.14.1.10 Provide the date for the inventory provided in 8.2.14.1.9. WIPP strongly prefers that all sites use 12/31/94 as the inventory date so that the inventory data can be legitimately rolled up between sites.

8.2.14.1.11 Provide the number of containers projected from the date in 8.2.14.1.10 through 2022.

8.2.14.1.12 Estimate the number of containers to be generated per year. The first few entries (for 1993, 1994, etc.) should not include containers included in section 8.2.14.1.9. The entries should be the projected number of containers to be generated that year. These entries should add up to the number provided in section 8.2.14.1.11. WIPP will use the volume provided in 8.2.14.1.2 and the number of containers provided here to calculate volumes. If WIPP needs additional information to do this accurately, please provide this information in the comment section 8.2.15.1.15.

The next sections ask about compliance with the WIPP WAC revision 3 and the TRAMPAC.

8.2.14.1.13 This section contains questions about the certifiability of the current containers based on WAC revision 3. The sites should provide their best estimates on a waste stream basis. Qualifications or additional information may be provided in the comments section. Additional instructions are provided only when deemed necessary. Those questions such as 8.2.14.1.13.1 and 8.2.14.1.13.3.1 which ask

whether the containers do not meet some WAC requirement should be answered yes if this is true for all or only a portion of the waste stream. Additional questions will request an estimate of the percent of containers affected.

8.2.14.1.14 This section contains questions about compliance with TRAMPAC. The same instructions provided above for 8.2.14.1.13 apply to this section.

8.2.14.1.14.3.4 Provide any comments or additional information in this field for this container type.

8.2.15 Final Waste Form Container information for this WTWBIR waste stream

This section requests information for all the waste in WIPP compliant form. If the wastes as listed in 8.2.14, do not comply with WIPP WAC revision 3 and the TRAMPAC, the waste should be entered here in site estimated WIPP compliant form and packaging. All wastes, planned for disposition at WIPP, should be placed in 8.2.15. WIPP will use the data in this section to estimate the eventual WIPP inventory.

A separate section is provided for each type of container currently acceptable at WIPP. Containers are not allowed to be mixed in this section. The different container sections are identified by number as 8.2.15.x, where x is 1, 2, 3, etc.

For waste reported in section 8.2.14 for which the site does not have plans or schedules for putting the waste in WIPP compliant form and WIPP acceptable containers, the site should estimate the WIPP compliant form and WIPP acceptable containers to be used and should place the waste in the same years used in sections 8.2.14.1.9 -12.

8.2.15.1 The container description requested is provided by the electronic form. Section 8.2.15.1 is the 55 gallon drum, section 8.2.15.2 is the Standard Waste Box, etc.

8.2.15.1.1 Indicate all the materials used to construct the containers. Enter a material in the "other" field, if a material is not listed.

8.2.15.1.2 The requested internal volume is provided by the electronic form.

8.2.15.1.3 Check each liner type that is used in this waste stream. Check shielding, if internal shielding such as lead or concrete is used with these containers. If only some containers include internal shielding or liners, describe the approximate percent of containers which include internal shielding or liners in the comment section (8.2.15.1.12).

8.2.15.1.4 Check all the liner (or shielding materials) used in the containers. If a liner material is not listed, enter the liner material in the other field.

8.2.15.1.5 - 8.2.15.1.8 These questions are included to support WIPP transportation planning activities. These questions apply only to drums. The site should provide their best estimates for the answers

to these questions. The comment section (8.2.15.1.12) can be used to add qualifications or additional information, if desired. These questions are not included in sections 8.2.15.2 - 6.

8.2.15.1.9 Provide the number of containers that the site includes in storage. The date of this inventory should be provided in section 8.2.15.1.10.

8.2.15.1.10 Provide the date for the inventory provided in section 8.2.15.1.9. WIPP strongly prefers that all sites use 12/31/94 as the inventory date so that the inventory data can be legitimately rolled up between sites.

8.2.15.1.11 Provide the number of containers projected from the date in 8.2.15.1.10 through 2022.

8.2.15.1.12 Provide any comments or additional information in this field.

8.2.15.1.13 Estimate the number of containers to be generated per year. The first few entries (for 1993, 1994, etc.) should not include containers included in section 8.2.15.1.9. The entries should be the projected number of containers to be generated that year. These entries should add up to the number provided in section 8.2.15.1.11. WIPP will use the volume provided in 8.2.15.1.2 and the number of containers provided here to calculate volumes. If WIPP needs additional information to do this accurately, please provide this information in the comment section 8.2.15.1.12.

8.2.15.1.14 Provide estimates of the physical materials in the waste. The information is requested for an average, a lower limit and an upper limit in kilograms per cubic meter for broad categories of materials. Comment space is provided for qualifications or additional information. Please provide a list of materials (in decreasing order of appearance, if possible) in the comment field for the materials Other Metal, Other Inorganic Materials, Solidified Inorganic Matrix and Solidified Organic Matrix. Note that the fields for iron based metal and plastic do not include the outer container and the rigid liner and or liner bags. For instance, they do not include the 55 gallon drum and the rigid and/or bag liners or the SWB and the plastic liner. The container and rigid and/or bag liner information is placed only in the fields for packaging material, steel and packaging material, plastic. Note that all data is requested in kilograms per cubic meter and not in weight per container. The volume to use for these calculations is the volume in 8.2.15.1.2.

Sections 8.2.15.2 - 6

These sections are slightly different from section 8.2.15.1 because they do not include sections 8.2.15.1.5 - 8. Otherwise the questions are the same. Section 8.2.15.2 instructions are provided below:

Sections 8.2.15.2.1 -4 instructions are the same as for sections 8.2.15.1.1-4. The comment field in sections 8.2.15.2-6 is in section 8.2.15.x.8 instead of 8.2.15.1.12.

The rest of the section 8.2.15.2 instructions are the same as equivalent section 8.2.15.1 questions but the numbering is different and the instructions are presented below:

8.2.15.2.5 Provide the number of containers that the site includes in storage. The date of this inventory should be provided in section 8.2.15.2.6.

8.2.15.2.6 Provide the date for the inventory provided in section 8.2.15.2.5. WIPP strongly prefers that all sites use 12/31/94 as the inventory date so that the inventory data can be legitimately rolled up between sites.

8.2.15.2.7 Provide the number of containers projected from the date in 8.2.15.2.6 through 2022.

8.2.15.2.8 Provide any comments or additional information in this field.

8.2.15.2.9 Estimate the number of containers to be generated per year. The first few entries (for 1993, 1994, etc.) should not include containers included in section 8.2.15.1.5. The entries should be the projected number of containers to be generated that year. These entries should add up to the number provided in section 8.2.15.1.7. WIPP will use the volume provided in 8.2.15.2.2 and the number of containers provided here to calculate volumes. If WIPP needs additional information to do this accurately, please provide this information in the comment section 8.2.15.1.8.

8.2.15.1.10 Provide estimates of the physical materials in the waste. The information is requested for an average, a lower limit and an upper limit in kilograms per cubic meter for broad categories of materials. Comment space is provided for qualifications or additional information. Please provide a list of materials (in decreasing order of appearance, if possible) in the comment field for the materials Other Metal, Other Inorganic Materials, Solidified Inorganic Matrix and Solidified Organic Matrix. Note that the fields for iron based

metal and plastic do not include the outer container and the rigid liner and or liner bags. For instance, they do not include the 55 gallon drum and the rigid and/or bag liners or the SWB and the plastic liner. The container and rigid and/or bag liner information is placed only in the fields for packaging material, steel and packaging material, plastic. Note that all data is requested in kilograms per cubic meter and not in weight per container. The volume to use for these calculations is the volume in 8.2.15.2.2.

M

APPENDIX D

SITE-SPECIFIC STORED RADIONUCLIDE INVENTORIES

CH Curies on a Site-by-Site[1,2] Basis
(Decayed to the End of 1995)

Nuclide	ARCO	ARMY	ETEC	HANF	INEL	LBL
Ac225			2.23E-15	1.31E-01	1.52E+00	5.45E-06
Ac227		1.98E-15	4.09E-14	1.02E-04	3.86E-02	1.35E-19
Ac228			2.87E-18	5.60E-02	3.08E-01	1.69E-19
Ag109M						
Ag110				5.08E-10	3.55E-09	
Ag110M				3.82E-08	2.67E-07	
Am241			5.19E-01	4.73E+03	9.01E+04	9.17E-02
Am243				9.01E-02	3.79E-01	3.85E-02
Am245					1.12E-09	3.60E-14
At217			2.23E-15	1.31E-01	1.52E+00	5.45E-06
Ba137M				6.46E+02	5.71E+01	
Bi210	5.22E-15		2.05E-15	5.30E-06	2.70E-02	8.96E-03
Bi211		1.98E-15	4.09E-14	1.02E-04	3.87E-02	1.35E-19
Bi212			1.10E-18	5.18E-02	2.62E+01	8.59E-20
Bi213			2.23E-15	1.31E-01	1.52E+00	5.45E-06
Bi214	6.86E-13		4.56E-14	3.15E-05	4.80E-02	3.37E-02
Bk249					7.70E-05	2.48E-09
Bk250						8.68E-08

[1]Argonne National Laboratory-East, Argonne National Laboratory-West, and Teledyne Brown Engineering are not included because no data were received. Data from Sandia National Laboratory-Albuquerque are reported under RH-TRU waste because although the final waste form is expected to be CH-TRU waste, the stored waste is remotely handled at the site.

[2]Data include undecayed curies from the RFETS residues from the following radioinuclides: 8,143 Ci (Pu238); 173,500 Ci (Pu239); 39,750 Ci (Pu240); 1,016,000 Ci (Pu241); and 108,500 Ci (Am241).

CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	ARCO	ARMY	ETEC	HANF	INEL	LBL
C14				1.60E+00	1.66E-01	
Cd109						
Cd113M				1.25E-09	3.20E-08	
Ce144				4.42E-03	3.15E-02	
Cf249					1.02E-02	3.10E-03
Cf250						1.97E-04
Cf251						
Cf252				3.52E+01	2.19E-03	
Cm242					2.73E-08	
Cm243				1.52E-02		
Cm244				6.83E+01	4.93E+02	8.70E-02
Cm245				1.68E+01	9.09E-06	2.27E-06
Cm246					1.53E-03	4.83E-07
Cm247						
Cm248				7.82E-03	4.73E-07	
Co58					1.22E-14	
Co60					6.24E+01	
Cs134				2.45E-04	1.20E-03	
Cs135				1.91E-07	8.07E-06	
Cs137				6.83E+02	6.04E+01	
Es254						8.67E-08
Eu150					3.50E-05	

[1]Argonne National Laboratory-East, Argonne National Laboratory-West, and Teledyne Brown Engineering are not included because no data were received. Data from Sandia National Laboratory-Albuquerque are reported under RH-TRU waste because although the final waste form is expected to be CH-TRU waste, the stored waste is remotely handled at the site.

[2]*Data include undecayed curies from the RFETS residues from the following radioinuclides:* 8,143 Ci (Pu238); 173,500 Ci (Pu239); 39,750 Ci (Pu240); 1,016,000 Ci (Pu241); and 108,500 Ci (Am241).

CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	ARCO	ARMY	ETEC	HANF	INEL	LBL
Eu152				7.34E-07	1.62E-01	
Eu154				6.22E-05	6.43E-01	
Eu155				1.06E-03	3.83E-01	
Fe55					1.91E-05	
Fe59					3.38E-21	
Fr221			2.23E-15	1.31E-01	1.52E+00	5.45E-06
Fr223		2.73E-17	5.64E-16	1.41E-06	5.33E-04	1.86E-21
H3					8.01E-01	
I129						
Kr85						
Mn54					8.51E-04	
Nb95				1.80E-11	2.38E-09	
Nb95M				6.00E-14	7.95E-12	
Ni59						
Ni63					9.06E-05	
Np237			9.49E-07	2.72E-01	8.53E-01	6.32E-06
Np239				9.01E-02	3.79E-01	3.85E-02
Np240M				5.80E-10	3.50E-14	
Pa231		1.88E-13	6.73E-13	4.83E-04	1.33E-05	1.99E-18
Pa233			9.49E-07	2.72E-01	8.53E-01	6.32E-06
Pa234			6.06E-17	7.61E-03	1.50E-04	2.40E-14
Pa234M			4.66E-14	5.86E+00	1.16E-01	1.84E-11

[1]Argonne National Laboratory-East, Argonne National Laboratory-West, and Teledyne Brown Engineering are not included because no data were received. Data from Sandia National Laboratory-Albuquerque are reported under RH-TRU waste because although the final waste form is expected to be CH-TRU waste, the stored waste is remotely handled at the site.

[2]Data include undecayed curies from the RFETS residues from the following radioinuclides: 8,143 Ci (Pu238); 173,500 Ci (Pu239); 39,750 Ci (Pu240); 1,016,000 Ci (Pu241); and 108,500 Ci (Am241).

CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	ARCO	ARMY	ETEC	HANF	INEL	LBL
Pb209			2.23E-15	1.31E-01	1.52E+00	5.45E-06
Pb210	5.22E-15		2.05E-15	5.30E-06	2.70E-02	8.96E-03
Pb211		1.98E-15	4.09E-14	1.02E-04	3.87E-02	1.35E-19
Pb212			1.10E-18	5.18E-02	2.62E+01	8.59E-20
Pb214	6.86E-13		4.56E-14	3.15E-05	4.80E-02	3.37E-02
Pd107				2.82E-08	1.19E-06	
Pm147				4.78E-02	2.62E+00	
Po210	1.42E-15		2.05E-15	5.30E-06	2.70E-02	8.96E-03
Po211		5.53E-18	1.14E-16	2.87E-07	1.08E-04	3.78E-22
Po212			7.04E-19	3.32E-02	1.68E+01	5.50E-20
Po213	4.28E-15		2.19E-15	1.28E-01	1.49E+00	5.33E-06
Po214	6.86E-13		4.56E-14	3.15E-05	4.80E-02	3.37E-02
Po215		1.98E-15	4.09E-14	1.02E-04	3.87E-02	1.35E-19
Po216			1.10E-18	5.18E-02	2.62E+01	8.59E-20
Po218	6.86E-13	1.40E-11	4.56E-14	3.15E-05	4.80E-02	3.37E-02
Pr144				4.36E-03	3.12E-02	
Pu236					1.04E-02	
Pu238	3.70E+02		1.11E-01	8.05E+04	5.98E+04	2.32E-04
Pu239		1.80E+01	1.79E+00	2.63E+04	4.01E+04	8.45E-06
Pu240			6.12E-01	6.14E+03	9.84E+03	5.14E-03
Pu241			6.22E+00	3.78E+04	1.50E+05	4.48E-07
Pu242			5.00E-05	3.80E-01	9.45E-01	1.01E-02

[1]Argonne National Laboratory-East, Argonne National Laboratory-West, and Teledyne Brown Engineering are not included because no data were received. Data from Sandia National Laboratory-Albuquerque are reported under RH-TRU waste because although the final waste form is expected to be CH-TRU waste, the stored waste is remotely handled at the site.

[2]Data include undecayed curies from the RFETS residues from the following radioinuclides: 8,143 Ci (Pu238); 173,500 Ci (Pu239); 39,750 Ci (Pu240); 1,016,000 Ci (Pu241); and 108,500 Ci (Am241).

CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	ARCO	ARMY	ETEC	HANF	INEL	LBL
Pu243						
Pu244				5.80E-10	3.50E-14	
Ra223		1.98E-15	4.09E-14	1.02E-04	3.87E-02	1.35E-19
Ra224			1.10E-18	5.18E-02	2.62E+01	8.59E-20
Ra225			2.23E-15	1.31E-01	1.52E+00	5.45E-06
Ra226	6.86E-13		4.56E-14	3.15E-05	4.80E-02	3.37E-02
Ra228			2.87E-18	5.60E-02	3.08E-01	1.69E-19
Rh106				2.17E-03	1.12E-02	
Rn219		1.98E-15	4.09E-14	1.02E-04	3.87E-02	1.35E-19
Rn220			1.10E-18	5.18E-02	2.62E+01	8.59E-20
Rn222	6.86E-13		4.56E-14	3.15E-05	4.80E-02	3.37E-02
Ru106				2.17E-03	1.12E-02	
Sb125				5.91E-04	3.53E-03	
Sb126				5.13E-08	2.17E-06	
Sb126M				3.67E-07	1.55E-05	
Se79				1.66E-07	7.00E-06	
Sm151				6.14E-04	2.39E-02	
Sn119M				2.95E-07	2.10E-06	
Sn121M				1.20E-05	4.38E-04	
Sn126				3.67E-07	1.55E-05	
Sr90			2.00E-01	6.92E+02	1.96E+00	
Tc99				9.51E-06	2.16E-03	

[1]Argonne National Laboratory-East, Argonne National Laboratory-West, and Teledyne Brown Engineering are not included because no data were received. Data from Sandia National Laboratory-Albuquerque are reported under RH-TRU waste because although the final waste form is expected to be CH-TRU waste, the stored waste is remotely handled at the site.

[2]Data include undecayed curies from the RFETS residues from the following radioinuclides: 8,143 Ci (Pu238); 173,500 Ci (Pu239); 39,750 Ci (Pu240); 1,016,000 Ci (Pu241); and 108,500 Ci (Am241).

CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	ARCO	ARMY	ETEC	HANF	INEL	LBL
Te125M				1.44E-04	8.62E-04	
Te127				3.95E-09	1.02E-07	
Te127M				4.03E-09	1.04E-07	
Th227		1.95E-15	4.03E-14	1.01E-04	3.82E-02	1.33E-19
Th228			1.10E-18	5.18E-02	2.62E+01	8.59E-20
Th229			2.23E-15	1.31E-01	1.52E+00	5.75E-06
Th230	4.75E-09		5.25E-11	8.11E-03	2.08E-02	1.50E-13
Th231		1.77E-08	1.06E-08	1.71E+00	6.18E-02	3.32E-14
Th232			1.61E-17	6.71E-02	3.30E-01	5.33E-19
Th234			4.66E-14	5.86E+00	1.16E-01	1.84E-11
Tl207		1.97E-15	4.07E-14	1.02E-04	3.86E-02	1.34E-19
Tl208			3.95E-19	1.86E-02	9.42E+00	3.09E-20
Tl209			4.83E-17	2.82E-03	3.28E-02	1.18E-07
U232					2.53E+01	
U233			1.20E-11	8.00E+01	8.99E+02	4.81E-03
U234	1.05E-03		1.93E-06	5.37E+01	6.18E+00	4.73E-09
U235		1.77E-08	1.06E-08	1.71E+00	6.18E-02	3.32E-14
U236			1.09E-07	2.49E-03	5.27E-03	1.87E-09
U237			1.53E-04	9.27E-01	3.67E+00	1.10E-11
U238			4.66E-14	5.86E+00	1.16E-01	1.84E-11
U240				5.80E-10	3.50E-14	
Y90			2.00E-01	6.92E+02	1.96E+00	

[1]Argonne National Laboratory-East, Argonne National Laboratory-West, and Teledyne Brown Engineering are not included because no data were received. Data from Sandia National Laboratory-Albuquerque are reported under RH-TRU waste because although the final waste form is expected to be CH-TRU waste, the stored waste is remotely handled at the site.

[2]Data include undecayed curies from the RFETS residues from the following radioinuclides: 8,143 Ci (Pu238); 173,500 Ci (Pu239); 39,750 Ci (Pu240); 1,016,000 Ci (Pu241); and 108,500 Ci (Am241).

CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	ARCO	ARMY	ETEC	HANF	INEL	LBL
Zn65					1.51E-09	
Total by Site	**3.70E+02**	**1.80E+01**	**9.65E+00**	**1.58E+05**	**3.52E+05**	**5.08E-01**

Nuclide	LANL	LLNL	MOUND	MURR	NTS	ORNL
Ac225	8.06E-02	9.81E-13		1.59E-13	2.41E-03	2.07E-01
Ac227	2.31E-01	3.32E-10	2.99E-12	2.41E-14	2.10E-04	9.85E-03
Ac228	1.59E-03	1.59E-16			1.90E-16	7.11E-04
Ag109M	6.56E+00					
Ag110	2.87E-11	6.12E-17			5.55E-11	
Ag110M	3.06E-07				4.18E-09	
Am241	1.17E+04	1.44E+02		3.24E-01	2.84E+02	1.61E+03
Am243	3.83E+00	2.45E-02			1.22E+00	1.16E+01
Am245	1.95E-15				5.29E-14	1.49E-10
At217	8.06E-02	9.81E-13		1.59E-13	2.41E-03	2.07E-01
Ba137M	4.55E+01	1.57E-06			3.41E-01	2.20E+03
Bi210	2.80E-01	2.38E-13	5.20E-10		6.69E-02	1.26E+00
Bi211	2.32E-01	3.32E-10	2.99E-12	1.83E-17	2.09E-04	9.85E-03
Bi212	1.32E-03	6.13E-17			1.64E-02	2.83E-01
Bi213	8.06E-02	9.81E-13		1.59E-13	2.41E-03	2.07E-01
Bi214	9.04E-01	9.47E-12	4.46E-09	1.94E-22	2.49E-01	6.49E+00
Bk249	1.35E-10				3.65E-09	1.03E-05

[1]Argonne National Laboratory-East, Argonne National Laboratory-West, and Teledyne Brown Engineering are not included because no data were received. Data from Sandia National Laboratory-Albuquerque are reported under RH-TRU waste because although the final waste form is expected to be CH-TRU waste, the stored waste is remotely handled at the site.

[2]Data include undecayed curies from the RFETS residues from the following radioinuclides: 8,143 Ci (Pu238); 173,500 Ci (Pu239); 39,750 Ci (Pu240); 1,016,000 Ci (Pu241); and 108,500 Ci (Am241).

CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	LANL	LLNL	MOUND	MURR	NTS	ORNL
Bk250					4.11E-11	9.51E-13
C14	2.00E-07				2.50E-04	
Cd109	6.55E+00					
Cd113M	7.41E-07				6.50E-09	1.03E-08
Ce144	3.03E-04				7.88E-04	
Cf249	9.64E-04				1.14E-02	2.82E-02
Cf250					3.18E-01	1.49E-03
Cf251	1.58E-03					
Cf252					1.70E-02	1.60E-01
Cm242	3.42E-17	1.70E-04				1.39E-03
Cm243	1.11E+00					
Cm244	1.56E+02	6.54E+01			2.28E+02	1.06E+03
Cm245	1.60E-06				9.44E-06	3.35E-05
Cm246	4.01E-02	5.22E-04			6.14E-04	1.60E-05
Cm247	1.34E-09					
Cm248	2.53E-10				3.57E-06	2.55E-02
Co58	1.22E-13					
Co60	7.91E-06					1.84E-06
Cs134	4.24E-03				4.03E-04	
Cs135	2.05E-04				1.20E-06	
Cs137	4.81E+01	1.66E-06			3.60E-01	2.33E+03
Es254					4.11E-11	

[1]Argonne National Laboratory-East, Argonne National Laboratory-West, and Teledyne Brown Engineering are not included because no data were received. Data from Sandia National Laboratory-Albuquerque are reported under RH-TRU waste because although the final waste form is expected to be CH-TRU waste, the stored waste is remotely handled at the site.

[2]Data include undecayed curies from the RFETS residues from the following radioinuclides: 8,143 Ci (Pu238); 173,500 Ci (Pu239); 39,750 Ci (Pu240); 1,016,000 Ci (Pu241); and 108,500 Ci (Am241).

CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	LANL	LLNL	MOUND	MURR	NTS	ORNL
Eu150						
Eu152	4.18E-04	1.33E-06			1.06E+00	6.18E-04
Eu154	2.45E-02	5.25E-07			4.28E-01	
Eu155	2.41E-01				3.80E-03	
Fe55						
Fe59	1.35E-16					1.87E-07
Fr221	8.06E-02	9.81E-13		1.59E-13	2.41E-03	2.07E-01
Fr223	3.19E-03	4.58E-12	5.08E-14	2.52E-19	2.89E-06	1.36E-04
H3					6.46E-02	
I129						
Kr85					1.96E-01	
Mn54	5.48E-08					
Nb95	1.76E-11				1.51E-17	
Nb95M	5.89E-14				5.05E-20	
Ni59						
Ni63						1.09E-04
Np237	3.22E-02	4.71E-04		2.28E-04	5.78E-03	7.27E-01
Np239	3.83E+00	2.45E-02			1.22E+00	1.49E+01
Np240M	1.94E-07				9.99E-07	1.10E-09
Pa231	1.24E-03	2.72E-07	1.89E-11	8.97E-16	5.00E-04	3.14E-01
Pa233	3.22E-02	4.71E-04		2.28E-04	5.78E-03	7.32E-01
Pa234	3.07E-05	3.94E-05		1.51E-10	2.13E-07	5.53E-05

[1]Argonne National Laboratory-East, Argonne National Laboratory-West, and Teledyne Brown Engineering are not included because no data were received. Data from Sandia National Laboratory-Albuquerque are reported under RH-TRU waste because although the final waste form is expected to be CH-TRU waste, the stored waste is remotely handled at the site.

[2]Data include undecayed curies from the RFETS residues from the following radioinuclides: 8,143 Ci (Pu238); 173,500 Ci (Pu239); 39,750 Ci (Pu240); 1,016,000 Ci (Pu241); and 108,500 Ci (Am241).

CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	LANL	LLNL	MOUND	MURR	NTS	ORNL
Pa234M	2.38E-02	3.03E-02		1.16E-07	3.46E-04	4.26E-02
Pb209	8.06E-02	9.81E-13		1.59E-13	2.41E-03	2.07E-01
Pb210	2.80E-01	2.38E-13	5.20E-10		6.69E-02	1.26E+00
Pb211	2.32E-01	3.32E-10	2.99E-12	1.83E-17	2.09E-04	9.85E-03
Pb212	6.16E-03	6.13E-17			1.64E-02	2.83E-01
Pb214	9.04E-01	9.47E-12	4.46E-09	1.94E-22	2.49E-01	6.49E+00
Pd107	3.03E-05				1.78E-07	
Pm147	2.00E+00				1.05E-01	1.94E-02
Po210	2.80E-01	1.97E-13	5.20E-10		6.69E-02	1.26E+00
Po211	6.50E-04	9.28E-13	8.38E-15	5.12E-20	5.86E-07	2.76E-05
Po212	8.48E-04	3.93E-17			1.05E-02	1.82E-01
Po213	7.89E-02	9.60E-13		1.55E-13	2.36E-03	2.02E-01
Po214	9.04E-01	9.47E-12	4.46E-09	1.93E-22	2.49E-01	6.49E+00
Po215	2.32E-01	3.32E-10	2.99E-12	1.83E-17	2.09E-04	9.85E-03
Po216	1.32E-03	6.13E-17			1.64E-02	2.83E-01
Po218	9.05E-01	9.47E-12	4.47E-09	1.94E-22	2.50E-01	6.49E+00
Pr144	3.00E-04				7.79E-04	
Pu236	5.37E-17					
Pu238	1.15E+05	7.65E+01	4.97E+02		3.15E+04	3.50E+03
Pu239	7.91E+04	1.64E+02	6.28E+00	2.46E-02	2.76E+03	2.72E+03
Pu240	1.01E+02	6.44E+01			2.66E+01	9.48E+02
Pu241	1.62E+03	1.63E+03		6.32E-03	2.40E+02	4.79E+04

[1]Argonne National Laboratory-East, Argonne National Laboratory-West, and Teledyne Brown Engineering are not included because no data were received. Data from Sandia National Laboratory-Albuquerque are reported under RH-TRU waste because although the final waste form is expected to be CH-TRU waste, the stored waste is remotely handled at the site.

[2]Data include undecayed curies from the RFETS residues from the following radioinuclides: 8,143 Ci (Pu238); 173,500 Ci (Pu239); 39,750 Ci (Pu240); 1,016,000 Ci (Pu241); and 108,500 Ci (Am241).

CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	LANL	LLNL	MOUND	MURR	NTS	ORNL
Pu242	4.85E+02	2.02E-02			8.70E-02	2.37E-01
Pu243	1.34E-09					
Pu244	1.94E-07				1.00E-06	1.10E-09
Ra223	2.32E-01	2.32E-01	2.99E-12	1.83E-17	2.09E-04	9.85E-03
Ra224	1.32E-03	6.13E-17			1.71E-02	2.83E-01
Ra225	8.06E-02	9.81E-13		1.59E-13	2.41E-03	2.07E-01
Ra226	9.05E-01	3.99E-08	4.47E-09	1.94E-22	2.50E-01	6.54E+00
Ra228	1.59E-03	1.59E-16			1.90E-16	9.92E-04
Rh106	9.97E-04				8.74E-04	
Rn219	2.32E-01	3.32E-10	2.99E-12	1.83E-17	2.09E-04	9.85E-03
Rn220	1.32E-03	6.13E-17			1.64E-02	2.83E-01
Rn222	9.05E-01	9.47E-12	4.47E-09	1.94E-22	2.50E-01	6.49E+00
Ru106	9.97E-04				8.74E-04	
Sb125	4.67E-02				1.37E-03	
Sb126	5.52E-05				3.23E-07	
Sb126M	3.94E-04				2.31E-06	
Se79	1.78E-04				1.04E-06	
Sm151	6.02E-01				3.75E-03	
Sn119M	1.66E-08				2.97E-08	
Sn121M	1.09E-02				7.17E-05	
Sn126	3.99E-04				2.31E-06	
Sr90	4.44E+01				3.10E-01	1.48E+03

[1]Argonne National Laboratory-East, Argonne National Laboratory-West, and Teledyne Brown Engineering are not included because no data were received. Data from Sandia National Laboratory-Albuquerque are reported under RH-TRU waste because although the final waste form is expected to be CH-TRU waste, the stored waste is remotely handled at the site.

[2]Data include undecayed curies from the RFETS residues from the following radioinuclides: 8,143 Ci (Pu238); 173,500 Ci (Pu239); 39,750 Ci (Pu240); 1,016,000 Ci (Pu241); and 108,500 Ci (Am241).

CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	LANL	LLNL	MOUND	MURR	NTS	ORNL
Tc99	1.02E-02				5.99E-05	1.78E+01
Te125M	1.14E-02				3.33E-04	
Te127	7.45E-10				2.29E-12	
Te127M	7.60E-10				2.34E-12	
Th227	2.29E-01	7.39E-08	2.95E-12	1.80E-17	2.06E-04	9.72E-03
Th228	1.32E-03	6.13E-17			1.64E-02	2.83E-01
Th229	8.06E-02	9.81E-13		1.59E-13	2.41E-03	2.07E-01
Th230	4.90E-04	3.06E-08	1.86E-06	1.34E-18	9.98E-07	2.45E-04
Th231	5.27E-01	1.76E-03	1.05E-07	3.75E-08	6.15E-05	1.45E-02
Th232	2.29E-03	9.37E-16			8.19E-16	8.57E-04
Th234	2.36E-02	3.03E-02		1.16E-07	3.18E-04	4.26E-02
Tl207	2.31E-01	3.31E-10	3.20E-12	1.82E-17	2.09E-04	9.82E-03
Tl208	4.76E-04	2.20E-17			5.89E-03	1.02E-01
Tl209	1.74E-03	2.12E-14		3.43E-15	5.20E-05	4.47E-03
U232	1.67E-03				1.65E-02	2.90E-01
U233	4.46E+01	5.95E-09		1.78E-09	1.81E+00	1.77E+02
U234	6.06E+00	3.29E-03	2.47E-02	2.98E-13	1.26E-02	1.57E+01
U235	5.27E-01	5.93E-04	1.05E-07	4.44E-11	1.17E-02	1.33E-02
U236	3.21E-04	7.62E-06			4.20E-06	3.40E-04
U237	3.98E-02	4.00E-02		1.55E-07	5.88E-03	1.18E+00
U238	2.36E-02	3.03E-02		1.16E-07	1.64E-04	4.26E-02
U240	1.94E-07				9.99E-07	1.10E-09

[1]Argonne National Laboratory-East, Argonne National Laboratory-West, and Teledyne Brown Engineering are not included because no data were received. Data from Sandia National Laboratory-Albuquerque are reported under RH-TRU waste because although the final waste form is expected to be CH-TRU waste, the stored waste is remotely handled at the site.

[2]Data include undecayed curies from the RFETS residues from the following radioinuclides: 8,143 Ci (Pu238); 173,500 Ci (Pu239); 39,750 Ci (Pu240); 1,016,000 Ci (Pu241); and 108,500 Ci (Am241).

CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	LANL	LLNL	MOUND	MURR	NTS	ORNL
Y90	4.44E+01				3.10E-01	1.48E+03
Zn65						3.85E-09
Total by Site	**2.08E+05**	**2.15E+03**	**5.03E+02**	**3.55E-01**	**3.50E+04**	**6.55E+04**

Nuclide	PAD	PANT	RFETS	SRS	Total Curies
Ac225	4.02E-07		3.55E-11	1.31E-05	1.94E+00
Ac227	1.27E-12	4.83E-17	1.58E-10	3.70E-07	2.80E-01
Ac228			1.49E-14	1.01E-02	3.76E-01
Ag109M					6.56E+00
Ag110					4.14E-09
Ag110M					6.16E-07
Am241			1.19E+05	3.76E+03	2.31E+05[2]
Am243				7.55E-01	1.80E+01
Am245					1.27E-09
At217	4.02E-07		3.55E-11	1.31E-05	1.94E+00
Ba137M				7.11E+00	2.96E+03
Bi210			4.54E-12	1.11E-06	1.65E+00
Bi211	1.27E-12	4.83E-17	1.58E-10	3.70E-07	2.81E-01
Bi212			4.98E-15	9.20E-03	2.66E+01
Bi213	4.02E-07		3.55E-11	1.31E-05	1.94E+00
Bi214			9.77E-11	7.30E-06	7.72E+00

[1]Argonne National Laboratory-East, Argonne National Laboratory-West, and Teledyne Brown Engineering are not included because no data were received. Data from Sandia National Laboratory-Albuquerque are reported under RH-TRU waste because although the final waste form is expected to be CH-TRU waste, the stored waste is remotely handled at the site.

[2]Data include undecayed curies from the RFETS residues from the following radioinuclides: 8,143 Ci (Pu238); 173,500 Ci (Pu239); 39,750 Ci (Pu240); 1,016,000 Ci (Pu241); and 108,500 Ci (Am241).

CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	PAD	PANT	RFETS	SRS	Total Curies
Bk249					8.73E-05
Bk250					8.68E-08
C14					1.77E+00
Cd109					6.55E+00
Cd113M					7.91E-07
Ce144				8.72E-13	3.70E-02
Cf249					5.39E-02
Cf250					3.20E-01
Cf251					1.58E-03
Cf252				3.62E-01	3.58E+01
Cm242					1.56E-03
Cm243					1.12E+00
Cm244				7.46E+02	2.82E+03
Cm245					1.68E+01
Cm246					4.28E-02
Cm247					1.34E-09
Cm248				1.61E-04	3.34E-02
Co58					1.34E-13
Co60				3.56E-01	6.28E+01
Cs134				3.19E-06	6.09E-03
Cs135					2.15E-04
Cs137				7.51E+00	3.12E+03

[1]Argonne National Laboratory-East, Argonne National Laboratory-West, and Teledyne Brown Engineering are not included because no data were received. Data from Sandia National Laboratory-Albuquerque are reported under RH-TRU waste because although the final waste form is expected to be CH-TRU waste, the stored waste is remotely handled at the site.

[2]Data include undecayed curies from the RFETS residues from the following radioinuclides: 8,143 Ci (Pu238); 173,500 Ci (Pu239); 39,750 Ci (Pu240); 1,016,000 Ci (Pu241); and 108,500 Ci (Am241).

CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	PAD	PANT	RFETS	SRS	Total Curies
Es254					8.68E-08
Eu150					3.50E-05
Eu152					1.22E+00
Eu154				2.84E-04	1.10E+00
Eu155				5.28E+01	5.34E+01
Fe55					1.91E-05
Fe59					1.87E-07
Fr221	4.02E-07		3.55E-11	1.31E-05	1.94E+00
Fr223	1.75E-14	6.67E-19	2.19E-12	5.11E-09	3.87E-03
H3					8.65E-01
I129				1.17E-07	1.17E-07
Kr85					1.96E-01
Mn54				1.00E-10	8.51E-04
Nb95					2.41E-09
Nb95M					8.06E-12
Ni59				1.25E-03	1.25E-03
Ni63				1.52E-01	1.52E-01
Np237	5.50E+01		1.70E-02	8.59E+00	6.55E+01
Np239				7.55E-01	2.12E+01
Np240M				1.59E-11	1.19E-06
Pa231	2.09E-11	2.31E-15	2.70E-09	1.68E-06	3.16E-01
Pa233	5.50E+01		1.70E-02	8.59E+00	6.55E+01

[1]Argonne National Laboratory-East, Argonne National Laboratory-West, and Teledyne Brown Engineering are not included because no data were received. Data from Sandia National Laboratory-Albuquerque are reported under RH-TRU waste because although the final waste form is expected to be CH-TRU waste, the stored waste is remotely handled at the site.

[2]Data include undecayed curies from the RFETS residues from the following radioinuclides: 8,143 Ci (Pu238); 173,500 Ci (Pu239); 39,750 Ci (Pu240); 1,016,000 Ci (Pu241); and 108,500 Ci (Am241).

CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	PAD	PANT	RFETS	SRS	Total Curies
Pa234			1.94E-17	7.42E-06	7.90E-03
Pa234M			1.49E-14	5.71E-03	6.08E+00
Pb209	4.02E-07		3.55E-11	1.31E-05	1.94E+00
Pb210			4.54E-12	1.11E-06	1.65E+00
Pb211	1.27E-12	4.83E-17	1.58E-10	3.70E-07	2.81E-01
Pb212			4.98E-15	9.20E-03	2.66E+01
Pb214			9.77E-11	7.30E-06	7.72E+00
Pd107					3.17E-05
Pm147				1.24E-05	4.80E+00
Po210			4.50E-12	1.11E-06	1.65E+00
Po211	3.55E-15	1.35E-19	4.43E-13	1.04E-09	7.86E-04
Po212			3.19E-15	5.89E-03	1.70E+01
Po213	3.93E-07		3.47E-11	1.28E-05	1.90E+00
Po214			9.77E-11	7.30E-06	7.72E+00
Po215	4.03E-12	4.83E-17	1.58E-10	3.70E-07	2.81E-01
Po216			4.98E-15	9.20E-03	2.66E+01
Po218			9.77E-11	7.30E-06	7.73E+00
Pr144				8.62E-13	3.66E-02
Pu236					1.04E-02
Pu238			8.49E+03	4.87E+05	7.86E+05[2]
Pu239	5.57E+01	5.55E-02	1.83E+05	9.30E+03	3.44E+05[2]
Pu240			4.70E+04	2.29E+03	6.63E+04[2]

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CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	PAD	PANT	RFETS	SRS	Total Curies
Pu241			1.07E+06	6.20E+04	1.37E+06[2]
Pu242			9.63E-05	3.75E-01	4.87E+02
Pu243					1.34E-09
Pu244				2.09E-11	1.20E-06
Ra223	1.27E-12	4.83E-17	1.58E-10	3.70E-07	5.13E-01
Ra224			4.98E-15	9.20E-03	2.66E+01
Ra225	4.02E-07	4.02E-07	3.55E-11	1.31E-05	1.94E+00
Ra226			9.77E-11	7.30E-06	7.77E+00
Ra228			1.49E-14	1.01E-02	3.76E-01
Rh106				1.84E-10	1.52E-02
Rn219	1.27E-12	4.83E-17	1.58E-10	3.70E-07	2.81E-01
Rn220			4.98E-15	9.20E-03	2.66E+01
Rn222			9.77E-11	7.30E-06	7.73E+00
Ru106				1.84E-10	1.52E-02
Sb125				2.61E-05	5.22E-02
Sb126				2.41E-08	5.78E-05
Sb126M				1.72E-07	4.12E-04
Se79					1.86E-04
Sm151				3.13E-04	6.31E-01
Sn119M					2.44E-06
Sn121M					1.14E-02
Sn126				1.72E-07	4.17E-04

[1]Argonne National Laboratory-East, Argonne National Laboratory-West, and Teledyne Brown Engineering are not included because no data were received. Data from Sandia National Laboratory-Albuquerque are reported under RH-TRU waste because although the final waste form is expected to be CH-TRU waste, the stored waste is remotely handled at the site.

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CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	PAD	PANT	RFETS	SRS	Total Curies
Sr90				6.98E+00	2.22E+03
Tc99				4.50E-06	1.78E+01
Te125M				6.37E-06	1.27E-02
Te127					1.07E-07
Te127M					1.09E-07
Th227	1.25E-12	4.77E-17	1.56E-10	3.65E-07	2.77E-01
Th228			4.98E-15	9.20E-03	2.66E+01
Th229	4.02E-07		3.55E-11	1.31E-05	1.94E+00
Th230			1.16E-07	2.35E-03	3.20E-02
Th231	3.29E-07	1.09E-10	4.78E-05	5.84E-03	2.32E+00
Th232			1.02E-13	2.13E-02	4.22E-01
Th234			1.49E-14	5.71E-03	6.08E+00
Tl207	1.27E-12	4.82E-17	1.58E-10	3.69E-07	2.80E-01
Tl208			1.79E-15	3.31E-03	9.55E+00
Tl209	8.67E-09		7.66E-13	2.83E-07	4.19E-02
U232				8.94E-02	2.57E+01
U233	1.42E-03		1.29E+01	3.75E+00	1.22E+03
U234			4.81E-03	2.56E+01	1.07E+02
U235	3.29E-07	1.09E-10	4.78E-05	5.84E-03	2.33E+00
U236			9.17E-04	4.78E-02	5.72E-02
U237			1.28E+00	1.52E+00	8.66E+00
U238			1.49E-14	5.71E-03	6.08E+00

[1]Argonne National Laboratory-East, Argonne National Laboratory-West, and Teledyne Brown Engineering are not included because no data were received. Data from Sandia National Laboratory-Albuquerque are reported under RH-TRU waste because although the final waste form is expected to be CH-TRU waste, the stored waste is remotely handled at the site.

[2]Data include undecayed curies from the RFETS residues from the following radioinuclides: 8,143 Ci (Pu238); 173,500 Ci (Pu239); 39,750 Ci (Pu240); 1,016,000 Ci (Pu241); and 108,500 Ci (Am241).

CH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	PAD	PANT	RFETS	SRS	Total Curies
U240				1.59E-11	1.19E-06
Y90				6.98E+00	2.22E+03
Zn65					5.36E-09
Total by Site	**1.66E+02**	**5.55E-02**	**1.43E+06**	**5.65E+05**	**2.82E+06[2]**

ABBREVIATIONS

ARCO ARCO Medical Center, Pennsylvania
ARMY US Army Materiel Command
ETEC Energy Technology Engineering Center
HANF Hanford
INEL Idaho National Engineering Laboratory
KAPL Knolls Atomic Power Laboratory
LANL Los Alamos National Laboratory
LBL Lawrence Berkeley Laboratory
LLNL Lawrence Livermore National Laboratory
Mound Mound Facility
MURR University of Missouri
NTS Nevada Test Site
ORNL Oak Ridge National Laboratory
PAD Paducah
PANT Pantex
RFETS Rocky Flats Environmental Technology Site
SRS Savannah River Site

[1]Argonne National Laboratory-East, Argonne National Laboratory-West, and Teledyne Brown Engineering are not included because no data were received. Data from Sandia National Laboratory-Albuquerque are reported under RH-TRU waste because although the final waste form is expected to be CH-TRU waste, the stored waste is remotely handled at the site.

[2]Data include undecayed curies from the RFETS residues from the following radioinuclides: 8,143 Ci (Pu238); 173,500 Ci (Pu239); 39,750 Ci (Pu240); 1,016,000 Ci (Pu241); and 108,500 Ci (Am241).

RH Curies on a Site-by-Site[1] Basis (Decayed to the End of 1995)

Nuclide	ETEC	HANF	INEL	KAPL	LANL
Ac225	3.07E-18	5.45E-04	1.76E-04	4.11E-18	
Ac227	1.05E-16	1.70E-05	2.61E-07	3.82E-09	4.60E-07
Ac228		1.60E-03	3.87E-05		
Ag110			4.14E-09		9.88E-10
Ag110M			3.11E-07		7.43E-08
Am241	5.85E-02	1.93E+02	4.68E+01	5.07E-02	
Am243			6.91E-04		
Am245					
At217	3.07E-18	5.45E-04	1.76E-04	4.11E-18	
Ba137M	2.48E+00	6.61E+03	1.80E+03	5.40E+01	1.28E+02
Bi210		2.33E-07	6.06E-12	1.87E-16	5.61E-17
Bi211	1.05E-16	1.70E-05	2.61E-07	1.35E-18	4.60E-07
Bi212		1.49E-03	2.65E-05		
Bi213	3.07E-18	5.45E-04	1.76E-04	4.11E-18	
Bi214		1.16E-06	3.26E-10	1.24E-14	7.25E-15
Bk249					
C14			4.00E-02		
Cd113M			1.15E-07		8.88E-07
Ce144			3.98E+00	1.56E+00	1.60E-02
Cf249					
Cf250					
Cf252					
Cm243			1.45E-02		

[1]Argonne National Laboratory-West is not included in this table because no radionuclide data were received from the site.

RH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	ETEC	HANF	INEL	KAPL	LANL
Cm244			9.63E-02		
Cm245					
Cm246					
Cm248					
Co58			4.37E-11		
Co60	2.30E+00	3.36E+02	1.30E+01	2.75E-01	4.17E+00
Cr51			1.08E-05		
Cs134			5.38E+01	4.73E+00	2.42E-02
Cs135			2.36E-05		1.91E-04
Cs137	2.62E+00	6.98E+03	1.90E+03	5.71E+01	1.35E+02
Eu152			1.14E-01		5.09E-04
Eu154			7.90E-01	1.40E+00	3.50E-02
Eu155			3.35E-01	1.81E-01	1.77E+00
Fe55			5.96E-01		
Fr221	3.07E-18	5.45E-04	1.76E-04	4.11E-18	
Fr223	1.45E-18	2.35E-07	3.60E-09	1.86E-20	6.34E-09
H3			1.43E-01		
Kr 85			5.95E+00		
Mn54			8.30E-02		
Nb95			5.28E-12		2.14E-14
Nb95M			1.76E-14		7.15E-17
Ni63			3.50E+00		
Np237	2.26E-08	1.58E-03	8.10E-04	2.25E-08	
Np239			6.91E-04		

[1]Argonne National Laboratory-West is not included in this table because no radionuclide data were received from the site.

RH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	ETEC	HANF	INEL	KAPL	LANL
Np240M					
Pa231	6.68E-15	6.21E-05	2.24E-06	7.51E-17	2.39E-06
Pa233	2.26E-08	1.58E-03	8.10E-04	2.25E-08	
Pa234		1.33E-05	1.80E-06	4.48E-18	2.60E-08
Pa234M		1.03E-02	1.38E-03	3.45E-15	2.00E-05
Pb209	3.07E-18	5.45E-04	1.76E-04	4.11E-18	
Pb210		2.33E-07	6.06E-12	1.87E-16	5.61E-17
Pb211	1.05E-16	1.70E-05	2.61E-07	1.35E-18	4.60E-07
Pb212		1.49E-03	2.65E-05		
Pb214		1.16E-06	3.26E-10	1.24E-14	7.25E-15
Pd107			3.49E-06		2.83E-05
Pm147			1.49E+01	4.34E+00	1.13E+01
Po210		2.33E-07	4.06E-12	8.21E-17	1.60E-17
Po211	2.94E-19	4.77E-08	7.30E-10	3.78E-21	1.29E-09
Po212		9.54E-04	1.70E-05		
Po213	3.00E-18	5.33E-04	1.72E-04	4.02E-18	
Po214		1.16E-06	3.26E-10	1.24E-14	7.25E-15
Po215	1.05E-16	1.70E-05	2.61E-07	1.35E-18	4.60E-07
Po216		1.49E-03	2.65E-05		
Po218		1.16E-06	3.26E-10	1.24E-14	7.25E-15
Pr144			3.93E+00	1.54E+00	1.58E-02
Pu238		4.67E+01	6.09E+01	9.27E-01	3.90E+00
Pu239	4.00E-01	3.35E+02	2.98E+01	3.30E-03	9.28E+01
Pu240		1.67E+02	2.48E+01	3.10E-03	

[1]Argonne National Laboratory-West is not included in this table because no radionuclide data were received from the site.

RH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	ETEC	HANF	INEL	KAPL	LANL
Pu241		4.67E+03	4.81E+01	7.77E-01	
Pu242		4.92E-03	1.01E-03	1.56E-05	
Pu244					
Ra223	1.05E-16	1.70E-05	2.61E-07	1.35E-18	4.60E-07
Ra224		1.49E-03	2.65E-05		
Ra225	3.07E-18	5.45E-04	1.76E-04	4.11E-18	
Ra226		1.16E-06	3.26E-10	1.24E-14	7.25E-15
Ra228		1.60E-03	3.87E-05	2.37E-17	
Rh106			6.65E-02	4.98E-01	3.38E-01
Rn219	1.05E-16	1.70E-05	2.61E-07	1.35E-18	4.60E-07
Rn220		1.49E-03	2.65E-05		
Rn222		1.16E-06	3.26E-10	1.24E-14	7.25E-15
Ru106			6.65E-02	4.98E-01	3.38E-01
Sb125			9.81E-01	5.33E-01	2.79E+00
Sb126			6.35E-06		5.15E-05
Sb126M			4.53E-05		3.68E-04
Se79			2.05E-05		1.66E-04
Sm151			7.53E-02		5.82E-01
Sn119M			2.33E-06		5.20E-07
Sn121M			1.36E-03		1.09E-02
Sn126			4.53E-05		3.68E-04
Sr89			6.64E-04		
Sr90	2.62E+00	6.46E+03	1.70E+03	5.70E+01	1.24E+02
Ta182			1.49E-07		

[1]Argonne National Laboratory-West is not included in this table because no radionuclide data were received from the site.

RH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	ETEC	HANF	INEL	KAPL	LANL
Tc99			1.18E-03		9.54E-03
Te125M			2.39E-01	1.30E-01	6.88E-01
Te127			5.79E-09		1.39E-10
Te127M			5.91E-09		1.42E-10
Th227	1.03E-16	1.68E-05	2.57E-07	1.33E-18	4.53E-07
Th228		1.49E-03	2.65E-05		
Th229	3.07E-18	5.45E-04	1.76E-04	4.11E-18	
Th230		2.42E-04	1.37E-06	4.36E-11	5.01E-11
Th231	4.73E-10	1.46E-01	6.42E-03	4.53E-12	8.78E-03
Th232		1.95E-03	7.51E-05	4.68E-21	
Th234		1.03E-02	1.38E-03	3.45E-15	2.00E-05
Tl207	1.05E-16	1.70E-05	2.60E-07	1.35E-18	4.58E-07
Tl208		5.35E-04	9.52E-06		
Tl209	6.63E-20	1.18E-05	3.80E-06	8.88E-20	
U232					
U233	6.55E-14	4.15E-01	3.91E-01	7.62E-14	
U234		1.29E+00	1.51E-01	4.98E-06	1.11E-05
U235	4.73E-10	1.46E-01	5.38E-03	4.53E-12	8.78E-03
U236		8.63E-05	3.52E-06	1.24E-10	
U237		1.14E-01	1.18E-03	1.91E-05	
U238		1.03E-02	3.57E-03	3.45E-15	2.00E-05
U240					
Y90	2.62E+00	6.46E+03	1.70E+03	5.70E+01	1.24E+02
Zr93			2.65E-04		3.40E-03

[1]Argonne National Laboratory-West is not included in this table because no radionuclide data were received from the site.

RH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	ETEC	HANF	INEL	KAPL	LANL
Zr95			2.38E-12		9.64E-15
Total by Site	**1.31E+01**	**3.23E+04**	**7.40E+03**	**2.43E+02**	**6.30E+02**

Nuclide	NTS	ORNL	SRS	SNL/NM	WVDP	Total Curies
Ac225	8.80E-14	5.40E-02	2.96E-15	6.40E-18	7.44E-15	5.47E-02
Ac227	9.88E-13	2.81E-03	4.20E-13	2.77E-20		2.82E-03
Ac228	3.63E-18	8.70E-02				8.87E-02
Ag110						5.12E-09
Ag110M						3.85E-07
Am241	4.85E-01	2.42E+02	6.79E-02	1.02E-02	5.39E-01	4.83E+02
Am243		9.98E-05	1.60E-05			8.07E-04
Am245		8.61E-16				8.61E-16
At217	8.80E-14	5.40E-02	2.96E-15	6.40E-18	5.77E-03	6.05E-02
Ba137M		9.25E+03	6.49E+00		5.06E+01	1.79E+04
Bi210		9.40E-11	1.24E-16		1.51E-12	2.33E-07
Bi211	9.88E-13	2.81E-03	4.20E-13	4.20E-13		2.82E-03
Bi212	2.08E-18	1.68E+00				1.68E+00
Bi213	8.80E-14	5.40E-02	2.96E-15	6.40E-18	7.44E-15	5.47E-02
Bi214		6.25E-10	1.64E-14	7.34E-20	2.38E-11	1.16E-06
Bk249		5.94E-11				5.94E-11
C14		6.11E+00				6.15E+00
Cd113M						1.00E-06

[1]Argonne National Laboratory-West is not included in this table because no radionuclide data were received from the site.

RH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	NTS	ORNL	SRS	SNL/NM	WVDP	Total Curies
Ce144		1.20E+01				1.75E+01
Cf249		1.34E-02				1.34E-02
Cf250	1.81E-01					1.81E-01
Cf252		3.86E+00				3.86E+00
Cm243		1.48E+02				1.48E+02
Cm244	1.55E+02	9.44E+02	4.68E+00			1.10E+03
Cm245		4.39E-06				4.39E-06
Cm246	3.95E-04					3.95E-04
Cm248		6.13E-04				6.13E-04
Co58						4.37E-11
Co60		6.14E+02				9.70E+02
Cr 51						1.08E-05
Cs134		9.57E+00				6.81E+01
Cs135						2.15E-04
Cs137		9.78E+03	6.86E+00		5.35E+01	1.89E+04
Eu152		3.66E+03				3.66E+03
Eu154		1.77E+03				1.78E+03
Eu155		3.51E+02				3.53E+02
Fe55						5.96E-01
Fr221	8.80E-14	5.40E-02	2.96E-15	6.40E-18	7.44E-15	5.47E-02
Fr223	1.36E-14	3.87E-05	5.80E-15	3.82E-22		3.90E-05
H3		7.71E-02	1.39E-02			2.34E-01
Kr85						5.95E+00
Mn54						8.30E-02

[1]Argonne National Laboratory-West is not included in this table because no radionuclide data were received from the site.

RH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	NTS	ORNL	SRS	SNL/NM	WVDP	Total Curies
Nb95		3.15E-03				3.15E-03
Nb95M		2.46E-06				2.46E-06
Ni63						3.50E+00
Np237	3.19E-06	5.07E-04	1.43E-05	1.00E-08	1.49E-06	2.92E-03
Np239		9.98E-05	1.60E-05			8.07E-04
Np240M		6.62E-11				6.62E-11
Pa231	6.39E-12	2.07E-02	2.67E-11	5.21E-19		2.08E-02
Pa233	3.19E-06	5.07E-04	1.75E-05	1.00E-08	1.49E-06	2.92E-03
Pa234	3.31E-21	4.38E-03				4.39E-03
Pa234M	2.54E-18	3.37E+00				3.38E+00
Pb209	8.80E-14	5.40E-02	2.96E-15	6.40E-18	7.44E-15	5.47E-02
Pb210		9.40E-11	1.24E-16		1.51E-12	2.33E-07
Pb211	9.88E-13	2.81E-03	4.20E-13	2.46E-12		2.82E-03
Pb212	2.08E-18	1.68E+00				1.68E+00
Pb214		6.25E-10	1.64E-14	7.34E-20	2.38E-11	1.16E-06
Pd107						3.18E-05
Pm147	1.53E+00		1.34E+00			3.34E+01
Po210		9.40E-11	3.40E-17		1.51E-12	2.33E-07
Po211	2.76E-15	7.86E-06	1.18E-15	5.38E-15		7.91E-06
Po212	1.34E-18	1.07E+00				1.07E+00
Po213	8.61E-14	5.28E-02	2.89E-15	6.26E-18	7.28E-15	5.35E-02
Po214	1.91E-15	6.31E-10	1.64E-14	7.34E-20	2.38E-11	1.16E-06
Po215	9.88E-13	2.81E-03	4.20E-13	2.77E-20		2.82E-03
Po216	2.08E-18	1.68E+00		1.01E-02		1.69E+00

[1]Argonne National Laboratory-West is not included in this table because no radionuclide data were received from the site.

RH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	NTS	ORNL	SRS	SNL/NM	WVDP	Total Curies
Po218		6.25E-10	1.64E-14	7.34E-20	2.38E-11	1.16E-06
Pr144		1.51E+01				2.05E+01
Pu238		2.81E+01	8.83E+00	4.92E-06	1.98E+01	1.69E+02
Pu239	2.36E+00	9.85E+01	1.06E-02	2.00E-06		5.59E+02
Pu240	2.54E-01	1.07E+00	5.06E-04			1.93E+02
Pu241	6.60E-05	3.97E-07				4.71E+03
Pu242	4.27E-09					5.95E-03
Pu244		6.63E-11				6.63E-11
Ra223	9.88E-13	2.81E-03	4.20E-13	2.77E-20		2.82E-03
Ra224	2.08E-18	1.68E+00				1.68E+00
Ra225	8.80E-14	5.40E-02	2.96E-15	6.40E-18	7.44E-15	5.47E-02
Ra226		6.25E-10	1.64E-14	7.34E-20	2.38E-11	1.16E-06
Ra228	3.63E-18	8.70E-02				8.87E-02
Rh106		3.21E+01				3.30E+01
Rn219	9.88E-13	2.81E-03	4.20E-13	2.77E-20		2.82E-03
Rn220	2.08E-18	1.68E+00				1.68E+00
Rn222		6.25E-10	1.64E-14	7.34E-20	2.38E-11	1.16E-06
Ru106		3.21E+01				3.30E+01
Sb125						4.30E+00
Sb126						5.78E-05
Sb126M						4.13E-04
Se79						1.86E-04
Sm151						6.58E-01
Sn119M						2.85E-06

[1]Argonne National Laboratory-West is not included in this table because no radionuclide data were received from the site.

RH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	NTS	ORNL	SRS	SNL/NM	WVDP	Total Curies
Sn121M						1.23E-02
Sn126						4.13E-04
Sr89						6.64E-04
Sr90		3.52E+04	6.85E+00		1.96E+01	4.36E+04
Ta182						1.49E-07
Tc99	1.48E-04					1.09E-02
Te125M						1.06E+00
Te127						5.93E-09
Te127M						6.05E-09
Th227	9.74E-13	2.77E-03	4.14E-13	2.73E-20		2.79E-03
Th228	2.08E-18	1.68E+00				1.68E+00
Th229	8.80E-14	5.40E-02	2.96E-15	6.40E-18	7.44E-15	5.47E-02
Th230		1.98E-07	1.13E-10	2.54E-16	1.92E-08	2.43E-04
Th231	3.71E-08	1.86E+02	1.26E-06	9.85E-15		1.86E+02
Th232	1.24E-17	9.89E-02	1.24E-22			1.01E-01
Th234	2.54E-18	3.37E+00				3.38E+00
Tl207	9.85E-13	2.80E-03	4.19E-13	2.76E-20		2.82E-03
Tl208	7.49E-19	6.02E-01				6.02E-01
Tl209	1.90E-15	1.17E-03	6.39E-17	1.38E-19	1.61E-16	1.18E-03
U232		1.76E+00				1.76E+00
U233	1.40E-10	5.73E+01	6.26E-11	6.66E-14	2.76E-11	5.81E+01
U234	2.02E-23	2.02E-03	2.51E-05	2.81E-11	4.94E-04	1.45E+00
U235	3.71E-08	1.86E+02	1.26E-06	9.85E-15		1.86E+02
U236	5.24E-08	2.32E-07	7.54E-12			9.01E-05

[1]Argonne National Laboratory-West is not included in this table because no radionuclide data were received from the site.

RH-TRU Curies on a Site-by-Site Basis (continued)

Nuclide	NTS	ORNL	SRS	SNL/NM	WVDP	Total Curies
U237	1.62E-09	9.74E-12				1.16E-01
U238	2.54E-18	3.37E+00				3.38E+00
U240		6.62E-11				6.62E-11
Y90		3.52E+04	6.85E+00		1.96E+01	4.36E+04
Zr93						3.67E-03
Zr95		3.31E-04				3.31E-04
Total by Site	**1.60E+02**	**9.79E+04**	**4.20E+01**	**2.03E-02**	**1.64E+02**	**1.39E+05**

ABBREVIATIONS

ETEC Energy Technology Engineering Center
HANF Hanford
INEL Idaho National Engineering Laboratory
KAPL Knolls Atomic Power Laboratory
LANL Los Alamos National Laboratory
NTS Nevada Test Site
ORNL Oak Ridge National Laboratory
SRS Savannah River Site
SNL/NM Sandia National Laboratory-Albuquerque
WVDP West Valley Demonstration Plant

[1]Argonne National Laboratory-West is not included in this table because no radionuclide data were received from the site.

APPENDIX E

Appendix E

TRUCON AND NMVP CROSS-CORRELATION TABLE

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
AE-T001	AE-T001		SOLID HETEROGENEOUS INORGANIC/ORGANIC WASTE	AE-131		Unassigned	CH
AE-T003	AE-T003		NONHAZARDOUS METALS	RF-321		Unassigned	CH
AE-W038	AE-W038		AQUEOUS LAB PACKS	AE-131		Unassigned	CH
AE-W039	AE-W039		ORGANIC RESINS	RF-806.1		Unassigned	CH
AE-W040	AE-W040		WASTEWATER TREATMENT SLUDGES	RF-800		Unassigned	CH
AE-W041	AE-W041		NON-ACTIVATED LEAD	RF-321		Unassigned	CH
AE-W042	AE-W042		CADMIUM CONTAINING METAL DEBRIS	RF-480		Unassigned	CH
AL-W005	AL-W005	Glovebox	AQUEOUS LIQUIDS/SLURRIES	RF-800		Unassigned	CH
AM-W001	AM-W001		NUCLEAR PACEMAKERS				CH
AW-W026	AW-N026.82	CH-ANL-505T	ALHC UPGRADE DECON DEBRIS				CH
AW-W027	AW-N027.531	CH-ANL-142T	LEAD CONTAMINATED WASTE				CH
AW-W028	AW-N028	CH-ANL-503T	TRU WASTE USED PRE-FILTERS				RH
AW-W029	AW-T029.1323	CH-ANL-538	RSWF TRANSURANIC WASTE				RH
AW-W030	AW-T030.1321	CH-ANL-539	FCF TRU (CH) DISCARDED METAL DEBRIS				CH
AW-W031	AW-T031.1322	CH-ANL-540	FCF (RH) MISCELLANEOUS TRU WASTE				RH
AW-W032	AW-T032.1324	CH-ANL-541	FCF TRU (CH) COMBUSTIBLES				CH
AW-W033	AW-T033.1325	CH-ANL-542	ANL-752 TRU WASTE				CH
AW-W034	AW-T034.1327	CH-ANL-543	FCF TRU (CH) COMPACTIBLE WASTE				CH
AW-W035	AW-T035.1326	CH-ANL-544	FCF (RH) TRU GLASS-METAL WASTE				RH
AW-W012	AW-W012.10	CH-ANL-218T	ELECTROREFINER STRIPPED SALT - BA AND CD				RH
AW-W016	AW-W016.20	CH-ANL-245T	ELECTROREFINER STRIPPED CADMIUM				RH
AW-W018	AW-W018	CH-ANL-180T	SODIUM - TRU				RH
AW-W019	AW-W019	CH-ANL-182T	SODIUM POTASSIUM -NAK- TRU				RH
AW-W020	AW-W020.13	CH-ANL-241T	TRU-CD-HOT CELL WASTE				RH
AW-W021	AW-W021.16	CH-ANL-243T	ELEMENT HARDWARE FCF WASTE				RH
AW-W022	AW-W022.22	CH-ANL-246T	ELECTROREFINER INSOLUBLES W/ CADMIUM				RH
BC-T001	BC-T001		RH/TRU RUBBLE/DEBRIS			Unassigned	RH
BT-T001	BT-T001	BT-T001	IRRADIATED TRU MATERIAL WASTE	BT-T001	N/A	N/A	RH
BT-T002	BT-T002	BT-T002	CONTAMINATED PIPING SYSTEM	BT-T002	N/A	N/A	CH

Appendix E

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
BT-T003	BT-T003	BT-T003	UNIRRADIATED ALPHA CONTAMINATED WASTE	BT-T003	N/A	N/A	CH
BT-T004	BT-T004	BT-T004	AMERICIUM-243 SOURCE	BT-T004	N/A	N/A	CH
BT-T005	BT-T005	BT-T005	CALIFORNIUM-252 SOURCE	BT-T005	N/A	N/A	CH
ET-W002	ET-M001	ET	HOT LAB & PU FACILITY D&D		NA		RH
ET-W021	ET-T001A	ET	HOT LAB & PU FACILITY D&D		NA		RH
ET-W027	ET-T001B	ET	HOT LAB & PU FACILITY D&D		NA	Unassigned	CH
IN-W112	IN-W112	ID-CPP-172	HEPA FILTERS				RH
IN-W139	IN-W139.627	ID-INL-142T	TRANSURANIC CONTAMINATED LEAD DEBRIS				CH
IN-W146	IN-W146.699	ID-TRA-291T	TRU HEAVY METAL SLUDGE				CH
IN-W157	IN-W157.144	ID-RFO-004T	SPECIAL SETUPS (CEMENT):DIRECT SHIP	4		213	CH
IN-W157	IN-W157.906	ID-RFO-004T	SPECIAL SETUPS (CEMENT):CERT-REPACK	4		213	CH
IN-W157	IN-W157.907	ID-RFO-004T	SPECIAL SETUPS (CEMENT):UNCERTIFIABLE				CH
IN-W159	IN-W159.1072	ID-MDO-811T	EVAPORATOR AND DISSOLVER SLUDGE:DIRECT SHIP	811			CH
IN-W159	IN-W159.119	ID-MDO-811T	EVAPORATOR AND DISSOLVER SLUDGE:UNCERT-MERCURY				CH
IN-W159	IN-W159.120	ID-MDO-811T	EVAPORATOR AND DISSOLVER SLUDGE:UNCERT-OTHER				CH
IN-W161	IN-W161.231	ID-RFO-371T	FIREBRICK:CERT-REPACK	371	122	122, 222	CH
IN-W161	IN-W161.806	ID-RFO-371T	FIREBRICK:DIRECT SHIP	371	122	122, 222	CH
IN-W163	IN-W163.1007	ID-RFO-375T	OIL-DRI RESIDUE FROM INCINERATOR:DIRECT SHIP	375			CH
IN-W163	IN-W163.234	ID-RFO-375T	OIL-DRI RESIDUE FROM INCINERATOR:UNCERTIFIABLE				CH
IN-W164	IN-W164.1060	ID-RFO-700T	ORGANIC AND SLUDGE IMMOBILIZATION SYSTEM:CERT-REPACK	700			CH
IN-W164	IN-W164.153	ID-RFO-700T	ORGANIC AND SLUDGE IMMOBILIZATION SYSTEM:DIRECT SHIP	700			CH
IN-W166	IN-W166.151	ID-RFO-114T	SOLIDIFIED INORGANIC PROCESS SOLUTION:DIRECT SHIP	114		114	CH
IN-W166	IN-W166.928	ID-RFO-114T	SOLIDIFIED INORGANIC PROCESS SOLUTION:CERT-REPACK	114		114	CH
IN-W167	IN-W167.149	ID-RFO-112T	SOLIDIFIED ORGANICS:DIRECT SHIP	112		112	CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
IN-W167	IN-W167.926	ID-RFO-112T	SOLIDIFIED ORGANICS:CERT-REPACK	112		112	CH
IN-W169	IN-W169.191	ID-RFO-330T	DRY PAPER AND RAGS:CH-CERT-REPACK	330	116	116, 216	CH
IN-W169	IN-W169.192	ID-RFO-330T	DRY PAPER AND RAGS:CH-UNCERT				CH
IN-W169	IN-W169.193	ID-RFO-330T	DRY PAPER AND RAGS:RH-CERT-REPACK	330	116	116, 216	RH
IN-W169	IN-W169.194	ID-RFO-330T	DRY PAPER AND RAGS:RH-UNCERT				RH
IN-W169	IN-W169.985	ID-RFO-330T	DRY PAPER AND RAGS:DIRECT SHIP	330	116	116, 216	CH
IN-W170	IN-W170.189	ID-AEO-120T	DECONTAMINATION AND DECOMMISIONING WASTE:DIRECT SHIP	120			CH
IN-W170	IN-W170.938	ID-AEO-120T	DECONTAMINATION AND DECOMMISIONING WASTE:CERT-REPACK	120			CH
IN-W171	IN-W171.184	ID-AEO-110T	RESEARCH GENERATED WASTE COMPACTIBLE & C: CERT-REPACK	110			CH
IN-W171	IN-W171.801	ID-AEO-110T	RESEARCH GENERATED WASTE COMPACTIBLE & C:DIRECT SHIP	110			CH
IN-W172	IN-W172.182	ID-BTO-010T	COMBUSTIBLES:CERT-REPACK	10			CH
IN-W172	IN-W172.911	ID-BTO-010T	COMBUSTIBLES:DIRECT SHIP	10			CH
IN-W174	IN-W174.1082	ID-MDO-834T	HIGH-LEVEL ACID:CERT-REPACK	834			CH
IN-W174	IN-W174.154	ID-MDO-834T	HIGH-LEVEL ACID:DIRECT SHIP	834			CH
IN-W177	IN-W177.1083	ID-MDO-835T	HIGH-LEVEL CAUSTIC:CERT-REPACK	835			CH
IN-W177	IN-W177.156	ID-MDO-835T	HIGH-LEVEL CAUSTIC:DIRECT SHIP	835			CH
IN-W179	IN-W179.1084	ID-MDO-836T	HIGH-LEVEL SLUDGE/CEMENT:CERT-REPACK	836			CH
IN-W179	IN-W179.158	ID-MDO-836T	HIGH-LEVEL SLUDGE/CEMENT:DIRECT SHIP	836			CH
IN-W181	IN-W181.162	ID-RFO-978T	LAUNDRY SLUDGE	978		211	CH
IN-W186	IN-W186.187	ID-RFO-116T	COMBUSTIBLE WASTE	116		116	CH
IN-W187	IN-W187.1094	ID-RFO-980T	EQUIPMENT:DIRECT SHIP	980			CH
IN-W187	IN-W187.121	ID-RFO-980T	EQUIPMENT:UNCERTIFIABLE				CH
IN-W188	IN-W188.1093	ID-RFO-976T	BLDG 776 PROCESS SLUDGE:CERT-REPACK	976		211	CH
IN-W188	IN-W188.160	ID-RFO-976T	BLDG 776 PROCESS SLUDGE:DIRECT SHIP	976		211	CH
IN-W189	IN-W189.1048	ID-RFO-464T	BENELEX AND PLEXIGLASS:CERT-REPACK	464		221	CH
IN-W189	IN-W189.131	ID-RFO-464T	BENELEX AND PLEXIGLASS:DIRECT SHIP	464		221	CH
IN-W197	IN-W197.196	ID-RFO-336T	MOIST PAPER AND RAGS:CH-UNCERT				CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
IN-W197	IN-W197.197	ID-RFO-336T	MOIST PAPER AND RAGS:RH-CERT-REPACK	336	116	116, 216	RH
IN-W197	IN-W197.198	ID-RFO-336T	MOIST PAPER AND RAGS:RH-UNCERT				RH
IN-W197	IN-W197.802	ID-RFO-336T	MOIST PAPER AND RAGS:CH-CERT-REPACK	336	116	116, 216	CH
IN-W197	IN-W197.803	ID-RFO-336T	MOIST PAPER AND RAGS:DIRECT SHIP	336	116	116, 216	CH
IN-W198	IN-W198.202	ID-RFO-337T	PLASTICS, TEFLON, WASH, PVC:CH-CERT-REPACK	337	116	116, 216	CH
IN-W198	IN-W198.203	ID-RFO-337T	PLASTICS, TEFLON, WASH, PVC:CH-UNCERT				CH
IN-W198	IN-W198.204	ID-RFO-337T	PLASTICS, TEFLON, WASH, PVC:RH-CERT-REPACK	337	116	116, 216	RH
IN-W198	IN-W198.205	ID-RFO-337T	PLASTICS, TEFLON, WASH, PVC:RH-UNCERT				RH
IN-W198	IN-W198.804	ID-RFO-337T	PLASTICS, TEFLON, WASH, PVC:DIRECT SHIP	337	116	116, 216	CH
IN-W199	IN-W199.1039	ID-RFO-460T	WASHABLES, RUBBER, PLASTICS:DIRECT SHIP	460			CH
IN-W199	IN-W199.209	ID-RFO-460T	WASHABLES, RUBBER, PLASTICS:UNCERTIFIABLE				CH
IN-W202	IN-W202.1092	ID-RFO-970T	WOOD:DIRECT SHIP	970		216	CH
IN-W202	IN-W202.224	ID-RFO-970T	WOOD:CERT-REPACK	970		216	CH
IN-W203	IN-W203.1081	ID-MDO-826T	COMBUSTIBLE EQUIPMENT BOXES OR FLOOR SWE:DIRECT SHIP	826			CH
IN-W203	IN-W203.210	ID-MDO-826T	COMBUSTIBLE EQUIPMENT BOXES OR FLOOR SWE:CERT-REPACK	826			CH
IN-W203	IN-W203.211	ID-MDO-826T	COMBUSTIBLE EQUIPMENT BOXES OR FLOOR SWE:UNCERT-SWEEPINGS				CH
IN-W203	IN-W203.212	ID-MDO-826T	COMBUSTIBLE EQUIPMENT BOXES OR FLOOR SWE:UNCERT-HG				CH
IN-W204	IN-W204.215	ID-MDO-827T	COMBUSTIBLE EQUIPMENT DRUMS:DIRECT SHIP	827			CH
IN-W204	IN-W204.216	ID-MDO-827T	COMBUSTIBLE EQUIPMENT DRUMS:CERT-REPACK	827			CH
IN-W204	IN-W204.217	ID-MDO-827T	COMBUSTIBLE EQUIPMENT DRUMS:UNCERT-HG				CH
IN-W205	IN-W205.1086	ID-RFO-900T	LOW SPECIFIC ACTIVITY PLASTICS, PAPER, E:CERT-REPACK	900		216	CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
IN-W205	IN-W205.1087	ID-RFO-900T	LOW SPECIFIC ACTIVITY PLASTICS, PAPER, E:UNCERT				CH
IN-W205	IN-W205.220	ID-RFO-900T	LOW SPECIFIC ACTIVITY PLASTICS, PAPER, E:DIRECT SHIP	900		216	CH
IN-W206	IN-W206.935	ID-RFO-119T	HEPA FILTER WASTE:DIRECT SHIP	119		119	CH
IN-W206	IN-W206.936	ID-RFO-119T	HEPA FILTER WASTE:UNCERTIFIABLE				CH
IN-W207	IN-W207.238	ID-RFO-328T	FULFLO INCINERATOR FILTERS:UNCERTIFIABLE				CH
IN-W207	IN-W207.980	ID-RFO-328T	FULFLO INCINERATOR FILTERS:DIRECT SHIP	328			CH
IN-W207	IN-W207.981	ID-RFO-328T	FULFLO INCINERATOR FILTERS:CERT-REPACK	328			CH
IN-W208	IN-W208.242	ID-RFO-335T	ABSOLUTE 8 X 8 FILTERS:CH-UNCERT				CH
IN-W208	IN-W208.243	ID-RFO-335T	ABSOLUTE 8 X 8 FILTERS:RH-UNCERT				RH
IN-W208	IN-W208.988	ID-RFO-335T	ABSOLUTE 8 X 8 FILTERS:DIRECT SHIP	335	119	119, 219	CH
IN-W209	IN-W209.244	ID-RFO-338T	INSULATION AND CHEMICAL WARFARE SERVICE :UNCERTIFIABLE				CH
IN-W209	IN-W209.994	ID-RFO-338T	INSULATION AND CHEMICAL WARFARE SERVICE :DIRECT SHIP	338		219	CH
IN-W210	IN-W210.1001	ID-RFO-360T	INSULATION:DIRECT SHIP	360			CH
IN-W210	IN-W210.247	ID-RFO-360T	INSULATION:UNCERTIFIABLE				CH
IN-W211	IN-W211.1009	ID-RFO-376T	CEMENTED INSULATION AND FILTER MEDIA:DIRECT SHIP	376	119	119	CH
IN-W211	IN-W211.249	ID-RFO-376T	CEMENTED INSULATION AND FILTER MEDIA:UNCERTIFIABLE				CH
IN-W212	IN-W212.1058	ID-RFO-490T	CHEMICAL WARFARE SERVICE FILTERS:DIRECT SHIP	490	119	119, 219	CH
IN-W212	IN-W212.251	ID-RFO-490T	CHEMICAL WARFARE SERVICE FILTERS:UNCERTIFIABLE				CH
IN-W213	IN-W213.1069	ID-MDO-805T	ASBESTOS FILTERS:DIRECT SHIP	805			CH
IN-W213	IN-W213.252	ID-MDO-805T	ASBESTOS FILTERS:UNCERTIFIABLE				CH
IN-W213	IN-W213.253	ID-MDO-805T	ASBESTOS FILTERS:MERCURY				CH
IN-W214	IN-W214.1075	ID-MDO-813T	GLASS FILTERS AND FIBERGLASS:CERT-REPACK	813			CH
IN-W214	IN-W214.755	ID-MDO-813T	GLASS FILTERS AND FIBERGLASS:DIRECT SHIP	813			CH
IN-W214	IN-W214.756	ID-MDO-813T	GLASS FILTERS AND FIBERGLASS:UNCERT-MERCURY				CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
IN-W216	IN-W216.875	ID-RFO-001T	FIRST STAGE SLUDGE:CH-CERT-REPACK	1		211	CH
IN-W216	IN-W216.876	ID-RFO-001T	FIRST STAGE SLUDGE:RH-UNCERTIFIABLE				RH
IN-W216	IN-W216.877	ID-RFO-001T	FIRST STAGE SLUDGE:RH-CERT-REPACK	1		211	RH
IN-W216	IN-W216.98	ID-RFO-001T	FIRST STAGE SLUDGE:DIRECT SHIP	1		211	CH
IN-W216	IN-W216.99	ID-RFO-001T	FIRST STAGE SLUDGE:CH-UNCERTIFIABLE				CH
IN-W218	IN-W218.109	ID-RFO-007T	BLDG 374 DRY SLUDGE:UNCERTIFIABLE				CH
IN-W218	IN-W218.909	ID-RFO-007T	BLDG 374 DRY SLUDGE:DIRECT SHIP	7	111	111,211	CH
IN-W219	IN-W219.110	ID-BTO-030T	SOLIDIFIED GRINDING SLUDGE, ETC.:UNCERTIFIABLE				CH
IN-W219	IN-W219.914	ID-BTO-030T	SOLIDIFIED GRINDING SLUDGE, ETC.:RH DIRECT SHIP	30			CH
IN-W220	IN-W220.114	ID-OFS-111T	RESEARCH GENERATED WASTE NONCOMPACTIBLE :DIRECT SHIP	111		111	CH
IN-W220	IN-W220.925	ID-OFS-111T	RESEARCH GENERATED WASTE NONCOMPACTIBLE :CERT-REPACK	111		111	CH
IN-W221	IN-W221.113	ID-RFO-113T	SOLID LAB WASTE:CERT-REPACK	113		113	CH
IN-W221	IN-W221.927	ID-RFO-113T	SOLID LAB WASTE:DIRECT SHIP	113		113	CH
IN-W222	IN-W222.116	ID-RFO-292T	CEMENTED SLUDGE:DIRECT SHIP	292			CH
IN-W222	IN-W222.117	ID-RFO-292T	CEMENTED SLUDGE:UNCERTIFIABLE				CH
IN-W222	IN-W222.965	ID-RFO-292T	CEMENTED SLUDGE:CERT-REPACK	292			CH
IN-W225	IN-W225.127	ID-RFO-302T	BENELEX AND PLEXIGLASS:CERT-REPACK	302	121	121, 221	CH
IN-W225	IN-W225.800	ID-RFO-302T	BENELEX AND PLEXIGLASS:DIRECT SHIP	302	121	121, 221	CH
IN-W228	IN-W228.101	ID-RFO-002T	SECOND STAGE SLUDGE:DIRECT SHIP	2		211	CH
IN-W228	IN-W228.102	ID-RFO-002T	SECOND STAGE SLUDGE:CH-UNCERT-OTHER				CH
IN-W228	IN-W228.103	ID-RFO-002T	SECOND STAGE SLUDGE:CH-UNCERT-HG				CH
IN-W228	IN-W228.883	ID-RFO-002T	SECOND STAGE SLUDGE:CH-CERT-REPACK	2		211	CH
IN-W228	IN-W228.884	ID-RFO-002T	SECOND STAGE SLUDGE:RH-UNCERT-OTHER				RH
IN-W228	IN-W228.885	ID-RFO-002T	SECOND STAGE SLUDGE:RH-UNCERT-HG				RH
IN-W228	IN-W228.886	ID-RFO-002T	SECOND STAGE SLUDGE:RH-CERT-REPACK	2		211	RH
IN-W230	IN-W230.229	ID-RFO-122T	INORGANIC SOLID WASTE:DIRECT SHIP	122		122	CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
IN-W230	IN-W230.940	ID-RFO-122T	INORGANIC SOLID WASTE:CERT-REPACK	122		122	CH
IN-W240	IN-W240.272	ID-RFO-118T	GLASS WASTE:CERT-REPACK	118		118	CH
IN-W240	IN-W240.931	ID-RFO-118T	GLASS WASTE:DIRECT SHIP	118		118	CH
IN-W243	IN-W243.274	ID-RFO-440T	GLASS:CH-CERT-REPACK	440	118	118	CH
IN-W243	IN-W243.275	ID-RFO-440T	GLASS:CH-UNCERT				CH
IN-W243	IN-W243.276	ID-RFO-440T	GLASS:RH-CERT-REPACK	440	118	118	RH
IN-W243	IN-W243.277	ID-RFO-440T	GLASS:RH-UNCERT				RH
IN-W243	IN-W243.808	ID-RFO-440T	GLASS:DIRECT SHIP	440	118	118	CH
IN-W245	IN-W245.1034	ID-RFO-441T	UNLEACHED RASHIG RINGS:CH-UNCERT				CH
IN-W245	IN-W245.1035	ID-RFO-441T	UNLEACHED RASHIG RINGS:RH-CERT-REPACK	441		225	RH
IN-W245	IN-W245.301	ID-RFO-441T	UNLEACHED RASHIG RINGS:DIRECT SHIP	441		225	CH
IN-W245	IN-W245.302	ID-RFO-441T	UNLEACHED RASHIG RINGS:CH-CERT-REPACK	441		225	CH
IN-W247	IN-W247.1038	ID-RFO-442T	LEACHED RASHIG RINGS:CH-UNCERT				CH
IN-W247	IN-W247.523	ID-RFO-442T	LEACHED RASHIG RINGS:CH-CERT-REPACK	442	118	118, 218	CH
IN-W247	IN-W247.524	ID-RFO-442T	LEACHED RASHIG RINGS:RH-CERT-REPACK	442	118	118, 218	RH
IN-W247	IN-W247.810	ID-RFO-442T	LEACHED RASHIG RINGS:DIRECT SHIP	442	118	118, 218	CH
IN-W249	IN-W249.1071	ID-MDO-810T	GLASS, FLASKS, SAMPLE VIALS, ETC.:CERT-REPACK	810			CH
IN-W249	IN-W249.527	ID-MDO-810T	GLASS, FLASKS, SAMPLE VIALS, ETC.:DIRECT SHIP	810			CH
IN-W249	IN-W249.528	ID-MDO-810T	GLASS, FLASKS, SAMPLE VIALS, ETC.:HG				CH
IN-W250	IN-W250.259	ID-RFO-123T	LEADED RUBBER:DIRECT SHIP	123		123	CH
IN-W250	IN-W250.941	ID-RFO-123T	LEADED RUBBER:CERT-REPACK	123		123	CH
IN-W252	IN-W252.1000	ID-RFO-339T	LEADED RUBBER GLOVES AND APRONS:CH-UNCERT				CH
IN-W252	IN-W252.282	ID-RFO-339T	LEADED RUBBER GLOVES AND APRONS:RH-CERT-REPACK	339	123	123, 223	RH
IN-W252	IN-W252.283	ID-RFO-339T	LEADED RUBBER GLOVES AND APRONS:CH-CERT-REPACK	339	123	123, 223	CH
IN-W252	IN-W252.811	ID-RFO-339T	LEADED RUBBER GLOVES AND APRONS:CH-CERT	339	123	123, 223	CH
IN-W254	IN-W254.1044	ID-RFO-463T	LEADED RUBBER GLOVES AND APRONS:CH-UNCERT				CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
IN-W254	IN-W254.1045	ID-RFO-463T	LEADED RUBBER GLOVES AND APRONS:RH-CERT-REPACK	463		223	RH
IN-W254	IN-W254.289	ID-RFO-463T	LEADED RUBBER GLOVES AND APRONS:DIRECT SHIP	463		223	CH
IN-W254	IN-W254.290	ID-RFO-463T	LEADED RUBBER GLOVES AND APRONS:CH-CERT-REPACK	463		223	CH
IN-W256	IN-W256.1062	ID-MDO-802T	DRY BOX GLOVES AND O-RINGS:CERT-REPACK	802			CH
IN-W256	IN-W256.295	ID-MDO-802T	DRY BOX GLOVES AND O-RINGS:DIRECT SHIP	802			CH
IN-W257	IN-W257.558	ID-CPP-151T	SOLIDIFIED FUEL SLUDGE:UNCERTIFIABLE				CH
IN-W257	IN-W257.947	ID-CPP-151T	SOLIDIFIED FUEL SLUDGE:DIRECT SHIP	151			CH
IN-W259	IN-W259.552	ID-AEO-104T	ALPHA HOT CELL WASTE:DIRECT SHIP	104			CH
IN-W259	IN-W259.920	ID-AEO-104T	ALPHA HOT CELL WASTE:CH-UNCERTIFIABLE				CH
IN-W259	IN-W259.921	ID-AEO-104T	ALPHA HOT CELL WASTE:RH-UNCERTIFIABLE				RH
IN-W260	IN-W260.565	ID-BTO-040T	SOLID BINARY SCRAP POWDER, ETC.:CH-UNCERTIFIABLE				CH
IN-W260	IN-W260.566	ID-BTO-040T	SOLID BINARY SCRAP POWDER: RH-DIRECT SHIP	40			CH
IN-W260	IN-W260.567	ID-BTO-040T	SOLID BINARY SCRAP POWDER, ETC.:RH-UNCERTIFIABLE				RH
IN-W260	IN-W260.568	ID-BTO-040T	SOLID BINARY SCRAP POWDER, ETC.:RH-CERT-REPACK	40			RH
IN-W260	IN-W260.916	ID-BTO-040T	SOLID BINARY SCRAP POWDER, ETC.:CH-CERT-REPACK	40			CH
IN-W263	IN-W263.520	ID-MDO-842T	CONTAMINATED SOIL				CH
IN-W265	IN-W265.516	ID-RFO-374T	BLACKTOP, CONCRETE, DIRT, AND SAND:DIRECT SHIP	374	121	121	CH
IN-W265	IN-W265.517	ID-RFO-374T	BLACKTOP, CONCRETE, DIRT, AND SAND:UNCERTIFIABLE				CH
IN-W267	IN-W267.1005	ID-RFO-372TN	GRIT:DIRECT SHIP	372			CH
IN-W267	IN-W267.514	ID-RFO-372TN	GRIT:UNCERTIFIABLE				CH
IN-W269	IN-W269.510	ID-INL-150T	LABORATORY WASTE:DIRECT SHIP	150			CH
IN-W269	IN-W269.535	ID-INL-150T	LABORATORY WASTE:CERT-REPACK	150			CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
IN-W271	IN-W271.532	ID-MDO-814T	CONTAMINATED MERCURY OR GRAPHITE CRUCIBL:DIRECT SHIP	814			CH
IN-W271	IN-W271.533	ID-MDO-814T	CONTAMINATED MERCURY OR GRAPHITE CRUCIBL:MERCURY				CH
IN-W272	IN-W272.504	ID-RFO-312T	COARSE GRAPHITE:DIRECT SHIP	312			CH
IN-W272	IN-W272.974	ID-RFO-312T	COARSE GRAPHITE:CERT-REPACK	312			CH
IN-W275	IN-W275.502	ID-RFO-301T	GRAPHITE CORES:DIRECT SHIP	301			CH
IN-W275	IN-W275.967	ID-RFO-301T	GRAPHITE CORES:CERT-REPACK	301			CH
IN-W276	IN-W276.500	ID-RFO-300T	GRAPHITE:DIRECT SHIP	300	115	115, 215	CH
IN-W276	IN-W276.966	ID-RFO-300T	GRAPHITE:CERT-REPACK	300	115	115, 215	CH
IN-W278	IN-W278.1090	ID-RFO-950T	LOW SPECIFIC ACTIVITY METAL, GLASS, ETC.:DIRECT SHIP	950			CH
IN-W278	IN-W278.495	ID-RFO-950T	LOW SPECIFIC ACTIVITY METAL, GLASS, ETC.:UNCERTIFIABLE				CH
IN-W280	IN-W280.1066	ID-MDO-803T	METAL, EQUIPMENT, PIPES, VALVES, ETC.:CERT-REPACK	803			CH
IN-W280	IN-W280.448	ID-MDO-803T	METAL, EQUIPMENT, PIPES, VALVES, ETC.:DIRECT SHIP	803			CH
IN-W280	IN-W280.449	ID-MDO-803T	METAL, EQUIPMENT, PIPES, VALVES, ETC.:MERCURY				CH
IN-W281	IN-W281.487	ID-MDO-824T	NONCOMBUSTIBLE EQUIPMENT BOXES:CERT-REPACK	824			CH
IN-W281	IN-W281.488	ID-MDO-824T	NONCOMBUSTIBLE EQUIPMENT BOXES:UNCERTIFIABLE				CH
IN-W283	IN-W283.481	ID-RFO-241T	AMERICIUM PROCESS RESIDUE:CH-CERT-REPACK	241		225	CH
IN-W283	IN-W283.534	ID-RFO-241T	AMERICIUM PROCESS RESIDUE:DIRECT SHIP	241		225	CH
IN-W283	IN-W283.963	ID-RFO-241T	AMERICIUM PROCESS RESIDUE:CH-UNCERTIFIABLE				CH
IN-W283	IN-W283.964	ID-RFO-241T	AMERICIUM PROCESS RESIDUE:RH-CERT-REPACK	241		225	RH
IN-W285	IN-W285.471	ID-BCO-201T	NONCOMBUSTIBLE SOLIDS:CERT-REPACK	201			CH
IN-W285	IN-W285.815	ID-BCO-201T	NONCOMBUSTIBLE SOLIDS:DIRECT SHIP	201			CH
IN-W287	IN-W287.460	ID-AEO-101T	CUT UP GLOVEBOXES	101			CH
IN-W289	IN-W289.466	ID-OFS-121T	DECONTAMINATION AND DECOMMISSIONING WAST	121		121	CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
IN-W291	IN-W291.454	ID-AEO-100T	GENERAL PLANT WASTE:DIRECT SHIP	100			CH
IN-W291	IN-W291.455	ID-AEO-100T	GENERAL PLANT WASTE:UNCERT-COMB				CH
IN-W291	IN-W291.456	ID-AEO-100T	GENERAL PLANT WASTE:CERT-REPACK	100			CH
IN-W294	IN-W294.1057	ID-RFO-481T	LEACHED NONSPECIAL SOURCE METAL:CH-UNCERT				CH
IN-W294	IN-W294.342	ID-RFO-481T	LEACHED NONSPECIAL SOURCE METAL:CH-CERT-REPACK	481		217	CH
IN-W294	IN-W294.343	ID-RFO-481T	LEACHED NONSPECIAL SOURCE METAL:RH-CERT-REPACK	481		217	RH
IN-W294	IN-W294.814	ID-RFO-481T	LEACHED NONSPECIAL SOURCE METAL:DIRECT SHIP	481		217	CH
IN-W296	IN-W296.327	ID-RFO-480T	NONSPECIAL SOURCE METAL:CH-CERT-REPACK	480	117	117. 217	CH
IN-W296	IN-W296.329	ID-RFO-480T	NONSPECIAL SOURCE METAL:CH-UNCERT				CH
IN-W296	IN-W296.330	ID-RFO-480T	NONSPECIAL SOURCE METAL:RH-CERT-REPACK	480	117	117, 217	RH
IN-W296	IN-W296.331	ID-RFO-480T	NONSPECIAL SOURCE METAL:RH-UNCERT				RH
IN-W296	IN-W296.813	ID-RFO-480T	NONSPECIAL SOURCE METAL:DIRECT SHIP	480	117	117, 217	CH
IN-W298	IN-W298.317	ID-RFO-320T	TANTALUM:CH-CERT-REPACK	320	117	117, 217	CH
IN-W298	IN-W298.318	ID-RFO-320T	TANTALUM:RH-CERT-REPACK	320	117	117, 217	RH
IN-W298	IN-W298.812	ID-RFO-320T	TANTALUM:DIRECT SHIP	320	117	117, 217	CH
IN-W298	IN-W298.979	ID-RFO-320T	TANTALUM:CH-UNCERT				CH
IN-W300	IN-W300.308	ID-RFO-117T	METAL WASTE:CERT-REPACK	117		117	CH
IN-W300	IN-W300.930	ID-RFO-117T	METAL WASTE:DIRECT SHIP	117		117	CH
IN-W302	IN-W302.299	ID-BTO-020T	NONCOMPRESSIBLE, NONCOMBUSTIBLE:DIRECT SHIP	20			CH
IN-W302	IN-W302.913	ID-BTO-020T	NONCOMPRESSIBLE, NONCOMBUSTIBLE:CERT-REPACK	20			CH
IN-W304	IN-W304.860	ID-MDO-825TN	NONCOMBUSTIBLE EQUIPMENT DRUMS:DIRECT SHIP	825			CH
IN-W304	IN-W304.861	ID-MDO-825TN	NONCOMBUSTIBLE EQUIPMENT DRUMS:CERT-REPACK	825			CH
IN-W305	IN-W305.1068	ID-MDO-804TN	PLASTIC, TYGON, MANIPULATOR BOOTS, ETC.:CERT-REPACK	804			CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
IN-W305	IN-W305.828	ID-MDO-804TN	PLASTIC, TYGON, MANIPULATOR BOOTS, ETC.:DIRECT SHIP	804			CH
IN-W306	IN-W306.632	ID-RFO-9999T	PRE-73 DRUMS:CH-UNCERT				CH
IN-W306	IN-W306.633	ID-RFO-9999T	PRE-73 DRUMS:CH-CERT-REPACK	9999			CH
IN-W306	IN-W306.634	ID-RFO-9999T	PRE-73 DRUMS:RH-UNCERT				RH
IN-W306	IN-W306.635	ID-RFO-9999T	PRE-73 DRUMS:RH-CERT-REPACK	9999			RH
IN-W306	IN-W306.817	ID-RFO-9999T	PRE-73 DRUMS:DIRECT SHIP	9999			CH
IN-W308	IN-W308.618	ID-RFO-000T	NOT RECORDED - UNKNOWN:CH-UNCERTIFIABLE				CH
IN-W308	IN-W308.621	ID-RFO-000T	NOT RECORDED - UNKNOWN:RH-UNCERTIFIABLE				RH
IN-W308	IN-W308.816	ID-RFO-000T	NOT RECORDED - UNKNOWN:DIRECT SHIP	0			CH
IN-W309	IN-W309.609	ID-RFO-003T	ORGANIC SETUPS, OIL SOLIDS:UNCERT				CH
IN-W309	IN-W309.610	ID-RFO-003T	ORGANIC SETUPS, OIL SOLIDS:CERT-REPACK	3		212	CH
IN-W311	IN-W311.1013	ID-RFO-409T	MOLTEN SALTS - 30% UNPULVERIZED:CERT-REPACK	409			CH
IN-W311	IN-W311.604	ID-RFO-409T	MOLTEN SALTS - 30% UNPULVERIZED:DIRECT SHIP	409			CH
IN-W312	IN-W312.602	ID-RFO-124TN	CERTIFIED TRU PYROCHEMICAL SALT WASTE:DIRECT SHIP	124		124	CH
IN-W312	IN-W312.942	ID-RFO-124TN	CERTIFIED TRU PYROCHEMICAL SALT WASTE:CERT-REPACK	124		124	CH
IN-W314	IN-W314.1017	ID-RFO-414T	DIRECT OXIDE REDUCTION SALT:CERT-REPACK	414			CH
IN-W314	IN-W314.606	ID-RFO-414T	DIRECT OXIDE REDUCTION SALT:DIRECT SHIP	414			CH
IN-W315	IN-W315.601	ID-RFO-005T	EVAPORATOR SALTS				CH
IN-W317	IN-W317.1028	ID-RFO-432T	LEACHED AND CEMENTED RESIN:CH-UNCERT				CH
IN-W317	IN-W317.1029	ID-RFO-432T	LEACHED AND CEMENTED RESIN:RH-CERT-REPACK	432		226	RH
IN-W317	IN-W317.757	ID-RFO-432T	LEACHED AND CEMENTED RESIN:CH-CERT-REPACK	432		226	CH
IN-W317	IN-W317.758	ID-RFO-432T	LEACHED AND CEMENTED RESIN:DIRECT SHIP	432		226	CH
IN-W319	IN-W319.583	ID-RFO-431T	LEACHED RESIN:UNCERTIFIABLE				CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
IN-W319	IN-W319.584	ID-RFO-431T	LEACHED RESIN:DIRECT SHIP	431			CH
IN-W321	IN-W321.1023	ID-RFO-430T	UNLEACHED ION COLUMN RESIN:DIRECT SHIP	430			CH
IN-W321	IN-W321.578	ID-RFO-430T	UNLEACHED ION COLUMN RESIN:UNCERTIFIABLE				CH
IN-W322	IN-W322.851	ID-TRA-154TN	SAMPLE FUEL:DIRECT SHIP	154			CH
IN-W322	IN-W322.952	ID-TRA-154TN	SAMPLE FUEL:CERT-REPACK	154			CH
IN-W323	IN-W323.562	ID-INL-153TN	COMBUSTIBLE LAB WASTE:DIRECT SHIP	153			CH
IN-W323	IN-W323.951	ID-INL-153TN	COMBUSTIBLE LAB WASTE:UNCERTIFIABLE				CH
IN-W325	IN-W325.1076	ID-MDO-815T	CLASSIFIED PARTS:CERT-REPACK	815			CH
IN-W325	IN-W325.679	ID-MDO-815T	CLASSIFIED PARTS:DIRECT SHIP	815			CH
IN-W327	IN-W327.1085	ID-MDO-847T	LOW SPECIFIC ACTIVITY (< 100 NCI/G) COMB:CERT-REPACK	847			CH
IN-W327	IN-W327.735	ID-MDO-847T	LOW SPECIFIC ACTIVITY (< 100 NCI/G) COMB:DIRECT SHIP	847			CH
IN-W329	IN-W329.681	ID-MDO-848T	LOW SPECIFIC ACTIVITY (< 100 NCI/G) NONC:DIRECT SHIP	848			CH
IN-W329	IN-W329.682	ID-MDO-848T	LOW SPECIFIC ACTIVITY (< 100 NCI/G) NONC:UNCERTIFIABLE				CH
IN-W330	IN-W330.677	ID-MDO-801T	RAGS, PAPER, WOOD, ETC.:CERT-REPACK	801			CH
IN-W330	IN-W330.678	ID-MDO-801T	RAGS, PAPER, WOOD, ETC.:DIRECT SHIP	801			CH
IN-W332	IN-W332.661	ID-BCO-204T	SOLIDIFIED SOLUTIONS:DIRECT SHIP	204			CH
IN-W332	IN-W332.962	ID-BCO-204T	SOLIDIFIED SOLUTIONS:CERT-REPACK	204			CH
IN-W334	IN-W334.675	ID-BCO-203T	PAPER, METALS, GLASS:DIRECT SHIP	203			CH
IN-W334	IN-W334.961	ID-BCO-203T	PAPER, METALS, GLASS:CERT-REPACK	203			CH
IN-W336	IN-W336.660	ID-BCO-202T	COMBUSTIBLE SOLIDS:CERT-REPACK	202			CH
IN-W336	IN-W336.820	ID-BCO-202T	COMBUSTIBLE SOLIDS:DIRECT SHIP	202			CH
IN-W337	IN-W337.673	ID-TAN-200T	AMERICIUM SOURCES:CERT-REPACK	200			CH
IN-W337	IN-W337.957	ID-TAN-200T	AMERICIUM SOURCES:DIRECT SHIP	200			CH
IN-W338	IN-W338.657	ID-ANL-163T	ANL-W ACL COLD-LINE ABSORBED LIQUID, MIS:DIRECT SHIP	163			CH
IN-W338	IN-W338.956	ID-ANL-163T	ANL-W ACL COLD-LINE ABSORBED LIQUID, MIS:CERT-REPACK	163			CH
IN-W339	IN-W339.655	ID-ANL-162T	ANL-W FMF EFL ZR-U FUEL CASTING ALLOYS R:DIRECT SHIP	162			CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
IN-W339	IN-W339.955	ID-ANL-162T	ANL-W FMF EFL ZR-U FUEL CASTING ALLOYS R:CERT-REPACK	162			CH
IN-W341	IN-W341.671	ID-ANL-160T	ANL-W HFEF ANALYTICAL CHEMISTRY AND META:CERT-REPACK	160			CH
IN-W341	IN-W341.954	ID-ANL-160T	ANL-W HFEF ANALYTICAL CHEMISTRY AND META:DIRECT SHIP	160			CH
IN-W342	IN-W342.652	ID-INL-157T	MISCELLANEOUS SOURCES:DIRECT SHIP	157			CH
IN-W342	IN-W342.953	ID-INL-157T	MISCELLANEOUS SOURCES:CERT-REPACK	157			CH
IN-W345	IN-W345.669	ID-INL-155T	SCRAP:CERT-REPACK	155			CH
IN-W345	IN-W345.819	ID-INL-155T	SCRAP:DIRECT SHIP	155			CH
IN-W347	IN-W347.646	ID-AEO-102T	ABSORBED LIQUIDS:CERT-REPACK	102			CH
IN-W347	IN-W347.818	ID-AEO-102T	ABSORBED LIQUIDS:DIRECT SHIP	102			CH
IN-W348	IN-W348.1012	ID-RFO-393TN	SAND, SLAG, AND CRUCIBLE HEELS:DIRECT SHIP	393			CH
IN-W348	IN-W348.846	ID-RFO-393TN	SAND, SLAG, AND CRUCIBLE HEELS:UNCERTIFIABLE				CH
IN-W349	IN-W349.667	ID-AEO-107T	REMOTE-HANDLED WASTE:RH-UNCERTIFIABLE				RH
IN-W349	IN-W349.924	ID-AEO-107T	REMOTE-HANDLED WASTE:RH-CERTIFIABLE	107			RH
IN-W350	IN-W350.650	ID-AEO-106T	SPECIAL SOURCE MATERIAL:DIRECT SHIP	106			CH
IN-W350	IN-W350.923	ID-AEO-106T	SPECIAL SOURCE MATERIAL: CERT-REPACK	106			CH
IN-W351	IN-W351.648	ID-AEO-105T	EMPTY BOTTLES:DIRECT SHIP	105			CH
IN-W351	IN-W351.922	ID-AEO-105T	EMPTY BOTTLES: CERT-REPACK	105			CH
IN-W353	IN-W353.859	ID-BTO-050TN	SOLIDIFIED SOLUTIONS:DIRECT SHIP	50			CH
IN-W353	IN-W353.917	ID-BTO-050TN	SOLIDIFIED SOLUTIONS:CERT-REPACK	50			CH
IN-W354	IN-W354.1016	ID-RFO-412TN	GIBSON SALTS:CERT-REPACK	412		224	CH
IN-W354	IN-W354.858	ID-RFO-412TN	GIBSON SALTS:DIRECT SHIP	412		224	CH
IN-W355	IN-W355.1015	ID-RFO-411TN	ELECTROREFINING SALT:CERT-REPACK	411	124	124, 224	CH
IN-W355	IN-W355.857	ID-RFO-411TN	ELECTROREFINING SALT:DIRECT SHIP	411	124	124, 224	CH
IN-W356	IN-W356.1014	ID-RFO-410TN	MOLTEN SALTS - 30% PULVERIZED:CERT-REPACK	410		224	CH
IN-W356	IN-W356.856	ID-RFO-410TN	MOLTEN SALTS - 30% PULVERIZED:DIRECT SHIP	410		224	CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
IN-W357	IN-W357.1022	ID-RFO-425TN	FLUID BED ASH:DIRECT SHIP	425			CH
IN-W357	IN-W357.850	ID-RFO-425TN	FLUID BED ASH:UNCERTIFIABLE				CH
IN-W358	IN-W358.854	ID-INL-152TN	PU NEUTRON SOURCES:RH DIRECT SHIP	152			CH
IN-W358	IN-W358.855	ID-INL-152TN	PU NEUTRON SOURCES:CH-CERT-REPACK	152			CH
IN-W358	IN-W358.948	ID-INL-152TN	PU NEUTRON SOURCES:CH-UNCERTIFIABLE				CH
IN-W358	IN-W358.949	ID-INL-152TN	PU NEUTRON SOURCES:RH-CERT-REPACK	152			RH
IN-W359	IN-W359.853	ID-BTO-015TN	NEUTRON SOURCES	15			CH
IN-W360	IN-W360.852	ID-BTO-012TN	MISCELLANEOUS SOURCES:RH DIRECT SHIP	12			CH
IN-W360	IN-W360.912	ID-BTO-012TN	MISCELLANEOUS SOURCES:CERT-REPACK	12			CH
IN-W361	IN-W361.1021	ID-RFO-422TN	SOOT:DIRECT SHIP	422			CH
IN-W361	IN-W361.849	ID-RFO-422TN	SOOT:UNCERTIFIABLE				CH
IN-W362	IN-W362.1020	ID-RFO-421TN	ASH HEELS:DIRECT SHIP	421			CH
IN-W362	IN-W362.848	ID-RFO-421TN	ASH HEELS:UNCERTIFIABLE				CH
IN-W363	IN-W363.1019	ID-RFO-420TN	VIRGIN INCINERATOR ASH:DIRECT SHIP	420			CH
IN-W363	IN-W363.847	ID-RFO-420TN	VIRGIN INCINERATOR ASH:UNCERTIFIABLE				CH
IN-W364	IN-W364.1011	ID-RFO-392TN	SAND, SLAG AND CRUCIBLES:DIRECT SHIP	392			CH
IN-W364	IN-W364.844	ID-RFO-392TN	SAND, SLAG AND CRUCIBLES:CH-UNCERT				CH
IN-W364	IN-W364.845	ID-RFO-392TN	SAND, SLAG AND CRUCIBLES:RH-UNCERT				RH
IN-W365	IN-W365.1010	ID-RFO-391TN	CRUCIBLES AND SAND:DIRECT SHIP	391			CH
IN-W365	IN-W365.842	ID-RFO-391TN	CRUCIBLES AND SAND:CH-UNCERT				CH
IN-W365	IN-W365.843	ID-RFO-391TN	CRUCIBLES AND SAND:RH-UNCERT				RH
IN-W366	IN-W366.1004	ID-RFO-370TN	LECO CRUCIBLES:CERT-REPACK	370		222	CH
IN-W366	IN-W366.841	ID-RFO-370TN	LECO CRUCIBLES:DIRECT SHIP	370		222	CH
IN-W367	IN-W367.840	ID-RFO-311TN	GRAPHITE HEELS:UNCERTIFIABLE				CH
IN-W367	IN-W367.973	ID-RFO-311TN	GRAPHITE HEELS:DIRECT SHIP	311			CH
IN-W368	IN-W368.839	ID-RFO-310TN	GRAPHITE SCARFINGS:UNCERTIFIABLE				CH
IN-W368	IN-W368.971	ID-RFO-310TN	GRAPHITE SCARFINGS:DIRECT SHIP	310			CH
IN-W369	IN-W369.837	ID-RFO-303TN	SCARFED GRAPHITE CHUNKS:DIRECT SHIP	303	115	115	CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
IN-W369	IN-W369.970	ID-RFO-303TN	SCARFED GRAPHITE CHUNKS:CERT-REPACK	303	115	115	CH
IN-W370	IN-W370.836	ID-RFO-115TN	GRAPHITE WASTE:DIRECT SHIP	115		115	CH
IN-W370	IN-W370.929	ID-RFO-115TN	GRAPHITE WASTE:CERT-REPACK	115		115	CH
IN-W371	IN-W371.1018	ID-RFO-416TN	ZINC MAGNESIUM ALLOY METAL:CERT-REPACK	416		217	CH
IN-W371	IN-W371.831	ID-RFO-416TN	ZINC MAGNESIUM ALLOY METAL:DIRECT SHIP	416		217	CH
IN-W372	IN-W372.832	ID-BTO-081TN	MET SAMPLES FISSILE:DIRECT SHIP	81			CH
IN-W372	IN-W372.918	ID-BTO-081TN	MET SAMPLES FISSILE:RH-CERT-REPACK	81			RH
IN-W373	IN-W373.1003	ID-RFO-361TN	INSULATION HEELS:DIRECT SHIP	361			CH
IN-W373	IN-W373.830	ID-RFO-361TN	INSULATION HEELS:UNCERTIFIABLE				CH
IN-W374	IN-W374.1091	ID-RFO-960TN	CONCRETE, ASPHALT, ETC.:UNCERTIFIABLE				CH
IN-W374	IN-W374.829	ID-RFO-960TN	CONCRETE, ASPHALT, ETC.:DIRECT SHIP	960			CH
IN-W375	IN-W375.1096	ID-RFO-995TN	SLUDGE:DIRECT SHIP	995			CH
IN-W375	IN-W375.827	ID-RFO-995TN	SLUDGE:UNCERTIFIABLE				CH
IN-Z001	IN-Z001		INEL BURIED TRU WASTE				U
KA-T001	KA-T001	KA-T001	TRANSURANIC DEBRIS	OR-001	NA		RH
KA-W016	KA-W016	KA-W016	TRANSURANIC DEBRIS	OR-001	NA		RH
LA-W047	LA-M002	LA-M002	CEMENTED PROCESS SLUDGE	002	LA 111A; 211	LA 111A; 211A	CH
LA-W055	LA-T001	LA-T001	MIXED SCRAP METAL	001	LA 125A	LA 125A	CH
LA-W065	LA-T002	LA-T002	CEMENTED PROCESS SLUDGE	002	LA 111A; 211	LA 111A LA 211A	CH
LA-W056	LA-T004	LA-T004	COMBUSTIBLE WASTE	004	LA 116A	LA 116A	CH
LA-W057	LA-T005	LA-T005	NON COMBUSTIBLE WASTE	005	LA 117A; 118	LA 117A; 118A	CH
LA-W058	LA-T006	LA-T006	SOLIDIFIED INORGANIC PROCESS SOLIDS	006	LA 114A; LA 1	LA 114A	CH
LA-W059	LA-T007	LA-T007	HOT-CELL WASTE	007	unknown	Unassigned	CH
LA-W060	LA-T008	LA-T008	SOILS	008	unknown	Unassigned	CH
LA-W061	LA-T009	LA-T009	GLOVEBOX AND DUCTING MATERIAL		unknown	Unassigned	CH
LA-W062	LA-TR04	LA-TR04	COMBUSTIBLE WASTE	004	LA 116A	LA-116A	RH
LA-W063	LA-TR05	LA-TR05	NONCOMBUSTIBLE WASTE		unknown	Unassigned	RH
LA-W064	LA-TR07	LA-TR07	NONCOMBUSTIBLE HOT-CELL WASTE		unknown	Unassigned	RH
LA-W046	LA-W001	LA-M001	MIXED SCRAP METAL	001	LA 125A	LA 125A	CH
LA-W048	LA-W003	LA-M003	SOLIDIFIED AQUEOUS WASTE	003	LA 111B; 211	LA 111B; 211B	CH

Appendix E

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
LA-W049	LA-W004	LA-M004	COMBUSTIBLE WASTE	004	LA 116A	LA 116A	CH
LA-W050	LA-W005	LA-M005	NON COMBUSTIBLE WASTE	005	LA 117A; 118	LA 117A; 118A	CH
LA-W051	LA-W006	LA-M006	SOLIDIFIED INORGANIC PROCESS SOLIDS	006	LA 114A; LA 1	LA 114A	CH
LA-W052	LA-W009	LA-M009	GLOVEBOX AND DUCTING MATERIAL		unknown		CH
LA-W066	LA-W066	LA-M001	METALLIC WASTE	Unknown	N/A	N/A	CH
LA-W067	LA-W067	LA-T004	COMBUSTIBLE DEBRIS	None	None	None	CH
LA-W068	LA-W068	LA-T005	NON COMBUSTIBLE DEBRIS	N/A	N/A	N/A	CH
LA-W053	LA-WR01	LA-MR01	SCRAP METAL	003	LA 117A; 118	LA 125A	RH
LA-W054	LA-WR05	LA-MR05	NON COMBUSTIBLE WASTE	005	unknown	LA 117A; 118A	RH
LA-Z001	LA-Z001		LOS ALAMOS NATIONAL LABORATORY BURIED TRU WASTE				U
LB-T001	LB-T001		LBL - WASTE	UNK	N/A	UNK	CH
LL-W028	LL-M001	Form 1 Mixed	R&D GLOVEBOX WASTE (FORM 1)	001	LL 116	LL 116A	CH
LL-W029	LL-T001	Form 2 Non-mixe	SOLIDIFIED WASTE (FORM 2)	002	LL 111	LL 111A LL 113A	CH
LL-W030	LL-T002	Form 1 Non-mixe	R&D GLOVEBOX WASTE (FORM 1)	001	LL 116	LL 116A	CH
LL-W031	LL-T003	Form 3 Non-mixe	COMBINED METAL SCRAP & INCIDENTAL COMBUST (FORM 3)	003	LL 125	LL 125A	CH
LL-W032	LL-T004	Form 4 Non-mixe	PYROCHEMICAL SALT WASTE (FORM 4)	004	LL 124	LL 124A	CH
LL-W033	LL-T005	Form 5 Non-mixe	HEPA FILTERS (FORM 5)	005		Unassigned	CH
LL-W018	LL-W018	Form 3 Mixed	COMBINED METAL SCRAP & INCIDENTAL COMBUST.(FORM 3)	003	LL 125	LL 125A	CH
LL-W019	LL-W019	Form 2 Mixed	SOLIDIFIED WASTE (FORM 2)	002	LL 111	LL 111A	CH
MC-W001	MC-W001		USAMC TRU WASTE				CH
MD-M001	MD-M001	N/A	ASBESTOS DEBRIS	824			CH
MD-T001	MD-T001	N/A	CEMENT FORMS	836			CH
MD-T003	MD-T003	N/A	CONTAMINATED SOIL	842			CH
MD-T004	MD-T004	N/A	UNCATEGORIZED UNKNOWNS				CH
MD-T005	MD-T005	N/A	CONTAMINATED SOILS WITH DEBRIS	842			CH
MD-T006	MD-T006	N/A	METAL DEBRIS W/O LEAD OR CADMIUM	824			CH
MD-T007	MD-T007	N/A	UNCATEGORIZED METAL DEBRIS				CH
MD-T008	MD-T008	N/A	UNCATEGORIZED PLASTICS/RUBBER DEBRIS	827			CH
MD-T009	MD-T009	N/A	UNKNOWN/OTHER ORGANIC DEBRIS	827			CH
MD-T010	MD-T010	N/A	COMPOSITE FILTERS	824			CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
MD-T012	MD-T012	N/A	UNCATEGORIZED HETEROGENEOUS DEBRIS				CH
MD-W002	MD-W002	N/A	ABSORBED AQUEOUS LIQUIDS				CH
MD-W003	MD-W003	N/A	LEADED GLOVES/APRONS	827			CH
MD-W017	MD-W017	N/A	PAPER/CLOTH DEBRIS	827			CH
MD-W018	MD-W018	N/A	PCB TRU WASTE				CH
MU-W002	MU-W002		HETEROGENEOUS DEBRIS	OR-001	NA	Unassigned	CH
NT-W001	NT-W001	None	HETEROGENEOUS DEBRIS, UNCATEGORIZED	001	NT 111A;116A	NT 111A; 116A; 21	CH
NT-W001	NT-W001	None	HETEROGENEOUS DEBRIS, UNCATEGORIZED	292	NT 111A;116A	NT 111A; 116A; 21	CH
NT-W001	NT-W001	None	HETEROGENEOUS DEBRIS, UNCATEGORIZED	002	NT 111A;116A	NT 111A; 116A; 21	CH
NT-W001	NT-W001	None	HETEROGENEOUS DEBRIS, UNCATEGORIZED	993	NT 111A;116A	NT 111A; 116A; 21	CH
NT-W001	NT-W001	None	HETEROGENEOUS DEBRIS, UNCATEGORIZED	330	NT 111A;116A	NT 111A; 116A; 21	CH
NT-W001	NT-W001	None	HETEROGENEOUS DEBRIS, UNCATEGORIZED	961	NT 111A;116A	NT 111A; 116A; 21	CH
NT-W021	NT-W021		V3XA SPHERES	Unknown	Unknown	None	CH
OR-W040	OR-W040	2308	RH-TRU HETEROGENEOUS DEBRIS	OR-001		Unassigned	RH
OR-W086	OR-W041	T2301	CH-TRU HETEROGENEOUS DEBRIS (NONDEFENSE, NONMIXED)	OR-001		Unassigned	CH
OR-W042	OR-W042	2311	RH-TRU SLUDGE (INACTIVE TANK)	OR-001		Unassigned	RH
OR-W087	OR-W043	B2301	RH-TRU HETEROGENEOUS DEBRIS (BURIED)	OR-001		Unassigned	RH
OR-W044	OR-W044	2305	CH-TRU HETEROGENEOUS DEBRIS	OR-001	OR 125A; 125	OR 125A; 125B	CH
OR-W045	OR-W045	2307	CH-TRU UNCATEGORIZED	OR-001		Unassigned	CH
OR-W046	OR-W046	2313	RH-TRU SLUDGE (ACTIVE TANK)	OR-001		Unassigned	RH
OR-W047	OR-W047	2306	CH-TRU HETEROGENEOUS DEBRIS (WITH LIQUIDS)	OR-001		Unassigned	CH
OR-W088	OR-W048	B2302	CH-TRU HETEROGENEOUS DEBRIS (BURIED)	OR-001		Unassigned	CH
OR-W089	OR-W049	T2303	CH-TRU UNCATEGORIZED (NONMIXED)	OR-001		Unassigned	CH
OR-W090	OR-W050	T2305	RH-TRU UNCATEGORIZED (NONMIXED)	OR-001		Unassigned	RH
OR-W091	OR-W051	2315	CH-TRU HETEROGENEOUS DEBRIS (NONDEFENSE)	OR-001		Unassigned	CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
OR-W092	OR-W052	T2302	CH-TRU UNCATEGORIZED (NONDEFENSE, NONMIXED)	OR-001		Unassigned	CH
OR-W093	OR-W053	T2304	CH-TRU HETEROGENEOUS DEBRIS (NONMIXED)	OR-001		Unassigned	CH
OR-W094	OR-W054	T2306	RH-TRU HETEROGENEOUS DEBRIS (NONMIXED)	OR-001		Unassigned	RH
OR-Z001	OR-Z001		OAK RIDGE NATIONAL LABORATORY BURIED TRU WASTE				U
PA-A015	PA-A015	PA-A015	TRANSURANIC - SOLID				CH
PA-B015	PA-B015	PA-B015	TRANSURANIC AND TECHNETIUM WASTES - LIQUID				CH
PA-W014	PA-W014	PA-W014	TRANSURANIC WASTE LIQUID				CH
PX-T001	PX-T001	N/A	PANTEX		N/A	Unassigned	CH
RF-W063	RF-MR-0070	None	MISCELLANEOUS LIQUIDS/TRM	RF-806			CH
RF-W063	RF-MR-0200	None	MISCELLANEOUS LIQUIDS/TRM	RF-800			CH
RF-W068	RF-MR-0292	None	PARTICULATE SLUDGE/TRM	RF-806			CH
RF-W068	RF-MR-0299	None	PARTICULATE SLUDGE/TRM	RF-806			CH
RF-W066	RF-MR-0331	None	FILTERS & MEDIA/TRM	RF-376			CH
RF-W065	RF-MR-0333	IDC 333	CALCIUM METAL/TRM	Future			CH
RF-W067	RF-MR-0338	None	CEMENTED FILTERS/TRM	RF-376			CH
RF-W066	RF-MR-0342	None	FILTERS & MEDIA/TRM	RF-335			CH
RF-W058	RF-MR-0365	None	MISC. PU RECOVERY BYPRODUCTS/TRM	Future		Unassigned	CH
RF-W067	RF-MR-0376	None	CEMENTED FILTERS/TRM	RF-376	RF 119	RF 119	CH
RF-W059	RF-MR-0387	None	SAND, SLAG, AND CRUCIBLE/TRM	RF-806		Unassigned	CH
RF-W059	RF-MR-0390	None	SAND, SLAG AND CRUCIBLE/TRU	RF-806			CH
RF-W059	RF-MR-0391	None	SAND, SLAG AND CRUCIBLE/TRM	RF-806			CH
RF-W059	RF-MR-0392	None	SAND, SLAG AND CRUCIBLE/TRM	RF-806			CH
RF-W059	RF-MR-0393	None	SAND, SLAG AND CRUCIBLE/TRM	RF-806			CH
RF-W059	RF-MR-0395	None	SAND, SLAG AND CRUCIBLE/TRM	RF-806			CH
RF-W063	RF-MR-0400	None	MISCELLANEOUS LIQUIDS/TRM	RF-806			CH
RF-W063	RF-MR-0401	None	MISCELLANEOUS LIQUIDS/TRM	RF-806			CH
RF-W058	RF-MR-0409	None	MISC PU RECOVERY BYPRODUCT/TRM	Future			CH
RF-W058	RF-MR-0411	None	MISC PU RECOVERY BYPRODUCT/TRM	Future			CH
RF-W058	RF-MR-0413	None	MISC PU RECOVERY BYPRODUCT/TRM	Future			CH
RF-W058	RF-MR-0414	None	MISC PU RECOVERY BYPRODUCT/TRM	Future			CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
RF-W058	RF-MR-0434	None	MISC PU RECOVERY BYPRODUCT/TRM	Future			CH
RF-W063	RF-MR-0500	None	MISCELLANEOUS LIQUIDS/TRM	RF-806			CH
RF-W063	RF-MR-0503	None	MISCELLANEOUS LIQUIDS/TRM	RF-802			CH
RF-W063	RF-MR-0508	None	MISCELLANEOUS LIQUIDS/TRM	RF-806			CH
RF-W063	RF-MR-0527	None	MISCELLANEOUS LIQUIDS/TRM	RF-802			CH
RF-W063	RF-MR-0541	None	MISCELLANEOUS LIQUIDS/TRM	RF-802			CH
RF-W063	RF-MR-X200	None	MISCELLANEOUS LIQUIDS/TRM	RF-800			CH
RF-W076	RF-MR0089	None	PROCESS RESIDUES/TRM	RF-806		Unassigned	CH
RF-W076	RF-MR0090	None	PROCESS RESIDUES/TRM	RF-806			CH
RF-W076	RF-MR0091	None	PROCESS RESIDUES/TRM	RF-806			CH
RF-W076	RF-MR0092	None	PROCESS RESIDUES/TRM	RF-806			CH
RF-W076	RF-MR0097	None	PROCESS RESIDUES/TRM	RF-806			CH
RF-W076	RF-MR0099	None	PROCESS RESIDUES/TRM	RF-806			CH
RF-W076	RF-MR0290	None	PROCESS RESIDUES/TRM	RF-806			CH
RF-W037	RF-MR0320	IDC 320	HEAVY METAL (NON-SS)/TRM	RF-320	RF 117	RF 117	CH
RF-W028	RF-MR0321	IDC 321	LEAD/TRM	RF-321			CH
RF-W012	RF-MR0330	None	COMBUSTIBLES, DRY/REM	RF-831	None	None	CH
RF-W076	RF-MR0332	None	PROCESS RESIDUES/TRM	RF-806			CH
RF-W012	RF-MR0336	None	COMBUSTIBLES/TRM	RF-832	None	None	CH
RF-W012	RF-MR0337	None	COMBUSTIBLES/TRM	RF-833	None	None	CH
RF-W029	RF-MR0339	IDC 339	LEADED DRY BOX GLOVES/REM	RF-339	RF 123	RF 123	CH
RF-W076	RF-MR0340	None	PROCESS RESIDUES/TRM	RF-806			CH
RF-W041	RF-MR0341	IDC 341	LEADED GLOVES-ACID CONTAMINATED/TRM	RF-339			CH
RF-W036	RF-MR0371	IDC 377,378,373,	FIREBRICK, /REM			RF-377	CH
RF-W036	RF-MR0373	IDC 377,378,373,	FIREBRICK HEEL/REM	RF-377			CH
RF-W008	RF-MR0374	IDC 374	SOIL & CLEANUP DEBRIS/REM	RF-374			CH
RF-W036	RF-MR0377	IDC 377,378,373,	FIREBRICK COARSE/REM	RF-377			CH
RF-W036	RF-MR0378	IDC 377,378,373,	FIREBRICK, PULVERIZED OR FINES/REM	RF-806			CH
RF-W040	RF-MR0419	None	INCINERATOR ASH/TRM	RF-806			CH
RF-W040	RF-MR0420	None	INCINERATOR ASH/TRM	RF-806			CH
RF-W040	RF-MR0421	None	INCINERATOR ASH/TRM	RF-806			CH
RF-W076	RF-MR0422	None	PROCESS RESIDUES/TRM	RF-806			CH
RF-W076	RF-MR0423	None	PROCESS RESIDUES/TRM	RF-806			CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
RF-W040	RF-MR0428	None	INCINERATOR ASH/TRM	RF-806			CH
RF-W091	RF-MR0533	0533, 0535, N/A	ORGANICS DISCARD LEVEL/TRM	RF-801			CH
RF-W091	RF-MR0535	0533, 0535, N/A	ORGANICS DISCARD LEVEL/TRM	RF-801			CH
RF-W068	RF-MT-0292	None	PARTICULATE SLUDGE/TRM	RF-806			CH
RF-W068	RF-MT-0299	None	PARTICULATE SLUDGE/TRM	RF-806			CH
RF-W066	RF-MT-0328	None	FILTERS & MEDIA/TRM	RF-376			CH
RF-W066	RF-MT-0331	None	FILTERS & MEDIA/TRM	RF-376			CH
RF-W066	RF-MT-0335	None	FILTERS & MEDIA/TRM	RF-335	RF 119	RF 119	CH
RF-W067	RF-MT-0338	None	CEMENTED FILTERS/TRM	RF-376	RF 119	RF 119	CH
RF-W066	RF-MT-0342	None	FILTERS & MEDIA/TRM	RF-335			CH
RF-W056	RF-MT-0368	None	MG OXIDE CRUCIBLES/TRM	RF-368	RF 118	RF 118	CH
RF-W068	RF-MT-0372	None	PARTICULATE SLUDGE/TRM	RF-806			CH
RF-W059	RF-MT-0391	None	SAND, SLAG AND CRUCIBLE/TRM	RF-806.2			CH
RF-W059	RF-MT-0392	None	SAND, SLAG AND CRUCIBLE/TRM	RF-806			CH
RF-W059	RF-MT-0393	None	SAND, SLAG AND CRUCIBLE/TRM	RF-806			CH
RF-W063	RF-MT-0400	None	MISCELLANEOUS LIQUIDS/TRM	RF-802			CH
RF-W058	RF-MT-0409	None	MISC PU RECOVERY BYPRODUCT/TRM	Future			CH
RF-W058	RF-MT-0411	None	MISC PU RECOVERY BYPRODUCT/TRM	Future			CH
RF-W058	RF-MT-0412	None	MISC PU RECOVERY BYPRODUCT/TRM	Future			CH
RF-W058	RF-MT-0414	None	MISC PU RECOVERY BYPRODUCT/TRM	Future			CH
RF-W057	RF-MT-0438	IDC 438	INSULATION/TRM	RF-438	RF 122	RF 122	CH
RF-W066	RF-MT-0491	None	FILTERS & MEDIA/TRM	RF-491	RF 119	RF 119	CH
RF-W066	RF-MT-0492	None	FILTERS & MEDIA/TRM	RF-490			CH
RF-W063	RF-MT-0541	None	MISCELLANEOUS LIQUIDS/TRM	RF-802			CH
RF-W068	RF-MT-0823	None	PARTICULATE SLUDGE/TRM	RF-823			CH
RF-W010	RF-MT0001	None	AQUEOUS SLUDGE/TRM	RF-0001	None	None	CH
RF-W013	RF-MT0003	IDC 801	SOLIDIFIED ORGANICS/TRM	RF-801		Unassigned	CH
RF-W010	RF-MT0007	None	BYPASS SLUDGE BLDG 374/TRM	RF-0007	None	None	CH
RF-W037	RF-MT0320	IDC 320	HEAVY METAL (NON-SS)/TRM	RF-320	RF 117	RF 117	CH
RF-W028	RF-MT0321	IDC 321	LEAD/TRM	RF-321	RF 117	RF 117	CH
RF-W012	RF-MT0330	None	COMBUSTIBLES, DRY/TRM	RF-831	None	None	CH
RF-W012	RF-MT0336	None	COMBUSTIBLES/TRM	RF832	None	None	CH
RF-W012	RF-MT0337	None	COMBUSTIBLES/TRM	RF-833	None	None	CH
RF-W029	RF-MT0339	IDC 339	LEADED DRY BOX GLOVES/TRM	RF-339	RF 123	RF 123	CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
RF-W041	RF-MT0341	IDC 341	LEADED GLOVES-ACID CONTAMINATED/TRM	RF-339			CH
RF-W008	RF-MT0374	IDC 374	SOIL & CLEANUP DEBRIS/TRM	RF-374	RF 121	RF 121	CH
RF-W026	RF-MT0375	IDC 375	USED ABSORBENTS/TRM	RF-375	RF 122	RF 122	CH
RF-W036	RF-MT0377	IDC 377,378,373,	FIREBRICK, COARSE/TRM	RF-377	RF 122	RF 122	CH
RF-W036	RF-MT0378	IDC 377,378,373,	FIREBRICK, PULVERIZED OR FINES/TRM	RF-806			CH
RF-W040	RF-MT0420	None	INCINERATOR ASH/TRM	RF-806			CH
RF-W040	RF-MT0425	None	INCINERATOR ASH/TRM	RF-806			CH
RF-W052	RF-MT0440	None	GLASS/TRM	RF-440	RF 118	RF 118	CH
RF-W052	RF-MT0442	None	GLASS/TRM	RF-442	RF 118	RF 118	CH
RF-W032	RF-MT0444	IDC 444, 855	GROUND LEADED GLASS/TRM	RF-0444	RF 118	RF 118	CH
RF-W011	RF-MT0480	IDC 480	LIGHT METAL/TRM	RF-480	RF 117	RF 117	CH
RF-W090	RF-MT0544	0544	EXCESS CHEMICALS/TRM				CH
RF-W010	RF-MT0800	None	SOLIDIFIED SLUDGE - BLDG 774 / TRM	RF-800	RF 111	RF 111	CH
RF-W013	RF-MT0801	IDC 801	SOLIDIFIED ORGANICS - BLDG 774/TRM	RF-801	RF 112	RF 112	CH
RF-W010	RF-MT0803	None	SOLIDIFIED SLUDGE - BLDG 774 / TRM	RF-803	RF 111	RF 111	CH
RF-W097	RF-MT0806	IDC 806	SOLIDIFIED PROCESS SOLIDS/TRM	RF-806	RF 114	RF 114	CH
RF-W010	RF-MT0807	None	SOLIDIFIED SLUDGE - BLDG 374 / TRM	RF-807	RF 111	RF 111	CH
RF-W012	RF-MT0821	None	COMBUSTIBLES/TRM	RF-831	None	None	CH
RF-W012	RF-MT0822	None	COMBUSTIBLES/TRM	RF-832	None	None	CH
RF-W012	RF-MT0831	None	COMBUSTIBLES/TRM		RF-831	RF 116	CH
RF-W092	RF-MT0831P	0831	PCB SOLIDS-COMPATIBLES/TRM	RF-831			CH
RF-W012	RF-MT0832	None	COMBUSTIBLES/TRM	RF-832	RF 116	RF 116	CH
RF-W012	RF-MT0833	None	COMBUSTIBLES/TRM	RF-833	RF 116	RF 116	CH
RF-W012	RF-MT0853	None	COMBUSTIBLES/TRM	RF-833	RF 116	RF 116	CH
RF-W032	RF-MT0855	IDC 444, 855	GROUND GLASS/TRM	RF-855			CH
RF-W052	RF-MT0856	None	GLASS/TRM	RF-856	RF 118	RF118	CH
RF-W096	RF-MT2116	2116	SUPERCOMPACTED COMBUSTIBLES/TRM	2116	RF-116	RF-116C	CH
RF-W094	RF-MTX111	N/A	WASTEWATER/TRM	RF-801			CH
RF-W089	RF-MTX112	N/A	WET SLURRY/TRM				CH
RF-W091	RF-MTX115	0533, 0535, N/A	ORGANICS DISCARD LEVEL/TRM				CH
RF-W108	RF-T010	None	AQUEOUS SLUDGE/TRU		RF 111	RF 111	CH
RF-W123	RF-TR0044	None	OXIDES/TRU	TBD		Unassigned	CH
RF-W123	RF-TR0067	None	OXIDES/TRU	TBD		Unassigned	CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
RF-W123	RF-TR0080	None	OXIDES/TRU	TBD		Unassigned	CH
RF-W123	RF-TR0081	None	OXIDES/TRU	TBD		Unassigned	CH
RF-W123	RF-TR0082	None	OXIDES/TRU	TBD		Unassigned	CH
RF-W123	RF-TR0083	None	OXIDES/TRU	TBD		Unassigned	CH
RF-W123	RF-TR0084	None	OXIDES/TRU	TBD		Unassigned	CH
RF-W123	RF-TR0086	None	OXIDES/TRU	TBD		Unassigned	CH
RF-W123	RF-TR0087	None	OXIDES/TRU	TBD		Unassigned	CH
RF-W123	RF-TR0089	None	OXIDES/TRU	TBD		Unassigned	CH
RF-W123	RF-TR0145	None	OXIDES/TRU	TBD		Unassigned	CH
RF-W123	RF-TR0146	None	OXIDES/TRU	TBD		Unassigned	CH
RF-W123	RF-TR0289	None	OXIDES/TRU	TBD		Unassigned	CH
RF-W104	RF-TR0290	None	PARTICULATE SLUDGE/TRU	RF-806			CH
RF-W104	RF-TR0299	None	PARTICULATE SLUDGE/TRU	RF-806			CH
RF-W117	RF-TR0300	None	COARSE GRAPHITE/TRU	RF-300			CH
RF-W117	RF-TR0301	None	COARSE GRAPHITE/TRU	RF-300		Unassigned	CH
RF-W117	RF-TR0303	None	COARSE GRAPHITE/TRU	RF-303	RF115	RF 115	CH
RF-W117	RF-TR0310	None	COARSE GRAPHITE/TRU	RF-312		Unassigned	CH
RF-W117	RF-TR0312	None	COARSE GRAPHITE/TRU	RF-312			CH
RF-W111	RF-TR0320	None	HEAVY METAL (NON-SS)/TRU	RF-320		Unassigned	CH
RF-W101	RF-TR0330	None	COMBUSTIBLES/TRU	RF-831	None	None	CH
RF-W120	RF-TR0331	None	FILTERS & MEDIA/TRU	RF-376			CH
RF-W115	RF-TR0334	None	FIREBLANKET/TRU	RF-334		Unassigned	CH
RF-W120	RF-TR0335	None	FILTERS & MEDIA/TRU	RF-335			CH
RF-W101	RF-TR0336	None	COMBUSTIBLES/TRU	RF832	None	None	CH
RF-W101	RF-TR0337	None	COMBUSTIBLES/TRU	RF-833	None	None	CH
RF-W120	RF-TR0338	None	FILTERS & MEDIA/TRU	RF-376			CH
RF-W120	RF-TR0342	None	FILTERS & MEDIA/TRU		RF 119	RF 119	CH
RF-W114	RF-TR0368	None	MG OXIDE CRUCIBLES/TRU	RF-368		Unassigned	CH
RF-W114	RF-TR0370	None	MG OXIDE CRUCIBLES/TRU	RF-370		Unassigned	CH
RF-W121	RF-TR0376	None	CEMENTED FILTERS/TRU	RF-376		Unassigned	CH
RF-W116	RF-TR0390	None	SAND, SLAG AND CRUCIBLE/TRU	RF-806			CH
RF-W116	RF-TR0391	None	SAND, SLAG AND CRUCIBLE/TRU	RF-806			CH
RF-W116	RF-TR0392	None	SAND, SLAG AND CRUCIBLE/TRU	RF-806			CH
RF-W114	RF-TR0394	None	MG OXIDE SAND/TRU	RF-806			CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
RF-W116	RF-TR0395	None	SAND, SLAG AND CRUCIBLE/TRU	RF-806			CH
RF-W116	RF-TR0396	None	SAND, SLAG AND CRUCIBLE/TRU	RF-806			CH
RF-W116	RF-TR0398	None	SAND, SLAG AND CRUCIBLE/TRU	RF-806			CH
RF-W103	RF-TR0404	None	MISC PU RECOVERY BYPRODUCT/TRU	Future			CH
RF-W103	RF-TR0405	None	MISC PU RECOVERY BYPRODUCT/TRU	Future			CH
RF-W103	RF-TR0406	None	MISC PU RECOVERY BYPRODUCT/TRU	Future			CH
RF-W103	RF-TR0407	None	MISC PU RECOVERY BYPRODUCT/TRU	Future			CH
RF-W103	RF-TR0408	None	MISC PU RECOVERY BYPRODUCT/TRU	Future			CH
RF-W103	RF-TR0409	None	MISC PU RECOVERY BYPRODUCT/TRU	Future			CH
RF-W103	RF-TR0410	None	MISC PU RECOVERY BYPRODUCT/TRU	Future			CH
RF-W103	RF-TR0411	None	MISC PU RECOVERY BYPRODUCT/TRU	Future			CH
RF-W103	RF-TR0412	None	MISC PU RECOVERY BYPRODUCT/TRU	Future			CH
RF-W103	RF-TR0413	None	MISC PU RECOVERY BYPRODUCT/TRU	Future			CH
RF-W103	RF-TR0414	None	MISC PU RECOVERY BYPRODUCT/TRU	Future			CH
RF-W103	RF-TR0415	None	MISC PU RECOVERY BYPRODUCT/TRU	Future			CH
RF-W103	RF-TR0416	None	MISC PU RECOVERY BYPRODUCT/TRU	Future			CH
RF-W103	RF-TR0417	None	MISC PU RECOVERY BYPRODUCT/TRU	Future			CH
RF-W103	RF-TR0418	None	MISC PU RECOVERY BYPRODUCT/TRU	Future			CH
RF-W103	RF-TR0427	None	MISC PU RECOVERY BYPRODUCT/TRU	Future			CH
RF-W103	RF-TR0429	None	MISC PU RECOVERY BYPRODUCT/TRU	Future			CH
RF-W122	RF-TR0430	None	ORGANIC RESINS/TRU	RF-809			CH
RF-W122	RF-TR0431	None	ORGANIC RESINS/TRU	RF-809			CH
RF-W103	RF-TR0433	None	MISC PU RECOVERY BYPRODUCT/TRU	Future			CH
RF-W103	RF-TR0434	None	MISC PU RECOVERY BYPRODUCT/TRU	Future			CH
RF-W115	RF-TR0438	None	INSULATION/TRU	RF-438	RF 122	RF 122	CH
RF-W113	RF-TR0440	None	GLASS/TRU	RF-440		Unassigned	CH
RF-W113	RF-TR0441	None	GLASS/TRU	RF-442		Unassigned	CH
RF-W113	RF-TR0442	None	GLASS/TRU	RF-442		Unassigned	CH
RF-W102	RF-TR0444	IDC 444	GROUND LEADED GLASS/TRU	RF-0444			CH
RF-W103	RF-TR0473	None	MISC PU RECOVERY BYPRODUCT/TRU	Future			CH
RF-W109	RF-TR0479	None	METAL/TRU	RF-480		Unassigned	CH
RF-W109	RF-TR0480	None	METAL/TRU	RF-480		Unassigned	CH
RF-W109	RF-TR0484	None	METAL/TRU			Unassigned	CH
RF-W109	RF-TR0485	None	METAL/TRU			Unassigned	CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
RF-W109	RF-TR0486	None	METAL/TRU	RF-480		Unassigned	CH
RF-W109	RF-TR0489	None	METAL/TRU	RF-480		Unassigned	CH
RF-W118	RF-TR0504	None	MISCELLANEOUS LIQUIDS/TRU	RF-802			CH
RF-W118	RF-TR0527	None	MISCELLANEOUS LIQUIDS/TRU	RF-802			CH
RF-W118	RF-TR0541	None	MISCELLANEOUS LIQUIDS/TRU	RF-802			CH
RF-W123	RF-TR0600	None	OXIDES/TRU	TBD		Unassigned	CH
RF-W123	RF-TR0601	None	OXIDES/TRU	TBD		Unassigned	CH
RF-W123	RF-TR0653	None	OXIDES/TRU	TBD		Unassigned	CH
RF-W103	RF-TR0654	None	MISC PU RECOVERY BYPRODUCT/TRU	Future			CH
RF-W116	RF-TR0655	None	SAND, SLAG AND CRUCIBLE/TRU	RF-806			CH
RF-W117	RF-TT0300	None	COARSE GRAPHITE/TRU	RF-300	RF115	RF 115	CH
RF-W117	RF-TT0301	None	COARSE GRAPHITE/TRU	RF-300	RF115	RF 115	CH
RF-W101	RF-TT0302	None	COMBUSTIBLES/TRU	RF-833		Unassigned	CH
RF-W117	RF-TT0303	None	COARSE GRAPHITE/TRU	RF-312			CH
RF-W117	RF-TT0312	None	COARSE GRAPHITE/TRU	RF-312	RF115	RF 115	CH
RF-W111	RF-TT0320	None	HEAVY METAL (NON-SS)/TRU	RF-320	RF 117	RF 117	CH
RF-W101	RF-TT0330	None	COMBUSTIBLES/TRU	RF-831	None	None	CH
RF-W120	RF-TT0335	None	FILTERS & MEDIA/TRU	RF-335	RF 119	RF 119	CH
RF-W101	RF-TT0336	None	COMBUSTIBLES/TRU	RF832	None	None	CH
RF-W101	RF-TT0337	None	COMBUSTIBLES/TRU	RF-833	None	None	CH
RF-W120	RF-TT0338	None	FILTERS & MEDIA/TRU	RF-338	RF 119	RF 119	CH
RF-W107	RF-TT0374	IDC 374	SOIL & CLEANUP DEBRIS/TRU	RF-374	RF 121	RF 121	CH
RF-W121	RF-TT0376	None	CEMENTED FILTERS/TRU	RF-376	RF 119	RF 119	CH
RF-W122	RF-TT0430	None	ORGANIC RESINS/TRU	RF-809			CH
RF-W122	RF-TT0431	None	ORGANIC RESINS/TRU	RF-809			CH
RF-W115	RF-TT0438	None	INSULATION/TRU	RF-438		Unassigned	CH
RF-W113	RF-TT0440	None	GLASS/TRU	RF-440	RF 118	RF 118	CH
RF-W113	RF-TT0441	None	GLASS	RF-442	RF 118	RF 118	CH
RF-W113	RF-TT0442	None	GLASS/TRU	RF-442	RF 118	RF 118	CH
RF-W109	RF-TT0479	None	METAL/TRU	RF-480		Unassigned	CH
RF-W109	RF-TT0480	None	METAL/TRU	RF-480	RF 117	RF 117	CH
RF-W109	RF-TT0481	None	METAL/TRU	RF-481	RF 117	RF 117	CH
RF-W109	RF-TT0484	None	METAL/TRU	RF-480		Unassigned	CH
RF-W109	RF-TT0485	None	METAL/TRU	RF-320		Unassigned	CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
RF-W109	RF-TT0486	None	METAL/TRU	RF-480		Unassigned	CH
RF-W101	RF-TT0487	None	COMBUSTIBLES/TRU	RF-833	None	None	CH
RF-W109	RF-TT0489	None	METAL/TRU	RF-480		Unassigned	CH
RF-W120	RF-TT0490	None	FILTERS & MEDIA/TRU	RF-490	RF 119	RF 119	CH
RF-W120	RF-TT0491	None	FILTERS & MEDIA/TRU	RF-491	RF 119	RF 119	CH
RF-W118	RF-TT0508	None	MISCELLANEOUS LIQUIDS/TRU	RF-806			CH
RF-W118	RF-TT0541	None	MISCELLANEOUS LIQUIDS/TRU				CH
RF-W112	RF-TT0802	IDC 802	SOLIIFIED LAB WASTE/TRU	RF-802	RF 113	RF 113	CH
RF-W105	RF-TT0806	IDC 806	SOLIDIFIED PROCESS SOLIDS/TRU	RF-806	RF 114	RF 114	CH
RF-W122	RF-TT0809	None	ORGANIC RESINS/TRU	RF-809	RF 126	RF 126	CH
RF-W101	RF-TT0821	None	COMBUSTIBLES/TRU	RF-821		Unassigned	CH
RF-W101	RF-TT0822	None	COMBUSTIBLES/TRU	RF-822	RF 116	RF 116	CH
RF-W100	RF-TT0823	IDC 823	CEMENTED SLUDGE/TRU	RF-823			CH
RF-W109	RF-TT0824	None	METAL/TRU	RF-824	RF 117	RF 117	CH
RF-W101	RF-TT0825	None	COMBUSTIBLES/TRU		RF 116	RF 116	CH
RF-W101	RF-TT0831	None	COMBUSTIBLES/TRU	RF-821	None	None	CH
RF-W101	RF-TT0832	None	COMBUSTIBLES/TRU	RF-822	None	None	CH
RF-W101	RF-TT0833	None	COMBUSTIBLES/TRU	RF-822	None	None	CH
RF-W103	RF-TT0999	None	MISC PU RECOVERY BYPRODUCTS/TRU	Future			CH
RF-W106	RF-TT2116	None	SUPERCOMPACTED COMBUSTIBLES/TRU	2116	RF-116	RF-116C	CH
RF-W106	RF-TT2216	None	SUPERCOMPACTED COMBUSTIBLES/TRU	2116	RF-116	RF-116C	CH
RF-W011	RF-W011	IDC 480	METAL/TRM	RF-480	RF 117	RF 117	CH
RL-W236	RL-T101		202A BLDG TRU WASTE			Unassigned	CH
RL-W237	RL-T102		202-AL BLDG TRU WASTE	001		Unassigned	CH
RL-W238	RL-T103		216-Z-9 RETRIEVED SOIL	072		Unassigned	CH
RL-W239	RL-T104		221-T TRU WASTE	001		Unassigned	CH
RL-W240	RL-T105		222-S TRU WASTE	001		Unassigned	CH
RL-W241	RL-T106		233-S TRU WASTE	001		Unassigned	CH
RL-W242	RL-T107		234-5Z TRU WASTE	001		Unassigned	CH
RL-W243	RL-T108		MISC 200 WEST AREA TRU WASTE	001		Unassigned	CH
RL-W244	RL-T109		308 BLDG TRU WASTE	001		Unassigned	CH
RL-W245	RL-T110		324, 325 AND 327 BLDG OPER TRU WASTE	001		Unassigned	CH
RL-W246	RL-T112		340 BLDG OPER AND R&D TRU WASTE	001		Unassigned	CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
RL-W247	RL-T113		100 AREAS AND 200 AREAS R&D TRU WASTE	001		Unassigned	CH
RL-W248	RL-T114		209 E BLDG TRU WASTE	001		Unassigned	CH
RL-W249	RL-T115		231-Z BLDG TRU WASTE	001		Unassigned	CH
RL-W250	RL-T116		303C BLDG TRU WASTE	001		Unassigned	CH
RL-W251	RL-T118		300 AREA R&D TRU WASTE	001		Unassigned	CH
RL-W252	RL-T120		TRU CONSTRUCTION DEBRIS	001		Unassigned	CH
RL-W253	RL-T121		105-KE BLDG TRU WASTE	001		Unassigned	RH
RL-W254	RL-T122		105-C, 105KE, AND 105-N BLDG TRU WASTE	001		Unassigned	CH
RL-W255	RL-T123		ARGONNE NAT LAB TYPE 1 TRU WASTE	001		Unassigned	CH
RL-W256	RL-T124		ARGONNE NAT LAB TYPE II TRU WASTE	001		Unassigned	RH
RL-W257	RL-T125		ARGONNE NAT LAB TYPE III TRU WASTE	001		Unassigned	CH
RL-W258	RL-T127		BABCOCK WILCOX TRU WASTE	001		Unassigned	CH
RL-W259	RL-T128		BARTLESVILLE TRU WASTE	001		Unassigned	CH
RL-W260	RL-T129		BATTELLE COLUMBUS TRU WASTE	001		Unassigned	CH
RL-W261	RL-T130		BETTIS TRU WASTE	001		Unassigned	CH
RL-W262	RL-T131		ENERGY SYSTEMS GROUP TRU WASTE	001		Unassigned	CH
RL-W263	RL-T132		EXXON TRU WASTE	001		Unassigned	CH
RL-W264	RL-T133		INTERNATIONAL ATOMIC ENERGY AGENCY TRU WASTE	001		Unassigned	CH
RL-W265	RL-T134		LAWRENCE BERKELEY NAT LAB TRU WASTE	001		Unassigned	CH
RL-W266	RL-T135		LAWRENCE LIVERMORE TRU WASTE	001		Unassigned	CH
RL-W267	RL-T137		KERR MCGEE TRU WASTE	001		Unassigned	CH
RL-W268	RL-T140		ROCKY FLATS TRU WASTE	001		Unassigned	CH
RL-W269	RL-T143		GE SAN JOSE AND VALLECITOS TRU WASTE	001		Unassigned	CH
RL-W270	RL-T145		WARD TRU WASTE	001		Unassigned	CH
RL-W271	RL-T147		325 AND 325B BLDG OP TRU CAISSON WASTE	001		Unassigned	RH
RL-W272	RL-T148		324 AND 327C TRU WASTE	001		Unassigned	RH
RL-W273	RL-T149		325A AND 325B R&D TRU WASTE	001		Unassigned	RH
RL-W274	RL-W161		202A BLDG REMOTE-HANDLED TRU WASTE				RH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
RL-W275	RL-W162		202AL AND 222S BLDG REMOTE-HANDLED TRU WASTE				RH
RL-W276	RL-W276		ARGON PB/CD MET LEAD RH ST MTRU				RH
RL-W277	RL-W277		BATCO PB/CD MET LEAD CH RCRA MTRU W/ MET				CH
RL-W278	RL-W278		ESG COMB DEBRIS CH RCRA MTRU W/ MET				CH
RL-W279	RL-W279		MCGEE HETER DEBRIS CH ST MTRU				CH
RL-W280	RL-W280		MCGEE SOLIDIF ORG DEBRIS CH ST MTRU				CH
RL-W281	RL-W281		183H SOLIDIF INORG LABPKS CH RCRA MTRU W/ MET IGN				CH
RL-W282	RL-W282		200W SOLIDIF ORG DEBRIS CH ST MTRU				CH
RL-W283	RL-W283		201C SOILS CH/R RCRA MTRU W/ MET				CH
RL-W284	RL-W284		201C UNK FORM CH RCRA MTRU W/ MET				CH
RL-W285	RL-W285		202A SOLIDIF ORG DEBRIS CH RCRA MTRU W/ ORG IGN				CH
RL-W286	RL-W286		MCGEE SOLIDIF ORG INORG PART CH ST MTRU				CH
RL-W287	RL-W287		202A PB/CD MET DEBRIS CH RCRA MTRU W/ MET COR				CH
RL-W288	RL-W288		202A UNCAT MET DEBRIS CH RCRA MTRU W/ MET COR				CH
RL-W289	RL-W289		202A COMB DEBRIS CH RCRA MTRU W/ MET COR				CH
RL-W290	RL-W290		202A PB/CD MET DEBRIS CH RCRA MTRU W/ MET				CH
RL-W291	RL-W291		202A UNCAT MET DEBRIS CH RCRA MTRU W/ MET				CH
RL-W292	RL-W292		202A INORG NON-MET DEBRIS CH RCRA MTRU W/ MET COR				CH
RL-W293	RL-W293		202A COMB DEBRIS CH RCRA MTRU W/ MET				CH
RL-W294	RL-W294		202A HETER DEBRIS CH RCRA MTRU W/ MET(HG)				CH
RL-W295	RL-W295		202A UNCAT DEBRIS CH RCRA MTRU W/ COR				CH
RL-W296	RL-W296		202A COMB DEBRIS CH RCRA MTRU W/ COR				CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
RL-W297	RL-W297		202A UNCAT MET DEBRIS CH ST MTRU				CH
RL-W298	RL-W298		202A COMB DEBRIS CH ST MTRU				CH
RL-W299	RL-W299		202AL UNCAT MET DEBRIS CH RCRA MTRU W/ MET COR				CH
RL-W300	RL-W300		202AL COMB DEBRIS CH RCRA MTRU W/ MET				CH
RL-W301	RL-W301		209E HETER LEAD CH RCRA MTRU W/ MET				CH
RL-W302	RL-W302		222S HETER DEBRIS CH RCRA MTRU W/ MET				CH
RL-W303	RL-W303		224T HETER DEBRIS CH ST MTRU				CH
RL-W304	RL-W304		231Z HETER DEBRIS CH ST MTRU				CH
RL-W305	RL-W305		2345Z COMB DEBRIS CH RCRA MTRU W/ ORG MET				CH
RL-W306	RL-W306		2345Z PB/CD MET DEBRIS CH RCRA MTRU W/ ORG MET				CH
RL-W307	RL-W307		2345Z UNCAT MET DEBRIS CH RCRA MTRU W/ ORG MET COR				CH
RL-W308	RL-W308		2345Z UNCAT MET DEBRIS CH RCRA MTRU W/ ORG				CH
RL-W309	RL-W309		2345Z COMB DEBRIS CH RCRA MTRU W/ ORG				CH
RL-W310	RL-W310		2345Z SOIL DEBRIS CH RCRA MTRU W/ ORG IGN				CH
RL-W311	RL-W311		2345Z PB/CD MET DEBRIS CH RCRA MTRU W/ MET				CH
RL-W312	RL-W312		2345Z PB/CD MET DEBRIS CH RCRA MTRU W/ MET COR				CH
RL-W313	RL-W313		2345Z UNCAT MET DEBRIS CH RCRA MTRU W/ MET				CH
RL-W314	RL-W314		2345Z COMB DEBRIS CH RCRA MTRU W/ MET				CH
RL-W315	RL-W315		2345Z INORG NON-MET DEBRIS CH RCRA MTRU W/ MET IGN				CH
RL-W316	RL-W316		2345Z SOILS CH RCRA MTRU W/ MET COR				CH
RL-W317	RL-W317		2345Z PB/CD MET UNK FORM CH RCRA MTRU W/ MET(HG)				CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
RL-W318	RL-W318		2345Z PB/CD MET DEBRIS CH RCRA MTRU W/ MET(HG) COR				CH
RL-W319	RL-W319		2345Z UNCAT MET DEBRIS CH RCRA MTRU W/ MET(HG)				CH
RL-W320	RL-W320		2345Z UNCAT MET DEBRIS CH RCRA MTRU W/ MET(HG) COR				CH
RL-W321	RL-W321		2345Z COMB DEBRIS CH RCRA MTRU W/ MET(HG)				CH
RL-W322	RL-W322		2345Z COMB DEBRIS CH RCRA MTRU W/ MET(HG) COR				CH
RL-W323	RL-W323		2345Z SOILS DEBRIS CH RCRA MTRU W/ MET(HG)				CH
RL-W324	RL-W324		2345Z UNCAT MET DEBRIS CH RCRA MTRU W/ COR				CH
RL-W325	RL-W325		2345Z COMB DEBRIS CH RCRA MTRU W/ COR				CH
RL-W326	RL-W326		2345Z SOLIDIF ORG LABPACKS CH RCRA MTRU W/ ORG IGN				CH
RL-W327	RL-W327		2345Z UNCAT MET DEBRIS CH RC/TS MTRU W/ MET(HG)				CH
RL-W328	RL-W328		2345Z PB/CD DEBRIS CH RC/TS MTRU W/ MET(HG)				CH
RL-W329	RL-W329		2345Z SOLIDIF ORG CH RC/TS MTRU W/ IGN				CH
RL-W330	RL-W330		2345Z UNCAT MET DEBRIS CH ST MTRU				CH
RL-W331	RL-W331		2345Z COMB DEBRIS CH ST MTRU				CH
RL-W332	RL-W332		2345Z UNK FORM CH ST MTRU				CH
RL-W333	RL-W333		2345Z SOLIDIF ORG DEBRIS CH TSCA MTRU				CH
RL-W334	RL-W334		2345Z UNCAT MT DEBRIS CH TSCA MTRU				CH
RL-W335	RL-W335		2718E COMB DEBRIS CH ST MTRU				CH
RL-W336	RL-W336		318 INORG NON-MET PART CH ST MTRU				CH
RL-W337	RL-W337		324 PB/CD MET RH ST MTRU				RH
RL-W338	RL-W338		325 SOLIDIF ORG CH RCRA MTRU W/ ORG MET IGN/COR				CH
RL-W339	RL-W339		325 PB/CD MET LEAD CH RCRA MTRU W/ MET(HG)				CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
RL-W340	RL-W340		325 COMB DEBRIS CH RCRA MTRU W/ COR				CH
RL-W341	RL-W341		325A UNCAT MT DEBRIS CH/R RCRA MTRU W/ ORG MET(HG)				CH
RL-W342	RL-W342		325A INORG N-MT DEBR CH/R RCRA MTRU W/ORG MET(HG)				CH
RL-W343	RL-W343		325A COMB DEBRIS CH/R RCRA MTRU W/ ORG MET(HG)				CH
RL-W344	RL-W344		340 SOLIDIF ORG DEBRIS CH/R RCRA MTRU W/ ORG				CH
RL-W345	RL-W345		2345Z SOLIDIF ORG DEBRIS CH ST MTRU				CH
RL-W346	RL-W346		308 UNCAT MT DEBRIS CH RCRA MTRU W/ MET				CH
RL-W347	RL-W347		308 COMBUS DEBRIS CH RCRA MTRU W/ MET(HG)				CH
RL-W348	RL-W348		308 SOLID ORG DEBRIS CH RCRA MTRU W/ MET(HG) COR				CH
RL-W349	RL-W349		308 INORG NON-MET CH RCRA MTRU W/ MET				CH
RL-W350	RL-W350		308 UNCAT MET DEBRIS CH ST MTRU				CH
RL-W351	RL-W351		CUPRC SOIL CH TRU				CH
RL-W352	RL-W352		CUPRC INORG NON-MET DEBRIS CH TRU				CH
RL-W353	RL-W353		ESG INORG NON-MET PART CH TRU				CH
RL-W354	RL-W354		ESG SOIL CH/R TRU				CH
RL-W355	RL-W355		ESG UNCAT MET DEBRIS CH TRU				CH
RL-W356	RL-W356		ESG COMB DEBRIS CH TRU				CH
RL-W357	RL-W357		KAPL UNK FORM CH/R TRU				CH
RL-W358	RL-W358		MCGEE INORG NON-MET DEBRIS CH TRU				CH
RL-W359	RL-W359		MCGEE UNCAT MET DEBRIS CH TRU				CH
RL-W360	RL-W360		MCGEE COMB DEBRIS CH TRU				CH
RL-W361	RL-W361		MCGEE SOLIDIF ORG CH TRU				CH
RL-W362	RL-W362		202A UNCAT MET DEBRIS CH TRU				CH
RL-W363	RL-W363		202A PB/CD MET UNK FORM CH TRU				CH
RL-W364	RL-W364		202A INORG NON-MET DEBRIS CH TRU				CH
RL-W365	RL-W365		202A COMB DEBRIS CH TRU				CH
RL-W366	RL-W366		202A UNK FORM CH TRU				CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
RL-W367	RL-W367		202AL INORG NON-MET DEBRIS CH TRU				CH
RL-W368	RL-W368		202AL COMB DEBRIS CH TRU				CH
RL-W369	RL-W369		209E UNCAT MET DEBRIS CH TRU				CH
RL-W370	RL-W370		209E UNCAT MET DEBRIS CH/R TRU				CH
RL-W371	RL-W371		209E COMB DEBRIS CH TRU				CH
RL-W372	RL-W372		209E COMB DEBRIS CH/R TRU				CH
RL-W373	RL-W373		231Z UNCAT MET UNK FORM CH TRU				CH
RL-W374	RL-W374		2345Z UNCAT MET DEBRIS CH TRU				CH
RL-W375	RL-W375		2345Z UNCAT MET DEBRIS CH/R TRU				CH
RL-W376	RL-W376		2345Z INORG NON-MET DEBRIS CH TRU				CH
RL-W377	RL-W377		2345Z COMB DEBRIS CH TRU				CH
RL-W378	RL-W378		2345Z COMB DEBRIS CH/R TRU				CH
RL-W379	RL-W379		2345Z HETER DEBRIS CH TRU				CH
RL-W380	RL-W380		2345Z SOLIDIF ORG DEBRIS CH TRU				CH
RL-W381	RL-W381		2345Z SOIL DEBRIS CH TRU				CH
RL-W382	RL-W382		2345Z UNK FORM CH TRU				CH
RL-W383	RL-W383		2345Z SOLIDIF INORG LABPACKS CH/R TRU				CH
RL-W384	RL-W384		2718E COMB DEBRIS CH TRU				CH
RL-W385	RL-W385		308 UNCAT MET DEBRIS CH TRU				CH
RL-W386	RL-W386		308 UNCAT MET DEBRIS CH/R TRU				CH
RL-W387	RL-W387		308 INORG NON-MET DEBRIS CH TRU				CH
RL-W388	RL-W388		308 COMB DEBRIS CH TRU				CH
RL-W389	RL-W389		308 COMB DEBRIS CH/R TRU				CH
RL-W390	RL-W390		308 PB/CD MET UNK FORM CH TRU				CH
RL-W391	RL-W391		308 COMB UNK FORM CH TRU				CH
RL-W392	RL-W392		324 INORG NON-MET PART CH TRU				CH
RL-W393	RL-W393		325 INORG NON-MET DEBRIS CH TRU				CH
RL-W394	RL-W394		325 SOLIDIF INORG PART CH TRU				CH
RL-W395	RL-W395		325 UNCAT MET DEBRIS CH TRU				CH
RL-W396	RL-W396		325 UNCAT MET DEBRIS CH/R TRU				CH
RL-W397	RL-W397		325 COMB DEBRIS CH TRU				CH
RL-W398	RL-W398		325 COMB DEBRIS CH/R TRU				CH
RL-W399	RL-W399		327C UNCAT MET DEBRIS CH/R TRU				CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
RL-W400	RL-W400		327C INORG NON-MET DEBRIS CH/R TRU				CH
RL-W401	RL-W401		327C COMB DEBRIS CH/R TRU				CH
RL-W402	RL-W402		340 UNCAT MET DEBRIS CH TRU				CH
RL-W403	RL-W403		340 INORG NON-MET DEBRIS CH TRU				CH
RL-W404	RL-W404		340 COMB DEBRIS CH TRU				CH
RL-W405	RL-W405		3720 INORG NON-MET DEBRIS CH TRU				CH
RL-W406	RL-W406		6652H SOILS CH TRU				CH
RL-W407	RL-W407		202A NON-SURPL FAC MT PRG D&D TRU				CH
RL-W408	RL-W408		221T/2706T NON-SURPL FAC MT PRG D&D TRU				CH
RL-W409	RL-W409		2345Z NON-SURPL FAC MT PRG D&D TRU				CH
RL-W410	RL-W410		308 NON-SURPL FAC MT PRG D&D TRU				CH
RL-W411	RL-W411		231-Z NON-SURPL FAC MT PRG D&D TRU				CH
RL-W412	RL-W412		327 NON-SURPL FAC MT PRG D&D TRU				CH
RL-W413	RL-W413		TWRS VIT FAC WASTE TRU TYPE 1				CH
RL-W414	RL-W414		202A NON-SURPL FAC MT PROG D&D MTRU				CH
RL-W415	RL-W415		221T/2706T NON-SURPL FAC MT PRG D&D MTRU				CH
RL-W416	RL-W416		2345Z NON-SURPL FAC MT PRG D&D MTRU				CH
RL-W417	RL-W417		231-Z NON-SURPL FAC MT PRG D&D MTRU				CH
RL-W418	RL-W418		TWRS VIT FAC WASTE MTRU TYPE 1				CH
RL-W419	RL-W419		100K K-BASIN OPERATIONS TRU				RH
RL-W420	RL-W420		TWRS VIT FAC WASTE TRU TYPE 2				RH
RL-W421	RL-W421		221T/2706T T-PLANT OPERATIONS MTRU				RH
RL-W422	RL-W422		TANK WASTE RETRIEVAL MTRU				RH
RL-W423	RL-W423		TWRS VIT FAC WASTE MTRU TYPE 2				RH
RL-W424	RL-W424		327 NON-SURPLUS FACILITY MGMT PRG D&D TRU/RH				RH
RL-W425	RL-W425		100N NON-SURPLUS FACILITY MGMT PRG D&D TRU/RH				RH
RL-W426	RL-W426		202A NON-SURPLUS FACILITY MGMT PRG D&D TRU/RH				RH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
RL-W427	RL-W427		202-A TUNNEL NON-SURPLUS FACILITY MGMT PRG D&D TRU/RH				RH
RL-W428	RL-W428		221T/2706T NON-SURPLUS FACILITY MGMT PRG D&D TRU/RH				RH
RL-W429	RL-W429		2345Z NON-SURPLUS FACILITY MGMT PRG D&D TRU/RH				RH
RL-W430	RL-W430		SURPLUS FACILITY MGMT PRG D&D MTRU/RH				RH
RL-W431	RL-W431		327 NON-SURPLUS FACILITY MGMT PRG D&D MTRU/RH				RH
RL-W432	RL-W432		202A NON-SURPLUS FACILITY MGMT PRG D&D MTRU/RH				RH
RL-W433	RL-W433		221T/2706T NON-SURPLUS FACILITY MGMT PRG D&D MTRU/RH				RH
RL-W434	RL-W434		2345Z NON-SURPLUS FACILITY MGMT PRG D&D MTRU/RH				RH
RL-W435	RL-W435		340 NON-SURPLUS FACILITY MGMT PRG D&D MTRU/RH				RH
RL-W436	RL-W436		TWRS LONG-LENGTH TANK EQUIPMENT MTRU/RH				RH
RL-W437	RL-W437		SURPLUS FACILITY MGMT PRG D&D TRU/CH				CH
RL-W438	RL-W438		NON-TRANSITION PROGRAM TRU/CH				CH
RL-W439	RL-W439		ENVIRONMENTAL RESTORATION PROGRAM TRU/CH SOILS				CH
RL-W440	RL-W440		K BASINS OPERATIONS TRU/CH				CH
RL-W441	RL-W441		K BASIN PROJECT TRU/CH				CH
RL-W442	RL-W442		TWRS CROSS-SITE TRANSFER PROJECT TRU/CH				CH
RL-W443	RL-W443		SURPLUS FACILITY MGMT PRG D&D MTRU/CH				CH
RL-W444	RL-W444		NON-TRANSITION PROGRAM MTRU/CH				CH
RL-Z001	RL-Z001		HANFORD BURIED TRU WASTE				U
SA-T001	SA-T001	NA	LOVELACE ITRI WASTE STREAM		na	Unassigned	CH
SA-W134	SA-W134	NA	TRANSURANIC WASTE AT HOT CELL FACILITY		na	Unassigned	CH
SA-Z001	SA-Z001		SANDIA NATIONAL LABORATORY/NM BURIED TRU WASTE				U

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
SR-Z001	SR-Z001		SAVANNAH RIVER BURIED TRU WASTE				U
SR-W074	T001-221F-HET	SR-T001	CH TRU - HETEROGENEOUS DEBRIS FROM 221F	001	sr125A	SR125A	CH
SR-W074	T001-221F-MET	SR-T001	CH TRU - METAL DEBRIS FROM 221F	n/a	undetermined	undetermined	CH
SR-W074	T001-221F-VIT	SR-T001	CH TRU - VITRIFIED DEBRIS FROM 221F	n/a	undetermined	undetermined	CH
SR-W074	T001-221H-HET	SR-T001	CH TRU - HETEROGENEOUS DEBRIS FROM 221H	001	SR125A	SR125A Unassigned	CH
SR-W074	T001-221H-MET	SR-T001	CH TRU - METAL DEBRIS FROM 221H	n/a	undetermined	undetermined	CH
SR-W074	T001-221H-VIT	SR-T001	CH TRU - VITRIFIED DEBRIS FROM 221H	n/a	undetermined	undetermined	CH
SR-W074	T001-235F-HET	SR-T001	CH TRU HETEROGENEOUS DEBRIS FROM 235F	001	SR125A	SR125A	CH
SR-W074	T001-235F-MET	SR-T001	CH TRU - METAL DEBRIS FROM 235F	n/a	Undetermined	Undetermined	CH
SR-W074	T001-235F-VIT	SR-T001	CH TRU - VITRIFIED DEBRIS FROM 235F	n/a	Undetermined	undetermined	CH
SR-W074	T001-772F-HET	SR-T001	CH TRU - HETEROGENEOUS DEBRIS FROM 772F	001	SR125A	SR125A	CH
SR-W074	T001-772F-MET	SR-T001	CH TRU - METAL DEBRIS FROM 772F	n/a	Undetermined	undetermined	CH
SR-W074	T001-772F-VIT	SR-T001	CH TRU - VITRIFIED DEBRIS FROM 772F	n/a	Undetermined	undetermined	CH
SR-W074	T001-773A-CLAS	SR-T001	CH TRU - CLASSIFIED WASTE FROM 773A	n/a	N/A	N/A	CH
SR-W074	T001-773A-HET	SR-T001	CH TRU - HETEROGENEOUS DEBRIS FROM 773A	001	SR125A	SR125A	CH
SR-W074	T001-773A-MET	SR-T001	CH TRU - METAL DEBRIS FROM 773A	n/a	Undetermined	undetermined	CH
SR-W074	T001-773A-VIT	SR-T001	CH TRU - VITRIFIED DEBRIS FROM 773A	n/a	Undetermined	undetermined	CH
SR-W076	T003-773A-HET	SR-T003	RH TRU HETEROGENEOUS DEBRIS FROM 773A	001	SR125A	SR125A	CH
SR-W076	T003-773A-VIT	SR-T003	RH TRU VITRIFIED DEBRIS FROM 773A	n/a	Undetermined	Undetermined	CH
TB-W001	TB-W001		TELEDYNE BROWN VITRIFIED BOROSILICATE GLASS				CH
SR-W006	W006-773A-VIT	SR-W006	CONTACT HANDLED TRU/LIQUIDS FROM 773A	n/a	none at this tim	none at this time	CH
SR-W026	W026-221F-HET	SR-W026	CH MIXED TRU/THIRDS HETEROGENEOUS DEBRIS FROM 221F	001	SR125A	SR125A	CH
SR-W026	W026-221F-VIT	SR-W026	CH MIXED TRU/THIRDS - VITRIFIED DEBRIS FROM 221F	n/a	undetermined	Undetermined	CH
SR-W026	W026-221H-HET	SR-W026	CH MIXED TRU/THIRDS HETEROGENEOUS DEBRIS FROM 221H	001	SR125A	SR125A	CH
SR-W026	W026-221H-VIT	SR-W026	CH MIXED TRU/THIRDS - VITRIFIED DEBRIS FROM 221H	n/a	Undetermined	Undetermined	CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
SR-W026	W026-235F-HET	SR-W026	CH MIXED TRU/THIRDS HETEROGENEOUS DEBRIS FROM 235F	001	sr125A	SR125A	CH
SR-W026	W026-235F-VIT	SR-W026	CH MIXED TRU/THIRDS - VITRIFIED DEBRIS FROM 235F	N/A	Undetermined	Undetermined	CH
SR-W026	W026-772F-HET	SR-W026	CH MIXED TRU/THIRDS HETEROGENEOUS DEBRIS FROM 772F	001	SR125A	SR125A	CH
SR-W026	W026-772F-VIT	SR-W026	CH MIXED TRU/THIRDS - VITRIFIED DEBRIS FROM 772F	n/a	Undetermined	undetermined	CH
SR-W026	W026-773A-HET	SR-W026	CH MIXED TRU/THIRDS HETEROGENEOUS DEBRIS FROM 773A	001	SR125A	SR125A	CH
SR-W026	W026-773A-VIT	SR-W026	CH MIXED TRU/THIRDS - VITRIFIED DEBRIS FROM 773A	n/a	Undetermined	undetermined	CH
SR-W027	W027-221F-HET	SR-W0027	CH MIXED TRU/F LISTED SOLVENTS - HETEROGENEOUS DEBRIS FROM 221F	001	SR125A	SR125A	CH
SR-W027	W027-221F-MET	SR-W0027	CH MIXED TRU/F LISTED SOLVENTS - METAL DEBRIS FROM 221F	n/a	Undetermined	undetermined	CH
SR-W027	W027-221F-VIT	SR-W0027	CH MIXED TRU/F LISTED SOLVENTS - VITRIFIED DEBRIS FROM 221F	n/a	Undetermined	Undetermined	CH
SR-W027	W027-221H-HET	SR-W0027	CH MIXED TRU/F LISTED SOLVENTS - HETEROGENEOUS DEBRIS FROM 221H	001	SR125A	SR125A	CH
SR-W027	W027-221H-MET	SR-W0027	CH MIXED TRU/F LISTED SOLVENTS - METAL DEBRIS FROM 221H	n/a	Undetermined	Undetermined	CH
SR-W027	W027-221H-VIT	SR-W0027	CH MIXED TRU/F LISTED SOLVENTS - VITRIFIED DEBRIS FROM 221H	n/a	Undetermined	Undetermined	CH
SR-W027	W027-235F-HET	SR-W0027	CH MIXED TRU/F LISTED SOLVENTS - HETEROGENEOUS DEBRIS FROM 235F	001	SR125A	SR125A	CH
SR-W027	W027-235F-MET	SR-W0027	CH MIXED TRU/F LISTED SOLVENTS - METAL DEBRIS FROM 235F	n/a	Undetermined	Undetermined	CH
SR-W027	W027-235F-VIT	SR-W0027	CH MIXED TRU/F LISTED SOLVENTS - VITRIFIED DEBRIS FROM 235F	n/a	Undetermined	Undetermined	CH
SR-W027	W027-772F-HET	SR-W0027	CH MIXED TRU/F LISTED SOLVENTS - HETEROGENEOUS DEBRIS FROM 772F	001	SR125A	SR125A	CH
SR-W027	W027-772F-MET	SR-W0027	CH MIXED TRU/F LISTED SOLVENTS - METAL DEBRIS FROM 772F	n/a	Undetermined	Undetermined	CH
SR-W027	W027-772F-VIT	SR-W0027	CH MIXED TRU/F LISTED SOLVENTS - VITRIFIED DEBRIS FROM 772F	n/a	Undetermined	undetermined	CH
SR-W027	W027-773A-HET	SR-W0027	CH MIXED TRU/F LISTED SOLVENTS - HETEROGENEOUS DEBRIS FROM 773A	001	SR125A	SR125A	CH

MWIR ID	TWBIR ID	LOCAL ID	Stream Name	IDC	NMVP	TRUCON Code	Handling
SR-W027	W027-773A-MET	SR-W0027	CH MIXED TRU/F LISTED SOLVENTS - METAL DEBRIS FROM 773A		Undetermined		CH
SR-W027	W027-773A-VIT	SR-W0027	CH MIXED TRU/F LISTED SOLVENTS - VITRIFIED DEBRIS FROM 773A	n/a	Undetermined	Undetermined	CH
SR-W027	W027-999-HET	SR-W0027	CH MIXED TRU/F LISTED SOLVENTS - HETEROGENEOUS DEBRIS FROM OFFSITE	001	SR125A	SR125A	CH
SR-W027	W027-999-VIT	SR-W0027	CH MIXED TRU/F LISTED SOLVENTS - VITRIFIED DEBRIS FROM OFFSITE	n/a	Undetermined	undetermined	CH
SR-W053	W053-773A-VIT	SR-W053	CONTACT HANDLED MIXED TRU/RESIDUES FROM 773A	n/a	none at this tim	N/A	CH
WV-M005	WV-M005	N/A	TRU FILTERS	N/A	N/A	N/A	RH
WV-M007	WV-M007	N/A	TRU GENERAL WASTE (UNCLASSIFIED)	N/A	N/A	N/A	CH
WV-M008	WV-M008	N/A	TRU CONCRETE	N/A	N/A	N/A	CH
WV-M010	WV-M010		TRU SPENT ABSORBENTS	N/A	N/A	N/A	CH
WV-M012	WV-M012		GLOVE BOXES	N/A	N/A	N/A	CH
WV-M013	WV-M013		SWEEPING COMPOUND	N/A	N/A	N/A	CH
WV-M015	WV-M015	N/A	CHEMICAL PROCESS CELL GENERAL WASTE	N/A	N/A	N/A	RH
WV-T001	WV-T001	N/A	FISSILE MATERIAL - SOLIDS	N/A	N/A	N/A	CH
WV-T002	WV-T002		FISSILE MATERIAL - ALPHA LAB LIQUIDS	N/A	N/A	N/A	CH
WV-T003	WV-T003	N/A	FISSILE MATERIAL-UNH SOLUTION	N/A	N/A	N/A	CH
WV-T004	WV-T004		FISSILE MATERIAL - OTHER	N/A	N/A	N/A	CH
WV-T006	WV-T006	N/A	TRU GENERAL WASTE (CLASSIFIED)	N/A	N/A	N/A	CH
WV-T009	WV-T009	N/A	TRU GENERAL LABORATORY WASTE	N/A	N/A	N/A	CH
WV-T011	WV-T011		TRU GLOVE BOXES (CLASSIFIED)	N/A	N/A	N/A	CH
WV-T014	WV-T014		CHEMICAL PROCESS CELL VESSELS	N/A	N/A	N/A	RH
WV-T016	WV-T016		CHEMICAL PROCESS CELL MISCELLANEOUS EQUIPMENT	N/A	N/A	N/A	RH
WV-T017	WV-T017		SPENT FILTER MEDIA		N/A	N/A	CH
WV-W024	WV-W024	NA	TRU LEAD	N/A	N/A	N/A	CH
WV-W041	WV-W041	NA	TRU PAINT (DRY) WITH METALS	N/A	N/A	N/A	CH
WV-Z001	WV-Z001		WEST VALLEY BURIED TRU WASTE				U

APPENDIX F

M

APPENDIX F
MWIR CODE DESIGNATIONS AND DESCRIPTIONS

Code	Description	Code	Description
D001A	High TOC Ignitable Liquids	F001-F005	Solvents
D001B	Descr. Based on 40 CFR 261.21, High TOC Subcat., Managed CWA	F005A	Spent Nonhalogenated Solvents
D001C	Descr. Based on 40 CFR 261.21, High TOC Subcat., Non-CWA	F005B	Listed for 2-Nitropropane
D001X	Unspecified Ignitable Wastes	F005C	Listed for 2-Ethoxyethanol
D002A	Acid, Alkaline, & Other Subcat Based on 40 CFR 261.22 CWA	F005D	Cyclohexanone/Methanol/Carbon Disulfide
D002B	Acid, Alkaline, & Other Subcat Based on 40 CFR 261.22 Non-CWA	F005X	Unspecified Nonhalogenated Solvents
D003A	Reactive Cyanides	F025A	Light Ends
D003B	Reactive Sulfides	P047A	4,6-Dinitro-o-Cresol
D003C	Explosives	P047B	4,6-Dinitro-o-Cresol Salts
D003D	Water Reactives	P047X	Unspecified 4,6-Dinitro-o-Cresol Waste
D003E	Other Reactives	P059A	Heptachlor
D003X	Unspecified Reactives	P059B	Heptachlor epoxide
D006A	TCLP Toxic for Cadmium	P059X	Unspecified Heptachlor
D006B	Cadmium-containing Batteries	P065A	High Mercury Incinerator or RMERC Residues Containing Mercury
D008A	TCLP Toxic for Lead	P065B	Residues That Are Not Incinerator or RMERC Residues
D008B	Lead Acid Batteries	P065C	Low Mercury RMERC Residues Containing Mercury Fulminate
D008C	Radioactive Lead Solids	P065D	Low Mercury Incinerator Residues (NOT RMERC)
D009A	TCLP Toxic for Mercury	P065E	Wastewaters
D009B	High Mercury (Contains Organics)	P065X	Unspecified Mercury Fulminate Waste
D009C	High Mercury (Contains Inorganics)	P092A	High Mercury Incinerator or RMERC Residues Containing Phenyl Mercury Acetate

Code	Description	Code	Description
D009D	Elemental Mercury Contaminated with Radioactive Materials	P092B	Residues That Are Not Incinerator or RMERC Residues
D009E	Hydraulic Oil Contaminated with Mercury Radioactive Material	P092C	Low Mercury RMERC Residues Containing Phenyl Mercury Acetate
D009F	High Level Wastes	P092D	Low Mercury Incinerator Residues Not RMERC Containing Phenyl Mercury Acetate
D009X	Unspecified Mercury	P092E	Wastewaters
D010A	TCLP Toxic for Selenium	P092X	Unspecified Phenyl Mercury Acetate Waste
D010B	High Level Wastes	U151A	High Mercury Residues from RMERC
D011A	TCLP Toxic for Silver	U151B	Low Mercury Residues from RMERC
D011B	High Level Wastes	U151C	Low Mercury Residues
		U151D	Radioactive Elemental Mercury
		U151E	Mercury Wastewaters
		U151X	Unspecified Mercury Waste
		U240A	2,4-D (Dichlorophenoxyacetic Acid)
		U240B	2,4-D Salts and Esters
		U240X	Unspecified 2,4-D Waste

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APPENDIX G

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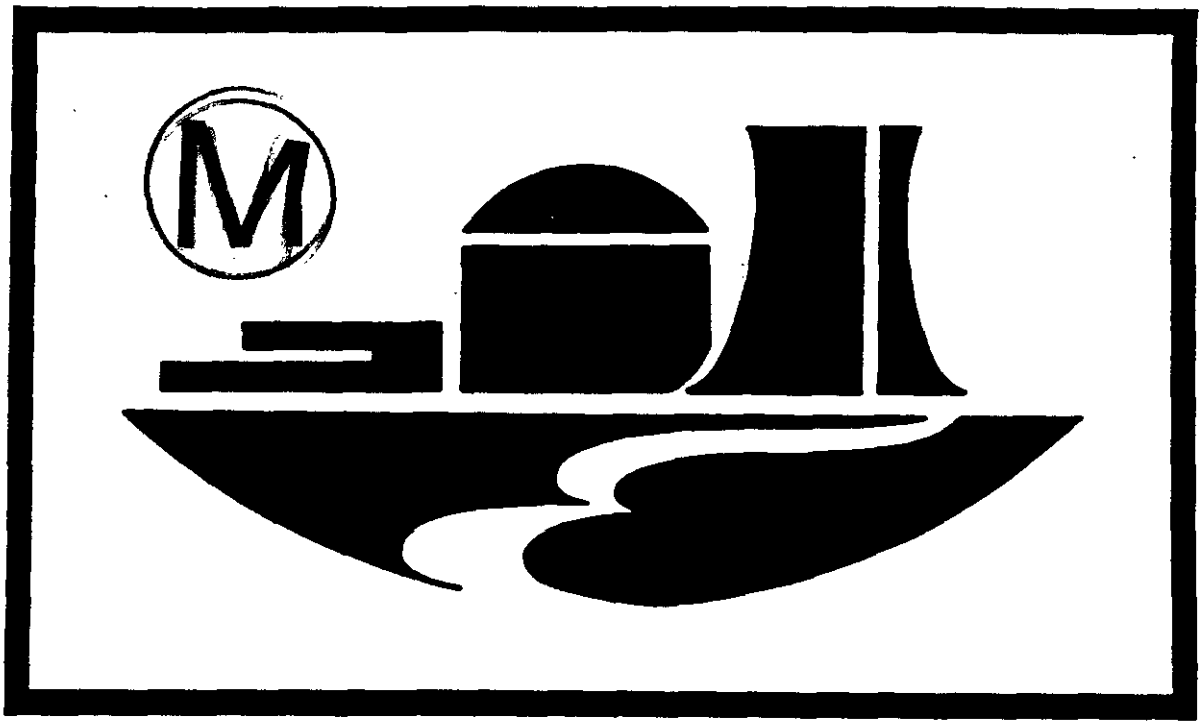
DOE/RW-0006, Rev. 11

September 1995

Integrated Data Base Report—1994: U.S. Spent Nuclear Fuel and Radioactive Waste Inventories, Projections, and Characteristics



Prepared for

U.S. Department of Energy
Office of Civilian Radioactive Waste Management
Office of Environmental Management
Washington, D.C. 20585

Prepared by

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PREFACE

The information in this report summarizes the U.S. Department of Energy (DOE) data base for inventories, projections, and characteristics of domestic spent nuclear fuel and radioactive waste. This report is updated annually to keep abreast of continual waste inventory and projection changes in both the government and commercial sectors. Baseline information is provided for DOE program planning purposes and to support DOE program decisions. Although the primary purpose of this document is to provide background information for program planning within the DOE community, it has also been found useful by state and local governments, the academic community, and some private citizens. To sustain the objectives of this program in providing accurate and complete data in this field of operation, comments and suggestions to improve the quality and coverage are encouraged. Such comments and any general inquiries should be directed to the U.S. Department of Energy at either of the following:

Office of Civilian Radioactive Waste Management
Route Symbol RW-44
1000 Independence Avenue, SW
Washington, DC 20585-0001

Office of Environmental Management
Route Symbol EM-332 or 432
Trevion II
Washington, DC 20585-0002

This report was prepared by the Integrated Data Base Program, which is jointly sponsored by the DOE Office of Civilian Radioactive Waste Management and the DOE Office of Environmental Management. Suggestions, questions, and requests for information may be directed to any of the following:

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An important part of the Integrated Data Base Program is the Steering Committee, whose members provide both generic guidance and technical input. The membership of this committee, shown on the following page, represents all of the major DOE sites and programs for spent nuclear fuel and radioactive waste management. Each support committee member is assisted by a technical liaison as needed. The participation and assistance of these individuals are acknowledged with appreciation.

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Office of Environmental Management

3. TRANSURANIC WASTE

3.1 INTRODUCTION

This chapter presents information on the inventories and characteristics of transuranic waste (TRUW) at various DOE waste generator and/or storage sites in the United States. TRUW is a waste category specific to DOE; it does not apply to wastes regulated by the U.S. Nuclear Regulatory Commission. DOE Order 5820.2A defines TRUW as waste that (1) is contaminated with alpha-emitting transuranic (TRU) (i.e., atomic numbers greater than 92) radionuclides with half-lives greater than 20 years and (2) contains a total concentration of such radionuclides in excess of 100 nCi/g of waste at the time of assay.[1]

DOE Order 5820.2A also states that heads of field elements can determine that other alpha-contaminated waste at the site(s) may be managed as TRUW.[1] As a consequence of this provision, wastes containing radionuclides such as ^{233}U, ^{241}Pu, and ^{244}Cm, which do not meet the strict definition of TRU radionuclides because of their respective atomic numbers or half-lives, may be managed as TRUW at some sites.

Most TRUW exists in solid form (e.g., items such as protective clothing, paper, rags, glass, miscellaneous tools, and equipment that have become contaminated with TRU radionuclides).[2] Some TRUW is in the form of sludges or liquids resulting from chemical processing for recovery of plutonium or other TRU elements.[2] Some of the liquids have been solidified, and some sludges have been dewatered. All sludge and liquid wastes scheduled for disposal in the Waste Isolation Pilot Plant (WIPP) will be solidified prior to shipment to meet the current WIPP waste acceptance criteria.[3]

Before 1970, TRUW was disposed of on-site in shallow, landfill-type, DOE-owned burial sites. TRUW disposed of in this manner is referred to as "buried" TRUW. In 1970, DOE's predecessor agency, the U.S. Atomic Energy Commission, concluded that waste containing long-lived alpha-emitting radionuclides should have greater confinement from the environment. Thus, TRUW generated since the early 1970s has been segregated from other waste types and placed in retrievable storage pending shipment and final disposal in a permanent geologic repository.[4] This waste is referred to as "retrievably stored" TRUW.

Retrievably stored waste is contained in a variety of packagings (e.g., metal drums and wooden and metal boxes) and is stored in various facilities such as earth-mounded berms, concrete culverts, buildings, and on outdoor pads. Many of these facilities have been upgraded and are now in compliance with applicable hazardous waste storage regulations.

TRUW packages are classified as either "contact handled" (CH) or "remote handled" (RH), depending on the radiation level at the surface of the package at the time of packaging. If this level exceeds 200 mrem/h, the package is classified as RH TRUW.

CH TRUW contains relatively small quantities of fission and activation products that produce highly penetrating radiation; typically, its emissions consists mostly of alpha particles and some neutrons and primarily low-energy gamma and X-rays. RH TRUW typically contains a greater proportion of fission and activation products that produce highly penetrating radiation and produce a higher level of radiation at the surface of the package.

TRUW waste which contains, in addition to radioactive constituents, hazardous constituents defined and regulated in accordance with the Resource Conservation and Recovery Act (RCRA) is defined as mixed TRUW. Examples of mixed TRUW are radionuclide-contaminated sludges from plutonium recovery, discarded materials contaminated with both solvents and radioactive materials, scintillation fluids, and discarded contaminated lead shielding. Mixed TRUW must be managed to comply with both the applicable hazardous waste regulations (e.g., RCRA), as well as the regulations applying only to radioactive TRUW.

Some TRUW may also be contaminated with hazardous materials defined by regulations other than RCRA (e.g., Toxic Substances Control Act and state regulations). Once identified, DOE continues to manage these wastes appropriately to meet all other hazardous waste regulations in addition to RCRA (if applicable).

Under existing arrangements, retrievably stored TRUW is the responsibility of the DOE Office of Waste

Management (EM-30). It is planned that the retrievably stored TRUW and newly generated TRUW from routine site operational activities will be shipped to WIPP for disposal; whereas, buried TRUW and TRUW generated from site remediation activities and decontamination and decommissioning (D&D) activities are the responsibility of the Office of Environmental Restoration (EM-40). (See Chapter 6 of this document for a discussion of environmental restoration wastes.)

3.2 TRUW INVENTORIES

3.2.1 Sources of Data

Quantitative information contained in this chapter is derived from data furnished by the DOE sites in response to the integrated data call issued for Rev. 10 of this report[5] and Rev. 1 of the *Waste Isolation Pilot Plant Transuranic Waste Baseline Inventory Report* (WTWBIR)[2] (Sect. 3.2.3.1). As programs and plans evolve or are changed, modifications or additions will be made to the data and other information in this chapter. It is expected that the quality and accuracy of the data will improve with each annual revision of this document, thus improving the usefulness of the data for program planning and decision purposes.

Early TRUW inventory practices were not as stringent as current ones with regard to requirements for waste identification, categorization, and segregation. Consequently, early inventory data are based largely on process knowledge and on various studies and summaries related to site-specific practices.[6] As these efforts continue and TRUW is further characterized, there may be revisions in the estimated overall quantities of TRUW.

3.2.2 Site Locations—Summarized Volumes and Radioactivity

TRUW management activities (generation, retrievable storage, etc.) are performed at 10 major sites and 13 small-quantity sites (SQS). Figure 3.1 shows the locations of the DOE's TRUW generator and/or storage sites. Tables 3.1–3.10 and Figs. 3.2–3.5, which are discussed later in this chapter, summarize the distribution of retrievably stored and projected TRUW in its final form at various DOE generator and storage sites. Unlike previous versions of this report, the volumes reported in this revision are final-form volumes (i.e., after the sites process, treat, or repackage the waste). Tables 3.11 and 3.12 provide a breakdown of the major TRUW radionuclides by radioactivity. These tables display the decayed radioactivities that have been estimated from the data reported by the sites for retrievably stored CH and RH TRUW, as of December 31, 1993. A breakdown for CH and RH TRUW in terms of decayed mass is provided in Tables 3.13 and 3.14, respectively.

3.2.3 Development of Detailed Inventory Data

To optimize its resources and to enhance data quality, DOE integrated the TRUW data needs of the IDB report (Rev. 10)[5] with those of the WTWBIR, Rev. 1,[2] in forming a joint data call to the sites.[7] The information contained in this chapter is a summary of the detailed data gathered through this integrated data-call process and is based on the TRUW final-form-volume projections, as reported in the WTWBIR, Rev. 1.[2] For a complete set of the information collected, refer to the source documents.

The WTWBIR, Rev. 1,[2] describes the disposal inventory of TRUW to be emplaced in WIPP, as defined by the DOE TRUW generator and/or storage sites. This information will be used to support the development of various compliance applications for the operations and postclosure phases of the WIPP repository. To meet the needs of the WTWBIR, site data were collected at the waste-stream level in both their initial and final forms. The data were grouped by similar physical and chemical properties and aggregated to produce estimated total volumes of the waste.

To maintain continuity with the previous revision of the IDB, Table 3.1 presents the changes in reported retrievably stored volumes between the IDB and the WTWBIR. The first column in this table presents the volumes at the end of 1993 that were reported in the previous revision of the IDB (Rev. 10).[5] The next two columns present updated estimates of this same volume (i.e., end of 1993 data) in terms of both initial and final forms, respectively, as reported in the WTWBIR, Rev. 1.[2] The data derived from the WTWBIR, Rev. 1,[2] and reported in subsequent tables in this chapter include the final-form volumes at the end of 1993, and the projected increase in these final-form volumes from 1994 through 2022. In addition, the volumes reported in the attached tables are higher for some sites than those reported in the WTWBIR, Rev. 1,[2] because these volumes include some TRUW regulated under TSCA that was not included in the WIPP inventory defined in WTWBIR, Rev. 1.[2]

Because the radionuclide inventory is not yet available for each waste stream, the radionuclide data in this chapter are derived from the data submittal in support of Rev. 10 of the IDB report.[5] Also taken from the IDB report are the volume data for buried TRUW (Table 3.15), TRU-contaminated soil (Table 3.16), and the retrievably stored TRUW (as of the end of 1993) that is shown in Table 3.1.

The remaining data are compiled from data presented earlier in Rev. 1 of the WTWBIR.[2]

3.2.3.1 Site data submittal process

As stated previously, all of the quantitative TRUW information presented in this chapter was derived from the data received from the sites in response to the integrated WTWBIR–IDB data call. In response to the data call, the sites provided waste stream profiles for each waste stream in their respective current and projected inventories through 2022. The waste stream profiles included such information as waste stream description, initial- and final-form volumes, specific container data, and estimates of the amount of various materials present in the waste (e.g., iron-based metals and alloys, cellulosics, plastics, etc.). In addition, the sites were provided with a list of acceptable final waste forms for disposal at WIPP and asked to assign the appropriate final waste form to each waste stream. The assignment of final waste form helps to identify the general physical and chemical properties of the final form for each waste stream.

The sites provided radionuclide compositions and curies of each radionuclide added in each year of TRUW accumulation. The annual radioactivities in the site submittals were on an as-stored basis; that is, they represent the curies of each radionuclide added each year at the end of the year in which the waste was placed in storage. Only the cumulative site radioactivities have been included in this chapter. For a complete set of references for the TRUW site data submittals, see ref. 7 of Sect. 3.5.

3.2.3.2 Site data review and modification

The site data submittals for TRUW were reviewed to make certain, to the greatest extent possible, that the data supplied met the requirements of completeness and consistency. The data review process included modifying the formats of the data so that they could be easily converted to input data files.

In support of the WTWBIR, waste streams at each TRUW generator and/or storage site that were assigned the same final waste form were grouped together to form site-specific waste profiles. These profiles provide a condensed summary of the volume and waste material information found in the waste stream profiles for each site. Site-specific waste profiles with the same final waste form were then combined for all the TRUW generator and/or storage sites to produce WIPP waste profiles. The summary tables and figures presented in this chapter are based on the detailed waste stream profile data reported in the WTWBIR., Rev. 1.[2]

3.2.3.3 As-stored TRUW volumes

Tables 3.2–3.14 and Figs. 3.2–3.5 summarize a small portion of the information in the WTWBIR site submittals. These tables show the volumes and decayed radioactivities of retrievably stored CH and RH TRUW at each site at the end of 1993, projected generation from 1994 through 2022, and the ending volume inventory amounts at the end of 2022. Each table is constructed to highlight a different aspect of TRUW characteristics.

Table 3.2 shows the total estimated TRUW inventory in storage at the end of 1993 and projected through 2022 for each DOE site, and Tables 3.3–3.8 show the breakup of this total inventory into total CH TRUW (Table 3.3), mixed CH TRUW (Table 3.4), nonmixed CH TRUW (Table 3.5), total RH TRUW (Table 3.6), mixed RH TRUW (Table 3.7), and nonmixed RH TRUW (Table 3.8). The information in these tables is also presented graphically in Figs. 3.2–3.5.

Tables 3.9 and 3.10 show the volumes of TRUW at each site distributed among the 11 final waste forms (plus unknown) defined in the WTWBIR, Rev. 1.[2] Table 3.9 shows the final waste form distribution for the major sites, whereas Table 3.10 presents the same for the SQS.

3.2.3.4 Calculation of annual decayed radioactivities

Decayed radioactivities shown in Rev. 10 of the IDB report[5] were calculated by the ORNL computer code RADAC, using the end-of-1993 data submitted to the IDB by the sites. This code converts the annual as-stored radioactivities to annual decayed radioactivities and accumulates these quantities to produce tables showing decayed grams, curies, and watts on a year-by-year, site-by-site, and radionuclide-by-radionuclide basis. Annual added volumes and cumulative volumes are also calculated. Volumes are assumed to be unaffected by decay.

In some cases, the site data were not sufficiently detailed to permit the desired decay calculations. The difficulty most frequently encountered was that radionuclide compositions were not adequately specified on a radionuclide-by-radionuclide basis. In such cases, data conversion codes were used to convert site input data to the radionuclide-specific forms required for decay calculations. The procedures followed in making these adjustments follow accepted precedents set in previous IDB editions and are described in Rev. 9 of the IDB report.[5]

3.2.4 Results of Radionuclide Inventory Calculations

For the purposes of this report, primary radionuclides are those that cumulatively contribute 98% of either the total radionuclide activity or mass.

3.2.4.1 Retrievably stored wastes

Tables 3.11–3.14 show the distribution of the primary TRUW radionuclides for all the DOE sites (decayed to the end of 1993) for both CH TRUW and RH TRUW both by radioactivity and by mass. As shown in these tables, ^{238}Pu, ^{241}Pu, ^{239}Pu, ^{241}Am, and ^{240}Pu cumulatively contribute more than 98% of the total activity for the CH TRUW (Table 3.11), whereas ^{238}U, ^{232}Th, ^{239}Pu, ^{235}U, and ^{242}Pu contribute more than 98% of the total radionuclide mass for CH TRUW (Table 3.13). Similar information on RH TRUW and on the relative distribution of both the radioactivity and mass of the primary radionuclides for the various DOE sites can also be derived from Tables 3.12 and 3.14.

3.2.4.2 Buried TRUW

Table 3.15 summarizes the buried TRUW volumes and associated radioactivity, both as-stored and as-decayed. Buried TRUW volumes and radioactivities shown in Table 3.15 are based on data provided in the site submittals. The form of the site-submitted data for buried waste is identical to that of the retrievably stored waste except that no distinction is made between CH and RH buried wastes. Table 3.15 shows both cumulative as-stored and as-decayed radioactivities for all nuclides, as well as for TRU nuclides only.

3.2.4.3 Contaminated soil

Over the years, many of the older buried waste containers have developed leaks and contaminated the adjacent soil. Also, at some sites, soil has become contaminated by liquid spills or has been used as an ion-exchange medium for dilute liquid waste streams. It is difficult to make accurate estimates of the actual quantity of the contaminated soil. The data reported by the sites are shown in Table 3.16. Additional characterization efforts will be required to reduce the uncertainties of this data.

3.3 PROJECTED FUTURE QUANTITIES OF TRUW

Tables 3.2–3.10 show the data submitted by the sites for estimated future volumes of TRUW generation. The sites were not requested to estimate the radioactivities or isotopic compositions of these wastes because it was believed that there would be little basis for such estimates. The estimated volumes are given in terms of average annual rates (m^3/year) for four time periods from 1994 to 1997 and for two cumulative time periods (1998–2002 and 2003–2022).

3.4 TRUW DISPOSAL

The goals of the DOE TRUW Program are to terminate interim storage and achieve permanent disposal of DOE TRUW.[9] As stated in Public Law 96-164,[10] WIPP was to be constructed ". . . as a defense activity of the DOE for the purpose of providing a research and development facility to demonstrate the safe disposal of radioactive waste resulting from defense activities and programs of the United States." Construction of the facility is essentially complete, and WIPP is now the only facility specifically designed for isolation of TRUW. It is designed to contain about 175,000 m^3 (6.2 million ft^3)[11] of TRUW 650 m below ground in a mined salt formation.

Waste received at WIPP must meet the WIPP waste acceptance criteria and associated quality assurance requirements specified in WIPP/DOE-069.[3] A number of other approvals remain to be completed before DOE can begin disposal operations at the facility. DOE is committed to demonstrating compliance with all applicable regulations before the permanent disposal of TRUW in the WIPP repository. These regulations are the environmental standards for management and disposal of TRU wastes, as mandated in 40 CFR Part 191 (ref. 12) and Part 194 (ref. 13), and the RCRA regulations. Compliance will be demonstrated through performance assessment calculations based on the inventory of existing and currently projected waste streams as reported by the DOE TRUW generator and/or storage sites in the WTWBIR, Rev. 1.[2]

In 1992 the WIPP Legislative Land Withdrawal Act[11] was passed, confirming congressional intent to have DOE continue with development and permitting of the facility. Since then, DOE has stated its intent to accelerate processes leading to the start of waste disposal operations at the WIPP.

3.5 REFERENCES

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7. DOE site TRUW data submittal attachments, submitted to the IDB Program and WTWBIR Project. The following TRUW submittals were received and reviewed by the IDB Program and WTWBIR Project before analysis and integration. Preceding each submittal is the site (in parentheses) to which it refers.

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   b. (ANL-E) Michael Sodaro, Argonne National Laboratory, Argonne, Illinois, correspondence to Jeff Williams, DOE Carlsbad Area Office, Carlsbad, New Mexico, "WIPP TRU Baseline Inventory Report and Integrated Database Forecasts," dated Sept. 30, 1994.

   c. (ANL-W) Nancy Stewart and Roy Grant, Argonne National Laboratory-West, Idaho Falls, Idaho, correspondence to E. W. Krieger, MAC Technical Services Company, Albuquerque, New Mexico, transmitting site data for inclusion into the IDB report (Rev. 10) and WTWBIR (Rev. 1), dated Jan. 17, 1995.

   d. (BAPL) E. D. Shollenberger, DOE Pittsburgh Naval Reactors Office, West Mifflin, Pennsylvania, correspondence to Mark L. Matthews, DOE Carlsbad Area Office, Carlsbad, New Mexico, "Waste Isolation Pilot Project Transuranic Waste (TRU) Baseline Inventory Report and Updated Integrated Database TRU Information for the Bettis Atomic Power Laboratory," dated Oct. 21, 1994.

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   g. (ETEC) G. G. Gaylord, Rockwell International Corporation, Canoga Park, California, correspondence to Mark L. Matthews, DOE Carlsbad Area Office, Carlsbad, New Mexico, "TRU Inventory at ETEC," 94ETEC-DRF-1667, dated Oct. 31, 1994.

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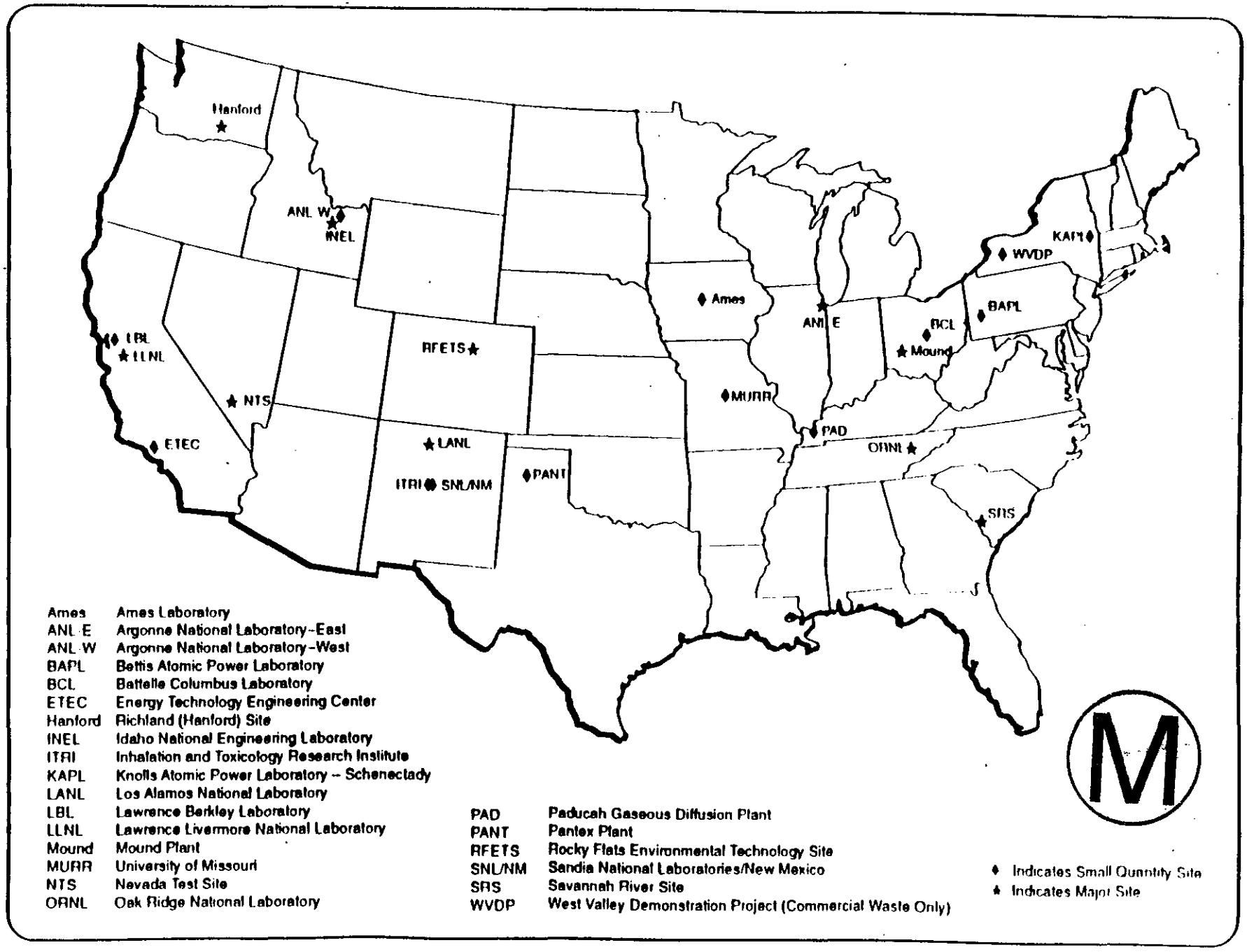
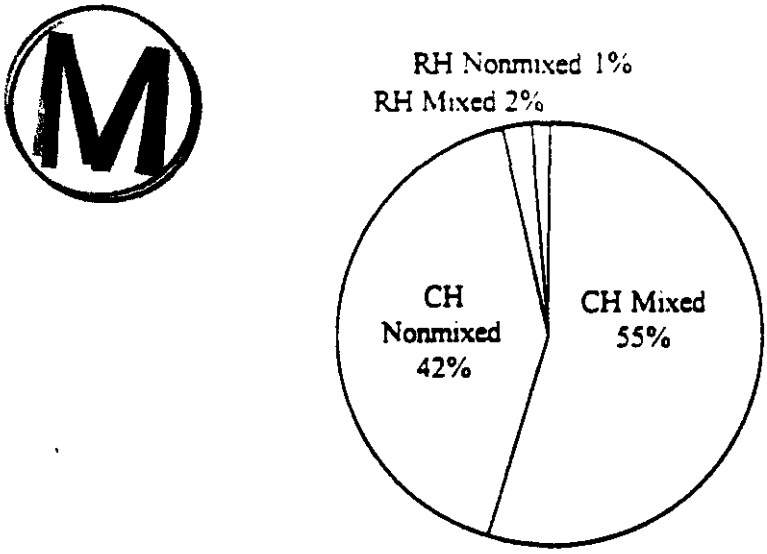
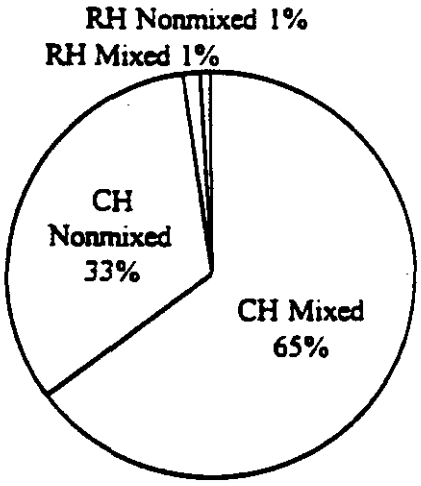


Fig. 3.1. U.S. Department of Energy transuranic waste generation/storage sites.

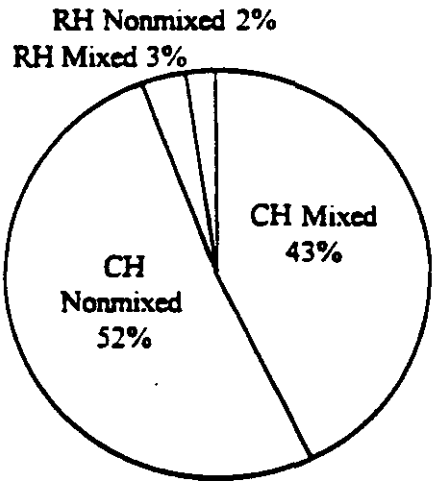
ORNL-DWG 95-1590R



Total TRUW at End of 2022



Total Stored TRUW

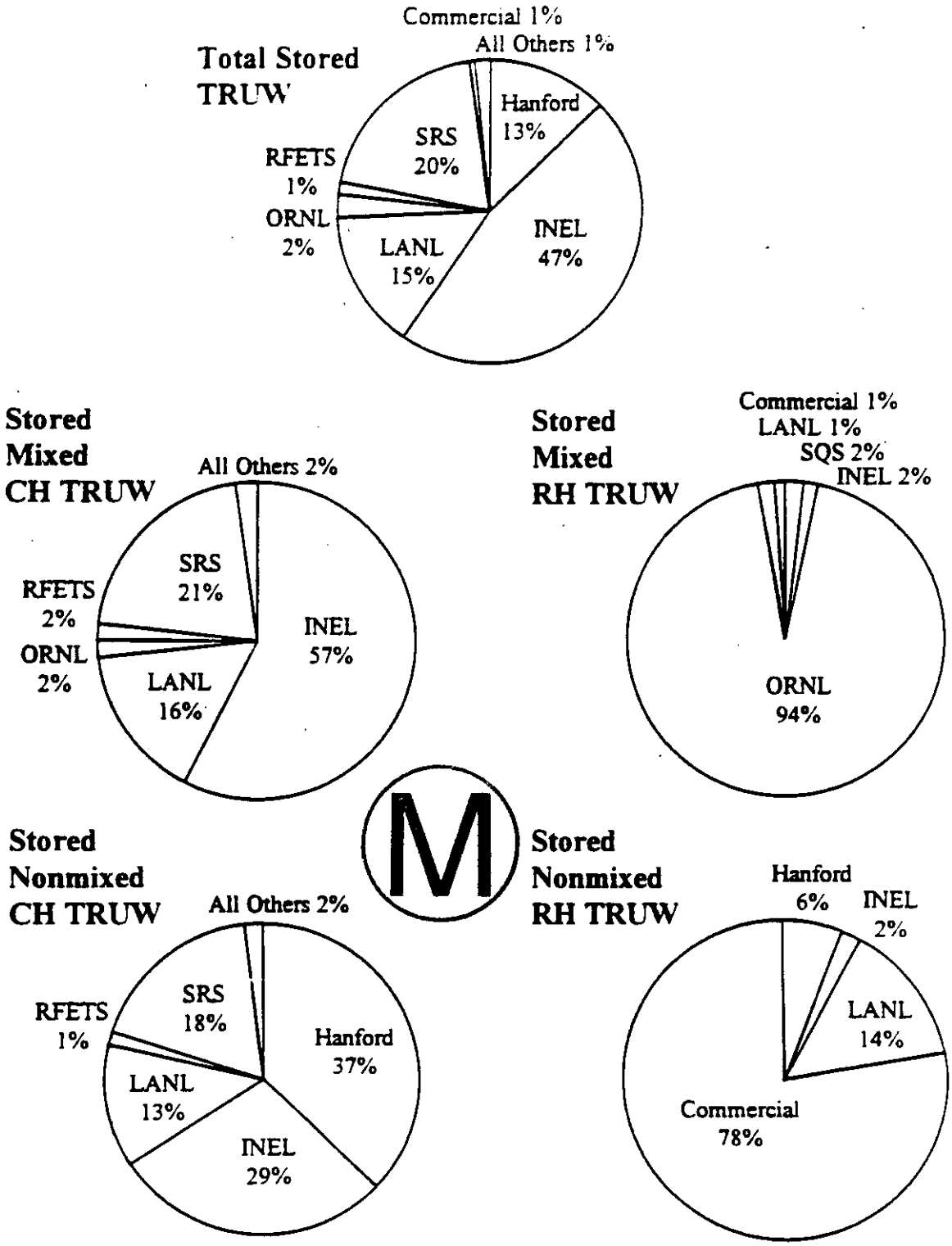


Total Projected TRUW

NOTE: All amounts shown are for final waste form

Fig. 3.2. Retrievably stored and projected TRUW volumes by radioactivity classification.

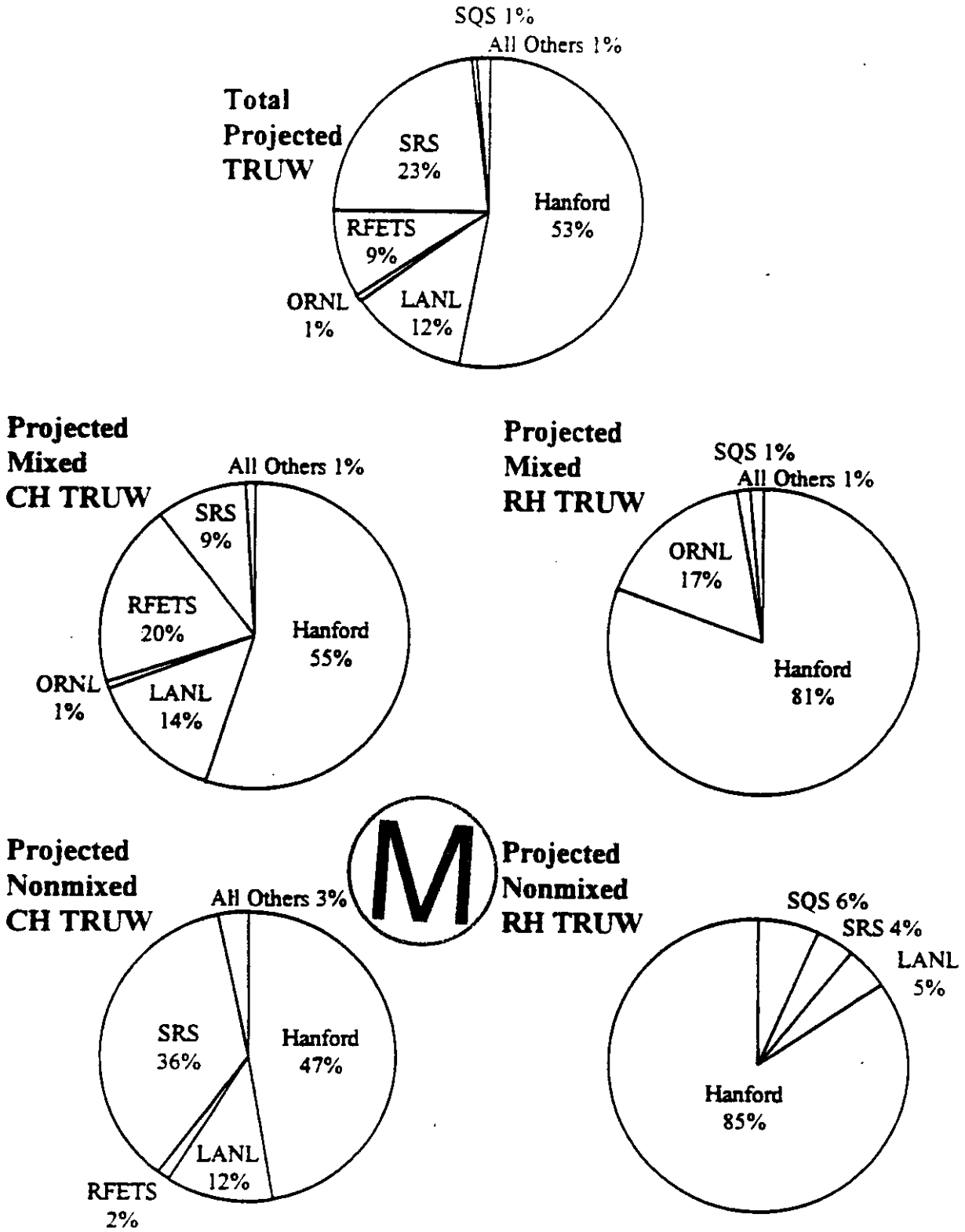
ORNL DWG 95-1591R



NOTE: All amounts shown are for final waste form

Fig. 3.3. Retrievably stored TRUW volumes by site.

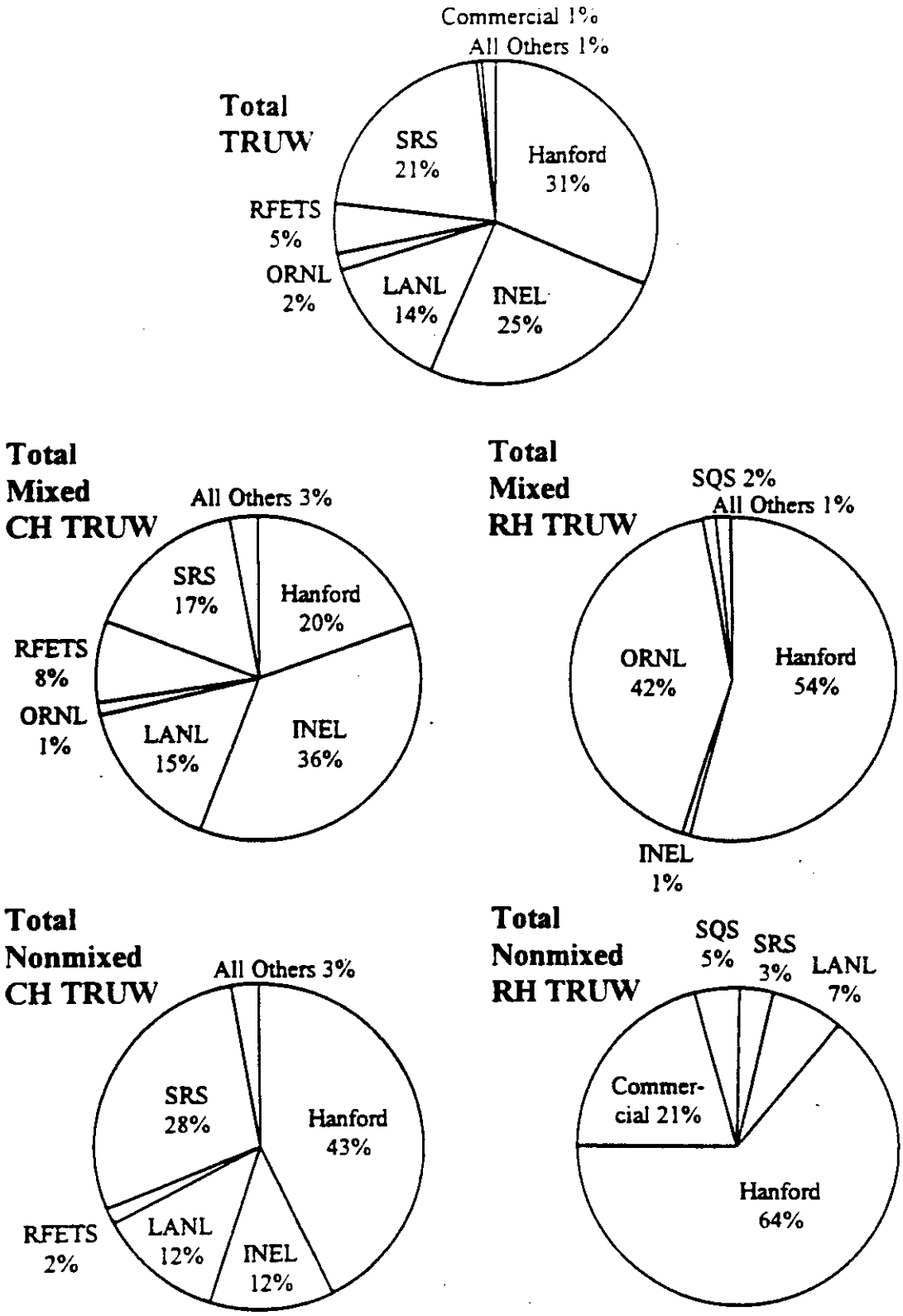
ORNL-DWG 95-1592



NOTE: All amounts shown are for final waste form

Fig. 3.4. Projected TRUW volumes by site.

ORNL DWG 95-1593R



NOTE: All amounts shown are for final waste form

Fig. 3.5. Estimated TRUW volumes by end of year 2022.

Table 3.1. Comparison of IDB and WTWBIR retrievably stored volumes of TRUW[a,b]

(Volumes are expressed in m^3)

Site	Contact-handled TRUW			Remote-handled TRUW		
	As stored		In final form	As stored		In final form
	1993 IDB[c]	1993 WTWBIR[d]	1993 WTWBIR[d]	1993 IDB[c]	1993 WTWBIR[d]	1993 WTWBIR[d]
Major sites						
ANL-E	2.91E+01	2.91E+01	2.91E+01	1.70E+00	0.00E+00[e]	0.00E+00
Hanford	1.56E+04	8.06E+03[f]	9.39E+03[g]	2.01E+02	3.20E+01[h]	3.32E+01[g]
INEL	6.48E+04	3.92E+04[f]	3.47E+04[g]	7.98E+01	3.10E+01[i]	3.10E+01
LANL	1.08E+04	1.09E+04	1.09E+04	9.13E+01	9.13E+01	9.13E+01
LLNL	2.35E+02	2.24E+02	2.24E+02	0.00E+00	0.00E+00	0.00E+00
Mound	1.19E+01	2.63E+02[i]	2.63E+02	0.00E+00	0.00E+00	0.00E+00
NTS	6.07E+02	6.13E+02	6.20E+02[g]	5.30E+00	0.00E+00	0.00E+00
ORNL	2.02E+03	7.83E+02[i]	7.83E+02	5.64E+02	9.94E+02[i]	9.94E+02
RFETS	1.04E+03	1.06E+03	1.13E+03[g]	0.00E+00	0.00E+00	0.00E+00
SRS	8.93E+03	9.34E+03[i]	1.46E+04[g]	0.00E+00	0.00E+00	0.00E+00
Subtotal	1.04E+05	7.04E+04	7.26E+04	9.43E+02	1.15E+03	1.15E+03
Small-quantity sites						
Ames	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANL-W	0.00E+00	2.00E-02[j]	2.00E-02	0.00E+00	8.65E+00[j]	8.65E+00
BCL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BAPL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ETEC	1.90E+00	1.87E+00	1.87E+00	0.00E+00	0.00E+00	0.00E+00
KAPL	0.00E+00	2.40E+00[i]	2.40E+00	2.40E+00	1.12E+01[i]	1.12E+01
LBL	9.00E-01	8.40E-01	8.40E-01	0.00E+00	0.00E+00	0.00E+00
MURR	1.00E-01	6.00E-02[i]	6.00E-02	0.00E+00	0.00E+00	0.00E+00
PAD	4.30E+00	2.10E+00[i]	3.45E+00[g]	0.00E+00	0.00E+00	0.00E+00
PANT	6.00E-01	6.24E-01	6.24E-01	0.00E+00	0.00E+00	0.00E+00
SNL/NM	9.00E-01	8.04E+00[i]	8.04E+00	9.00E-01	0.00E+00[i]	0.00E+00
Subtotal	8.70E+00	1.60E+01	1.73E+01	3.30E+00	1.99E+01	1.99E+01

Table 3.1 (continued)

Site	Contact-handled TRUW			Remote-handled TRUW		
	As stored		In final form	As stored		In final form
	1993 IDB[c]	1993 WTWBIR[d]	1993 WTWBIR[d]	1993 IDB[c]	1993 WTWBIR[d]	1993 WTWBIR[d]
Commercial site						
WVDP	4.91E+01	5.06E+01	5.06E+01	4.27E+02	4.27E+02	4.27E+02
Total	1.04E+05	7.05E+04	7.26E+04	1.37E+03	1.59E+03	1.60E+03

[a]Small changes between the 1993 IDB and 1993 WTWBIR (as stored) volumes are expected because of anticipated rounding methods and differences in reporting methodologies. Volumes reported by the IDB are the as-stored volumes shown by the sites in their data submittals to the IDB.

[b]Some volumes of TSCA waste are included in this table that are not included in the WIPP inventory defined in WTWBIR, Rev. 1. See Tables 3.3, 3.4, and 3.5 for details.

[c]See ref. 5.

[d]See ref. 2.

[e]Volume reported in Hanford submittal.

[f]Adjusted to delete α-LLW volume included in previous IDB submittals.

[g]Difference between "as-stored" and "final-form" volumes primarily caused by volume expansion from repackaging for WIPP waste acceptance criteria (WAC) compliance. INEL shows an overall decrease in volume because of thermal processing of some waste streams.

[h]Approximately 200 m^3 reported with CH-TRUW inventory are from waste streams containing both CH TRUW and RH TRUW (ref. 2, WTWBIR, Rev. 1, Table 6-1).

[i]Volume differences resulting from revised inventory assessment.

[j]Volume previously included in INEL submittal.

Table 3.2. Summary of final waste-form volumes (m^3) of retrievably stored and projected TRUW (mixed and nonmixed CH and RH wastes)[a,b]

Site	EOY[c] 1993	Annual increase				Cumulative increase		Projected increase	Total EOY 2022
		1994	1995	1996	1997	1998–2002	2003–2022	1994–2022	
Major sites									
ANL-E	2.91E+01	1.68E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E+00	3.08E+01
Hanford	9.42E+03	1.71E+02	4.91E+02	6.19E+02	1.91E+02	1.29E+03	3.11E+04	3.38E+04	4.33E+04
INEL	3.47E+04	0.00E+00	6.00E-01	6.00E-01	1.60E+00	3.00E+00	1.20E+01	1.78E+01	3.47E+04
LANL	1.10E+04	2.66E+02	2.77E+02	2.77E+02	2.77E+02	1.34E+03	5.32E+03	7.76E+03	1.87E+04
LLNL	2.24E+02	2.11E+01	2.50E+01	2.50E+01	2.50E+01	1.25E+02	5.00E+02	7.21E+02	9.45E+02
Mound	2.63E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E+02
NTS	6.20E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E+02
ORNL	1.78E+03	2.14E+01	2.14E+01	2.14E+01	2.14E+01	1.07E+02	4.28E+02	6.21E+02	2.40E+03
RFETS	1.13E+03	6.64E+01	1.22E+02	9.31E+01	2.58E+01	1.40E+02	5.45E+03	5.90E+03	7.03E+03
SRS	1.46E+04	5.13E+02	5.11E+02	5.11E+02	5.11E+02	2.56E+03	1.02E+04	1.48E+04	2.94E+04
Subtotal	7.37E+04	1.06E+03	1.45E+03	1.55E+03	1.05E+03	5.56E+03	5.30E+04	6.37E+04	1.37E+05
Small-quantity sites									
Ames	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	1.00E-01	1.00E-01
ANL-W	8.67E+00	2.24E+00	8.60E-01	1.20E+00	1.76E+00	7.01E+00	2.04E+01	3.35E+01	4.21E+01
BCL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E+01	0.00E+00	7.10E+01	7.10E+01
BAPL	0.00E+00	0.00E+00	7.28E-01	2.68E+01	1.74E+01	7.65E+01	3.90E+00	1.25E+02	1.25E+02
ETEC	1.87E+00	0.00E+00	5.20E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E+00	7.07E+00
KAPL	1.36E+01	8.70E-01	8.70E-01	8.70E-01	8.70E-01	4.35E+00	1.74E+01	2.52E+01	3.89E+01
LBL	8.40E-01	0.00E+00	4.20E-01	0.00E+00	0.00E+00	8.00E-01	3.20E+00	4.42E+00	5.26E+00
MURR	6.00E-02	8.00E-02	8.00E-02	8.00E-02	1.36E+00	0.00E+00	0.00E+00	1.60E+00	1.66E+00
PAD	3.45E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E+00
PANT	6.24E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-01
SNL/NM	8.04E+00	0.00E+00	5.00E+00	0.00E+00	0.00E+00	1.00E+00	1.00E+00	7.00E+00	1.50E+01
Subtotal	3.72E+01	3.19E+00	1.32E+01	2.90E+01	2.14E+01	1.61E+02	4.60E+01	2.73E+02	3.11E+02
Commercial site									
WVDP	4.78E+02	5.46E+01	2.93E+01	6.33E+00	6.33E+00	9.04E+01	0.00E+00	1.87E+02	6.64E+02
Total	*7.42E+04*	*1.12E+03*	*1.49E+03*	*1.58E+03*	*1.08E+03*	*5.81E+03*	*5.31E+04*	*6.41E+04*	*1.38E+05*

[a]Any small differences in volumes reported in this table and in WTWBIR, Rev. 1 (ref. 2) and in the numerical totals shown result from rounding.

[b]Some volumes of TSCA-contaminated wastes are included in this table that are not included in WTWBIR, Rev. 1 (ref. 2). See Tables 3.3, 3.4, and 3.5 for details.

[c]EOY = end of (calendar) year.

Table 3.3. Summary of final waste-form volumes (m^3) of retrievably stored and projected mixed and nonmixed CH TRUW[a]

Site	EOY[b] 1993	Annual increase				Cumulative increase		Projected increase	Total EOY 2022
		1994	1995	1996	1997	1998–2002	2003–2022	1994–2022	
Major sites									
ANL-E	2.91E+01	1.68E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E+00	3.08E+01
Hanford	9.39E+03[c]	1.69E+02	3.88E+02	5.80E+02	1.82E+02	1.19E+03	2.83E+04	3.09E+04[d]	4.02E+04
INEL	3.47E+04	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	0.00E+00	1.00E+00	3.47E+04
LANL	1.09E+04	2.54E+02	2.65E+02	2.65E+02	2.65E+02	1.33E+03	5.30E+03	7.67E+03	1.85E+04
LLNL	2.24E+02[e]	2.11E+01	2.50E+01	2.50E+01	2.50E+01	1.25E+02	5.00E+02	7.21E+02[f]	9.45E+02
Mound	2.63E+02[g]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E+02
NTS	6.20E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E+02
ORNL	7.83E+02	9.10E+00	9.10E+00	9.10E+00	9.10E+00	4.55E+01	1.82E+02	2.64E+02	1.05E+03
RFETS	1.13E+03	6.64E+01	1.22E+02	9.31E+01	2.58E+01	1.40E+02	5.45E+03	5.90E+03	7.03E+03
SRS	1.46E+04	5.09E+02	5.09E+02	5.09E+02	5.09E+02	2.55E+03	1.02E+04	1.48E+04	2.94E+04
Subtotal	7.26E+04	1.03E+03	1.32E+03	1.48E+03	1.02E+03	5.37E+03	5.00E+04	6.02E+04	1.33E+05
Small-quantity sites									
Ames	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	1.00E-01	1.00E-01
ANL-W	2.00E-02	1.92E+00	4.40E-01	4.40E-01	4.40E-01	2.20E+00	4.00E-01	5.84E+00	5.86E+00
BCL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BAPL	0.00E+00	0.00E+00	4.16E-01	2.66E+01	1.71E+01	7.59E+01	3.80E+00	1.24E+02	1.24E+02
ETEC	1.87E+00	0.00E+00	5.20E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E+00	7.07E+00
KAPL	2.40E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E+00
LBL	8.40E-01	0.00E+00	4.20E-01	0.00E+00	0.00E+00	8.00E-01	3.20E+00	4.42E+00	5.26E+00
MURR	6.00E-02	8.00E-02	8.00E-02	8.00E-02	1.36E+00	0.00E+00	0.00E+00	1.60E+00	1.66E+00
PAD	3.45E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E+00
PANT	6.24E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-01
SNL/NM	8.04E+00	0.00E+00	5.00E+00	0.00E+00	0.00E+00	1.00E+00	1.00E+00	7.00E+00	1.50E+01
Subtotal	1.73E+01	2.00E+00	1.16E+01	2.71E+01	1.89E+01	7.99E+01	8.50E+00	1.48E+02	1.65E+02

Table 3.3 (continued)

Site	EOY[b] 1993	Annual increase				Cumulative increase		Projected increase	Total EOY 2022
		1994	1995	1996	1997	1998–2002	2003–2022	1994–2022	
Commercial site									
WVDP	5.06E+01	5.46E+01	2.93E+01	6.33E+00	6.33E+00	9.04E+01	0.00E+00	1.87E+02	2.37E+02
Total	7.26E+04	1.09E+03	1.36E+03	1.52E+03	1.04E+03	5.54E+03	5.00E+04	6.05E+04	1.33E+05

[a]Any small differences in volumes reported in this table and in WTWBIR, Rev. 1 (ref. 2) and in the numerical totals shown result from rounding.
[b]EOY = end of (calendar) year.
[c]7.42E+01 m^3 (approximately) of TSCA waste included from Table 3-2, WTWBIR, Rev. 1 (ref. 2).
[d]9.67E+03 m^3 (approximately) of TSCA waste included from Table 3-2, WTWBIR, Rev. 1 (ref. 2).
[e]1.68E+01 m^3 (approximately) of TSCA waste included from Table 3-2, WTWBIR, Rev. 1 (ref. 2).
[f]3.26E+01 m^3 (approximately) of TSCA waste included from Table 3-2, WTWBIR, Rev. 1 (ref. 2).
[g]8.00E-01 m^3 (approximately) of TSCA waste included from Table 3-2, WTWBIR, Rev. 1 (ref. 2).

Table 3.4. Final waste-form volumes (m^3) of retrievably stored and projected mixed CH TRUW[a]

Site	EOY[b] 1993	Annual increase				Cumulative increase		Projected increase	Total EOY 2022
		1994	1995	1996	1997	1998–2002	2003–2022	1994–2022	
Major sites									
ANL-E	6.21E+00	5.60E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-01	6.77E+00
Hanford	2.10E+02[c]	1.41E+01	3.13E+01	4.60E+01	1.39E+01	1.39E+02	1.49E+04	1.51E+04[d]	1.54E+04
INEL	2.76E+04	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	0.00E+00	1.00E+00	2.76E+04
LANL	7.66E+03	1.24E+02	1.35E+02	1.35E+02	1.35E+02	6.75E+02	2.70E+03	3.90E+03	1.16E+04
LLNL	7.92E+00	6.24E-01	1.57E+00	1.57E+00	1.57E+00	7.87E+00	3.15E+01	4.47E+01	5.26E+01
Mound	2.70E+00[e]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E+00
NTS	6.20E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E+02
ORNL	7.83E+02	9.10E+00	9.10E+00	9.10E+00	9.10E+00	4.55E+01	1.82E+02	2.64E+02	1.05E+03
RFETS	8.28E+02	4.69E+01	7.49E+01	6.09E+01	2.21E+01	1.13E+02	5.07E+03	5.38E+03	6.21E+03
SRS	1.01E+04	8.84E+01	8.84E+01	8.84E+01	8.84E+01	4.42E+02	1.77E+03	2.56E+03	1.27E+04
Subtotal	4.79E+04	2.84E+02	3.40E+02	3.41E+02	2.71E+02	1.42E+03	2.47E+04	2.73E+04	7.52E+04
Small-quantity sites									
Ames	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	1.00E-01	1.00E-01
ANL-W	2.00E-02	1.92E+00	2.00E-02	2.00E-02	2.00E-02	1.00E-01	4.00E-01	2.48E+00	2.50E+00
BCL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BAPL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ETEC	2.10E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-01
KAPL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LBL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MURR	6.00E-02	8.00E-02	8.00E-02	8.00E-02	1.36E+00	0.00E+00	0.00E+00	1.60E+00	1.66E+00
PAD	3.45E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E+00
PANT	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SNL/NM	1.04E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E+00
Subtotal	4.78E+00	2.00E+00	1.00E-01	1.00E-01	1.38E+00	1.00E-01	5.00E-01	4.18E+00	8.96E+00
Commercial site									
WVDP	3.19E+01	4.36E+01	2.38E+01	7.90E-01	7.90E-01	6.27E+01	0.00E+00	1.32E+02	1.64E+02
Total	4.79E+04	3.29E+02	3.64E+02	3.42E+02	2.73E+02	1.48E+03	2.47E+04	2.74E+04	7.54E+04

[a]Any small differences in volumes reported in this table and in WTWBIR, Rev. 1 (ref. 2) and in the numerical totals shown result from rounding.
[b]EOY = end of (calendar) year.
[c]7.40E+01 m^3 (approximately) of TSCA waste included from Table 3-2, WTWBIR, Rev. 1 (ref. 2).
[d]9.62E+03 m^3 (approximately) of TSCA waste included from Table 3-2, WTWBIR, Rev. 1 (ref. 2).
[e]2.00E-01 m^3 (approximately) of TSCA waste included from Table 3-2, WTWBIR, Rev. 1 (ref. 2).

Table 3.5. Final waste-form volumes (m^3) of retrievably stored and projected nonmixed CH TRUW[a]

Site	EOY[b] 1993	Annual increase				Cumulative increase		Projected increase	Total EOY 2022
		1994	1995	1996	1997	1998–2002	2003–2022	1994–2022	
Major sites									
ANL-E	2.29E+01	1.12E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E+00	2.40E+01
Hanford	9.18E+03[c]	1.55E+02	3.56E+02	5.34E+02	1.68E+02	1.05E+03	1.34E+04	1.57E+04[d]	2.49E+04
INEL	7.02E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E+03
LANL	3.20E+03	1.30E+02	1.30E+02	1.30E+02	1.30E+02	6.50E+02	2.60E+03	3.77E+03	6.97E+03
LLNL	2.16E+02[e]	2.05E+01	2.34E+01	2.34E+01	2.34E+01	1.17E+02	4.68E+02	6.76E+02[f]	8.92E+02
Mound	2.61E+02[g]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E+02
NTS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ORNL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RFETS	3.05E+02	1.96E+01	4.67E+01	3.22E+01	3.67E+00	2.70E+01	3.88E+02	5.17E+02	8.22E+02
SRS	4.47E+03	4.21E+02	4.21E+02	4.21E+02	4.21E+02	2.10E+03	8.42E+03	1.22E+04	1.67E+04
Subtotal	2.47E+04	7.47E+02	9.77E+02	1.14E+03	7.46E+02	3.95E+03	2.53E+04	3.29E+04	5.76E+04
Small-quantity sites									
Ames	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANL-W	0.00E+00	0.00E+00	4.20E-01	4.20E-01	4.20E-01	2.10E+00	0.00E+00	3.36E+00	3.36E+00
BCL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BAPL	0.00E+00	0.00E+00	4.16E-01	2.66E+01	1.71E+01	7.59E+01	3.80E+00	1.24E+02	1.24E+02
ETEC	1.66E+00	0.00E+00	5.20E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E+00	6.86E+00
KAPL	2.40E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E+00
LBL	8.40E-01	0.00E+00	4.20E-01	0.00E+00	0.00E+00	8.00E-01	3.20E+00	4.42E+00	5.26E+00
MURR	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PAD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PANT	6.24E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-01
SNL/NM	7.00E+00	0.00E+00	5.00E+00	0.00E+00	0.00E+00	1.00E+00	1.00E+00	7.00E+00	1.40E+01
Subtotal	1.25E+01	0.00E+00	1.15E+01	2.70E+01	1.75E+01	7.98E+01	8.00E+00	1.44E+02	1.56E+02

Table 3.5 (continued)

Site	EOY[b] 1993	Annual increase				Cumulative increase		Projected increase	Total EOY 2022
		1994	1995	1996	1997	1998–2002	2003–2022	1994–2022	
Commercial site									
WVDP	1.87E+01	1.10E+01	5.54E+00	5.54E+00	5.54E+00	2.77E+01	0.00E+00	5.53E+01	7.40E+01
Total	2.47E+04	7.58E+02	9.94E+02	1.17E+03	7.69E+02	4.06E+03	2.53E+04	3.31E+04	5.78E+04

[a]Any small differences in volumes reported in this table and in WTWBIR, Rev. 1 (ref. 2) and in the numerical totals shown result from rounding.
[b]EOY = end of (calendar) year.
[c]2.00E-01 m^3 (approximately) of TSCA waste included from Table 3-2, WTWBIR, Rev. 1 (ref. 2).
[d]2.70 E+00 m^3 (approximately) of TSCA waste included from Table 3-2, WTWBIR, Rev. 1 (ref. 2).
[e]1.68E+01 m^3 (approximately) of TSCA waste included from Table 3-2, WTWBIR, Rev. 1 (ref. 2).
[f]3.26E+01 m^3 (approximately) of TSCA waste included from Table 3-2, WTWBIR, Rev. 1 (ref. 2).
[g]6.00E-01 m^3 (approximately) of TSCA waste included from Table 3-2, WTWBIR, Rev. 1 (ref. 2).

Table 3.6. Summary of final waste-form volumes (m^3) of retrievably stored and projected mixed and nonmixed RH TRUW[a]

Site	EOY[b] 1993	Annual increase				Cumulative increase		Projected increase	Total EOY 2022
		1994	1995	1996	1997	1998–2002	2003–2022	1994–2022	
Major sites									
ANL-E	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hanford	3.32E+01	2.00E+00	1.03E+02	3.90E+01	8.76E+00	1.00E+02	2.72E+03	2.97E+03	3.01E+03
INEL	3.10E+01	0.00E+00	6.00E-01	6.00E-01	6.00E-01	3.00E+00	1.20E+01	1.68E+01	4.78E+01
LANL	9.13E+01	1.17E+01	1.17E+01	1.17E+01	1.17E+01	1.19E+01	2.40E+01	8.27E+01	1.74E+02
LLNL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mound	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NTS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ORNL	9.94E+02	1.23E+01	1.23E+01	1.23E+01	1.23E+01	6.15E+01	2.46E+02	3.57E+02	1.35E+03
RFETS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SRS	0.00E+00	4.00E+00	2.14E+00	2.14E+00	2.14E+00	1.05E+01	4.30E+01	6.39E+01	6.39E+01
Subtotal	1.15E+03	3.00E+01	1.30E+02	6.57E+01	3.55E+01	1.87E+02	3.05E+03	3.49E+03	4.64E+03
Small-quantity sites									
Ames	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANL-W	8.65E+00	3.20E-01	4.20E-01	7.56E-01	1.32E+00	4.81E+00	2.00E+01	2.76E+01	3.63E+01
BCL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E+01	0.00E+00	7.10E+01	7.10E+01
BAPL	0.00E+00	0.00E+00	3.12E-01	2.08E-01	3.12E-01	6.25E-01	1.00E-01	1.56E+00	1.56E+00
ETEC	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KAPL	1.12E+01	8.70E-01	8.70E-01	8.70E-01	8.70E-01	4.35E+00	1.74E+01	2.52E+01	3.65E+01
LBL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MURR	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PAD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PANT	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SNL/NM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Subtotal	1.99E+01	1.19E+00	1.60E+00	1.83E+00	2.50E+00	8.08E+01	3.75E+01	1.25E+02	1.45E+02
Commercial site									
WVDP	4.27E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E+02
Total	1.60E+03	3.12E+01	1.31E+02	6.76E+01	3.80E+01	2.68E+02	3.08E+03	3.62E+03	5.22E+03

[a]Any small differences in volumes reported in this table and in WTWBIR, Rev. 1 (ref. 2) and in the numerical totals shown result from rounding
[b]EOY = end of (calendar) year.

Table 3.7. Final waste-form volumes (m^3) of retrievably stored and projected mixed RH TRUW[a]

Site	EOY[b] 1993	Annual increase				Cumulative increase		Projected increase	Total EOY 2022
		1994	1995	1996	1997	1998–2002	2003–2022	1994–2022	
Major sites									
ANL-E	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hanford	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E+00	2.02E+01	1.70E+03	1.73E+03	1.73E+03
INEL	2.12E+01	0.00E+00	6.00E-01	6.00E-01	6.00E-01	3.00E+00	1.20E+01	1.68E+01	3.80E+01
LANL	1.50E+01	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+01	1.50E+01	3.00E+01
LLNL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mound	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NTS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ORNL	9.94E+02	1.23E+01	1.23E+01	1.23E+01	1.23E+01	6.15E+01	2.46E+02	3.57E+02	1.35E+03
RFETS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SRS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Subtotal	1.03E+03	1.33E+01	1.39E+01	1.39E+01	2.07E+01	8.57E+01	1.97E+03	2.12E+03	3.15E+03
Small-quantity sites									
Ames	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANL-W	8.65E+00	3.20E-01	4.20E-01	4.20E-01	4.20E-01	3.10E-01	2.00E+00	3.89E+00	1.25E+01
BCL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BAPL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ETEC	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KAPL	1.12E+01	8.70E-01	8.70E-01	8.70E-01	8.70E-01	4.35E+00	1.74E+01	2.52E+01	3.65E+01
LBL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MURR	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PAD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PANT	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SNL/NM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Subtotal	1.99E+01	1.19E+00	1.29E+00	1.29E+00	1.29E+00	4.66E+00	1.94E+01	2.91E+01	4.90E+01
Commercial site									
WVDP	1.05E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E+01
Total	1.06E+03	1.45E+01	1.52E+01	1.52E+01	2.20E+01	9.03E+01	1.99E+03	2.15E+03	3.21E+03

[a]Any small differences in volumes reported in this table and in WTWBIR, Rev. 1 (ref. 2) and in the numerical totals shown result from rounding
[b]EOY = end of (calendar) year.

Table 3.8. Final waste-form volumes (m^3) of retrievably stored and projected nonmixed RH TRUW[a]

Site	EOY[b] 1993	Annual increase				Cumulative increase		Projected increase	Total EOY 2022
		1994	1995	1996	1997	1998–2002	2003–2022	1994–2022	
Major sites									
ANL-E	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hanford	3.32E+01	2.00E+00	1.03E+02	3.90E+01	2.00E+00	8.00E+01	1.02E+03	1.25E+03	1.28E+03
INEL	9.76E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E+00
LANL	7.63E+01	1.07E+01	1.07E+01	1.07E+01	1.07E+01	1.09E+01	1.40E+01	6.77E+01	1.44E+02
LLNL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mound	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NTS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ORNL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RFETS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SRS	0.00E+00	4.00E+00	2.14E+00	2.14E+00	2.14E+00	1.05E+01	4.30E+01	6.39E+01	6.39E+01
Subtotal	1.19E+02	1.67E+01	1.16E+02	5.18E+01	1.48E+01	1.01E+02	1.08E+03	1.38E+03	1.50E+03
Small-quantity sites									
Ames	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANL-W	0.00E+00	0.00E+00	0.00E+00	3.36E-01	9.00E-01	4.50E+00	1.80E+01	2.37E+01	2.37E+01
BCL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E+01	0.00E+00	7.10E+01	7.10E+01
BAPL	0.00E+00	0.00E+00	3.12E-01	2.08E-01	3.12E-01	6.25E-01	1.00E-01	1.56E+00	1.56E+00
ETEC	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KAPL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LBL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MURR	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PAD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PANT	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SNL/NM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Subtotal	0.00E+00	0.00E+00	3.12E-01	5.44E-01	1.21E+00	7.61E+01	1.81E+01	9.63E+01	9.63E+01
Commercial site									
WVDP	4.16E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E+02
Total	5.36E+02	1.67E+01	1.16E+02	5.24E+01	1.61E+01	1.78E+02	1.10E+03	1.47E+03	2.01E+03

[a]Any small differences in volumes reported in this table and in WTWBIR, Rev. 1 (ref. 2) and in the numerical totals shown result from rounding.
[b]EOY = end of (calendar) year.

Table 3.9. Estimated final-form volume (m^3) composition of retrievably stored and projected TRUW for major sites[a]

Major sites	Category	Contact-handled			Remote-handled		
		Stored	Projected	Total	Stored	Projected	Total
ANL-E	Lead/cadmium metal waste	1.10	0.00	1.10	0.00	0.00	0.00
	Solidified inorganics	23.05	1.12	24.17	0.00	0.00	0.00
	Solidified organics	0.03	0.00	0.03	0.00	0.00	0.00
	Uncategorized metal	4.96	0.56	5.52	0.00	0.00	0.00
	Subtotal	29.14	1.68	30.82	0.00	0.00	0.00
Hanford	Combustible	530.07[a]	12,698.57[b]	13,228.64	0.00	0.00	0.00
	Heterogeneous	8,568.55	827.16	9,395.71	33.16	2,973.71	3,006.87
	Lead/cadmium metal waste	3.13	0.29	3.42	0.00	0.00	0.00
	Soils	111.69	309.27	420.96	0.00	0.00	0.00
	Solidified inorganics	2.93[c]	3,153.57[d]	3,156.50	0.00	0.00	0.00
	Solidified organics	4.48[e]	31.44[f]	35.92	0.00	0.00	0.00
	Uncategorized metal	170.17[g]	13,837.04[h]	14,007.21	0.00	0.00	0.00
	Subtotal	9,391.02	30,857.34	40,248.36	33.16	2,973.71	3,006.87
INEL	Combustible	670.90	0.00	670.90	0.00	0.00	0.00
	Filter	323.56	0.00	323.56	0.00	0.00	0.00
	Graphite	650.70	0.00	650.70	0.00	0.00	0.00
	Heterogeneous	9,649.50	1.00	9,650.50	13.63	2.80	16.43
	Inorganic nonmetal	1,052.89	0.00	1,052.89	0.00	0.00	0.00
	Lead/cadmium metal waste	0.00	0.00	0.00	0.00	5.60	5.60
	Salt Waste	22.91	0.00	22.91	0.00	2.80	2.80
	Soils	3.80	0.00	3.80	0.00	0.00	0.00
	Solidified inorganics	12,164.28	0.00	12,164.28	2.10	0.00	2.10
	Solidified organics	912.60	0.00	912.60	0.00	0.00	0.00
	Uncategorized metal	7,564.09	0.00	7,564.09	4.11	5.60	9.71
	Unknown	1,655.91	0.00	1,655.91	11.13	0.00	11.13
	Subtotal	34,671.14	1.00	34,672.14	30.97	16.80	47.77
LANL	Combustible	1,768.33	2,464.60	4,232.93	14.84	3.16	18.00
	Soils	109.37	144.60	253.97	0.00	0.00	0.00
	Solidified inorganics	4,848.38	2,059.03	6,907.41	0.00	0.00	0.00
	Uncategorized metals	4,134.80	3,006.17	7,140.97	76.46	79.50	155.96
	Subtotal	10,860.88	7,674.40	18,535.28	91.30	82.66	173.96
LLNL	Combustible	48.88	372.32	421.20	0.00	0.00	0.00
	Filter	16.63[i]	32.63[j]	49.26	0.00	0.00	0.00
	Salt waste	0.62	2.91	3.53	0.00	0.00	0.00
	Solidified inorganics	13.30	66.15	79.45	0.00	0.00	0.00
	Uncategorized metal	144.33	247.00	391.33	0.00	0.00	0.00
	Subtotal	223.76	721.01	944.77	0.00	0.00	0.00

Table 3.9 (continued)

Major sites	Category	Contact-handled			Remote-handled		
		Stored	Projected	Total	Stored	Projected	Total
Mound	Combustible	5.61	0.00	5.61	0.00	0.00	0.00
	Heterogeneous	1.04[k]	0.00	1.04	0.00	0.00	0.00
	Inorganic nonmetal	0.21[l]	0.00	0.21	0.00	0.00	0.00
	Soils	146.88	0.00	146.88	0.00	0.00	0.00
	Solidified inorganics	7.28	0.00	7.28	0.00	0.00	0.00
	Uncategorized metal	102.28	0.00	102.28	0.00	0.00	0.00
	Subtotal	263.30	0.00	263.30	0.00	0.00	0.00
NTS	Heterogeneous	619.50	0.00	619.50	0.00	0.00	0.00
ORNL	Heterogeneous	672.98	263.90	936.88	382.81	182.70	565.51
	Solidified inorganics	110.00	0.00	110.00	611.00	174.00	785.00
	Subtotal	782.98	263.90	1,046.88	993.81	356.70	1,350.51
RFETS	Filter	103.96	1,087.59	1,191.55	0.00	0.00	0.00
	Graphite	18.06	43.40	61.46	0.00	0.00	0.00
	Heterogeneous	312.86	804.58	1,117.44	0.00	0.00	0.00
	Inorganic nonmetal	110.68	318.68	429.36	0.00	0.00	0.00
	Lead/cadmium metal waste	51.87	124.18	176.05	0.00	0.00	0.00
	Salt waste	9.45	56.60	66.05	0.00	0.00	0.00
	Solidified inorganics	228.63	2,988.11	3,216.74	0.00	0.00	0.00
	Solidified organics	132.80	48.82	181.62	0.00	0.00	0.00
	Uncategorized metal	164.82	429.50	594.32	0.00	0.00	0.00
	Subtotal	1,133.13	5,901.46	7,034.59	0.00	0.00	0.00
SRS	Combustible	4,066.80	11,962.50	16,029.30	0.00	0.00	0.00
	Heterogeneous	10,132.20	2,563.60	12,695.80	0.00	63.92	63.92
	Solidified inorganics	0.04	0.00	0.04	0.00	0.00	0.00
	Solidified organics	404.85	240.70	645.55	0.00	0.00	0.00
	Subtotal	14,603.89	14,766.80	29,370.69	0.00	63.92	63.92
	Major sites total	72,578.74	60,187.59	132,766.33	1,149.24	3,493.79	4,643.03

[a]Includes 3.59 m^3 of TSCA waste not shown in the WTWBIR, Rev. 1 (ref. 2).
[b]Includes 429.54 m^3 of TSCA waste not shown in the WTWBIR, Rev. 1 (ref. 2).
[c]Includes 1.47 m^3 of TSCA waste not shown in the WTWBIR, Rev. 1 (ref. 2).
[d]Includes 228.81 m^3 of TSCA waste not shown in the WTWBIR, Rev. 1 (ref. 2).
[e]Includes 2.31 m^3 of TSCA waste not shown in the WTWBIR, Rev. 1 (ref. 2).
[f]Includes 16.19 m^3 of TSCA waste not shown in the WTWBIR, Rev. 1 (ref. 2).
[g]Includes 66.82 m^3 of TSCA waste not shown in the WTWBIR, Rev. 1 (ref. 2).
[h]Includes 8,946.09 m^3 of TSCA waste not shown in the WTWBIR, Rev. 1 (ref. 2).
[i]Includes 16.63 m^3 of TSCA waste not shown in the WTWBIR, Rev. 1 (ref. 2).
[j]Includes 32.63 m^3 of TSCA waste not shown in the WTWBIR, Rev. 1 (ref. 2).
[k]Includes 0.62 m^3 of TSCA waste not shown in the WTWBIR, Rev. 1 (ref. 2).
[l]Includes 0.21 m^3 of TSCA waste not shown in the WTWBIR, Rev. 1 (ref. 2).

Table 3.10. Estimated final-form volume (m^3) composition of retrievably stored and projected TRUW for small-quantity and commercial sites[a]

Major sites	Category	Contact-handled			Remote-handled		
		Stored	Projected	Total	Stored	Projected	Total
		Small-quantity sites (SQS)					
Ames	Solidified inorganics	0.00	0.10	0.10	0.00	0.00	0.00
ANL-W	Filter	0.00	0.00	0.00	0.89	2.09	2.98
	Heterogeneous	0.00	3.36	3.36	0.59	0.08	0.67
	Lead/cadmium metal waste	0.02	2.48	2.50	0.00	0.36	0.36
	Uncategorized metal	0.00	0.00	0.00	7.17	1.36	8.53
	Unknown	0.00	0.00	0.00	0.00	23.74	23.74
	Subtotal	0.02	5.84	5.86	8.65	27.63	36.28
BCL	Heterogeneous	0.00	0.00	0.00	0.00	71.00	71.00
BAPL	Heterogeneous	0.00	123.82	123.82	0.00	1.56	1.56
ETEC	Heterogeneous	1.66	5.20	6.86	0.00	0.00	0.00
	Lead/cadmium metal waste	0.21	0.00	0.21	0.00	0.00	0.00
	Subtotal	1.87	5.20	7.07	0.00	0.00	0.00
KAPL	Heterogeneous	2.40	0.00	2.40	11.23	25.23	36.46
LBL	Heterogeneous	0.84	4.42	5.26	0.00	0.00	0.00
MURR	Heterogeneous	0.06	1.60	1.66	0.00	0.00	0.00
PAD	Solidified inorganics	3.45	0.00	3.45	0.00	0.00	0.00
PANT	Heterogeneous	0.62	0.00	0.62	0.00	0.00	0.00
SNL/NM	Heterogeneous	8.04	7.00	15.04	0.00	0.00	0.00
	SQS subtotal[a]	17.30	147.98	165.28	19.88	125.41	145.30
		Commercial site					
WVDP	Filter	18.97	131.63	150.60	0.00	0.00	0.00
	Heterogeneous	14.76	55.28	70.04	0.00	0.00	0.00
	Lead/cadmium metal waste	0.21	0.00	0.21	0.00	0.00	0.00
	Solidified inorganics	4.57	0.00	4.57	0.00	0.00	0.00
	Solidified organics	0.42	0.00	0.42	0.00	0.00	0.00
	Uncategorized metal	0.42	0.00	0.42	416.46	0.00	416.46
	Unknown	11.23	0.00	11.23	10.49	0.00	10.49
	Commercial site subtotal[a]	50.57	186.91	237.48	426.95	0.00	426.95
	Total	72,646.61	60,522.48	133,169.09	1,596.08	3,619.20	5,215.28

[a]Any small differences in volumes reported in this table and in WTWBIR, Rev. 1 (ref. 2) and in the numerical totals shown result from rounding.

Table 3.11. Summary of decayed radioactivity isotopic content of retrievably stored CH TRUW[a]

Site	^{238}Pu	^{241}Pu	^{239}Pu	^{241}Am	^{240}Pu	^{137}Cs	Sum of curies	Curies (%)
				Major sites				
ANL-E	2.14E+00	5.98E+01	3.28E+01	5.73E+00	9.42E+00		1.10E+02	0.01
Hanford	8.18E+04	9.43E+04	2.70E+04	2.98E+03	6.06E+03	7.03E+02	2.13E+05	14.11
INEL	6.07E+04	1.65E+05	4.01E+04	8.98E+04	9.82E+03	6.32E+01	3.65E+05	24.19
LANL	1.15E+05	1.77E+00	7.33E+04	8.70E+03	1.52E-01	5.32E+01	1.97E+05	13.08
LLNL	1.97E+01	1.67E+03	1.46E+02	1.26E+02	6.06E+01	1.99E-06	2.03E+03	0.13
Mound	7.16E+02		1.99E+02				9.14E+02	0.06
NTS	1.98E+02	2.64E+02	2.76E+03	2.84E+02	1.87E+01	3.97E-01	3.53E+03	0.23
ORNL	6.78E+03	5.52E+04	7.95E+02	2.33E+03	7.25E+02	2.17E+03	6.80E+04	4.51
RFETS	3.47E+02	5.72E+04	9.93E+03	1.08E+04	7.21E+03		8.55E+04	5.66
SRS	4.71E+05	6.30E+04	8.56E+03	1.60E+04	2.12E+03	6.77E-01	5.61E+05	37.16
Subtotal	7.37E+05	4.36E+05	1.63E+05	1.31E+05	2.60E+04	2.99E+03	1.50E+06	99.14
				Small-quantity sites (SQS)				
Ames								
ANL-W								
BCL								
BAPL								
ETEC	1.12E-01	8.06E+00	1.76E+00	4.43E-01	6.01E-01	2.40E-01	1.12E+01	0.00
KAPL								
LBL	2.36E-04	2.89E-07	7.70E-03	9.20E-02	5.07E-03		1.05E-01	0.00
MURR			2.05E-02	4.80E-02			6.85E-02	0.00
PAD			5.56E+01				5.56E+01	0.00
PANT			5.55E-02				5.55E-02	0.00
SNL/NM			2.00E-06	1.00E-02			1.00E-02	0.00
Subtotal	1.12E-01	8.06E+00	5.75E+01	5.93E-01	6.06E-01	2.40E-01	6.71E+01	0.00
				Commercial site				
WVDP		3.43E+01		2.15E+00		1.95E+00	3.84E+01	0.00
Total (all sites)	7.37E+05	4.37E+05	1.63E+05	1.31E+05	2.60E+04	3.00E+03	1.50E+06	99.15
Total Ci, %	48.84	28.92	10.79	8.68	1.72	0.20		
Cumulative, %	48.84	77.76	88.55	97.23	98.95	99.15		

[a]Any small differences in volumes reported in this table and in WTWBIR, Rev. 1 (ref. 2) and in the numerical totals shown result from rounding.

Table 3.12. Summary of decayed radioactivity (Ci) isotopic content of retrievably stored RH TRUW[a]

Site	^{90}Sr	^{90}Y	^{137}Cs	^{137m}Ba	^{152}Eu	^{60}Co	^{154}Eu	^{241}Pu	^{244}Cm	^{155}Eu	Sum of curies	Curies (%)
Major sites												
ANL-E			1.18E+01	1.12E+01				8.23E-01			2.38E+01	0.01
Hanford	5.74E+03	5.74E+03	6.67E+03	6.31E+03	2.83E+02	4.77E+03	1.43E+03	4.58E+03		5.76E+02	3.61E+04	10.37
INEL	1.78E+03	1.78E+03	1.99E+03	1.88E+03	2.07E-02	1.68E+01	8.20E-01	5.30E+01		3.32E-01	7.49E+03	2.15
LANL	2.69E+03	2.69E+03	2.95E+03	2.79E+03	5.96E-04	5.43E+00	4.34E-02			5.45E+01	1.12E+04	3.21
LLNL												
Mound												
NTS								7.26E-05	1.68E+02		1.68E+02	0.05
ORNL	9.71E+04	9.71E+04	3.90E+04	3.69E+04	8.75E+03	1.73E+03	4.57E+03	1.03E-07	1.78E+03	9.37E+02	2.88E+05	82.69
RFETS												
SRS												
Subtotal	1.07E+05	1.07E+05	5.07E+04	4.79E+04	9.04E+03	6.52E+03	6.01E+03	4.63E+03	1.95E+03	1.57E+03	3.43E+05	98.48
Small-quantity sites (SQS)												
Ames												
ANL-W												
BCL												
BAPL												
ETEC												
KAPL	2.46E+01	2.46E+01	2.47E+01	2.33E+01	3.62E-06	1.14E-01	3.56E-04	2.00E-01		8.11E-03	9.76E+01	0.03
LBL												
MURR												
PAD												
PANT												
SNL/NM												
Subtotal	2.46E+01	2.46E+01	2.47E+01	2.33E+01	3.62E-06	1.14E-01	3.56E-04	2.00E-01		8.11E-03	9.76E+01	0.03
Commercial site												
WVDP												
Total (all sites)	1.07E+05	1.07E+05	5.07E+04	4.79E+04	9.04E+03	6.52E+03	6.01E+03	4.63E+03	1.95E+03	1.57E+03	3.43E+05	98.51
Total Ci, %	30.82	30.82	14.56	13.77	2.60	1.87	1.72	1.33	0.56	0.45		
Cumulative, %	30.82	61.65	76.20	89.98	92.57	94.44	96.17	97.50	98.06	98.51		

[a]Any small differences in volumes reported in this table and in WTWBIR, Rev. 1 (ref. 2) and in the numerical totals shown result from rounding.

Table 3.13. Summary of decayed mass (g) isotopic content of retrievably stored CH TRUW[a]

Site	^{238}U	^{232}Th	^{239}Pu	^{235}U	^{242}Pu	^{233}U	^{240}Pu	Sum of mass	Mass (%)
				Major sites					
ANL-E	1.59E+02	1.48E-09	5.27E+02	2.75E+02	2.62E+00	3.10E+00	4.13E+01	1.01E+03	0.00
Hanford	1.80E+07	5.82E+05	4.35E+05	2.63E+05	9.70E+01	8.18E+03	2.66E+04	1.93E+07	73.79
INEL	3.44E+05	3.01E+06	6.45E+05	2.85E+04	2.47E+02	9.28E+04	4.31E+04	4.16E+06	15.90
LANL	1.20E+04	2.19E+04	1.18E+06	1.93E+05	1.33E+05	4.61E+03	6.65E-01	1.54E+06	5.90
LLNL	1.05E+03	3.37E-09	2.34E+03	6.10E+01	5.04E+00	2.26E-07	2.66E+02	3.72E+03	0.01
Mound			3.20E+03	9.51E-01				3.20E+03	0.01
NTS	1.66E+02	4.19E-09	4.44E+04	2.60E+01	2.28E+01	1.87E+02	8.21E+01	4.49E+04	0.17
ORNL	1.05E+05	3.12E+05	1.28E+04	3.04E+03	1.43E+03	9.22E+03	3.18E+03	4.47E+05	1.71
RFETS		2.97E-07	1.60E+05	1.30E+01		7.78E-06	3.16E+04	1.91E+05	0.73
SRS	1.56E+04	9.41E+04	1.38E+05	2.52E+03	9.82E+01	9.14E-01	9.29E+03	2.59E+05	0.99
Subtotal	1.85E+07	4.02E+06	2.62E+06	4.91E+05	1.35E+05	1.15E+05	1.14E+05	2.60E+07	99.22
				Small-quantity sites (SQS)					
Ames									
ANL-W									
BCL									
BAPL									
ETEC			2.83E+01		1.05E-02		2.64E+00	3.10E+01	0.00
KAPL									
LBL	4.55E-05	3.37E-12	1.24E-01	1.75E-05	2.64E+00	4.97E-01	2.23E-02	3.28E+00	0.00
MURR	2.97E-04		3.29E-01					3.30E-01	0.00
PAD			8.95E+02					8.95E+02	0.00
PANT			8.93E-01					8.93E-01	0.00
SNL/NM			3.22E-05	2.73E-09		5.99E-13		3.22E-05	0.00
Subtotal	3.43E-04	3.37E-12	9.24E+02	1.75E-05	2.65E+00	4.97E-01	2.66E+00	9.30E+02	0.00
				Commercial site					
WVDP						7.77E-09		7.77E-09	0.00
Total (all sites)	1.85E+07	4.02E+06	2.62E+06	4.91E+05	1.35E+05	1.15E+05	1.14E+05	2.60E+07	99.22
Total mass, %	70.59	15.35	10.01	1.87	0.52	0.44	0.44		
Cumulative, %	70.59	85.95	95.96	97.83	98.35	98.79	99.22		

[a]Any small differences in volumes reported in this table and in WTWBIR, Rev. 1 (ref. 2) and in the numerical totals shown result from rounding

Table 3.14. Summary of decayed mass (g) isotopic content of retrievably stored RH TRUW[a]

Site	^{238}U	^{235}U	Sum of mass	Mass (%)
ANL-E				
Hanford	3.07E+04		3.07E+04	0.33
INEL	4.11E+03		4.11E+03	0.04
LANL	5.95E+01		5.95E+01	0.00
LLNL				
Mound				
NTS	4.25E-12		4.25E-12	0.00
ORNL	6.46E+06	2.62E+06	9.08E+06	98.98
RFETS				
SRS				
Subtotal	6.49E+06	2.62E+06	9.11E+06	99.36
Small-quantity sites (SQS)				
Ames				
ANL-W				
BCL				
BAPL				
ETEC				
KAPL	2.95E-09		2.95E-09	0.00
LBL				
MURR				
PAD				
PANT				
SNL/NM				
Subtotal	2.95E-9		2.95E-09	0.00
Commercial site				
WVDP				
Total	6.49E+06	2.62E+06	9.11E+06	99.36
Total mass, %	70.80	28.57		
Cumulative, %	70.80	99.36		

[a]Any small differences in volumes reported in this table and WTWBIR, Rev. 1 (ref. 2) and in the numerical totals shown result from rounding.

Table 3.15. Summary of buried TRUW volume and radioactivity as of December 31, 1993[a]

Site	Cumulative volume (m^3)	Cumulative as-stored radioactivity		Decayed radioactivity	
		All nuclides (10^3 Ci)	TRU only (10^3 Ci)	All nuclides (10^3 Ci)	TRU only (10^3 Ci)
		Major sites			
ANL-E	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Hanford	6.36E+04	6.02E+02	1.14E+02	1.73E+02	9.38E+01
INEL	5.71E+04	2.49E+02	b	b	b
LANL	1.40E+04	c	d	c	c
LLNL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mound	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NTS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ORNL	1.76E+02	2.40E-01	1.00E-01	5.43E+02	2.00E-01
RFETS	0.00E-00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SRS	4.87E+03	3.37E+01	3.37E+01	3.05E+01	3.05E+01
Subtotal	1.40E+05	8.84E+02	1.48E+02	7.47E+02	1.25E+02
		Small-quantity sites (SQS)			
Ames	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANL-W	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BCL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BAPL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ETEC	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KAPL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LBL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MURR	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PAD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PANT	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SNL/NM	1.33E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Subtotal	1.33E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Commercial site			
WVDP	1.35E+03	6.52E+02	6.52E+02	0.00E+00	0.00E+00
Total	1.41E+05	1.54E+03	8.00E+02	7.47E+02	1.25E+02

[a]Any small differences in volumes reported in this table and in WTWBIR, Rev. 1 (ref. 2) and in the numerical totals shown result from rounding. See ref. 5.

[b]INEL data did not include any isotopic compositions, so no TRU isotope or decay calculations could be made.

[c]Information not available.

[d]An estimate of 9230 Ci was reported for LANL as-stored TRU alpha radioactivity (as of the end of CY 1991) in *Integrated Data Base for 1992: U.S. Spent Fuel and Radioactive Waste Inventories, Projections, and Characteristics*, DOE/RW-0006, Rev. 8 (October 1992).

Table 3.16. Volumes and radioactivities of TRU-contaminated soils[a]

Site	Soil contaminated with TRUW			
	Solid		Liquid	
	Volume (m^3)	Radioactivity (Ci)	Volume (m^3)	Radioactivity (Ci)
		Major sites		
ANL-E	0	0	0	0
Hanford	b	b	32,000	80,591
INEL	c	c	c	c
LANL	d	e	d	e
LLNL	0	0	0	0
Mound	d	d	d	d
NTS	d	d	c	c
ORNL	d	d	d	d
RFETS	2	40	c	c
SRS	0	0	0	0
		Small-quantity sites (SQS)		
Ames	f	f	f	f
ANL-W	f	f	f	f
BCL	f	f	f	f
BAPL	f	f	f	f
ETEC	0	0	0	0
ITRI	f	f	f	f
KAPL	0	0	0	0
LBL	0	0	0	0
MURR	f	f	f	f
PAD	c	c	c	c
PANT	f	f	f	f
SNL/NM	d	d	d	d
		Commercial site		
WVDP	f	f	f	f

[a]See ref. 5 of this chapter.
[b]Included in buried TRUW.
[c]Listed in submittal as not applicable.
[d]Unknown.
[e]Partial data submitted.
[f]No data submitted.

APPENDIX H

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APPENDIX H
WASTE STREAM IDENTIFICATION CROSS REFERENCE TABLE FOR WTWBIR REVISION 1 AND TWBIR REVISION 2

Ames Laboratory [AL]

WIPP ID WTWBIR Rev. 1	WIPP ID TWBIR Rev. 2
AL-W001	AL-W001

ARCO Medical Products Company [AM]

N/A	AM-W001

Argonne National Laboratory - East [AE]

WIPP ID WTWBIR Rev. 1	WIPP ID TWBIR Rev. 2
AE-T001	AE-T001
AE-T003	AE-T003
AE-W038	AE-W038
AE-W039	AE-W039
AE-W040	AE-W040
AE-W041	AE-W041
AE-W042	AE-W042

Argonne National Laboratory - West [AW]

WIPP ID WTWBIR Rev. 1	WIPP ID TWBIR Rev. 2

AW-M001	AW-N026.82
AW-M002	AW-N027.531
AW-M003	AW-N028
N/A	AW-T029.1323
N/A	AW-T030.1321
N/A	AW-T031.1322
N/A	AW-T032.1324
N/A	AW-T033.1325
N/A	AW-T034.1327
N/A	AW-T035.1326
IN-M001	AW-W012.10
AW-W016/IN-M004	AW-W016.20
AW-W018	AW-W018
AW-W019	AW-W019
AW-W020/IN-M002	AW-W020.13
AW-W021/IN-M003	AW-W021.16
AW-W022/IN-M005	AW-W022.22

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Battelle Columbus Laboratories [BC]

WIPP ID WTWBIR Rev. 1	WIPP ID TWBIR Rev. 2
BC-T001	BC-T001

Bettis Atomic Power Laboratory [BT]

WIPP ID WTWBIR Rev. 1	WIPP ID TWBIR Rev. 2

BT-T001	BT-T001
BT-T002	BT-T002
BT-T003	BT-T003
BT-T004	BT-T004
BT-T005	BT-T005

Energy Technology Engineering Center [ET]

WIPP ID WTWBIR Rev. 1	WIPP ID TWBIR Rev. 2
ET-M001	ET-M001
ET-T001	ET-T001A
ET-T001	ET-T001B

Idaho National Engineering Laboratory [IN]

WIPP ID WTWBIR Rev. 1	WIPP ID TWBIR Rev. 2
N/A	IN-W112
IN-W139	IN-W139.627
IN-W146	IN-W146.699
IN-W157	IN-W157.144
IN-W157	IN-W157.906
IN-T001	IN-W157.907
IN-T001	IN-W159.1072
IN-T001	IN-W159.119
IN-T001	IN-W159.120
IN-W161	IN-W161.231

IN-W161	IN-W161.806
IN-T001	IN-W163.1007
IN-T001	IN-W163.234
IN-T001	IN-W164.1060
IN-T001	IN-W164.153
IN-W166	IN-W166.151
IN-W166	IN-W166.928
IN-W167	IN-W167.149
IN-W167	IN-W167.926
IN-W169	IN-W169.191
IN-T001	IN-W169.192
IN-W169	IN-W169.193
IN-T001	IN-W169.194
IN-W169	IN-W169.985
IN-W170	IN-W170.189
IN-W170	IN-W170.938
IN-W171	IN-W171.184
IN-W171	IN-W171.801
IN-W172	IN-W172.182
IN-W172	IN-W172.911
IN-W174	IN-W174.1082
IN-W174	IN-W174.154
IN-W177	IN-W177.1083
IN-W177	IN-W177.156
IN-W179	IN-W179.1084
IN-W179	IN-W179.158

IN-W181	IN-W181.162
IN-W186	IN-W186.187
IN-T001	IN-W187.1094
IN-T001	IN-W187.121
IN-W188	IN-W188.1093
IN-W188	IN-W188.160
IN-W189	IN-W189.1048
IN-W189	IN-W189.131
IN-T001	IN-W197.196
IN-W197	IN-W197.197
IN-T001	IN-W197.198
IN-W197	IN-W197.802
IN-W197	IN-W197.803
IN-W198	IN-W198.202
IN-T001	IN-W198.203
IN-W198	IN-W198.204
IN-T001	IN-W198.205
IN-W198	IN-W198.804
IN-W199	IN-W199.1039
IN-T001	IN-W199.209
IN-W202	IN-W202.1092
IN-W202	IN-W202.224
IN-W203	IN-W203.1081
IN-W203	IN-W203.210
IN-T001	IN-W203.211
IN-T001	IN-W203.212

IN-W204	IN-W204.215
IN-W204	IN-W204.216
IN-T001	IN-W204.217
IN-W205	IN-W205.1086
IN-T001	IN-W205.1087
IN-W205	IN-W205.220
IN-T001	IN-W206.935
IN-T001	IN-W206.936
IN-T001	IN-W207.238
IN-T001	IN-W207.980
IN-T001	IN-W207.981
IN-T001	IN-W208.242
IN-T001	IN-W208.243
IN-T001	IN-W208.988
IN-T001	IN-W209.244
IN-T001	IN-W209.994
IN-T001	IN-W210.1001
IN-T001	IN-W210.247
IN-T001	IN-W211.1009
IN-T001	IN-W211.249
IN-T001	IN-W212.1058
IN-T001	IN-W212.251
IN-T001	IN-W213.1069
IN-T001	IN-W213.252
IN-T001	IN-W213.253
IN-W214	IN-W214.1075

IN-W214	IN-W214.755
IN-T001	IN-W214.756
IN-W216	IN-W216.875
IN-T001	IN-W216.876
IN-W216	IN-W216.877
IN-W216	IN-W216.98
IN-T001	IN-W216.99
IN-T001	IN-W218.109
IN-T001	IN-W218.909
IN-T001	IN-W219.110
IN-T001	IN-W219.914
IN-W220	IN-W220.114
IN-W220	IN-W220.925
IN-W221	IN-W221.113
IN-W221	IN-W221.927
IN-W222	IN-W222.116
IN-T001	IN-W222.117
IN-W222	IN-W222.965
IN-W225	IN-W225.127
IN-W225	IN-W225.800
IN-W228	IN-W228.101
IN-T001	IN-W228.102
IN-T001	IN-W228.103
IN-W228	IN-W228.883
IN-T001	IN-W228.884
IN-T001	IN-W228.885

IN-W228	IN-W228.886
IN-W230	IN-W230.229
IN-W230	IN-W230.940
IN-W240	IN-W240.272
IN-W240	IN-W240.931
IN-W243	IN-W243.274
IN-T001	IN-W243.275
IN-W243	IN-W243.276
IN-T001	IN-W243.277
IN-W243	IN-W243.808
IN-T001	IN-W245.1034
IN-W245	IN-W245.1035
IN-W245	IN-W245.301
IN-W245	IN-W245.302
IN-T001	IN-W247.1038
IN-W247	IN-W247.523
IN-W247	IN-W247.524
IN-W247	IN-W247.810
IN-W249	IN-W249.1071
IN-W249	IN-W249.527
IN-T001	IN-W249.528
IN-W250	IN-W250.259
IN-W250	IN-W250.941
IN-T001	IN-W252.1000
IN-W252	IN-W252.282
IN-W252	IN-W252.283

IN-W252	IN-W252.811
IN-T001	IN-W254.1044
IN-W254	IN-W254.1045
IN-W254	IN-W254.289
IN-W254	IN-W254.290
IN-W256	IN-W256.1062
IN-W256	IN-W256.295
IN-T001	IN-W257.558
IN-T001	IN-W257.947
IN-W259	IN-W259.552
IN-T001	IN-W259.920
IN-T001	IN-W259.921
IN-T001	IN-W260.565
IN-W260	IN-W260.566
IN-T001	IN-W260.567
IN-W260	IN-W260.568
IN-W260	IN-W260.916
IN-W263	IN-W263.520
IN-W265	IN-W265.516
IN-T001	IN-W265.517
IN-T001	IN-W267.1005
IN-T001	IN-W267.514
IN-W269	IN-W269.510
IN-W269	IN-W269.535
IN-W271	IN-W271.532
IN-T001	IN-W271.533

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IN-W272	IN-W272.504
IN-W272	IN-W272.974
IN-W275	IN-W275.502
IN-W275	IN-W275.967
IN-W276	IN-W276.500
IN-W276	IN-W276.966
IN-T001	IN-W278.1090
IN-T001	IN-W278.495
IN-W280	IN-W280.1066
IN-W280	IN-W280.448
IN-T001	IN-W280.449
IN-W281	IN-W281.487
IN-T001	IN-W281.488
IN-W283	IN-W283.481
IN-W283	IN-W283.534
IN-T001	IN-W283.963
IN-W283	IN-W283.964
IN-W285	IN-W285.471
IN-W285	IN-W285.815
IN-W287	IN-W287.460
IN-W289	IN-W289.466
IN-W291	IN-W291.454
IN-T001	IN-W291.455
IN-W291	IN-W291.456
IN-T001	IN-W294.1057
IN-W294	IN-W294.342

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IN-W294	IN-W294.343
IN-W294	IN-W294.814
IN-W296	IN-W296.327
IN-T001	IN-W296.329
IN-W296	IN-W296.330
IN-T001	IN-W296.331
IN-W296	IN-W296.813
IN-W298	IN-W298.317
IN-W298	IN-W298.318
IN-W298	IN-W298.812
IN-T001	IN-W298.979
IN-W300	IN-W300.308
IN-W300	IN-W300.930
IN-W302	IN-W302.299
IN-W302	IN-W302.913
IN-W304	IN-W304.860
IN-W304	IN-W304.861
IN-W305	IN-W305.1068
IN-W305	IN-W305.828
IN-T001	IN-W306.632
IN-W306	IN-W306.633
IN-T001	IN-W306.634
IN-W306	IN-W306.635
IN-W306	IN-W306.817
IN-T001	IN-W308.618
IN-T001	IN-W308.621

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IN-W308	IN-W308.816
IN-T001	IN-W309.609
IN-W309	IN-W309.610
IN-W311	IN-W311.1013
IN-W311	IN-W311.604
IN-W312	IN-W312.602
IN-W312	IN-W312.942
IN-W314	IN-W314.1017
IN-W314	IN-W314.606
IN-W317	IN-W317.1028
IN-W317	IN-W317.1029
IN-W317	IN-W317.757
IN-W317	IN-W317.758
IN-T001	IN-W315..601
IN-T001	IN-W319.583
IN-T001	IN-W319.584
IN-T001	IN-W321.1023
IN-T001	IN-W321.578
IN-W322	IN-W322.851
IN-W322	IN-W322.952
IN-W323	IN-W323.562
IN-T001	IN-W323.951
IN-W325	IN-W325.1076
IN-W325	IN-W325.679
IN-W327	IN-W327.1085
IN-W327	IN-W327.735

IN-W329	IN-W329.681
IN-T001	IN-W329.682
IN-W330	IN-W330.677
IN-W330	IN-W330.678
IN-W332	IN-W332.661
IN-W332	IN-W332.962
IN-W334	IN-W334.675
IN-W334	IN-W334.961
IN-W336	IN-W336.660
IN-W336	IN-W336.820
IN-W337	IN-W337.673
IN-W337	IN-W337.957
IN-W338	IN-W338.657
IN-W338	IN-W338.956
IN-W339	IN-W339.655
IN-W339	IN-W339.955
IN-W341	IN-W341.671
IN-W341	IN-W341.954
IN-W342	IN-W342.652
IN-W342	IN-W342.953
IN-W345	IN-W345.669
IN-W345	IN-W345.819
IN-W347	IN-W347.646
IN-W347	IN-W347.818
IN-T001	IN-W348.1012
IN-T001	IN-W348.846

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IN-T001	IN-W349.667
IN-W349	IN-W349.924
IN-W350	IN-W350.650
IN-W350	IN-W350.923
IN-W351	IN-W351.648
IN-W351	IN-W351.922
IN-W353	IN-W353.859
IN-W353	IN-W353.917
IN-W354	IN-W354.1016
IN-W354	IN-W354.858
IN-W355	IN-W355.1015
IN-W355	IN-W355.857
IN-W356	IN-W356.1014
IN-W356	IN-W356.856
IN-T001	IN-W357.1022
IN-T001	IN-W357.850
IN-W358	IN-W358.854
IN-W358	IN-W358.855
IN-T001	IN-W358.948
IN-W358	IN-W358.949
IN-W359	IN-W359.853
IN-W360	IN-W360.852
IN-W360	IN-W360.912
IN-T001	IN-W361.1021
IN-T001	IN-W361.849
IN-T001	IN-W362.1020

IN-T001	IN-W362.848
IN-T001	IN-W363.1019
IN-T001	IN-W363.847
IN-T001	IN-W364.1011
IN-T001	IN-W364.844
IN-T001	IN-W364.845
IN-T001	IN-W365.1010
IN-T001	IN-W365.842
IN-T001	IN-W365.843
IN-W366	IN-W366.1004
IN-W366	IN-W366.841
IN-T001	IN-W367.840
IN-T001	IN-W367.973
IN-T001	IN-W368.839
IN-T001	IN-W368.971
IN-W369	IN-W369.837
IN-W369	IN-W369.970
IN-W370	IN-W370.836
IN-W370	IN-W370.929
IN-W371	IN-W371.1018
IN-W371	IN-W371.831
IN-W372	IN-W372.832
IN-W372	IN-W372.918
IN-T001	IN-W373.1003
IN-T001	IN-W373.830
IN-T001	IN-W374.1091

IN-W374	IN-W374.829
IN-T001	IN-W375.1096
IN-T001	IN-W375.827
N/A	IN-Z001

Knolls Atomic Power Laboratory - Schnecetedy [KA]

WIPP ID WTWBIR Rev. 1	WIPP ID TWBIR Rev. 2
KA-T001	KA-T001
KA-W016	KA-W016

Los Alamos National Laboratory [LA]

WIPP ID WTWBIR Rev. 1	WIPP ID TWBIR Rev. 2
LA-W001	LA-W001
LA-W002	LA-M002
LA-W003	LA-W003
LA-W004	LA-W004
LA-W005	LA-W005
LA-W006	LA-W006
LA-W009	LA-W009
LA-WR01	LA-WR01
LA-WR05	LA-WR05
LA-T001	LA-T001
LA-T004	LA-T004
LA-T005	LA-T005

LA-T006	LA-T006
LA-T007	LA-T007
LA-T008	LA-T008
LA-T009	LA-T009
LA-T010	LA-TR04
LA-T011	LA-TR05
LA-T012	LA-TR07
LA-W002	LA-T002
LA-W001	LA-W066
LA-T004	LA-W067
LA-T005	LA-W068
N/A	LA-Z001

Lawrence Berkeley Laboratory [LB]

WIPP ID WTWBIR Rev. 1	WIPP ID TWBIR Rev. 2
LB-T001	LB-T001

Lawrence Livermore National Laboratory [LB]

WIPP ID WTWBIR Rev. 1	WIPP ID TWBIR Rev. 2
LL-W018	LL-W018
LL-W019	LL-W019
LL-M001	LL-M001
LL-T001	LL-T001
LL-T002	LL-T002

LL-T003	LL-T003
LL-T004	LL-T004
LL-T005	LL-T005

U.S. Army Material Command [MC]

WIPP ID WTWBIR Rev. 1	WIPP ID TWBIR Rev. 2
N/A	MC-W001

Mound Plant [MD]

WIPP ID WTWBIR Rev. 1	WIPP ID TWBIR Rev. 2
MD-M001/MD-T010	MD-M001
MD-T001	MD-T001
MD-T003	MD-T003
MD-T004/MD-T007	MD-T004
MD-T005	MD-T005
MD-T006	MD-T006
MD-T007/MD-T004/MD-T011	MD-T007
MD-T008/MD-T002	MD-T008
MD-T009	MD-T009
MD-T010	MD-T010
MD-T012	MD-T012
MD-W002	MD-W002
MD-T013	MD-W003
MD-T002	MD-W017

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N/A	MD-W018

University of Missouri [MU]

WIPP ID WTWBIR Rev. 1	WIPP ID TWBIR Rev. 2
MU-W002	MU-W002

Nevada Test Site [NT]

WIPP ID WTWBIR Rev. 1	WIPP ID TWBIR Rev. 2
NT-W001	NT-W001
N/A	NT-W021

Oak Ridge National Laboratory [OR]

WIPP ID WTWBIR Rev. 1	WIPP ID TWBIR Rev. 2
OR-W040	OR-W040
OR-W042	OR-W042
OR-W044	OR-W044
OR-W045	OR-W045
OR-W046	OR-W046
OR-W047	OR-W047
N/A	OR-W041
N/A	OR-W043
N/A	OR-W048
N/A	OR-W049

N/A	OR-W050
OR-W044	OR-W051
N/A	OR-W052
N/A	OR-W053
N/A	OR-W054
N/A	OR-Z001

Paducah Gaseous Diffusion Plant [PA]

WIPP ID WTWBIR Rev. 1	WIPP ID TWBIR Rev. 2
PA-W014	PA-A015
PA-W015	PA-B015
PA-W015A	PA-W014

Pantex Plant [PX]

WIPP ID WTWBIR Rev. 1	WIPP ID TWBIR Rev. 2
PX-T001	PX-T001

Rocky Flats Environmental Technology Site [RF]

WIPP ID WTWBIR Rev. 1	WIPP ID TWBIR Rev. 2
RF-T001	RF-TT0823
RF-T002	RF-TR0330
RF-T002	RF-TR0336
RF-T002	RF-TR0337

RF-T002	RF-TT0302
RF-T002	RF-TT0330
RF-T002	RF-TT0336
RF-T002	RF-TT0337
RF-T002	RF-TT0487
RF-T002	RF-TT0821
RF-T002	RF-TT0822
RF-T002	RF-TT0825
RF-T002	RF-TT0831
RF-T002	RF-TT0832
RF-T002	RF-TT0833
RF-T003	RF-TR0444
RF-T004	RF-TR0404
RF-T004	RF-TR0405
RF-T004	RF-TR0406
RF-T004	RF-TR0407
RF-T004	RF-TR0408
RF-T004	RF-TR0409
RF-T004	RF-TR0410
RF-T004	RF-TR0411
RF-T004	RF-TR0412
RF-T004	RF-TR0413
RF-T004	RF-TR0414
RF-T004	RF-TR0415
RF-T004	RF-TR0416
RF-T004	RF-TR0417

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RF-T004	RF-TR0418
RF-T004	RF-TR0427
RF-T004	RF-TR0429
RF-T004	RF-TR0433
RF-T004	RF-TR0434
RF-T004	RF-TR0473
RF-T004	RF-TR0654
RF-T004	RF-TT0999
RF-T005	RF-TR0290
RF-T005	RF-TR0299
RF-T006	RF-TT0806
RF-T007	RF-TT2116
RF-T007	RF-TT2216
RF-W008	RF-TT0374
RF-T010	RF-T010
RF-T011	RF-TR0479
RF-T010	RF-TR0480
RF-T011	RF-TR0484
RF-T011	RF-TR0485
RF-T011	RF-TR0486
RF-T011	RF-TR0489
RF-T011	RF-TT0479
RF-T011	RF-TT0480
RF-T011	RF-TT0481
RF-T011	RF-TT0484
RF-T011	RF-TT0485

RF-T011	RF-TT0486
RF-T011	RF-TT0489
RF-T011	RF-TT0824
RF-T037	RF-TR0320
RF-T037	RF-TT0320
RF-T038, RF-W038	RF-TT0802
RF-T052	RF-TR0440
RF-T052	RF-TR0442
RF-T052	RF-TT0440
RF-T052	RF-TT0441
RF-T052	RF-TT0442
RF-T056	RF-TR0368
RF-T056	RF-TR0370
RF-T056	RF-TR0394
RF-T057	RF-TR0334
RF-T057	RF-TR0438
RF-T057	RF-TT0438
RF-T059	RF-TR0390
RF-T059	RF-TR0391
RF-T059	RF-TR0392
RF-T059	RF-TR0395
RF-T059	RF-TR0396
RF-T059	RF-TR0398
RF-T059	RF-TR0655
RF-T060	RF-TR0300
RF-T060	RF-TR0301

RF-T060, RF-W060	RF-TR0303
RF-T060	RF-TR0310
RF-T060, RF-W060	RF-TR0312
RF-T060	RF-TT0300
RF-T060	RF-TT0301
RF-T060, RF-W060	RF-TT0303
RF-T060, RF-W060	RF-TT0312
RF-T063	RF-TR0504
RF-T063	RF-TR0527
RF-T063	RF-TR0541
RF-T063	RF-TT0508
RF-T063	RF-TT0541
RF-T066	RF-TR0331
RF-T066	RF-TR0335
RF-T066	RF-TR0338
RF-T066	RF-TR0342
RF-T066	RF-TT0335
RF-T066	RF-TT0338
RF-T066	RF-TT0490
RF-T066	RF-TT0491
RF-T067	RF-TR0376
RF-T067	RF-TT0376
RF-T069	RF-TR0430
RF-T069	RF-TR0431
RF-T069	RF-TT0430
RF-T069	RF-TT0431

RF-T069, RF-W069	RF-TT0809
RF-T076	RF-TR0044
N/A	RF-TR0067
N/A	RF-TR0080
N/A	RF-TR0081
N/A	RF-TR0082
N/A	RF-TR0083
N/A	RF-TR0084
N/A	RF-TR0086
N/A	RF-TR0087
N/A	RF-TR0089
N/A	RF-TR0145
N/A	RF-TR0146
N/A	RF-TR0289
N/A	RF-TR0600
N/A	RF-TR0601
N/A	RF-TR0653
RF-W008	RF-MR0374
RF-W008	RF-MT0374
RF-W010	RF-MT0001
RF-W010	RF-MT0007
RF-W010	RF-MT0800
RF-W010	RF-MT0803
RF-W010	RF-MT0807
RF-W011	RF-MT0480
RF-W011	RF-W011

RF-W012	RF-MR0330
RF-W012	RF-MR0336
RF-W012	RF-MR0337
RF-W012	RF-MT0330
RF-W012	RF-MT0336
RF-W012	RF-MT0337
RF-W012	RF-MT0821
RF-W012	RF-MT0822
RF-W012	RF-MT0831
RF-W012	RF-MT0832
RF-W012	RF-MT0833
RF-W012	RF-MT0853
N/A	RF-MT0003
RF-W013	RF-MT0801
RF-W026	RF-MT0375
RF-W028	RF-MR0321
RF-W028	RF-MT0321
RF-W029	RF-MR0339
RF-W029	RF-MT0339
RF-W032	RF-MT0444
RF-W032	RF-MT0855
RF-W036, RF-T036	RF-MR0371
RF-W036, RF-T036	RF-MR0373
RF-W036, RF-T036	RF-MR0377
RF-W036, RF-T036	RF-MR0378
RF-W036, RF-T036	RF-MT0377

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RF-W036, RF-T036	RF-MT0378
RF-W037	RF-MR0320
RF-W037	RF-MT0320
RF-W040	RF-MR0420
RF-W040	RF-MR0421
RF-W040	RF-MR0428
RF-W040	RF-MR0419
RF-W040	RF-MT0420
RF-W040	RF-MT0425
RF-W041	RF-MR0341
RF-W041	RF-MT0341
RF-W052	RF-MT0440
RF-W052	RF-MT0442
RF-W052	RF-MT0856
RF-W056	RF-MT-0368
RF-W057	RF-MT-0438
RF-W058	RF-MR-0365
RF-W058	RF-MR-0409
RF-W058	RF-MR-0411
RF-W058	RF-MR-0413
RF-W058	RF-MR-0414
RF-W058	RF-MR-0434
RF-W058	RF-MT-0409
RF-W058	RF-MT-0411
RF-W058	RF-MT-0412
RF-W058	RF-MT-0414

RF-W059	RF-MR-0387
RF-W059	RF-MR-0390
RF-W059	RF-MR-0391
RF-W059	RF-MR-0392
RF-W059	RF-MR-0393
RF-W059	RF-MR-0395
RF-W059	RF-MT-0391
RF-W059	RF-MT-0392
RF-W059	RF-MT-0393
RF-W063	RF-MR-0070
N/A	RF-MR-0200
RF-W063	RF-MR-0400
RF-W063	RF-MR-0401
RF-W063	RF-MR-0500
RF-W063	RF-MR-0503
RF-W063	RF-MR-0508
RF-W063	RF-MR-0527
RF-W063	RF-MR-0541
N/A	RF-MR-X200
RF-W063	RF-MT-0400
RF-W063	RF-MT-0541
RF-W065	RF-MR-0333
RF-W066	RF-MR-0331
RF-W066	RF-MR-0342
RF-W066	RF-MT-0328
RF-W066	RF-MT-0331

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RF-W066	RF-MT-0335
RF-W066	RF-MT-0342
RF-W066	RF-MT-0491
RF-W066	RF-MT-0492
RF-W067	RF-MR-0338
RF-W067	RF-MR-0376
RF-W067	RF-MT-0338
RF-W068	RF-MR-0292
RF-W068	RF-MR-0299
RF-W068	RF-MT-0292
RF-W068	RF-MT-0299
RF-W068	RF-MT-0372
RF-W068	RF-MT-0823
N/A	RF-MR0089
N/A	RF-MR0090
N/A	RF-MR0091
N/A	RF-MR0092
N/A	RF-MR0097
RF-W076	RF-MR0099
RF-W076	RF-MR0290
RF-W076	RF-MR0332
RF-W076	RF-MR0340
RF-W076	RF-MR0422
RF-W076	RF-MR0423
N/A	RF-MTX112
N/A	RF-MT0544

N/A	RF-MR0533
N/A	RF-MR0535
N/A	RF-MTX115
N/A	RF-MT0831P
N/A	RF-MTX111
RF-M002	RF-MT2116
RF-M001	RF-MT0806

Hanford (Richland) Site [RL]

WIPP ID WTWBIR Rev. 1	WIPP ID TWBIR Rev. 2
N/A	RL-T101
N/A	RL-T102
N/A	RL-T103
N/A	RL-T104
N/A	RL-T105
N/A	RL-T106
N/A	RL-T107
N/A	RL-T108
N/A	RL-T109
N/A	RL-T110
N/A	RL-T112
N/A	RL-T113
N/A	RL-T114
N/A	RL-T115
N/A	RL-T116

N/A	RL-T118
N/A	RL-T120
N/A	RL-T121
N/A	RL-T122
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N/A	RL-T124
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N/A	RL-T131
N/A	RL-T132
N/A	RL-T133
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N/A	RL-T135
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N/A	RL-T149
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N/A	RL-W276

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N/A	RL-W280
N/A	RL-W281
N/A	RL-W282
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N/A	RL-W296
N/A	RL-W297
N/A	RL-W298
N/A	RL-W299
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N/A	RL-W301
N/A	RL-W302

N/A	RL-W303
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N/A	RL-W305
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N/A	RL-W354

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N/A	RL-W355
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N/A	RL-W374
N/A	RL-W375
N/A	RL-W376
N/A	RL-W377
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N/A	RL-W379
N/A	RL-W380

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N/A	RL-W383
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N/A	RL-W386
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N/A	RL-W400
N/A	RL-W401
N/A	RL-W402
N/A	RL-W403
N/A	RL-W404
N/A	RL-W405
N/A	RL-W406

N/A	RL-W407
N/A	RL-W408
N/A	RL-W409
N/A	RL-W410
N/A	RL-W411
N/A	RL-W412
N/A	RL-W413
N/A	RL-W414
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N/A	RL-W426
N/A	RL-W427
N/A	RL-W428
N/A	RL-W429
N/A	RL-W430
N/A	RL-W431
N/A	RL-W432

N/A	RL-W433
N/A	RL-W434
N/A	RL-W435
N/A	RL-W436
N/A	RL-W437
N/A	RL-W438
N/A	RL-W439
N/A	RL-W440
N/A	RL-W441
N/A	RL-W442
N/A	RL-W443
N/A	RL-W444
N/A	RL-Z001

Sandia National Laboratories [SA]

WIPP ID WTWBIR Rev. 1	WIPP ID TWBIR Rev. 2
SA-T001	SA-T001
SA-W134	SA-W134
N/A	SA-Z001

Savannah River Site [SR]

WIPP ID WTWBIR Rev. 1	WIPP ID TWBIR Rev. 2
SR-W006	SR-W006-773A-VIT
SR-W026	SR-W026-221F-HET

SR-W026	SR-W026-221F-VIT
SR-W026	SR-W026-221H-HET
SR-W026	SR-W026-221H-VIT
SR-W026	SR-W026-235F-HET
SR-W026	SR-W026-235F-VIT
SR-W026	SR-W026-772F-HET
SR-W026	SR-W026-772F-VIT
SR-W026	SR-W026-773A-HET
SR-W026	SR-W026-773A-VIT
SR-W027	SR-W027-221F-HET
SR-W027	SR-W027-221F-MET
SR-W027	SR-W027-221F-VIT
SR-W027	SR-W027-221H-HET
SR-W027	SR-W027-221H-MET
SR-W027	SR-W027-221H-VIT
SR-W027	SR-W027-235F-HET
SR-W027	SR-W027-235F-MET
SR-W027	SR-W027-235F-VIT
SR-W027	SR-W027-772F-HET
SR-W027	SR-W027-772F-MET
SR-W027	SR-W027-772F-VIT
SR-W027	SR-W027-773A-HET
SR-W027	SR-W027-773A-MET
SR-W027	SR-W027-773A-VIT
SR-W027	SR-W027-999-HET
SR-W027	SR-W027-999-VIT

SR-W053	SR-W0053-773A-VIT
SR-T001/SR-T002	SR-T001-221F-HET
SR-T001/SR-T002	SR-T001-221F-MET
SR-T001/SR-T002	SR-T001-221F-VIT
SR-T001/SR-T002	SR-T001-221H-HET
SR-T001/SR-T002	SR-T001-221H-MET
SR-T001/SR-T002	SR-T001-221H-VIT
SR-T001/SR-T002	SR-T001-235F-HET
SR-T001/SR-T002	SR-T001-235F-MET
SR-T001/SR-T002	SR-T001-235-F-VIT
SR-T001/SR-T002	SR-T001-772F-HET
SR-T001/SR-T002	SR-T001-772F-MET
SR-T001/SR-T002	SR-T001-772F-VIT
SR-T001/SR-T002	SR-T001-773A-CLAS
SR-T001/SR-T002	SR-T001-773A-HET
SR-T001/SR-T002	SR-T001-773A-MET
SR-T001/SR-T002	SR-T001-773A-VIT
SR-T003	SR-T003-773A-HET
SR-T003	SR-T003-773A-VIT
N/A	SR-Z001

Teledyne Brown Engineering [TB]

WIPP ID WTWBIR Rev. 1	WIPP ID TWBIR Rev. 2
N/A	TB-W001

West Valley Demonstration Project [WV]

WIPP ID WTWBIR Rev. 1	WIPP ID TWBIR Rev. 2
WV-M005	WV-M005
WV-M007	WV-M007
WV-M008	WV-M008
WV-M010	WV-M010
WV-M012	WV-M012
WV-M013	WV-M013
WV-M015	WV-M015
WV-T001	WV-T001
WV-T002	WV-T002
WV-T003	WV-T003
WV-T004	WV-T004
WV-T006	WV-T006
WV-T009	WV-T009
WV-T011	WV-T011
WV-T014	WV-T014
WV-T016	WV-T016
WV-T017	WV-T017
WV-W024	WV-W024
WV-W041	WV-W041
N/A	WV-Z001

APPENDIX I

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APPENDIX I
PHOSPHATES, NITRATES AND SULFATES

Listed in this Appendix are the positive responses from the TRU waste generator/storage sites on the questions concerning the occurrence of greater than 1 weight percent phosphate, sulfate, and/or nitrate in their waste streams. The intent of the question was that it applied only to "solidified" waste streams. In some cases, the TRU waste sites answered the question for "debris" waste streams. In addition to those positive responses in Revision 2 data call, several sites provided negative responses indicating that these constituents do not occur in the waste in greater than 1 weight percent concentrations, but not necessarily for all waste streams from a site. A detailed listing of the negative responses can be found in the database. No response was received from INEL. Overall only seven sites responded to this question as listed below. Listed below are the sites that provided negative responses and the number of waste streams for each site:

TRU Waste Site	Number of Waste Streams with Negative Responses
BT	5
LA	5
MC	1
RF	16
TB	1
SR	45

PHOSPHATES, NITRATES, SULFATES

Site	TWBIR ID	Phosphates (wt%)	Nitrates (wt%)	Sulfates (wt%)
AL	AL-W005		5	
RF	MT0807		4	
RF	MT0001		8	
RF	MT0800		4	
BT	BT-T005			Unknown

APPENDIX J

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DOE/CAO-95-1121
December 1995

EG&G ROCKY FLATS

EG&G ROCKY FLATS, INC.
ROCKY FLATS PLANT, P.O. BOX 464, GOLDEN, COLORADO 80402-0464 • (303) 966-7000

June 30, 1995 95-RF-05535

R. L. DeVries, MS-2420
Lockheed Martin Idaho Technologies
2525 North Fremont
Idaho Falls, Idaho 83415

TRANSMITTAL OF MITI95 ROCKY FLATS DATA - RLG-013-95

Per guidance in the Matthew J. Zenkowich and Marilyn Tolbert-Smith letter dated April 27, 1995, I have enclosed two diskettes containing transuranic waste stream data, mixed low-level waste waste stream data, and treatment system data for the Rocky Flats Environmental Technology Site (Site). These diskettes are labeled RF-tru.waste.treat Disk #1 and Disk #2. The files on these diskettes were created using the data comprehension utility provided with the MITI95 database. Included in the transuranic waste stream data on these diskettes is the information requested by the Carlsbad Area Office for the Waste Isolation Pilot Plant (WIPP) Transuranic Waste Baseline Inventory Report. Additionally, these data were transferred via Internet to Richard Ahlstrom.

Also enclosed is supplemental activity information for residues at the Site. This information is being provided directly to Paul Drez by copy of this letter. These data address the change in strategy for residue processing from actinide separation to repackaging only, and are being provided to facilitate the safety analysis process for the WIPP.

Please advise me if there are any problems accessing the data files. I can be reached at (303) 966-4934.

Robert L. Griffis, P.E.
EG&G Rocky Flats, Inc.

Enclosures:
As Stated (2)

cc:
J. C. Leifer - DOE, RFFO
W. J. Prymak - " "
M. M. Strum - SAIC
[redacted] - WTAC
S. A. Anderson - EG&G Rocky Flats, Inc.
G. A. O'Leary - " " " "
V. S. Sendelweck - " " " "

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Enclosure 1
95-RF-05535
Page 1 of 1

The following tables provide total projected waste volumes and activity for different residue processing scenarios. Current plans are to process the residues under the 94-1 initiative and ship as waste without actinide separation. Actinide separation was used in the WTWBIR submittal, Rev. 2, as instructed to make the submittal consistent with the Site's Preliminary Site Treatment Plan (PSTP).

WTWBIR Final Waste Form (1)	Final Volume in Cubic Meters for Actinide Separation Option	Final Volume in Cubic Meters for 94-1 Repackaging Initiative
Combustible	401.05	184.39
Filter	816.13	592.83
Graphite	43.41	47.1
Heterogeneous	13.21	3.77
Inorganic Non-Metal	28.32	2,509.61
Lead/Cadmium Metal Waste	55.82	7.6
Salt Waste	56.61	376.52
Soils	0	0
Solidified Inorganics	1,303.26	404.62
Solidified Organics	19.44	
Uncategorized Metal	124.35	55.47

(1) These are the final waste forms as defined in Revision 1 of the WTWBIR.

Radionuclide (1)	Curies (2)
Pu-238	8,143
Pu-239	173,500
Pu-240	39,750
Pu-241	1,016,000
Am-241	108,500

(1) Any isotope that contributes more than 0.1% of the activity.

(2) Curies/isotopes that represent the total curies that will be sent to WIPP as the Actinide Separation processing submittal did not project any curies.

APPROVED:

G. A. O'Leary, TRU Program Manager

for J. Leifer, DOE-Residues

V. Sendelweck, Residue Stabilization

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APPENDIX K

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APPENDIX K
SUPPLEMENTARY INFORMATION FOR WIPP TRU WASTE

K.1 INTRODUCTION

The TWBIR, Revision 2 data call requested information to support several WIPP-related programs and studies such as transportation, waste acceptance criteria, permitting, and engineered alternatives. Due to the length of the data call (see Appendix C), it is not possible to present all the information received from the generator/storage sites for each waste stream in Appendix P. This chapter will summarize some of the information that is not presented in the waste stream profiles. The data supporting the information presented in this appendix and other information that may be of interest to the user, such as the source of the waste streams and the certifiability of stored waste, can be obtained by conducting searches of the TWBID that accompanies this report.

K.2 WASTE TYPE AND HANDLING

The type and handling of the waste streams documented in Appendix P is summarized in Figure K-1 and provided in detail in Tables K-1 and K-2, and is based on the percentage of the anticipated volumes of final waste forms. This chart is based on TWBID, Revision 2 data. It is not identical to a similar chart published in the 1995 IDB (DOE, 1995b) because this IDB is based on Revision 1 of the WTWBID.

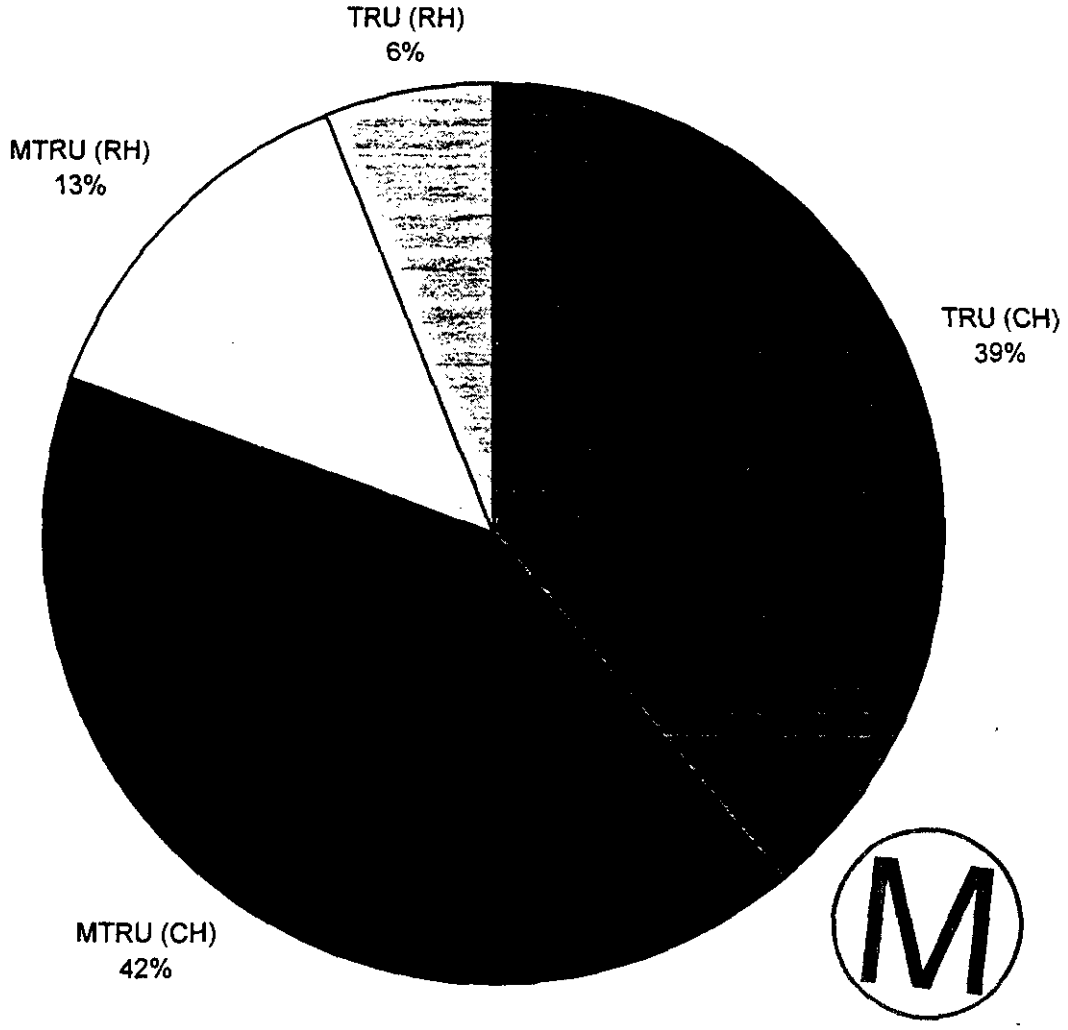

Figure K-1. Summary of Type and Handling of WIPP Waste Streams

Table K-1. WIPP Contact-Handled Mixed and Non-Mixed Disposal Inventory by Site (Final Waste Form)

Storage/Generator Site	Stored Volumes (m3)		Projected Volumes (m3)	
	Mixed	Non-Mixed	Mixed	Non-Mixed
Ames Laboratory - Iowa State Univ.	0.0E+00	0.0E+00	4.2E-01	0.0E+00
Argonne National Laboratory - East	6.5E+00	5.0E+00	1.3E+00	1.3E+02
Argonne National Laboratory - West	4.3E+00	2.3E+00	2.0E+00	7.4E+02
Bettis Atomic Power Laboratory	0.0E+00	0.0E+00	0.0E+00	1.2E+02
Energy Technology Engineering Center	0.0E+00	1.7E+00	0.0E+00	0.0E+00
Hanford (Richland) Site	2.0E+02	1.2E+04	1.3E+04	2.0E+04
Idaho National Engineering Laboratory	2.3E+04	5.3E+03	0.0E+00	0.0E+00
Lawrence Livermore National Laboratory	8.3E+00	2.2E+02	5.0E+01	6.6E+02
Los Alamos National Laboratory	7.7E+03	3.3E+03	3.8E+03	3.6E+03
Mound Plant	3.5E+00	2.7E+02	0.0E+00	0.0E+00
Nevada Test Site	6.1E+02	5.7E+00	9.0E+00	0.0E+00
Oak Ridge National Laboratory	7.0E+02	6.1E+02	2.6E+02	0.0E+00
Paducah Gaseous Diffusion Plant	0.0E+00	0.0E+00	1.9E+00	0.0E+00
Pantex Plant	0.0E+00	6.2E-01	0.0E+00	0.0E+00
Rocky Flats Environmental Technology Site	4.4E+02	2.7E+02	3.3E+03	1.1E+03
Sandia National Laboratory - Albuquerque	0.0E+00	6.7E+00	0.0E+00	7.5E+00
Savannah River Site	1.5E+03	1.4E+03	2.9E+03	3.9E+03
Teledyne Brown Engineering	0.0E+00	2.1E-01	0.0E+00	0.0E+00
U.S. Army Material Command	0.0E+00	2.5E+00	0.0E+00	0.0E+00
University of Missouri Research Reactor	2.1E-01	0.0E+00	8.3E-01	0.0E+00
Totals	3.4E+04	2.4E+04	2.4E+04	3.0E+04

Table K- 2. WIPP Remote-Handled Mixed and Non-Mixed Disposal Inventory by Site (Final Waste Form)

Storage/Generator Site	Stored Volumes (m3)		Projected Volumes (m3)	
	Mixed	Non-Mixed	Mixed	Non-Mixed
Argonne National Laboratory - West	1.8E+00	1.8E+01	3.5E+01	1.2E+03
Battelle Columbus Laboratories	0.0E+00	5.8E+02	0.0E+00	0.0E+00
Bettis Atomic Power Laboratory	0.0E+00	0.0E+00	0.0E+00	6.7E+00
Energy Technology Engineering Center	8.9E-01	0.0E+00	0.0E+00	0.0E+00
Hanford (Richland) Site	2.7E+00	2.0E+02	1.5E+04	6.3E+03
Idaho National Engineering Laboratory	1.9E+02	2.6E+01	0.0E+00	0.0E+00
Los Alamos National Laboratory	1.7E+01	7.7E+01	3.4E+01	6.5E+01
Oak Ridge National Laboratory	2.4E+03	8.5E+01	4.5E+02	0.0E+00
Totals	2.6E+03	9.9E+02	1.6E+04	7.6E+03

APPENDIX L

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Appendix L. TWBID Data Dictionary (TWBIR specific tables)

Table Name Field Name	Type	Description
Page_1 Top level table for TRU waste stream data		
MWIR_ID	text	Unique Waste Stream ID for MITI95
WIPP_ID	text	Waste Stream ID Asssiged for WIPP Project Purposes
LOCAL_ID	text	Locally assigned ID number for the waste stream
NoMigrationAssign	text	No Migration Variance Petition Code
Waste_Type	text	MTRU or TRU
Handling	text	CH or RH
Stream_Name	text	Abbreviation Description/Name of the Stream
Stream_description	memo	Memo field to describe the type of stream (TWBIR and MITI95)
MWIR_matrix_code	text	Matrix Code, from MITI95 if applicable and relevant
Final_Waste_Form	text	This is the code of the final (to WIPP) form of the waste stream;
Matrix_Description	memo	Description and comments for the waste matrix in its final form for WIPP
Waste_Ownership	text	Defense, non-defense, commercial, or unknown
Waste_source	text	R&D, Operational, Residues, ER and D&D, ER, D&D, etc.
TSCA_data	text	Regulated for PCBs; Yes or No
Asbestos_data	text	Regulated for Asbestos; Yes or No
Matrix_Code_Name	text	Matrix name associated with the MITI95 matrix code
TRU_Source_Desc	memo	The source description form MITI95 part of data call updated to include source description from the WTWBIR portion of the data call, if different.
WS_Source_Desc	memo	The source description form MITI95 part of data call
Source_Category	text	The source categories only from the MITI95 portion of the form
WasteStream_Name	text	Stream name from the MITI95 portion of the data
WS_Name_Diff_Comments	text	Describes why WasteStream_Name differs from WTWBIR_WS_Name (if appropriate)
Site_Code	text	Storage Site
Ops_Code	text	Field Office Code
State	text	State Code
PSTP_WS_ID	text	Site treatment plan ID
RPC_Code	text	MITI95 Rad code
Rad_Confidence	text	Confidence in Rad estimate

Appendix L. TWBID Data Dictionary (TWBIR specific tables) (continued)

Table Name Field Name	Type	Description
Rad_Comments	memo	Rad Comments by site
Storage_Other	text	Storage Type
Currently_Treated	text	Is this waste treated
Secondary_Streams	text	Are secondary streams produced
Classification	text	Are there classification concerns
Management_Comments	memo	Site Comments
Acceptance_Comments	memo	Site Comments
Site_Name	text	Site Name
EPA_Regs	text	Is regulated under EPA regs?
State_Regs	text	reg. under more restrictive state regs?
LDR_Standards	text	Does at least one epa/state code meet LDR
PCB	text	Does waste stream contain PCBs?
PCB_Range	text	PCB concentration range
CPC_Code	text	MITI95 Contaminant Code
Asbestos	text	Does this WS contain asbestos?
Asbestos_Comments	memo	details of asbestos condition
EPA_Confidence	text	Confidence level
EPA_Comments	memo	Contaminant Comments
Residues	text	Does this waste contain residues
Redist_Comments	memo	Comments on Redistribution
Redistributed	text	Is this stream redistributed
Page1_Footnotes	memo	WTWBIR only footnotes
Container_Data Table of waste parameter and container data used in the Reports database		
MWIR_ID	Text	"Survey_ID"
WIPP_ID	Text	"TWBIR_ID"
WTWS	Text	Combined TWBIR_ID and Ship_Container to make unique ID
Handling	Text	CH or RH - same as page 1 - referent
Waste_Type	Text	MTRU, TRU
Final_Waste_Form	Text	final waste form - same as page 1 - referent

Appendix L. TWBID Data Dictionary (TWBIR specific tables) (continued)

Table Name Field Name	Type	Description
Type/Size	Text	Title describing container - "Ship_Container"
Int_Volume	Number	cubic meters per container
Nbr_Stored	Number	total volume of this type of container stored. "Currently_Stored"
Inventory_Date	Date/Time	"Inventory_Date" for Nbr_Stored
Nbr_Projected	Number	"Total_Num_Projected" Total volume of this type of container for this waste stream projected through the last year of projections
IB_avg	Number	Iron-base constituents, Average, in kg/m3
IB_min	Number	Iron-base constituents, Minimum, in kg/m3
IB_max	Number	Iron-base constituents, Maximum, in kg/m3
AB_avg	Number	Aluminum-base constituents, Average, in kg/m3
AB_min	Number	Aluminum-base constituents, Minimum, in kg/m3
AB_max	Number	Aluminum-base constituents, Maximum, in kg/m3
OM_avg	Number	Other metals constituents, Average, in kg/m3
OM_min	Number	Other metals constituents, Minimum, in kg/m3
OM_max	Number	Other metals constituents, Maximum, in kg/m3
OI_avg	Number	Other inorganics constituents, Average, in kg/m3
OI_Min	Number	Other inorganics constituents, Minimum, in kg/m3
OI_max	Number	Other inorganics constituents, Maximum, in kg/m3
Cel_avg	Number	Cellulosics constituents, Average, in kg/m3
Cel_min	Number	Cellulosics constituents, Minimum, in kg/m3
Cel_max	Number	Cellulosics constituents, Maximum, in kg/m3
Rub_avg	Number	Rubber constituents, Average, in kg/m3
Rub_min	Number	Rubber constituents, Minimum, in kg/m3
Rub_max	Number	Rubber constituents, Maximum, in kg/m3
Plas_avg	Number	Plastic constituents, Average, in kg/m3
Plas_min	Number	Plastic constituents, Minimum, in kg/m3
Plas_max	Number	Plastic constituents, Maximum, in kg/m3
SIM_avg	Number	Solidified Inorganic Material constituents, Average, in kg/m3
SIM_min	Number	Solidified Inorganic Material constituents, Minimum, in kg/m3

Appendix L. TWBID Data Dictionary (TWBIR specific tables) (continued)

Table Name Field Name	Type	Description
SIM_max	Number	Solidified Inorganic Material constituents, Maximum, in kg/m3
SOM_avg	Number	Solidified Organic Material constituents, Average, in kg/m3
SOM_min	Number	Solidified Organic Material constituents, Minimum, in kg/m3
SOM_max	Number	Solidified Organic Material constituents, Maximum, in kg/m3
SL_avg	Number	Soils, Average, kg/m3
SL_min	Number	Soils, Minimum, kg/m3
SL_max	Number	Soils, Maximum, kg/m3
CMS_avg	Number	Cement (Solidified), Average, kg/m3
CMS_min	Number	Cement (Solidified), Minimum, kg/m3
CMS_max	Number	Cement (Solidified), Maximum, kg/m3
VIT_avg	Number	Vitrified, Average, kg/m3
VIT_min	Number	Vitrified, Minimum, kg/m3
VIT_max	Number	Vitrified, Maximum, kg/m3
PM_Steel	Number	Packaging materials, steel, kg/m3
PM_Plastic	Number	Packaging materials, plastic, kg/m3
PM_Lead	Number	Packaging materials, lead kg/m3
FF_End_of_93	Number	The waste volume of the waste on hand at end of year in its estimated Final form for shipment to the WIPP, the increment added during the year.
FF_End_of_94	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_95	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_96	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_97	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_98	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_99	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_00	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.

Appendix L. TWBID Data Dictionary (TWBIR specific tables) (continued)

Table Name Field Name	Type	Description
FF_End_of_01	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_02	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_03	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_04	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_05	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_06	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_07	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_08	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_09	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_10	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_11	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_12	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_13	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_14	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_15	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_16	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_17	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_18	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.

Appendix L. TWBID Data Dictionary (TWBIR specific tables) (continued)

Table Name Field Name	Type	Description
FF_End_of_19	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_20	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_21	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
FF_End_of_22	Number	The waste volume of the waste on hand at end of year in its estimated final form for shipment to the WIPP, the increment added during the year.
ADD>2022	Text	Are projections beyond 2022 added into 2022? (Yes/No)
FF>2022	Number	Amount added into 2022 from years beyond 2022
Comments	Memo	Miscellaneous comments
Container_Footnotes	Memo	Footnotes applicable to a given container/waste combination.
CONTACTS This table contains the list of primary and alternate contacts for both the Treatment and Waste Stream surveys.		
Contact_Code	Text	The unique code generated by the system.
Last_Name	Text	1.2.1/1.3.1 The last name of the contact.
First_Name	Text	1.2.1/1.3.1 The first name of the contact.
Middle	Text	1.2.1/1.3.1 The middle initial of the contact.
Address	Text	1.2.2/1.3.2 The address of the contact.
City	Text	1.2.2/1.3.2 The city of the contact.
State	Text	1.2.2/1.3.2 The state of the contact.
Zip	Text	1.2.2/1.3.2 The ZIP-Code of the contact.
Phone	Text	1.2.3/1.3.3 The phone number of the contact.
Fax	Text	1.2.4/1.3.4 The FAX number of the contact.
E_mail	Text	1.2.5/1.3.5 The E-Mail address of the contact.
TRU_COMPONENTS This table contains the components that apply to this TWBIR waste stream.		
Survey_ID	Text	2.1.1 (8.2.2) The unique waste stream ID generated by the computer and assigned to the questionnaire
TWBIR_ID	Text	8.1 (8.2.1) The Transuranic Waste Baseline Inventory Report ID that applies to this waste stream.
Component	Text	8.2.11 The component found in this TWBIR waste stream with a concentration greater than 1 wt%. (Nitrates, Sulfates, Phosphates)

Appendix L. TWBID Data Dictionary (TWBIR specific tables) (continued)

Table Name Field Name	Type	Description
Component_Exists	Text	8.2.11 Does this component exist in this TWBIR waste stream with a concentration greater than 1 wt%? (Yes, No)
Est_Concentration	Number	8.2.11 The estimated concentration for the component.
TRU_EPA_CODES This table contains the list of EPA codes found in the TWBIR waste stream.		
Survey_ID	Text	2.1.1 (8.2.2) The unique waste stream ID generated by the computer and assigned to the questionnaire.
TWBIR_ID	Text	8.1 (8.2.1) The Transuranic Waste Baseline Inventory Report ID that applies to this waste stream.
EPA_Code	Text	8.2.10.1 The EPA code found in the waste stream. (Look-up EPA_LU)
LDR_Code	Text	8.2.10.1 The LDR code corresponding to the EPA code listed. (Look up EPA_LU)
Contam_Name	Text	8.2.10.1 The contaminant name that corresponds to the EPA code.
Concentration	Text	8.2.10.1 The concentration (typical or range) that this contaminant reaches in the waste stream.
Concentration_Unit	Text	8.2.10.1 The units of measure for the concentration.
Concentration_Basis	Text	8.2.10.1 The basis for the concentration values. (Sampling/Process Knowledge/Both/Unknown)
Total_Or_Extract	Text	8.2.10.1 Distinguishes the nature of the concentration value or range. (Total/Extract/Unknown)
TRU_IDCs This table contains the IDCs that apply to this TWBIR waste stream.		
Survey_ID	Text	2.1.1 (8.2.2) The unique waste stream ID generated by the computer and assigned to the questionnaire.
TWBIR_ID	Text	8.1 (8.2.1) The Transuranic Waste Baseline Inventory Report ID that applies to this waste stream.
IDC	Text	8.2.8 The final waste form IDCs that apply to this TWBIR waste stream.
	TRU_SHC_EST_GENERATION This table contains the annual estimated amounts of shipping container generation for the TWBIR waste stream.	
Survey_ID	Text	2.1.1 (8.2.2) The unique waste stream ID generated by the computer and assigned to the questionnaire.
TWBIR_ID	Text	8.1 (8.2.1) The Transuranic Waste Baseline Inventory Report ID that applies to this waste stream.
Ship_Container	Text	8.2.13 The container type/size used to ship the TWBIR waste stream.
WTWS	Text	A combination of TWBIR_ID and Ship_Container used for table relationships
Year	Number	8.2.15.1.12 The year for which the amounts are estimated.
Est_Containers	Number	8.2.15.1.12 The estimated number of containers that will be generated for the year.

Appendix L. TWBID Data Dictionary (TWBIR specific tables) (continued)

Table Name Field Name	Type	Description
NA	Yes/No	8.2.15.1.12 The number for this year is in the "Number Currently in Storage" (7.2.15.1.9).
Comments	Text	8.2.15.1.12 Comments for the amount listed for the year.
TRU_SHC_ESTIMATES This table contains volumes and estimated values for the shipping container.		
Survey_ID	Text	2.1.1 (8.2.2) The unique waste stream ID generated by the computer and assigned to the questionnaire.
TWBIR_ID	Text	8.1 (8.2.1) The Transuranic Waste Baseline Inventory Report ID that applies to this waste stream.
Ship_Container	Text	8.2.13 The container type/size used to ship the TWBIR waste stream.
WTWS	Text	A combination of TWBIR_ID and Ship_Container used for table relationships
Internal_Volume	Number	8.2.15.1.4 The internal volume (payload volume) per container (m3).
Less350LB	Number	8.2.15.1.5 The estimated percent of containers less than 350lb/container (drums only).
Between350_500LB	Number	8.2.15.1.6 The estimated percent of containers between 350 and 500 lbs/container (drums only).
Less23PUFGE	Number	8.2.15.1.7 The estimated percent of containers with less than 23 Pu-239 Fissile Gram Equivalents (drums only).
Between23_200PUFGE	Number	8.2.15.1.8 The estimated percent of containers with between 23 and 200 Pu-239 Fissile Gram Equivalents (drums only).
Currently_Stored	Number	8.2.15.1.9 The number of this container type currently in storage.
Inventory_Date	Date/Time	8.2.15.1.10 The date of this inventory.
Total_Num_Projected	Number	8.2.15.1.11 The total number of these containers projected from the inventory date to the end of 2022.
FF_Comments	Memo	8.2.15.1.14 Final Form comments.
TRU_SHC_LINER This table contains the liner types used for the shipping container.		
Survey_ID	Text	2.1.1 (8.2.2) The unique waste stream ID generated by the computer and assigned to the questionnaire.
TWBIR_ID	Text	8.1 (8.2.1) The Transuranic Waste Baseline Inventory Report ID that applies to this waste stream.
Ship_Container	Text	8.2.13 The container type/size used to ship the TWBIR waste stream.
WTWS	Text	A combination of TWBIR_ID and Ship_Container used for table relationships
Liner_Type	Text	8.2.15.1.2 The liner types found in this container. Look-up TRU_LINER_LU.
TRU_SHC_LINER_MATERIAL This table contains the liner materials used in the shipping container.		
Survey_ID	Text	2.1.1 (8.2.2) The unique waste stream ID generated by the computer and assigned to the questionnaire.

Appendix L. TWBID Data Dictionary (TWBIR specific tables) (continued)

Table Name Field Name	Type	Description
TWBIR_ID	Text	8.1 (8.2.1) The Transuranic Waste Baseline Inventory Report ID that applies to this waste stream.
Ship_Container	Text	8.2.13 The container type/size used to ship the TWBIR waste stream.
WTWS	Text	A combination of TWBIR_ID and Ship_Container used for table relationships
Liner_Material	Text	8.2.15.1.3 The material used to line the container. Look-up TRU_LINER_MATERIAL_LU.
Liner_Material_Other	Text	8.2.15.1.3 The (other) liner material used in the container.
TRU_SHC_MATERIAL This table contains the construction materials used for the shipping container.		
Survey_ID	Text	2.1.1 (8.2.2) The unique waste stream ID generated by the computer and assigned to the questionnaire.
TWBIR_ID	Text	8.1 (8.2.1) The Transuranic Waste Baseline Inventory Report ID that applies to this waste stream.
Ship_Container	Text	8.2.13 The container type/size used to ship the TWBIR waste stream.
WTWS	Text	A combination of TWBIR_ID and Ship_Container used for table relationships
Material	Text	8.2.15.1.1 The material used to construct the container. Look-up TRU_MATERIAL_LU.
Material_Other	Text	8.2.15.1.1 The (other) material used to construct the container.
TRU_SHC_WEIGHTS This table contains the typical waste material weights for the Final Waste Form for the shipping container in the TWBIR waste stream.		
Survey_ID	Text	2.1.1 (8.2.2) The unique waste stream ID generated by the computer and assigned to the questionnaire.
TWBIR_ID	Text	8.1 (8.2.1) The Transuranic Waste Baseline Inventory Report ID that applies to this waste stream.
Ship_Container	Text	8.2.13 The container type/size used to ship the TWBIR waste stream.
WTWS	Text	A combination of TWBIR_ID and Ship_Container used for table relationships
Material_Parameter	Text	8.2.15.1.13 The material parameter. Look-up TRU_WEIGHTS_LU.
Avg	Number	8.2.15.1.13 The average weight of this material.
LL	Number	8.2.15.1.13 The lower limit for the weight of this material.
UL	Number	8.2.15.1.13 The upper limit for the weight of this material.
Comments	Text	8.2.15.1.13 Any comments applicable.
TRU_SHIP_CONTAINER This table contains the current container type/sizes used to store the TWBIR waste stream.		
Survey_ID	Text	2.1.1 (8.2.2) The unique waste stream ID generated by the computer and assigned to the questionnaire.

Appendix L. TWBID Data Dictionary (TWBIR specific tables) (continued)

Table Name Field Name	Type	Description
TWBIR_ID	Text	8.1 (8.2.1) The Transuranic Waste Baseline Inventory Report ID that applies to this waste stream.
Ship_Container	Text	8.2.13 The container type that will be used to ship the final forms of this TWBIR waste stream to WIPP. Look-up TRU_SHIP_CONTAINER_LU.
WTWS	Text	A combination of TWBIR_ID and Ship_Container used for table relationships
Same_Nucs	Text	8.2.13 Is the radionuclide information for this container the same as reported in section 3.2.6? (Yes;No)
TRU_STC_EST_GENERATION This table contains the annual estimated amounts of storage container generation for the TWBIR waste stream.		
Survey_ID	Text	2.1.1 (8.2.2) The unique waste stream ID generated by the computer and assigned to the questionnaire.
TWBIR_ID	Text	8.1 (8.2.1) The Transuranic Waste Baseline Inventory Report ID that applies to this waste stream.
Stor_Container	Text	8.2.12 The container type/size used to store the TWBIR waste stream.
WTWS	Text	A combination of TWBIR_ID and Stor_Container used for table relationships
Year	Number	8.2.14.1.12 The year for which the amounts are estimated.
Est_Containers	Number	8.2.14.1.12 The estimated number of containers that will be generated for the year.
NA	Yes/No	8.2.14.1.12 The number for this year is in the "Number Currently in Storage" (7.2.14.1.9).
Comments	Text	8.2.14.1.12 Comments for the amount listed for the year.
TRU_STC_ESTIMATES This table contains volumes and estimated values for the storage container.		
Survey_ID	Text	2.1.1 (8.2.2) The unique waste stream ID generated by the computer and assigned to the questionnaire.
TWBIR_ID	Text	8.1 (8.2.1) The Transuranic Waste Baseline Inventory Report ID that applies to this waste stream.
Stor_Container	Text	8.2.12 The container type/size used to store the TWBIR waste stream.
WTWS	Text	A combination of TWBIR_ID and Stor_Container used for table relationships
Internal_Volume	Number	8.2.14.1.4 The internal volume (payload volume) per container (m3).
Less350LB	Number	8.2.14.1.5 The estimated percent of containers less than 350lb/container (drums only).
Between350_500LB	Number	8.2.14.1.6 The estimated percent of containers between 350 and 500 lbs/container (drums only).
Less23PUFGE	Number	8.2.14.1.7 The estimated percent of containers with less than 23 Pu-239 Fissile Gram Equivalents (drums only).
Between23_200PUFGE	Number	8.2.14.1.8 The estimated percent of containers with between 23 and 200 Pu-239 Fissile Gram Equivalents (drums only).

Appendix L. TWBID Data Dictionary (TWBIR specific tables) (continued)

Table Name Field Name	Type	Description
Currently_Stored	Number	8.2.14.1.9 The number of this container type currently in storage.
Inventory_Date	Date/Time	8.2.14.1.10 The date of this inventory.
Total_Num_Projected	Number	8.2.14.1.11 The total number of these containers projected from the inventory date to the end of 2022.
TRU_STC_LINER This table contains the liner types used for the storage container.		
Survey_ID	Text	2.1.1 (8.2.2) The unique waste stream ID generated by the computer and assigned to the questionnaire.
TWBIR_ID	Text	8.1 (8.2.1) The Transuranic Waste Baseline Inventory Report ID that applies to this waste stream.
Stor_Container	Text	8.2.12 The container type/size used to store the TWBIR waste stream.
WTWS	Text	A combination of TWBIR_ID and Stor_Container used for table relationships
Liner_Type	Text	8.2.14.1.2 The liner types found in this container. Look-up TRU_LINER_LU.
TRU_STC_LINER_MATERIAL This table contains the liner materials used in the storage container.		
Survey_ID	Text	2.1.1 (8.2.2) The unique waste stream ID generated by the computer and assigned to the questionnaire.
TWBIR_ID	Text	8.1 (8.2.1) The Transuranic Waste Baseline Inventory Report ID that applies to this waste stream.
Stor_Container	Text	8.2.12 The container type/size used to store the TWBIR waste stream.
WTWS	Text	A combination of TWBIR_ID and Stor_Container used for table relationships
Liner_Material	Text	8.2.14.1.3 The material used to line the container. Look-up TRU_LINER_MATERIAL_LU.
Liner_Material_Other	Text	8.2.14.1.3 The (other) liner material used in the container.
TRU_STC_MATERIAL This table contains the construction materials used for the storage container.		
Survey_ID	Text	2.1.1 (8.2.2) The unique waste stream ID generated by the computer and assigned to the questionnaire.
TWBIR_ID	Text	8.1 (8.2.1) The Transuranic Waste Baseline Inventory Report ID that applies to this waste stream.
Stor_Container	Text	8.2.12 The container type/size used to store the TWBIR waste stream.
WTWS	Text	A combination of TWBIR_ID and Stor_Container used for table relationships
Material	Text	8.2.14.1.1 The material used to construct the container. Look-up TRU_MATERIAL_LU.
Material_Other	Text	8.2.14.1.1 The (other) material used to construct the container.

Appendix L. TWBID Data Dictionary (TWBIR specific tables) (continued)

Table Name Field Name	Type	Description
TRU_STC_TRAMPAC This table contains information concerning TRAMPAC Certifiability.		
Survey_ID	Text	2.1.1 (8.2.2) The unique waste stream ID generated by the computer and assigned to the questionnaire.
TWBIR_ID	Text	8.1 (8.2.1) The Transuranic Waste Baseline Inventory Report ID that applies to this waste stream.
Stor_Container	Text	8.2.12 The container type/size used to store the TWBIR waste stream.
WTWS	Text	A combination of TWBIR_ID and Stor_Container used for table relationships
TRAMPAC_Cert	Text	8.2.14.1.14.1 Are all of this current container type/size certifiable to TRAMPAC (shipment to WIPP via TRUPACT-II (Yes; No)
Num_Non_Cert	Number	8.2.14.1.14.2 What percent of these containers are non-certifiable?
FiltLiner_Required	Text	8.2.14.1.14.3.1 For containers not certifiable to TRAMPAC, are Filters/Liner vents required? (No ; Yes)
Num_FiltLiner_Required	Number	8.2.14.1.14.3.1.1 The percent of the non-certifiable containers that require filter/liner vents.
Repack_Required	Text	8.2.14.1.14.3.2 For containers not certifiable to TRAMPAC, is repackaging required? (No; Yes)
Num_Repack_Required	Number	8.2.14.1.14.3.2.1 The percent of the non-certifiable containers that require repackaging.
Treatment_Required	Text	8.2.14.1.14.3.3 For containers not certifiable to TRAMPAC, is treatment required? (No; Yes)
Num_Treatment_Required	Number	8.2.14.1.14.3.3.1 The percent of the non-certifiable containers that require treatment.
CF_Comments	Memo	8.2.14.1.14.4 Current Form comments.
TRU_STC_TRAMPAC_REPACK This table contains information concerning containers not-certifiable to TRAMPAC due to repackaging requirements.		
Survey_ID	Text	2.1.1 (8.2.2) The unique waste stream ID generated by the computer and assigned to the questionnaire.
TWBIR_ID	Text	8.1 (8.2.1) The Transuranic Waste Baseline Inventory Report ID that applies to this waste stream.
Stor_Container	Text	8.2.12 The container type/size used to store the TWBIR waste stream.
WTWS	Text	A combination of TWBIR_ID and Stor_Container used for table relationships
Repack_Cause	Text	8.2.14.1.13.3.1.2 The cause of repackaging required. Look-up TRU_REPACK_LU
Repack_Cause_Other	Text	8.2.14.1.13.3.1.2 The (other) cause of repackaging required.
Containers_Affected	Number	8.2.14.1.13.3.1.2 The estimated percent of containers affected.

Appendix L. TWBID Data Dictionary (TWBIR specific tables) (continued)

Table Name Field Name	Type	Description
TRU_STC_TRAMPAC_TREAT This table contains information concerning containers not-certifiable to TRAMPAC due to treatment requirements.		
Survey_ID	Text	2.1.1 (8.2.2) The unique waste stream ID generated by the computer and assigned to the questionnaire.
TWBIR_ID	Text	8.1 (8.2.1) The Transuranic Waste Baseline Inventory Report ID that applies to this waste stream.
Stor_Container	Text	8.2.12 The container type/size used to store the TWBIR waste stream.
WTWS	Text	A combination of TWBIR_ID and Stor_Container used for table relationships
Treatment_Cause	Text	8.2.14.1.13.3.2.2 The cause of treatment required. Look-up TRU_TREATMENT_LU
Treatment_Cause_Other	Text	8.2.14.1.13.3.2.2 The (other) cause of repackaging required.
Containers_Affected	Number	8.2.14.1.13.3.2.2 The estimated percent of containers affected.
TRU_STC_WACv3 This table contains information concerning the WAC Revision 3 Certifiability.		
Survey_ID	Text	2.1.1 (8.2.2) The unique waste stream ID generated by the computer and assigned to the questionnaire.
TWBIR_ID	Text	8.1 (8.2.1) The Transuranic Waste Baseline Inventory Report ID that applies to this waste stream.
Stor_Container	Text	8.2.12 The container type/size used to store the TWBIR waste stream.
WTWS	Text	A combination of TWBIR_ID and Stor_Container used for table relationships
WIPPWACv3_Cert	Text	8.2.14.1.13.1 Are all of this current container type/size certifiable to WIPP WAC Revision 3? (Yes; No)
Num_Non_Cert	Number	8.2.14.1.13.2 What percent of these containers are non-certifiable?
Repack_Required	Text	8.2.14.1.13.3.1 For containers not certifiable to WIPP WAC Revision 3, is repackaging required? (No; Yes)
Num_Repack_Required	Number	8.2.14.1.13.3.1.1 The percent of the non-certifiable containers that require repackaging.
Treatment_Required	Text	8.2.14.1.13.3.2 For containers not certifiable to WIPP WAC Revision 3, is treatment required? (No; Yes)
Num_Treatment_Required	Number	8.2.14.1.13.3.2.1 The percent of the non-certifiable containers that require treatment.
TRU_STC_WACv3_REPACK This table contains information concerning containers not-certifiable to WIPP WAC Revision 3 due to repackaging requirements.		
Survey_ID	Text	2.1.1 (8.2.2) The unique waste stream ID generated by the computer and assigned to the questionnaire.
TWBIR_ID	Text	8.1 (8.2.1) The Transuranic Waste Baseline Inventory Report ID that applies to this waste stream.
Stor_Container	Text	8.2.12 The container type/size used to store the TWBIR waste stream.

Appendix L. TWBID Data Dictionary (TWBIR specific tables) (continued)

Table Name Field Name	Type	Description
WTWS	Text	A combination of TWBIR_ID and Stor_Container used for table relationships
Repack_Cause	Text	8.2.14.1.13.3.1.2 The cause of repackaging required. Look-up TRU_REPACK_LU
Repack_Cause_Other	Text	8.2.14.1.13.3.1.2 The (other) cause of repackaging required.
Containers_Affected	Number	8.2.14.1.13.3.1.2 The estimated percent of containers affected.
TRU_STC_WACv3_TREAT This table contains information concerning containers not-certifiable to WIPP WAC Revision 3 due to treatment requirements.		
Survey_ID	Text	2.1.1 (8.2.2) The unique waste stream ID generated by the computer and assigned to the questionnaire.
TWBIR_ID	Text	8.1 (8.2.1) The Transuranic Waste Baseline Inventory Report ID that applies to this waste stream.
Stor_Container	Text	8.2.12 The container type/size used to store the TWBIR waste stream.
WTWS	Text	A combination of TWBIR_ID and Stor_Container used for table relationships
Treatment_Cause	Text	8.2.14.1.13.3.2.2 The cause of treatment required. Look-Up TRU_TREATMENT_LU
Treatment_Cause_Other	Text	8.2.14.1.13.3.2.2 The (other) cause of repackaging required.
Containers_Affected	Number	8.2.14.1.13.3.2.2 The estimated percent of containers affected.
TRU_STOR_CONTAINER This table contains the current container type/sizes used to store the TWBIR waste stream.		
Survey_ID	Text	2.1.1 (8.2.2) The unique waste stream ID generated by the computer and assigned to the questionnaire.
TWBIR_ID	Text	8.1 (8.2.1) The Transuranic Waste Baseline Inventory Report ID that applies to this waste stream.
WTWS	Text	A combination of TWBIR_ID and Stor_Container used for table relationships
Stor_Container	Text	8.2.12 The container type/size used to store the TWBIR waste stream.
Same_Nucs	Text	8.2.12 Is the radionuclide information for this container the same as reported in section 3.2.6? (Yes;No)
Container_Comments	Text	8.2.12 Container Comments
TRU_TRUCON_CODES This table contains the TRUCON codes that apply to this TWBIR waste stream.		
Survey_ID	Text	2.1.1 (8.2.2) The unique waste stream ID generated by the computer and assigned to the questionnaire.
TWBIR_ID	Text	8.1 (8.2.1) The Transuranic Waste Baseline Inventory Report ID that applies to this waste stream.
TRUCON_Code	Text	8.2.7 The TRUCON code that applies to this TWBIR waste stream.

Appendix L. TWBID Data Dictionary (TWBIR specific tables) (continued)

Table Name Field Name	Type	Description
EPACODES This table contains the list of EPA codes found in the waste stream.		
Survey_ID	Text	2.1.1 The unique waste stream ID generated by the computer and assigned to the questionnaire.
TWBIR_ID	Text	8.1 (8.2.1) The Transuranic Waste Baseline Inventory Report ID that applies to this waste stream.
EPA_Code	Text	3.4.3 The EPA code found in the waste stream. (Look-up EPA_LU)
LDR_Code	Text	3.4.3 The LDR code corresponding to the EPA code listed. (Look-up EPA_LU)
Contam_Name	Text	3.4.3 The contaminant name that corresponds to the EPA code.
Concentration	Text	3.4.3 The concentration (typical or range) that this contaminant reaches in the waste stream.
Concentration_Unit	Text	3.4.3 The units of measure for the concentration.
Concentration_Basis	Text	3.4.3 The basis for the concentration values. (Sampling/Process Knowledge/Both/Unknown)
Total_Or_Extract	Text	3.4.3 Distinguishes the nature of the concentration value or range. (Total/Extract/Unknown)
WS_GEN_SITES This table contains the names of the sites that generated this waste stream for the		
survey.		
Survey_ID	Text	2.1.1 The unique waste stream ID generated by the computer and assigned to the questionnaire.
Site_Code	Text	2.3.3 The code of the site that generated this waste stream.
Site_Name	Text	2.3.3a The name of the site that generated this waste stream.
WS_GENERATION This table contains waste stream generation information.		
Survey_Id	Text	2.1.1 The unique waste stream ID generated by the computer and assigned to the questionnaire.
Generation	Text	5.1.1 Is this waste stream currently generated or, if not, will this waste stream be generated in the future? (Yes/No)
Generation_Desc	Text	5.1.2 The current of future generation of this waste is best described as; (Routine/One-time, or sporadic)
WT_WS_RAD_CONC This table contains the radionuclides found in the waste stream for this survey.		
Survey_ID	Text	2.1.1 The unique waste stream ID generated by the computer and assigned to the questionnaire.
TWBIR_ID	Text	8.1 (8.2.1) The Transuranic Waste Baseline Inventory Report ID that applies to this waste stream.
Radionuclide	Text	3.2.6 The radionuclide found in the waste stream. (Look-up Radionuclide_LU)
Rad_Other	Text	3.2.6 The (Other) radionuclide.

Appendix L. TWBID Data Dictionary (TWBIR specific tables) (continued)

Table Name Field Name	Type	Description
Concentration_Value	Number	3.2.6 The typical concentration for this radionuclide.
Concentration_Units	Text	3.2.6 The units of measure for the concentration.
Concentration_Basis	Text	3.2.6 The basis for the concentration values. (Sampling/Process
Knowledge/Both/Unknown)		
WS_SECONDARY_ID This table contains the secondary stream IDs created as a result of treatment of the parent waste stream.		
Survey_ID	Text	2.1.1 The unique waste stream ID generated by the computer and assigned to the questionnaire.
Secondary_ID	Text	6.2.2.1 The secondary ID, for the waste stream created as a result of treatment of the parent waste stream.
WS_STORAGE This table contains the storage methods used for the waste stream.		
Survey_ID	Text	2.1.1 The unique waste stream ID generated by the computer and assigned to the questionnaire.
Storage	Text	6.1.1.1 What is the storage method for this waste stream? (Look-up WS_Storage_LU)
Storage_Other	Text	6.1.1.1.5 The (other) storage method used for this waste stream.
WS_STORAGE_FAC This table contains the facilities where the waste stream is being stored.		
Survey_ID	Text	2.1.1 The unique waste stream ID generated by the computer and assigned to the questionnaire.
Facility_Name	Text	6.1.1.2 The facility name where the waste stream is stored.
Building_Number	Text	6.1.1.2 The building number where the waste stream is stored.
WS_SURVEY_INFO This table contains the information contacts for the survey.		
Survey_ID	Text	2.1.1 The unique waste stream ID generated by the computer and assigned to the questionnaire.
Site_Code	Text	1.1.1 The code of the site for this survey. Look-up SITE_LU.Site_Code.
Ops_Code	Text	1.1.2 The code of the operations office for this survey. Look-up SITE_LU.Ops_Code.
State	Text	1.1.3 The state for this survey. Look-up SITE_LU.State.
Pri_Contact_Code	Text	1.2 The code for the primary contact. Look-up CONTACTS.Contact_Code.
Alt_Contact_Code	Text	1.3 The code for the alternate contact. Look-up CONTACTS.Contact_Code.

APPENDIX M

M

APPENDIX M
CALCULATION OF PACKAGING MATERIALS FOR DIFFERENT CONTAINERS

The calculations for the amount of packaging materials (i.e., steel, plastic, or lead) present in each type of TRU waste container that is currently planned to be shipped to WIPP are based on the packaging material assumptions stated in Chapter 1. The actual calculations to estimate the amount of each packaging material in kilograms per cubic meter (kg/m^3) is presented in Sections M.1 to M.5.

M.1 Packaging Materials for a 55-gallon drum

Steel
Based on the assumption that a 55-gallon drum is made up of steel and weighs 60 pounds, the amount of steel is calculated as follows:

$$\text{Amount of steel} = \frac{60 \text{ lbs} / (2.205 \text{ lbs/kg})}{0.208 \text{ m}^3 \text{ per drum}} = 130.8 \text{ kg/m}^3$$

Plastic
Based on the assumption that the rigid liner in a 55-gallon drum weighs 7.7 kilograms, the amount of plastic packaging in a 55-gallon drum is calculated as follows:

$$\text{Amount of plastic} = \frac{7.7 \text{ kg}}{0.208 \text{ m}^3} = 37.01 \text{ kg/m}^3$$

M.2 Packaging Materials for a Direct-Load SWB

Steel
Based on the assumption that a SWB is made up of steel and weighs 640 pounds, the amount of steel is calculated as follows:

$$\text{Amount of steel} = \frac{640 \text{ lbs} / (2.205 \text{ lbs/kg})}{1.89 \text{ m}^3 \text{ per SWB}} = 153.5 \text{ kg/m}^3$$

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Plastic

Based on the assumption that the 11-mil PVC liner in a directly loaded SWB weighs approximately 2.25 kilograms, the amount of plastic packaging in a directly loaded SWB is calculated as follows:

$$\text{Amount of plastic} = \frac{2.25 \text{ kg}}{1.89 \text{ m}^3} = 1.19 \text{ kg/m}^3$$

M.3 Packaging Materials for an SWB Used to Overpack Four 55-gallon Drums

Steel

For the case of four 55-gallon drums overpacked in a SWB, the total weight of steel is a combination of the steel in the SWB and the steel in the four 55-gallon drums. Based on the assumptions made earlier about the weight of a 55-gallon drum (60 lbs) and the weight of a SWB (640 lbs) the amount of steel is calculated as follows:

$$\text{Amount of steel} = \frac{(4 \times 60 + 640)\ \text{lbs} / (2.205\ \text{lbs/kg})}{1.89\ \text{m}^3\ \text{per SWB}} = 211.1\ \text{kg/m}^3$$

Plastic

It is assumed that the 11-mil PVC liner for the SWB will not be used when the drums are overpacked in the SWB. Thus, the plastic will be contributed entirely by the rigid liners in the four overpacked drums. Based on the assumption, the amount of plastic packaging is calculated as follows:

$$\text{Amount of plastic} = \frac{4\ \text{drums} \times 7.7\ \text{kg of plastic per drum}}{1.89\ \text{m}^3\ \text{per SWB}} = 16.29\ \text{kg/m}^3$$

M.4 Packaging Materials for a Direct-Load RH Canister

Steel

The total weight of an empty RH Canister is 1,762 lbs, of which 852 lbs is steel and 910 lbs is lead. This does not include the shield plug. Based on the 852 lbs of steel and a volume of 0.89 m^3 for the RH Canister, the amount of steel is calculated as follows:

$$\text{Amount of steel} = \frac{852\ \text{lbs} / (2.205\ \text{lbs/kg})}{0.89\ \text{m}^3\ \text{per RH Canister}} = 434.15\ \text{kg/m}^3$$

Plastic

For a directly loaded RH Canister, it is assumed that there would not be any plastic packaging involved. Therefore, the amount of plastic for this case is zero.

Lead

Based on the 910 lbs of lead in an RH Canister mentioned earlier and a volume of 0.89 m^3 for the RH Canister, the amount of lead is calculated as follows:

$$\text{Amount of lead} = \frac{910\ \text{lbs} / (2.205\ \text{lbs/kg})}{0.89\ \text{m}^3\ \text{per RH Canister}} = 463.7\ \text{kg/m}^3$$

M.5 Packaging Materials for an RH Canister Used to Overpack Three 55-gallon Drums

Steel

For the case of three 55-gallon drums overpacked in an RH Canister, the total weight of steel is a combination of the steel in the RH Canister and the steel in the three 55-gallon drums. Based on the assumptions made earlier about the weight of a 55-gallon drum (60 lbs) and the weight of steel in an RH Canister (852 lbs) the amount of steel is calculated as follows:

$$\text{Amount of steel} = \frac{(3 \times 60 + 852)\ \text{lbs} / (2.205\ \text{lbs/kg})}{0.89\ \text{m}^3\ \text{per RH Canister}} = 525.8\ \text{kg/m}^3$$

Plastic

The plastic will be contributed entirely by the rigid liners in the three overpacked drums. Based on the assumption, the amount of plastic packaging is calculated as follows:

$$\text{Amount of plastic} = \frac{3\ \text{drums} \times 7.7\ \text{kg of plastic per drum}}{0.89\ \text{m}^3\ \text{per RH Canister}} = 25.9\ \text{kg/m}^3$$

Lead

Since the 55-gallon drums do not contribute any lead, the calculation for this case is the same as that of a directly loaded RH Canister. Thus, based on the 910 lbs of lead in an RH Canister mentioned earlier and a volume of 0.89 m^3 for the RH Canister, the amount of lead is calculated as follows:

$$\text{Amount of lead} = \frac{910\ \text{lbs} / (2.205\ \text{lbs/kg})}{0.89\ \text{m}^3\ \text{per RH Canister}} = 463.7\ \text{kg/m}^3$$

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APPENDIX N

M

APPENDIX N
GUIDELINES FOR REVIEW OF TRU WASTE GENERATOR/STORAGE SITE WASTE STREAM PROFILES

1.1.1 *DOE Site Name:* Must contain two-letter site code

2.1.1 *Unique HQ WS ID:* Formerly called the MWIR ID. Same as 8.2.2. The HQ ID must begin with the two digit site identifier, followed by the letter "W", then a three digit number (i.e., RF-W012). If this number does not directly relate to the WTWBIR WS ID, verify that this is the intent of the site.

2.1.2 *Site WS ID:* Should contain the site identifier(s) used by the sites, but does not necessarily have to be filled in

2.1.3 *Waste Stream Name:* Name filled in should correlate well with answers to Description (3.1), and Final Waste Form Group (8.2.3)

2.1.4 *PSTP WS ID:* Should only be in the following format DD-WXXX, also make sure this is a MTRU stream in the answer to 3.2.1

2.3.1 *Waste Stream Source Description:* Make sure the description is consistent with the source category chosen in the next question (2.3.2)

2.3.2 *Source Category:* Make sure that only one of these is checked and it is consistent with the response to 2.3.1.

2.3.3 *Generator Site Name:* Must contain two letter code. If this is different from the answer to 1.1.1, then do a reality check to make sure that it is not an error. In most cases this should be the same as 1.1.1

3.1 *Waste Stream Description*: Description should correlate well with answers to Waste Stream Name (2.1.3), and Final Waste Form Group (8.2.3)

3.2.1 *Waste Type:* Only TRU or MTRU should be checked

3.2.2 *Waste Handling:* Only one of the choices should be checked (either CH or RH)

3.2.6 *Radionuclide:* Make sure that the "typical" value reported does not fall outside of the reported "range". Check for consistency of reporting format to make sure that there is enough information to report the data in terms of Ci/m^3 if necessary. Also, look out for any obvious errors or typos (e.g., Ca instead of Cs). Check with Appendix A of the WTWBIR

Revision 1 to determine if the radionuclides are reasonable (i.e., curie counts are similar or the same)in comparison to the radionuclides presented in this section.

3.4.3 *EPA/State Regulated Contaminant List:* If the response to 3.2.1 is MTRU, then there should be some EPA codes here, otherwise this field should be empty. Check if Appendix VIII information is listed. If none is listed check cover letter or comment section. If no information from site, call site to check why Appendix VIII is not listed (i.e., whether it is not listed due to lack of information or whether the site knows for sure that these are not present in the waste).

3.4.4 thru 3.4.6.2 Make sure that only one option is filled for each question, and the responses are consistent.

8. WIPP Transuranic Waste Baseline Inventory Report (WTWBIR) Data Requirements

8.1 Provide the WTWBIR WS ID numbers that apply to this MWIR WS

8.1.1 thru *8.1.#* *WTWBIR ID*: The WTWBIR ID should start with the site identifier (see Figure 1-1 of the WTWBIR Rev. 1, or contact Eric Krieger for new sites). The next code is generally a "W", "M", or "T". The WTWBIR ID can be any number series generated by the sites. The only requirement is that it begin with the two digit site identifier.

8.2 WTWBIR Level of Information (Repeat this section for each WTWBIR WS ID listed in section 8.1)

8.2.1 *WTWBIR WS ID:* Make sure that the number entered is the same as that which was entered in 8.1.

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WTWBIR WS Name: Use the appropriate site-specific, unique descriptive identifier for a TRU waste stream. (i.e., metal debris, rubber/plastic debris, heterogeneous debris, HEPA filters, etc).

8.2.2 *Unique HQ WS ID:* Formerly called the MWIR ID. Same as 2.1.1. The HQ ID must begin with the two digit site identifier, followed by the letter "W", then a three digit number (i.e., RF-W012). If this number does not directly relate to the WTWBIR WS ID, verify that this is the intent of the site.

MWIR WS Name: Use the appropriate site-specific, unique descriptive identifier for a MWIR (HQ WS ID) waste stream. (i.e., metal debris, rubber/plastic debris, heterogeneous debris, HEPA filters, etc).

WS Difference Comments: Comments relating to the differences between the MWIR WS and the WTWBIR WS. In addition, any comments relating to subdivision of the MWIR WS.

8.2.3 *Final Waste Form Group: Select the one that best represents the overall WS.* The Final Waste Form Group should be consistent with the *Typical Waste Material Weights for Final Waste Form* in section 8.2.15.1.14 or 8.2.15.x.10 (as applicable) and section 3.1, Waste Stream Description. The reviewer needs to check to see if the Final Waste Form Group entry is consistent with the Updated Waste Matrix Code Group Numbers supplied for this review. If the Final Waste Form Group entry is NOT consistent with the Updated Waste Matrix Code Group Numbers, then verify with the site.

8.2.4 *Does the WTWBIR WS contain residues?* Yes or No should be checked. Sites expected to have residues per the Defense Nuclear Facilities Safety Board Recommendation 94-1 include Rocky Flats, Savannah River Site, Richland (Hanford), Los Alamos, and Lawrence Livermore

8.2.5 *WTWBIR WS source:* Only one category should be checked. If any of the major sites check anything other than defense, you will need to verify this with the site.

8.2.6 *NMVP ID:* Use the content code from Table 2-1 Vol. II of the NMVP. Not all WS's will have a NMVP ID. NA should be used if the WS does not appear in the NMVP. If something is filled in for the NMVP ID, there should also be an entry for the TRUCON Code in section 8.2.7. If the NMVP ID is left blank, check the NMVP Table 2-1, or verify with the site. For RH TRU waste this should be blank or N/A.

8.2.7 *Applicable TRUCON codes:* TRUCON codes are obtained from the content code assessments sections of the DOE document TRUPACT-II Content Codes (TRUCON) and are listed by major site. (Chapters 12 to 21 in Rev. 4). More than one TRUCON code may apply. Assignment should be made at the time of waste stream profile review. The TRUCON Code should correlate to the entry to Final Waste Form Group, section 8.2.3. If the category is left blank, check the TRUCON Codes (Chapters 12 to 21 in Rev. 4), or verify with the site. Table 3 "Content Codes for Newly Generated Waste" and Table 4 "Content Codes for Retrievably Stored Waste" are included as an attachment to verify these codes.

8.2.8 *Applicable Final IDC's*: Site specific code. Can be cross referenced with TRUCON content code. This may be left blank.

8.2.9 *WTWBIR WS same as MWIR WS from section 2.3:* Check with section 2.3 for information on MWIR WS. If yes, get the information from section 2.3 and 2.3.2. If No, section 8.2.9.1 should contain information relative to the differences between the WTWBIR WS and the MWIR WS (i.e., major inputs into the process, any reactions that changed materials in the process and any additions to the waste stream which resulted in the final waste form). If no further treatment is planned before shipment to WIPP, the description should be consistent with the Final Waste Form Group in section 8.2.3 and the distribution of waste material parameters to be provided in section 8.2.15.1.14 and any of 8.2.15.x.10 (as applicable). Section 8.2.9.2 should have only one category checked. There may be entries that contain more than one category. These types of entries should be explained in 8.2.9.1.

8.2.10 *WTWBIR WS same as MWIR WS from section 3.4.3:* Check with section 3.4.3 for information on MWIR WS. If yes, get information from 3.4.3. If no, continue to section 8.2.10.1; EPA/State Regulated Contaminant List should contain a subset of the same information as 3.4.3. If the response to section 3.2.1 is MTRU, then there should be some EPA codes in section 8.2.10.1, otherwise this field should be blank. Check if Appendix VIII information is listed. If none is listed check cover letter or comment section. If no information from site, call site to check why Appendix VIII is not listed (i.e., whether it is not listed due to lack of information or whether the site knows for sure that these are not present in the waste).

8.2.11 *Concentrations greater than 1 wt% in WTWBIR WS:* (Data for SNL); Nitrates, Sulfates, Phosphate. If the answer in the Y/N column is Y, but no estimated concentrations are provided, a description of the source of the component and the reasons for the unknown estimated concentrations should be provided. If a blank or an N is shown for a waste stream such as a solidified sludge, make a note for review of data for the WTWBIR team, there may be a need to verify with the site.

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8.2.12 *Container types and size that are used/have been used/will be used to STORE this WTWBIR WS (e.g., Drum/55 gal; Box/4 x 4 x 7 ft; Box 112 ft^3; SWB).* This information defines current and planned containers and will be used in section 8.2.14. All TRU waste whether it is to be sent to WIPP or not should be included in this table. Column one: Current container type/size Column two: Are radionuclides the same as section 3.2.6 for the MWIR (Yes/No); If yes, the information will be used for the WTWBIR. If NO is entered, reasons for difference should be in

column three; Column three: Comments should be on each container listed in column one that do not have the same radionuclides as those used in section 3.2.6.

If the isotopic distribution is the same but the concentration is different, the value by which to multiply the concentrations in section 3.2.6 should be provided to obtain the concentrations for the given container in the comment field. If the isotopic distribution is different it should be indicated in the comment field for the given container type and a table should be provided (similar to the table in section 3.2.6) for the container type and WTWBIR WS ID. This table should be on hard copy or in the comment section of 8.2.14.1.14.3.4.

8.2.13 *Selection of container types that will be used to ship the final forms of the WTWBIR WS to WIPP (indicate all that apply).* All waste that is planned for disposal in the WIPP repository should be included in this table. Column two: Select type(s) that will apply to final waste form container (Y/N); The container(s) picked by the generator/storage site will be used in section 8.2.15; Column three: Are radionuclides the same as section 3.2.6 for the MWIR (Yes/No). If Y is entered, WTWBIR will use the information provided in section 3.2.6. If N is entered, the differences should be described in the appropriate comment section for the given container; e.i., Section 8.2.15.1.12 (55 gallon drum), 8.2.15.2.8(SWB), 8.2.15.3.8 (SWB used to overpack 55 gallon drums), 8.2.15.4.8 (RH canister), 8.2.15.5.8 (RH canisters used to overpack 55 gallon drums), or section 8.2.15.6.8 (RH canisters used to overpack 30 gallon drums). A table should also be provided (similar to the table in section 3.2.6) for the container type and WTWBIR WS ID. This table should be on hard copy or in the comment section of 8.2.14.1.14.3.4.

If the isotopic distribution is the same but the concentration is different, the value by which to multiply the concentrations in section 3.2.6 should be provided to obtain the concentrations for the given container in the comment field.

8.2.14 *Current container information for this WTWBIR WS:* This section requests information for the waste in the current or planned packaging. WIPP prefers that a separate 8.2.14.x (where x represents a separate package type defined by 1, 2, etc.) Where this is not appropriate, multiple answers are permitted for some questions to accommodate the situation. This entry should be consistent with 8.2.12.

8.2.14.1 *Current container type/size:* This field should contain a description of the container as to size or volume. It should not indicate the composition of the container (e.g., steel). Examples of entries that might occur:

Under "Drum" - 55 gallon; 30 gallon; 83 gallon
Under "SWB" - nothing
Under "Box" - the size (4x4x7) or name of box (#6)
Under "SWB Overpack" - nothing

This information should have automatically transferred from section 8.2.12. Check to make sure that the entry is consistent with 8.2.12.

8.2.14.1.1 *Material of construction (check all that apply):* This should indicate the composition of the container in the current container field, section 8.2.14.1. E.g., Carbon steel, Stainless steel, Wood etc. If "Other" is used, check to sure that it is reasonable. If more than one entry is made (e.g., carbon steel and stainless steel), then the response should include enough information to match the *Type/Size* of the container to its material of construction.

8.2.14.1.2 *Liner types (check all that apply):* This should indicate the type of liner used in the packaging of the current container field, section 8.2.14.1. E.g., Bag, Rigid liner, etc. NOTE: If only some containers include internal shielding or liners, a description of the approximate percent of containers with shielding or liners should be in the comment section 8.2.14.1.14.3.4. If more than one entry is made (e.g., bag and rigid liner), then the response should include enough information to match the *Type/Size* of the container to its liner type.

8.2.14.1.3 *Liner material (check all that apply):* This should indicate the composition of the liner(s) in the Liner type field used in the current container(s). E.g., Cement, HDPE, Plastic. etc. If "Other" is used, check to make sure that it is reasonable. If the section is left blank, make a note for the WTWBIR team to review this data and determine if there is a need to verify the lack of information with the site. If more than one entry is made (e.g., HDPE and fiberboard), then the response should include enough information to match the *Type/Size* of the container to its liner material.

8.2.14.1.4 *Internal volume (payload volume) per container in m^3*: NOTE: If the current container type includes several sizes, an average internal volume for all the sizes will be used (e.g., 55 gal + 30 gal + 70 gal = 52 gal X 0.0038 m^3/gal = 0.20 m^3). NOTE: Check to make sure that the entry

is reasonable (a single 55 gallon drum has an internal volume of 0.208 m^3). For containers, expect the volume of the container. For tanks expect the volume of the waste.

8.2.14.1.5 *Estimated percent (%) containers less than 350 lbs/container (required only for drums):* The total for % containers less than 350 lbs/container and 8.2.14.1.6, % containers between 350 and 500 lbs/container, should add up to less than or equal to 100% for the drums. NOTE: The comment section 8.2.1.4.1.14.3.4 may be used for additional information or to clarify these estimates.

8.2.14.1.6 *Estimated percent (%) containers between 350 and 500 lbs/container (required only for drums):* The total for % containers between 350 and 500 lbs/container and 8.2.14.1.5, % containers less than 350 lbs/container, should add up to less than or equal to 100% for the drums. NOTE: The comment section 8.2.1.4.1.14.3.4 may be used for additional information or to clarify these estimates.

8.2.14.1.7 *Estimated percent (%) containers less than 23 Pu-239 fissile gram equivalents (required only for drums):* The total for % containers less than 23 Pu-239 fissile gram equivalents and 8.2.14.1.8, % containers between 23 and 200 Pu-239 fissile gram equivalents, should add up to less than or equal to 100% for the drums. NOTE: The comment section 8.2.1.4.1.14.3.4 may be used for additional information or to clarify these estimates.

8.2.14.1.8 Estimated *percent (%) containers with between 23 and 200 fissile gram equivalents (required only for drums):* The total for % containers with between 23 and 200 fissile gram equivalents and 8.2.14.1.7, % containers less than 23 Pu-239 fissile gram equivalents, should add up to less than or equal to 100% for the drums. NOTE: The comment section 8.2.1.4.1.14.3.4 may be used for additional information or to clarify these estimates.

8.2.14.1.9 *Number currently in storage:* The number of containers currently in storage at the site for this WS should be listed (the date of this inventory should be provided in 8.2.14.1.10).

8.2.14.1.10 *Date of this inventory:* Date of the inventory provided in section 8.2.14.1.9. The WTWBIR WS data should be consistent with the data provided in the MWIR section. NOTE: WTWBIR prefers that all sites use 12/31/94 as the inventory date so that the inventory data are consistent.

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8.2.14.1.11 *Total number of these containers projected from date of inventory to end of 2022 (Do not include the current inventory):* Should not include the current inventory reported in 8.2.14.1.9. This should only include the number of projected containers from the date in 8.2.14.1.10 to the year 2022. This total should be the same as the added sum for 8.2.14.1.12. NOTE: These are annual inventories, NOT cumulative.

8.2.14.1.12 *Estimated TRU waste generation by numbers of containers: Includes WTWBIR WS ID and the container type/size:* For the years 1993, 1994 and perhaps 1995 should NOT include containers from section 8.2.14.1.9. A zero (0) should be entered for these first few years for containers currently in storage. The entry should be a projection of the number of containers for that given year only. A zero should also be entered for a year that has no projections (i.e., No waste is generated for that year). These entries should add up to total number provided in section 8.2.14.1.11. WTWBIR will use this total and the volume provided in 8.2.14.1.1 to calculate total volumes. Check the comment field in column three for any pertinent comments. Information for the calculations of total volume may also be provided in the comment section 8.2.14.1.14.3.4.

8.2.14.1.13 *WAC revision 3 certifiability:* This section contains questions about the certifiability of the current containers based on WIPP WAC revision 3. Check the comment field in section 8.2.14.1.14.3.4 for any additional information or qualifications.

8.2.14.1.13.1 *Is all of this current container type/size certifiable to WIPP WAC revision 3?*: YES indicates that 100% of the containers are certifiable and the reviewer should skip down to section 8.2.14.1.14. If NO is checked, continue through the rest of section 8.2.14.1.13.

8.2.14.1.13.2 *What percent (%) of these containers are non-certifiable?:* The % provided should be greater than zero and less than 100.

8.2.14.1.13.3 *For containers not certifiable to WIPP WAC revision 3, is it due to:*
Section 8.2.14.1.13.3.1 Repackaging or
Section 8.2.14.1.13.3.2 Treatment.

8.2.14.1.13.3.1 *Repackaging required?:* If NO is entered the reviewer should skip down to section 8.2.14.1.13.3.2, Treatment required. If YES is entered continue to section 8.2.14.1.13.3.1.1.

8.2.14.1.13.3.1.1 *What percent (%) of the non-certifiable containers require repackaging?:* The percent should be greater than zero and less than or equal to 100.

8.2.14.1.13.3.1.2 *WAC repackaging requirement table:* Column two should have Y/N provided for each repackaging cause. Column three should provide the % of containers affected (0 - 100). The % affected could range from 0 to 100 % and does not necessarily add up to 100 (i.e., The total of column three can be less than, greater than, or equal to 100%). The % affected should be zero if an "N" is entered in column two.

8.2.14.1.13.3.2 *Treatment required?:* If NO is entered the reviewer should skip down to section 8.2.14.1.14, TRAMPAC Certifiability. If YES is entered continue to section 8.2.14.1.13.3.2.1

8.2.14.1.13.3.2.1 *What percent (%) of the non-certifiable containers require treatment?:* The percent should be greater than zero and less than or equal to 100.

8.2.14.1.13.3.2.2 *WAC treatment requirements table:* Column two should have Y/N provided for each treatment cause. Column three should provide the % of containers affected (0 - 100). The % affected could range from 0 to 100 % and does not necessarily add up to 100 (i.e., The total of column three can be less than, greater than, or equal to 100%). The % affected should be zero if an "N" is entered in column two.

8.2.14.1.14 *TRAMPAC certifiability:* This section contains questions about the certifiability of the current containers based on TRAMPAC compliance. Check the comment field in section 8.2.14.1.14.3.4 for any additional information or qualifications.

8.2.14.1.14.1 *Is all of this current container type/size certifiable to TRAMPAC (shipment to WIPP via TRUPACT-II)?:* YES indicates that 100% of the containers are certifiable and the reviewer should skip down to section 8.2.15 as applicable. If NO is checked continue through the rest of section 8.2.14.1.14.

8.2.14.1.14.2 *What percent (%) of these containers are non-certifiable?:* The % provided should be greater than zero and less than or equal to 100.

8.2.14.1.14.3 *For containers not certifiable to TRAMPAC (shipment to WIPP via TRUPACT-II) is it due to:*
Section 8.2.14.1.14.3.1 Filters/liner vents or
Section 8.2.14.1.14.3.2 Repackaging required.
Section 8.2.14.1.14.3.3 Treatment required.

8.2.14.1.14.3.1 *Filters/liner vents?:* If NO is entered the reviewer should skip down to section 8.2.14.1.14.3.2, Repackaging required. If YES is entered continue to section 8.2.14.1.14.3.1.1.

8.2.14.1.14.3.1.1 *What percent (%) of the non-certifiable containers require filters/liner vents?:* The percent should be greater than zero and less than or equal to 100.

8.2.14.1.14.3.2 *Repackaging required?:* If NO is entered the reviewer should skip down to section 8.2.14.1.14.3.3, Treatment required. If YES is entered continue to section 8.2.14.1.14.3.2.1.

8.2.14.1.14.3.2.1 *What percent (%) of the non-certifiable containers require repackaging?:* The percent should be greater than zero and less than or equal to 100. NOTE: If "Not in TRUCON" is the only entry identified in section 8.2.14.1.14.3.2.2, then repackaging may not actually be necessary and a zero (0) may be entered in the percent (%) of non-certifiable containers that require repackaging.

8.2.14.1.14.3.2.2 *TRAMPAC repackaging requirements table:* Column two should have Y/N provided for each repackaging cause. Column three should provide the % of containers affected (0 - 100). The % affected could range from 0 to 100 % and does not necessarily add up to 100 (i.e., The total of column three can be less than, greater than, or equal to 100%). The % affected should be zero if an "N" is entered in column two. If "Not in TRUCON" is the only entry identified, then repackaging may not actually be necessary. The reviewer needs to verify with the site. If this only requires the authorization to get a TRUCON code, identify this for the WTWBIR database personnel.

8.2.14.1.14.3.3 *Treatment required?:* If NO is entered the reviewer should skip down to section 8.2.14.2 or 8.2.15 as applicable. If YES is checked continue to section 8.2.14.1.14.3.3.1.

8.2.14.1.14.3.3.1 *What percent (%) of the non-certifiable containers require treatment?:* The percent should be greater than zero and less than or equal to 100.

8.2.14.1.14.3.3.2 *TRAMPAC treatment requirements table:* Column two should have Y/N provided for each treatment cause. Column three should provide the % of containers affected (0 - 100). The % affected could range from 0 to 100 % and does not necessarily add up to 100 (i.e., The total of column three can be less than, greater than, or equal to 100%). The % affected should be zero if an "N" is entered in column two.

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8.2.14.1.14.3.4 *Current Container comments:* This section may contain comments for any of the sections in 8.2.14.

8.2.15 **Final waste form container information for this WTWBIR waste stream**

This section requires information for all the waste in WIPP compliant form. Therefore **"FINAL WASTE FORM"**.

8.2.15.1 *Container Type: The final waste form is or will be packaged in WIPP acceptable 55 gallon drums?:* NO indicates that another container type will be used for this WTWBIR WS. The reviewer should skip all sections in 8.2.15.1 and go to 8.2.15.2. Yes indicates that for this WTWBIR WS some but not necessarily all containers used will be 55 gal drums.

8.2.15.1.1 *Container material (check all that apply):* This should indicate the composition of the container for the waste in final form. E.g., Carbon steel, Stainless steel, etc. If "Other" is used, check to be sure that it is reasonable.

8.2.15.1.2 *Liner type (check all that apply):* This should indicate the type of liner used in the packaging of the final waste container. E.g., Bag, Rigid liner, etc. NOTE: If only some containers include internal shielding or liners, a description of the approximate percent of containers with shielding or liners should be in the comment section 8.2.15.1.12.

8.2.15.1.3 *Liner material (check all that apply):* This should indicate the composition of the liner(s) in the Liner type field used in the final waste container. E.g., Cement, HDPE, Plastic. etc. If "Other" is used, check to sure that it is reasonable. If the section is left blank, make a note for the WTWBIR team to review this data and determine if there is a need to verify the lack if information with the site. If more than one entry is made (e.g., HDPE and fiberboard), then the response should include enough information to match the *Type/Size* of the container to its liner material.

8.2.15.1.4 *Internal volume (payload volume) per container in m^3*: This is provided by the form electronically. 0.208 m^3

8.2.15.1.5 *Estimated percent (%) containers less than 350 lbs/container:* The total for % containers less than 350 lbs/container and 8.2.15.1.6, % containers between 350 and 500 lbs/container, should add up to less than or equal to 100%. NOTE: The comment section 8.2.15.1.12 may be used for addition information or to clarify these estimates.

8.2.15.1.6 *Estimated percent (%) containers between 350 and 500 lbs/container:* The total for % containers between 350 and 500 lbs/container and 8.2.15.1.5, % containers less than 350 lbs/container, should add up to less than or equal to 100%. NOTE: The comment section 8.2.15.1.12 may be used for addition information or to clarify these estimates.

8.2.15.1.7 *Estimated percent (%) containers less than 23 Pu-239 fissile gram equivalents:* The total for % containers less than 23 Pu-239 fissile gram equivalents and 8.2.15.1.8, % containers between 23 and 200 Pu-239 fissile gram equivalents, should add up to less than or equal to 100%. NOTE: The comment section 8.2.15.1.12 may be used for addition information or to clarify these estimates.

8.2.15.1.8 Estimated *percent (%) containers with between 23 and 200 fissile gram equivalents:* The total for % containers with between 23 and 200 fissile gram equivalents and 8.2.15.1.7, % containers less than 23 Pu-239 fissile gram equivalents, should add up to less than or equal to 100%. NOTE: The comment section 8.2.15.1.12 may be used for addition information or to clarify these estimates.

8.2.15.1.9 *Number currently in storage:* The number of containers currently in storage at the site for this WS should be listed (the date of this inventory should be provided in 8.2.15.1.10).

8.2.15.1.10 *Date of this inventory:* Date of the inventory provided in section 8.2.15.1.9. The WTWBIR WS data should be consistent with the data provided in the MWIR section. NOTE: WTWBIR prefers that all sites use 12/31/94 as the inventory date so that the inventory data are consistent.

8.2.15.1.11 *Total number of these containers projected from date of inventory to end of 2022 (Do not include the current inventory):* Do not include the current inventory from section 8.2.15.1.9. This should only include the number of projected containers from the date in 8.2.15.1.10 to the year 2022. This total should be the same as the added sum for 8.2.15.1.13. NOTE: These are annual inventories, NOT cumulative.

8.2.15.1.12 *Comments (55 gallon drum):* Any additional comments or clarification of information for sections 8.2.15.1 (55 gallon drums) should be included in this comment field.

8.2.15.1.13 *Estimated rates of TRU waste generation (numbers of containers): Incudes WTWBIR WS ID and the container type/size (55 gallon drums):* For the years 1993, 1994 and perhaps 1995 should NOT include containers from section 8.2.15.1.9. A zero (0) should be entered for

these first few years for containers currently in storage. The entry should be a projection of the number of containers for that given year only. A zero should also be entered for a year that has no projections. These entries should add up to total number provided in section 8.2.15.1.11. WTWBIR will use this total and the volume provide in 8.2.15.1.4 to calculate total volumes. Check the comment field in column three for any pertinent comments. NOTE: Waste reported in section 8.2.14 for which the sites do not have plans or schedules for putting the waste in WIPP compliant form and WIPP acceptable containers or the schedule is beyond the year 2022, the sites should estimate the WIPP compliant form and WIPP acceptable containers to be used and should have placed the waste in the year 2022 and state in the comment section that the site has no schedule or that the schedule is beyond the year 2022. A description of the schedule should also be included.

8.2.15.1.14 *Typical waste material weights for Final Waste Form (kg/m^3); WTWBIR WS ID: and Container type (55 gallon drum) included:* The information entered here should be in kg/m^3. The fields for iron-base metal and plastic do not include the outer container and the rigid liner and or liner bags. The container and the liner information is placed only in the fields for packaging material. The average, lower limit, and the upper limit should be reasonable. Check to make sure that they are in the right column.

8.2.15.2 *Container Type: The final waste form is or will be packaged in WIPP acceptable Standard Waste Boxes?:* NO indicates that another container type will be used for this WTWBIR WS. The reviewer should skip all sections in 8.2.15.2 and go to 8.2.15.3. Yes indicates that for this WTWBIR WS some but not necessarily all containers used will be Standard Waste Boxes.

8.2.15.2.1 *Container material (check all that apply):* This should indicate the composition of the container for the waste in final form. E.g., Carbon steel, Stainless steel, etc. If "Other" is used, check to be sure that it is reasonable.

8.2.15.2.2 *Liner type (check all that apply):* This should indicate the type of liner used in the packaging of the final waste container. E.g., Bag, Rigid liner, etc. NOTE: If only some containers include internal shielding or liners, a description of the approximate percent of containers with shielding or liners should be in the comment section 8.2.15.2.8.

8.2.15.2.3 *Liner material (check all that apply):* This should indicate the composition of the liner(s) in the Liner type field used in the final waste container. E.g., Cement, HDPE, Plastic. etc. If "Other" is used, check to make sure that it is reasonable. If the section is left blank, make a note for the WTWBIR team to review this data and determine if there is a need to verify the lack if information with the site. If more than one entry is made (e.g., HDPE and fiberboard), then the response should include enough information to match the *Type/Size* of the container to its liner material.

8.2.15.2.4 *Internal volume (payload volume) per container in m^3*: This is provided by the form electronically. 1.89 m^3

8.2.15.2.5 *Number currently in storage:* The number of containers currently in storage at the site for this WS should be listed (the date of this inventory should be provided in 8.2.15.2.6).

8.2.15.2.6 *Date of this inventory:* Date of the inventory provided in section 8.2.15.2.5. The WTWBIR WS data should be consistent with the data provided in the MWIR section. NOTE: WTWBIR prefers that all sites use 12/31/94 as the inventory date so that the inventory data are consistent.

8.2.15.2.7 *Total number of these containers projected from date of inventory to end of 2022 (Do not include the current inventory):* Do not include the current inventory from section 8.2.15.2.5. This should only include the number of projected containers from the date in 8.2.15.2.6 to the year 2022. This total should be the same as the added sum for 8.2.15.2.9. NOTE: These are annual inventories, NOT cumulative.

8.2.15.2.8 *Comments (Standard Waste Boxes):* Any additional comments or clarification of information for sections 8.2.15.2 (Standard Waste Boxes) should be included in this comment field.

8.2.15.2.9 *Estimated rates of TRU waste generation (numbers of containers): Incudes WTWBIR WS ID and the container type/size (Standard Waste Boxes):* For the years 1993, 1994 and perhaps 1995 should NOT include containers from section 8.2.15.2.5. A zero (0) should be entered for these first few years for containers currently in storage. The entry should be a projection of the number of containers for that given year only. A zero should also be entered for a year that has no projections. These entries should add up to total number provided in section 8.2.15.2.7. WTWBIR will use this total and the volume provide in 8.2.15.2.4 to calculate total volumes. Check the comment field in column three for any pertinent comments. NOTE: Waste reported in

section 8.2.14 for which the sites do not have plans or schedules for putting the waste in WIPP compliant form and WIPP acceptable containers or the schedule is beyond the year 2022, the sites should estimate the WIPP compliant form and WIPP acceptable containers to be used and should have placed the waste in the year 2022 and state in the comment section that the site has no schedule or that the schedule is beyond the year 2022. A description of the schedule should also be included.

8.2.15.2.10 *Typical waste material weights for Final Waste Form (kg/m^3); WTWBIR WS ID: and Container type (Standard Waste Boxes) included:* The information entered here should be in kg/m^3. The fields for iron-base metal and plastic do not include the outer container and the rigid liner and or liner bags. The container and the liner information is placed only in the fields for packaging material. The average, lower limit, and the upper limit should be reasonable. Check to make sure that they are in the right column.

8.2.15.3 *Container Type: The final waste form is or will be packaged in WIPP acceptable Standard Waste Boxes (SWB) used to overpack 55 gallon drums?:* NO indicates that another container type will be used for this WTWBIR WS. The reviewer should skip all sections in 8.2.15.3 and go to 8.2.15.4. Yes indicates that for this WTWBIR WS some but not necessarily all containers used will be Standard Waste Boxes (SWB) used to overpack 55 gallon drums.

8.2.15.3.1 *Container material (check all that apply):* This should indicate the composition of the container for the waste in final form. E.g., Carbon steel, Stainless steel, etc. If "Other" is used, check to be sure that it is reasonable.

8.2.15.3.2 *Liner type (check all that apply):* This should indicate the type of liner used in the packaging of the final waste container. E.g., Bag, Rigid liner, etc. NOTE: If only some containers include internal shielding or liners, a description of the approximate percent of containers with shielding or liners should be in the comment section 8.2.15.3.8.

8.2.15.3.3 *Liner material (check all that apply):* This should indicate the composition of the liner(s) in the Liner type field used in the final waste container. E.g., Cement, HDPE, Plastic. etc. If "Other" is used, check to make sure that it is reasonable. If the section is left blank, make a note for the WTWBIR team to review this data and determine if there is a need to verify the lack if information with the site. If more than one

entry is made (e.g., HDPE and fiberboard), then the response should include enough information to match the *Type/Size* of the container to its liner material.

8.2.15.3.4 *Internal volume (payload volume) per container in m^3*: This is provided by the form electronically. 1.89 m^3

8.2.15.3.5 *Number currently in storage:* The number of containers currently in storage at the site for this WS should be listed (the date of this inventory should be provided in 8.2.15.3.6).

8.2.15.3.6 *Date of this inventory:* Date of the inventory provided in section 8.2.15.3.5. The WTWBIR WS data should be consistent with the data provided in the MWIR section. NOTE: WTWBIR prefers that all sites use 12/31/94 as the inventory date so that the inventory data are consistent.

8.2.15.3.7 *Total number of these containers projected from date of inventory to end of 2022 (Do not include the current inventory):* Do not include the current inventory from section 8.2.15.3.5. This should only include the number of projected containers from the date in 8.2.15.3.6 to the year 2022. This total should be the same as the added sum for 8.2.15.3.9. NOTE: These are annual inventories, NOT cumulative.

8.2.15.3.8 *Comments (Standard Waste Boxes (SWB) used to overpack 55 gallon drums):* Any additional comments or clarification of information for sections 8.2.15.3 (Standard Waste Boxes (SWB) used to overpack 55 gallon drums) should be included in this comment field.

8.2.15.3.9 *Estimated rates of TRU waste generation (numbers of containers): Incudes WTWBIR WS ID and the container type/size (Standard Waste Boxes (SWB) used to overpack 55 gallon drums):* For the years 1993, 1994 and perhaps 1995 should NOT include containers from section 8.2.15.3.5. A zero (0) should be entered for these first few years for containers currently in storage. The entry should be a projection of the number of containers for that given year only. A zero should also be entered for a year that has no projections. These entries should add up to total number provided in section 8.2.15.3.7. WTWBIR will use this total and the volume provide in 8.2.15.3.4 to calculate total volumes. Check the comment field in column three for any pertinent comments. NOTE: Waste reported in section 8.2.14 for which the sites do not have plans or schedules for putting the waste in WIPP compliant form and WIPP acceptable containers or the schedule is beyond the year 2022, the sites should estimate the WIPP compliant form and WIPP acceptable containers to be used and should have placed the waste in the year 2022

and state in the comment section that the site has no schedule or that the schedule is beyond the year 2022. A description of the schedule should also be included.

8.2.15.3.10 *Typical waste material weights for Final Waste Form (kg/m^3); WTWBIR WS ID: and Container type (Standard Waste Boxes (SWB) used to overpack 55 gallon drums) included:* The information entered here should be in kg/m^3. The fields for iron-base metal and plastic do not include the outer container and the rigid liner and or liner bags. The container and the liner information is placed only in the fields for packaging material. The average, lower limit, and the upper limit should be reasonable. Check to make sure that they are in the right column.

8.2.15.4 *Container Type: The final waste form is or will be packaged in WIPP acceptable RH canisters?:* NO indicates that another container type will be used for this WTWBIR WS. The reviewer should skip all sections in 8.2.15.4 and go to 8.2.15.5. Yes indicates that for this WTWBIR WS some but not necessarily all containers used will be *RH canisters*.

8.2.15.4.1 *Container material (check all that apply):* This should indicate the composition of the container for the waste in final form. E.g., Carbon steel, Stainless steel, etc. If "Other" is used, check to be sure that it is reasonable.

8.2.15.4.2 *Liner type (check all that apply):* This should indicate the type of liner used in the packaging of the final waste container. E.g., Bag, Rigid liner, etc. NOTE: If only some containers include internal shielding or liners, a description of the approximate percent of containers with shielding or liners should be in the comment section 8.2.15.4.8.

8.2.15.4.3 *Liner material (check all that apply):* This should indicate the composition of the liner(s) in the Liner type field used in the final waste container. E.g., Cement, HDPE, Plastic. etc. If "Other" is used, check to make sure that it is reasonable. If the section is left blank, make a note for the WTWBIR team to review this data and determine if there is a need to verify the lack if information with the site. If more than one entry is made (e.g., HDPE and fiberboard), then the response should include enough information to match the *Type/Size* of the container to its liner material.

8.2.15.4.4 *Internal volume (payload volume) per container in m^3*: This is provided by the form electronically. 0.89 m^3

8.2.15.4.5 *Number currently in storage:* The number of containers currently in storage at the site for this WS should be listed (the date of this inventory should be provided in 8.2.15.4.6).

8.2.15.4.6 *Date of this inventory:* Date of the inventory provided in section 8.2.15.4.5. The WTWBIR WS data should be consistent with the data provided in the MWIR section. NOTE: WTWBIR prefers that all sites use 12/31/94 as the inventory date so that the inventory data are consistent.

8.2.15.4.7 *Total number of these containers projected from date of inventory to end of 2022 (Do not include the current inventory):* Do not include the current inventory from section 8.2.15.4.5. This should only include the number of projected containers from the date in 8.2.15.4.6 to the year 2022. This total should be the same as the added sum for 8.2.15.4.9. NOTE: These are annual inventories, NOT cumulative.

8.2.15.4.8 *Comments (RH canisters):* Any additional comments or clarification of information for sections 8.2.15.4 (RH Canisters) should be included in this comment field.

8.2.15.4.9 *Estimated rates of TRU waste generation (numbers of containers): Incudes WTWBIR WS ID and the container type/size (RH canisters):* For the years 1993, 1994 and perhaps 1995 should NOT include containers from section 8.2.15.4.5. A zero (0) should be entered for these first few years for containers currently in storage. The entry should be a projection of the number of containers for that given year only. A zero should also be entered for a year that has no projections. These entries should add up to total number provided in section 8.2.15.4.7. WTWBIR will use this total and the volume provide in 8.2.15.4.4 to calculate total volumes. Check the comment field in column three for any pertinent comments. NOTE: Waste reported in section 8.2.14 for which the sites do not have plans or schedules for putting the waste in WIPP compliant form and WIPP acceptable containers or the schedule is beyond the year 2022, the sites should estimate the WIPP compliant form and WIPP acceptable containers to be used and should have placed the waste in the year 2022 and state in the comment section that the site has no schedule or that the schedule is beyond the year 2022. A description of the schedule should also be included.

8.2.15.4.10 *Typical waste material weights for Final Waste Form (kg/m^3); WTWBIR WS ID: and Container type (RH canisters) included:* The information entered here should be in kg/m^3. The fields for iron-base metal and plastic do not include the outer container and the rigid liner and or liner bags. The container and the liner information is placed only in the

fields for packaging material. The average, lower limit, and the upper limit should be reasonable. Check to make sure that they are in the right column.

8.2.15.5 *Container Type: The final waste form is or will be packaged in WIPP acceptable RH canisters used to over pack 55 gallon drums?:* NO indicates that another container type will be used for this WTWBIR WS. The reviewer should skip all sections in 8.2.15.5 and go to 8.2.15.6. Yes indicates that for this WTWBIR WS some but not necessarily all containers used will be RH canisters used to over pack 55 gallon drums.

8.2.15.5.1 *Container material (check all that apply):* This should indicate the composition of the container for the waste in final form. E.g., Carbon steel, Stainless steel, etc. If "Other" is used, check to be sure that it is reasonable.

8.2.15.5.2 *Liner type (check all that apply):* This should indicate the type of liner used in the packaging of the final waste container. E.g., Bag, Rigid liner, etc. NOTE: If only some containers include internal shielding or liners, a description of the approximate percent of containers with shielding or liners should be in the comment section 8.2.15.5.8.

8.2.15.5.3 *Liner material (check all that apply):* This should indicate the composition of the liner(s) in the Liner type field used in the final waste container. E.g., Cement, HDPE, Plastic. etc. If "Other" is used, check to make sure that it is reasonable. If the section is left blank, make a note for the WTWBIR team to review this data and determine if there is a need to verify the lack if information with the site. If more than one entry is made (e.g., HDPE and fiberboard), then the response should include enough information to match the *Type/Size* of the container to its liner material.

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8.2.15.5.4 *Internal volume (payload volume) per container in m^3*: This is provided by the form electronically. 0.89 m^3

8.2.15.5.5 *Number currently in storage:* The number of containers currently in storage at the site for this WS should be listed (the date of this inventory should be provided in 8.2.15.5.6).

8.2.15.5.6 *Date of this inventory:* Date of the inventory provided in section 8.2.15.5.5. The WTWBIR WS data should be consistent with the data provided in the MWIR section. NOTE: WTWBIR prefers that all sites use 12/31/94 as the inventory date so that the inventory data are consistent.

8.2.15.5.7

Total number of these containers projected from date of inventory to end of 2022 (Do not include the current inventory): Do not include the current inventory from section 8.2.15.5.5. This should only include the number of projected containers from the date in 8.2.15.5.6 to the year 2022. This total should be the same as the added sum for 8.2.15.5.9. NOTE: These are annual inventories, NOT cumulative.

8.2.15.5.8

Comments (RH Canisters used to overpack 55 gallon drums): Any additional comments or clarification of information for sections 8.2.15.5 (RH Canisters used to overpack 55 gallon drums) should be included in this comment field.

8.2.15.5.9

Estimated rates of TRU waste generation (numbers of containers): Incudes WTWBIR WS ID and the container type/size (RH Canisters used to overpack 55 gallon drums): For the years 1993, 1994 and perhaps 1995 should NOT include containers from section 8.2.15.5.5. A zero (0) should be entered for these first few years for containers currently in storage. The entry should be a projection of the number of containers for that given year only. A zero should also be entered for a year that has no projections. These entries should add up to total number provided in section 8.2.15.5.7. WTWBIR will use this total and the volume provide in 8.2.15.5.4 to calculate total volumes. Check the comment field in column three for any pertinent comments. NOTE: Waste reported in section 8.2.14 for which the sites do not have plans or schedules for putting the waste in WIPP compliant form and WIPP acceptable containers or the schedule is beyond the year 2022, the sites should estimate the WIPP compliant form and WIPP acceptable containers to be used and should have placed the waste in the year 2022 and state in the comment section that the site has no schedule or that the schedule is beyond the year 2022. A description of the schedule should also be included.

8.2.15.5.10

Typical waste material weights for Final Waste Form (kg/m^3); WTWBIR WS ID: and Container type (RH Canisters used to overpack 55 gallon drums) included: The information entered here should be in kg/m^3. The fields for iron-base metal and plastic do not include the outer container and the rigid liner and or liner bags. The container and the liner information is placed only in the fields for packaging material. The average, lower limit, and the upper limit should be reasonable. Check to make sure that they are in the right column.

8.2.15.6

Container Type: The final waste form is or will be packaged in WIPP acceptable RH canisters used to over pack 30 gallon drums?: NO indicates that another container type will be used for this WTWBIR WS. The reviewer should skip all sections in 8.2.15.6 and go to 8.3, if

applicable. Yes indicates that for this WTWBIR WS some but not necessarily all containers used will be RH canisters used to over pack 30 gallon drums.

8.2.15.6.1 *Container material (check all that apply):* This should indicate the composition of the container for the waste in final form. E.g., Carbon steel, Stainless steel, etc. If "Other" is used, check to be sure that it is reasonable.

8.2.15.6.2 *Liner type (check all that apply):* This should indicate the type of liner used in the packaging of the final waste container. E.g., Bag, Rigid liner, etc. NOTE: If only some containers include internal shielding or liners, a description of the approximate percent of containers with shielding or liners should be in the comment section 8.2.15.6.8.

8.2.15.6.3 *Liner material (check all that apply):* This should indicate the composition of the liner(s) in the Liner type field used in the final waste container. E.g., Cement, HDPE, Plastic. etc. If "Other" is used, check to make sure that it is reasonable. If the section is left blank, make a note for the WTWBIR team to review this data and determine if there is a need to verify the lack if information with the site. If more than one entry is made (e.g., HDPE and fiberboard), then the response should include enough information to match the *Type/Size* of the container to its liner material.

8.2.15.6.4 *Internal volume (payload volume) per container in m^3:* This is provided by the form electronically. 0.89 m^3

8.2.15.6.5 *Number currently in storage:* The number of containers currently in storage at the site for this WS should be listed (the date of this inventory should be provided in 8.2.15.6.6).

8.2.15.6.6 *Date of this inventory:* Date of the inventory provided in section 8.2.15.6.5. The WTWBIR WS data should be consistent with the data provided in the MWIR section. NOTE: WTWBIR prefers that all sites use 12/31/94 as the inventory date so that the inventory data are consistent.

8.2.15.6.7 *Total number of these containers projected from date of inventory to end of 2022 (Do not include the current inventory):* Do not include the current inventory from section 8.2.15.6.5. This should only include the number of projected containers from the date in 8.2.15.6.6 to the year 2022. This total should be the same as the added sum for 8.2.15.6.9. NOTE: These are annual inventories, NOT cumulative.

8.2.15.6.8 *Comments (RH Canisters used to overpack 30 gallon drums):* Any additional comments or clarification of information for sections 8.2.15.6 (RH Canisters used to overpack 30 gallon drums) should be included in this comment field.

8.2.15.6.9 *Estimated rates of TRU waste generation (numbers of containers): Incudes WTWBIR WS ID and the container type/size (RH Canisters used to overpack 30 gallon drums):* For the years 1993, 1994 and perhaps 1995 should NOT include containers from section 8.2.15.6.5. A zero (0) should be entered for these first few years for containers currently in storage. The entry should be a projection of the number of containers for that given year only. A zero should also be entered for a year that has no projections. These entries should add up to total number provided in section 8.2.15.6.7. WTWBIR will use this total and the volume provide in 8.2.15.6.4 to calculate total volumes. Check the comment field in column three for any pertinent comments. NOTE: Waste reported in section 8.2.14 for which the sites do not have plans or schedules for putting the waste in WIPP compliant form and WIPP acceptable containers or the schedule is beyond the year 2022, the sites should estimate the WIPP compliant form and WIPP acceptable containers to be used and should have placed the waste in the year 2022 and state in the comment section that the site has no schedule or that the schedule is beyond the year 2022. A description of the schedule should also be included.

8.2.15.6.10 *Typical waste material weights for Final Waste Form (kg/m^3); WTWBIR WS ID: and Container type (RH Canisters used to overpack 30 gallon drums) included:* The information entered here should be in kg/m^3. The fields for iron-base metal and plastic do not include the outer container and the rigid liner and or liner bags. The container and the liner information is placed only in the fields for packaging material. The average, lower limit, and the upper limit should be reasonable. Check to make sure that they are in the right column.

APPENDIX O
WASTE STREAM PROFILES (NON-WIPP)

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ARGONNE NATIONAL LABORATORY - EAST

Location and Description

Argonne National Laboratory-East (ANL-E) occupies the central 1,700 acres of a 3,740-acre tract in DuPage County, 35 kilometers southwest of downtown Chicago and 39 kilometers west of Lake Michigan. It lies north of the Des Plaines River Valley, south of Interstate Highway 55 and west of Illinois Highway 83. The 2,040 acres surrounding the site was formerly ANL-E property, but was deeded to the DuPage County Forest Preserve District in 1973 for their use as a public recreational area, nature preserve and demonstration forest.

The terrain is gently rolling, partially wooded, former prairie and farmland. The grounds contain a number of small ponds and streams, the principal one being Sawmill Creek, which runs through the site in a southerly direction and enters the Des Plaines River about 2.1 kilometers southeast of the center of the site.

Mission

Since World War II, ANL-E has been engaged in nuclear energy research. Currently it is a multidisciplinary research and development laboratory conducting basic and applied research to support development of energy-related technologies.

Waste Information

Processes

Most of the TRU and TRU mixed waste has been generated by three operations:

1. The Alpha Gamma Hot Cell Facility located in Building 205
2. The New Brunswick Laboratory (NBL), Building 305
3. Chemistry, chemical technology, and analytical programs.

The Alpha Gamma Hot Cell Facility does destructive examinations of fuel and components primarily associated with the Reactor Program. The waste component of this stream consists of metal and combustible trash containing adventitious quantities of TRU. The radioactive material originated in Idaho and is currently returned to the Radioactive Waste Management Complex (RWMC) at INEL for interim storage.

New Brunswick Laboratory does uranium and plutonium assay analyses for the DOE system. This stream generates approximately 130 cubic feet of waste per year. This stream consists of TRU nitrate solutions containing as estimated 130 grams of TRU annually.

The Reactor Program has generated small volumes of TRU waste contaminated with cadmium. This is a mixed waste that contains significant quantities of plutonium and uranium.

Some plutonium-containing liquid waste stream from the NBL analytical laboratories has been processed by the experimental/demonstration TRUEX process in Building 205. This TRUEX process is being replaced by a new transuranic neutralization precipitation process. Hot cells in Buildings 200, 205, and 212 are used to package remote-handled TRU waste.

TRU wastes are generated in dozens of laboratories on site. Most of these wastes are collected in containers smaller than 5 gallons because of the nature of the work performed at the Laboratory. The waste is transported to Building 306 where the waste is treated. Solid TRU waste treatment consists only of preparing it for interim storage.

Liquid TRU waste (which is normally hazardous because of corrosivity) will be treated in a new process (TRU neutralization/precipitation process). The solid waste from this treatment process will also simply be put into storage until WIPP begins accepting waste.

Modifications/Assumptions/Development

Waste streams that are expected to be directly shipped to WIPP (upon WIPP–WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double– counting these streams as both "as generated currently stored" and "final form projected."

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Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	AE-T001	Handling:	CH	NMVP #:	N/A	Stream Name:	Solid heterogeneous inorganic/organic waste
Local ID:		Type:	TRU	Generator Site:	AE	Final Waste Form:	Unknown

Inventory Date:

Waste Matrix Code: Z9000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	101.0	101.0	101.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	216.3	168.3	259.6
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-238	2.24E-05
U-235	2.50E-05
U-233	1.20E-09
Pu-241	6.10E-01
Pu-239	1.17E+00
Pu-238	4.07E-06
Np-237	6.43E-03
Am-243	4.00E-02
Am-241	2.13E+00

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WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	13.3	0.0	0.0	0.0	0.0	13.3
Totals	13.3	0.0	0.0	0.0	0.0	13.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	13.3	0.0	0.0	0.0	0.0	13.3
Totals	13.3	0.0	0.0	0.0	0.0	13.3

As-Generated Form: Stored: 13.3 Projected: 0.0 Total: 13.3

Final Waste Form: Stored: 13.3 Projected: 0.0 Total: 13.3

WASTE STREAM DESCRIPTION	6/6/95 This waste stream is Solidified nonhazardous TRU-CH liquids stored mostly at the at 317 Area vaults
WASTE STREAM SOURCE	$ Not reported $ Non-mixed TRU derived from IDB
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

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AM ARCO Medical Products Company

ARCO MEDICAL PRODUCTS COMPANY

Location and Description

Nuclear pacemakers developed by the ARCO Medical Products Company (AM) are the product of a research program conducted with the DOE during the 1970's. The purpose of the program was to evaluate the practicality of using a radioisotope-fueled pacemaker in humans. Direct program management is provided under contract by Roy F. Weston, Inc. The AM storage facility is located in West Chester, Pennsylvania.

Mission

ARCO's Corporate Environmental Remediation group is responsible for oversight of the surviving pacemakers. Presently, 50 of the pacemakers are in storage. Roy F. Weston also tracks the remaining implanted pacemakers and arranges for shipment of the devices from the hospital where they are explanted, to their storage facility. Eighty pacemakers remain implanted in patients. The pacemakers are being explanted at a rate of about three per year. The maximum life span of the device is estimated to be 20 to 40 years.

Waste Information

Processes

Each pacemaker device consists of three sub-assemblies: a nuclear battery, an electronics assembly, and a cardiac lead. The nuclear battery includes a 0.5 gm Pu-238 oxide fuel pellet, triple encapsulated in three successive right circular cylinders.

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	AM-W001	Handling:	CH	NMVP #:	N/A	Stream Name:	Nuclear Pacemakers
Local ID:		Type:	TRU	Generator Site:	AM	Final Waste Form:	Heterogeneous

Inventory Date: 1/31/95

Waste Matrix Code: S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.1	0.0	0.0
Aluminum-base Metal/Alloys:	0.1	0.0	0.0
Other Metals/Alloys:	0.2	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Commercial TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source:

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-238	3.73E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	0.04	0.01	0.01	0.02	0.02	0.1
Totals	0.0	0.0	0.0	0.0	0.0	0.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.4	0.0	0.0	0.4
Totals	0.0	0.0	0.4	0.0	0.0	0.4

As-Generated Form: Stored: 0.04 Projected: 0.1 Total: 0.10

Final Waste Form: Stored: 0.0 Projected: 0.4 Total: 0.4

WASTE STREAM DESCRIPTION	Waste stream consists of radioisotope-powered pacemaker. Each pacemaker device includes 3 sub-assemblies: a nuclear battery, an electronics assembly, and a cardiac lead. The nuclear battery includes a 0.5 gm Pu-238 oxide fuel pellet, triple encapsulated in 3 successive right circular cylinders.
WASTE STREAM SOURCE	Waste stream consists of radioisotope-powered cardiac pacemakers, each containing 0.5 gram of Pu-238. The pacemakers were originally manufactured by the Nuclear Material and Equipment Corporation. One hundred and twenty-six of these pacemakers were implanted in patients at various medical centers throughout the U.S. At present, 50 pacemakers are in storage at ARCO's Roy F. Weston facility in Pennsylvania. The remaining pacemakers are in use.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

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ARGONNE NATIONAL LABORATORY - WEST

Location and Description

Argonne National Laboratory-West (ANL-W) is located approximately 56 kilometers west of Idaho Falls, Idaho, in the southeastern portion of the Idaho National Engineering Laboratory (INEL). ANL-W is in Bingham County in the State of Idaho. The ANL-W administrative area covers slightly more than one square mile and is managed by the DOE/Chicago Office. The Management and Operating Contractor is the University of Chicago.

Mission

ANL-W is a research and development laboratory. Much of the work done there supports development of advanced nuclear power plant technology. This support includes irradiation and safety tests, reactor physics studies, and fuel examination studies.

ANL-W consists of several major complexes: Experimental Breeder Reactor II (EBR II) the Transient Reactor Test Facility (TREAT), the Zero Power Physics Reactor (ZPPR), the Hot Fuel Examination Facility (HFEF), The Fuel Conditioning Facility (FCF), the Fuel Manufacturing Facility (FMF), Laboratory and Office Building, support complexes such as the Radioactive Liquid Waste Treatment Facility (RLWTF) and the Radioactive Scrap and Waste Facility (RSWF), and the Sodium Process Facility.

Waste Information

Processes

Solid radioactive waste generated at ANL-W is primarily associated with irradiated experimental fuel subassemblies and capsules from EBR-II and, to a lesser degree, TREAT. After irradiation in ANL-W reactors, the subassemblies and capsules were conveyed to appropriate facilities for dismantling, sampling, and examination. If they were not contaminated with sodium, these reactor pieces and parts were shipped to the RWMC as remote-handled waste. Sodium-contaminated reactor parts are stored in the RSWF at ANL-W.

The ANL-W Waste Operations Program encompasses all ANL-W non-production facilities, operations, and sites used for the storage, treatment, or disposal of radioactive, hazardous, mixed, and sanitary waste materials that have been property characterized, packages, and labeled. Facilities used exclusively for long-term storage of ANL-W waste material are also covered in this program.

Waste management activities are those concerned with minimization, treatment, storage, and disposal of radioactive, hazardous, mixed, and non-hazardous wastes generated as a result of ongoing operations at active facilities and from other resources such as the Environmental Restoration Program. Many of these activities support continuity of operations at ANL-W.

Routine operations include shipping TRU waste from ANL-W to the Radioactive Waste Management Complex on the INEL for storage and then eventual disposal to WIPP. Operations at the RSWF involves TRU and mostly TRU mixed waste which is contaminated with elemental sodium. The waste will be moved from this interim holding area to approved and appropriate DOE waste treatment or disposal areas, when identified.

Modifications/Assumptions/Development

Waste streams that are expected to be directly shipped to WIPP (upon WIPP–WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double– counting these streams as both "as generated currently stored" and "final form projected."

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	AW-W028	Handling:	RH	NMVP #:	N/A	Stream Name:	TRU WASTE USED PRE-FILTERS
Local ID:	CH-ANL-503T	Type:	MTRU	Generator Site:	AW	Final Waste Form:	Unknown

Inventory Date: 4/30/95

Waste Matrix Code: S5410

AS-GENERATED EPA CODES

D008, D007, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON CODE: N/A

FINAL FORM RADIONUCLIDES: N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Wooden Box	0.9	0.0	0.0	0.0	0.0	0.9
Totals	0.9	0.0	0.0	0.0	0.0	0.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.9 Projected: 0.0 Total: 0.9

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

This waste stream consists of metal or wood framed pre-filters. Pre filters are 2' X 2' X 0.5'. The filters have screen mesh covering high efficiency filtering media. The concentration of radioisotopes and RCRA metals varies in each filter. These filters were generated from the deontamination of the analytical hot cells in 1993 and 1994. Final waste form has not been determined yet.

WASTE STREAM SOURCE

This waste stream was generated at Bldg ANL-752, Analytical Laboratory: Typical laboratory operations, analytical and radiochemistry. The facility also houses and experimental fuels casting lab, and areas for small-scale testing of experimental processes related to nuclear fuels fabrication. Wastes were generated primarily from hot cell refurbishment.. The generating process is: Pre-filters are used to control airborne radioactive particulate emissions from hot cells, hot repair areas, analytical lab hoods and other radioactively contaminated systems. Refurbishment of hot cells and hot repair areas has generated lead, cadmium, and chromium dusts from paint removal, stainless steel cutting, and fuel experiment dissolution decontamination. The filters trap the metals in the filter media in concentrations high enough to classify the filters as mixed waste.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

Grab samples were taken from 6 of the 16 filters. Samples were analyzed for total metal content in the filter media. Sample results were extrapolated to estimate the concentration of a representative sample of the entire filter, not including the housing. TCLP was not conducted, due to the high radiation levels of the sample.

Grab samples were taken from 6 of the 16 filters. Samples were analyzed for total metal content in the filter media. Sample results were extrapolated to estimate the concentration of a representative sample of the entire filter, not including the housing. TCLP was not conducted, due to the high radiation levels of the sample.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS

M

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	AW-W018	Handling:	RH	NMVP #:	N/A	Stream Name:	SODIUM - TRU
Local ID:	CH-ANL-180T	Type:	MTRU	Generator Site:	AW	Final Waste Form:	Unknown

Inventory Date: 4/30/95

Waste Matrix Code: X7520

AS-GENERATED EPA CODES

D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON CODE: N/A

FINAL FORM RADIONUCLIDES: N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Metal Box (.127cm)	10.2	0.0	0.0	0.0	0.0	10.2
Metal Box (.13cm)	2.9	0.0	0.0	0.0	0.0	2.9
Metal Box (1cm)	0.1	0.0	0.0	0.0	0.0	0.1
Metal Box (.22cm)	0.2	0.0	0.0	0.0	0.0	0.2
Metal Box (25cm)	0.3	0.0	0.0	0.0	0.0	0.3
Totals	13.6	0.0	0.0	0.0	0.0	13.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 13.6 Projected: 0.0 Total: 13.6

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	Sodium is used as a primary and was used as a secondary coolant for the EBR-II reactor. Waste sodium metal is a hazardous constituent of some of the TRU waste stored at the ANL-W Radioactive Scrap and Waste Facility (RSWF). The waste is generated during maintenance and operational activities. The sodium typically coats waste metal equipment, experiments, and components removed during reactor operations and maintenance activities. This waste will require treatment prior to disposal at WIPP. Final waste form has not been determined yet.
WASTE STREAM SOURCE	This waste stream was generated at ANL-767, EBR-II Reactor Building, and ANL-785, Hot Fuel Examination Facility: (ANL-767) Typical nuclear reactor operations including maintenance activities on control systems. (ANL-785) Hot cells operations including dismantling and examination of nuclear fuels and experiments which contain elemental sodium.. The generating process is: Some maintenance activities in Bldg. 767 involve working on and replacement of sodium wetted equipment associated with the EBR-II cooling systems. If the waste equipment cannot be cleaned of the sodium metal, it is stored in the RSSF, Also, the secondary cooling systems at EBR-II occasionally leak sodium metal. Cleanup operations generate sodium-contaminated wastes. All 767 wastes are contact-handled. Processes in Bldg. 785 more routinely generate sodium contaminated wastes because materials handled and examined in the facility (nuclear fuel rods and assemblies, and experiments) contain sodium. All 785 wastes are remote handled.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Sodium is not dispersed uniformly throughout the waste matrix.
MANAGEMENT COMMENTS	Alpha Containment
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	AW-W019	Handling:	RH	NMVP #:	N/A	Stream Name:	SODIUM POTASSIUM -NaK- TRU
Local ID:	CH-ANL-182T	Type:	MTRU	Generator Site:	AW	Final Waste Form:	Unknown

Inventory Date: 4/30/95

Waste Matrix Code: X7520

AS-GENERATED EPA CODES

D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON CODE: N/A

FINAL FORM RADIONUCLIDES: N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Metal Box (.127cm)	0.3	0.0	0.0	0.0	0.0	0.3
Totals	0.3	0.0	0.0	0.0	0.0	0.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.3 Projected: 0.0 Total: 0.3

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	Sodium potassium alloy (NaK) is used as a coolant for some components of the EBR-II Reactor. Waste NaK metal is a hazardous constituent of some transuranic wastes stored at the ANL-W Radioactive Scrap and Waste Facility (RSWF). The remote-handled NaK waste at RSWF is contained in stainless steel capsules or tubing and placed inside carbon steel waste cans which then are placed in stainless steel outer cans. The entire package is then stored in RSWF storage liners (carbon steel soil storage vaults). The NaK is generated during maintenance and operational activities. NaK waste is in canisters with TRU waste metal pieces and rods from reactor experiments. This waste will require treatment prior to disposal at WIPP. Final waste form has not been determined yet.
WASTE STREAM SOURCE	This waste stream was generated at ANL-767, EBR-II REactor Building: Typical nuclear reactor operations including maintenance activities on control systems.. The generating process is: The remote-handled NaK waste currently stored at RSWF is contained in stainless steel capsules or tubing as part of nuclear experiments. The waste is in canisters with TRU waste metal pieces and rods from reactor experiments.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Waste is stored at RSWF in various liners with varying amounts of NaK contamination.
MANAGEMENT COMMENTS	Alpha Containment
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

ET Energy Technology Engineering Center

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ENERGY TECHNOLOGY ENGINEERING CENTER

Location and Description

Energy Technology Engineering Center (ET) occupies 90 acres of 290 acres of land shared with the Santa Susana Field Laboratory. The Santa Susana site is composed of a total of 2,700 acres located in the Simi Hills of Ventura County, approximately 48 kilometers northwest of downtown Los Angeles, California. Both DOE and the Rocketdyne Division of Rockwell International Corp. own facilities within this area. The Rockwell facilities include former fuel fabrication facilities, a hot cell, a reactor test building, a storage vault, an on-site transport cask, and other radiologically contaminated support laboratories and areas.

Mission

ET provides facilities for the testing of equipment, materials, and components for nuclear and other energy programs. Components include steam generators, pumps, valves, instrumentation, and other support elements for power plant design. Various types of testing include reliability, seismic, and performance demonstrations. Current activities include non-nuclear testing, and cleanup and environmental restoration from prior nuclear testing programs, such as decontamination and decommissioning of an NRC-licensed hot cell that was used for DOE activities.

Waste Information

Processes

ET TRU waste streams are CH waste comprised of absorbent materials plastics, rags, and other laboratory disposal solids. A second waste stream of similar composition was generated during DOE fuel decladding and decontamination and decommissioning operations. The second waste stream includes a small quantity of lead.

Modifications/Assumptions/Development

Waste streams that are expected to be directly shipped to WIPP (upon WIPP–WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double– counting these streams as both "as generated currently stored" and "final form projected."

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: ET-W021 | Handling: RH | NMVP #: NA | Stream Name: Hot Lab & PU Facility D&D | Inventory Date: 5/15/95

Local ID: ET | Type: MTRU | Generator Site: ET | Final Waste Form: Unknown | Waste Matrix Code: S5490

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: Unknown

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Sr-90	7.50E-04
Pu-239	7.50E-05
Cs-137	7.50E-04
Co-60	7.50E-04
Am-241	1.50E-05

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WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	5.5	0.8	0.0	0.0	0.0	6.3
Totals	5.5	0.8	0.0	0.0	0.0	6.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	5.4	0.8	0.0	0.0	0.0	6.2
Totals	5.4	0.8	0.0	0.0	0.0	6.2

As-Generated Form: Stored: 5.5 Projected: 0.8 Total: 6.3

Final Waste Form: Stored: 5.4 Projected: 0.8 Total: 6.2

WASTE STREAM DESCRIPTION	Dry residue and debris from the drain piping removed during the Hot lab D&D activities. Waste is characterized by high radiation level (RH). Radiological evaluation has determined that the waste contains TRU elements above the 100nCi/g, and potentially could contain hazardous constituents, there by it has been managed as mixed TRU waste.
WASTE STREAM SOURCE	D&D activities at the Hot Lab
CURRENT CONTAINER COMMENTS	Storage conatiner is a concrete lined drum for shielding. Shipping containers will be selected after completion of radiochemical analysis and determination of the waste disposition.
EPA COMMENTS	Regulated constituents that may be present will be determined by laboratory analysis (now pending)
MANAGEMENT COMMENTS	Pending sampling and analysis, this W.S. will continue to be managed as potentailly mixed TRU
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Storage conatiner is a concrete lined drum for shielding. Shipping containers will be selected after completion of radiochemical analysis and determination of the waste disposition. herefore Sections 8.2.7, 8.2.8, 8.2.14.1.13, 8.2.14.1.14 & 8.2.15 are left incomplete.

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IN Idaho National Engineering Laboratory

IDAHO NATIONAL ENGINEERING LABORATORY

Location and Description

The Idaho National Engineering Laboratory (IN) is located in two primary areas: (1) the remote areas known as "the Site" along the northern edge of the Snake River Plain in southeastern Idaho, and (2) multiple locations southeast of the Site in the City of Idaho Falls. Lying at the foot of the Lost River, Lemhi, and Bitterroot-Centennial Mountain ranges, the Site covers nearly 2300 square kilometers (890 mi^2) of dry, cool desert. Most of the land withdrawn from public domain for use by the U.S. Department of Energy (DOE) is undeveloped. The facilities located in Idaho Falls include administrative, scientific support, and non-nuclear research laboratories.

During World War II, the U.S. Navy and U.S. Army Air Corps used a portion of the present Site as a gunnery range. In 1949, the Site was formally established as the National Reactor Testing Station (NRTS), a place where the Atomic Energy Commission (AEC) could build, test, and operate various types of nuclear reactors. Fifty-two reactors have been built at the INEL; of these, seven are operating or operable.

The Radioactive Waste Management Complex (RWMC) encompasses 144 acres in the southwestern corner of the INEL. The RWMC was established in 1952 as a controlled area for burial of solid radioactive wastes generated by INEL operations. In 1954, the burial ground was designated as a solid transuranic (TRU) waste disposal site. Until 1970, all TRU was buried below grade at the RWMC. In November 1970, the Transuranic Storage Area (TSA) was established for retrievable storage of waste contaminated with greater than 10 nanocuries (nCi) of TRU alpha activity per gram of waste. In November 1976, the Intermediate Level TRU Storage Facility (ILTSF) was established for retrievable storage of remote-handled (RH) TRU contaminated waste (greater than 200 millirem per hour). At the ILTSF the radioactive waste is stored in abovegrade vaults.

The DOE/Idaho Operations Office administers the INEL excluding Argonne National Laboratory-West. The current operator for the majority of the facilities is Lockheed Martin Idaho Technologies.

Mission

The INEL is a multiprogram laboratory and has provided innovative technologies, defense-related support and unique scientific and engineering capabilities to the nation. At present, areas of primary emphasis include nuclear reactor technology research and development, waste management and environmental restoration, advanced energy production and utilization technology development, defense-related support, technology transfer, and non-nuclear research and development projects. Development, transfer, and deployment of technologies to avoid and/or dispose of hazardous and/or radioactive waste and for remediation/restoration of previous disposal sites to protect the public, employees, and environment are also part of INEL's mission.

Waste Information

Processes

Solid TRU waste generated in national defense programs and research activities was buried or stored at the RWMC. This TRU waste typically includes cloth, paper, plastics, metals, rubber, sludge, ad concrete. TRU waste received at the INEL from November 1970 through July 1980 was placed on asphalt pads and covered with an earthen-cover to protect the waste from the environment until it could be permanently disposed. Waste received after this timeframe was placed in air-supported buildings for interim storage.

The Stored Waste Examination Pilot Plant (SWEPP) was constructed in 1984 and provides a facility for the nondestructive examination and assay (NDE/NDA) of TRU-contaminated wastes. The facility operated at production levels (5,000 drums per year) from August 1985 through September 1989. In 1989, the facility was placed in standby due to the change sin the Waste Isolation Pilot Plant (WIPP) Waste Acceptance Criteria (WAC). The WAC requirements were changed in 1989 to include the requirements of the Transuranic Package Transport (TRUPACT-II). The facility has remained in standby condition with the exception of the waste required to support the WIPP Waste Characterization Program.

The TSA Retrieval Enclosure (RE) is being constructed over the top of the earthen-covered waste and will allow year-round retrieval operations. The facility is expected to be completed in fiscal year 1997. Retrieval rates for the facility are expected to be 20,000 drum equivalents (DE) per year. Retrieval of all earthen-covered waste in the TSA is expected to be completed between 2010 and 2014.

In 2003, all INEL TRU-contaminated waste in storage is expected to be treated at the Advanced Mixed Waste Treatment Facility for disposal at WIPP. The processing rate for the facility is expected to be approximately 5,000 m^3 per year with a volume reduction of about 65%.

Due to the Spent Nuclear Fuel Settlement Agreement which was signed with the State of Idaho, DOE has agreed to ship 3,100 m^3 (15,000 DE) of untreated waste from the INEL by 12/31/2002. After 1/01/2003, the INEL is required to ship a running average of 2,000 m^3 of stored inventory per year. All TRU waste stored at the INEL is required to be out of the state no later than 12/31/2018.

Notes on the INEL Reporting Format

The INEL data submittal did not provide any information on the type and number of currently stored containers for each waste stream reported in the TWBIR Rev. 2. The only information about stored containers included in the site submittal was the type and the total number of containers for each *unsegregated* waste stream as it currently exists at the site. In general, for the purposes of reporting for the Rev. 2 data submittal, each of the *unsegregated* streams have been segregated by INEL into two or more sub-streams to be shipped to WIPP. As a result, there has been a substantial increase in the number of streams reported for TWBIR Rev. 2 as compared to WTWBIR Rev. 1.

The first basis for segregation into sub-streams is whether the unsegregated waste stream contains a mixture of CH-TRU and RH-TRU waste, followed by whether it requires repackaging or treatment prior to shipment to WIPP, or whether there is a portion of it that can be certified and shipped directly without any need for either repackaging or treatment. The site nomenclature for an unsegregated waste stream is **IN-WXYZ**, whereas the nomenclature for any sub-streams resulting from this unsegregated stream is of the format **IN-WXYZ.ABC** etc. The fraction of the original unsegregated waste stream that is included in each sub-stream reported in the TWBIR Rev. 2 is stated under the Waste Stream Source description in each INEL waste stream profile. The Waste Stream Source description for a sub-stream also includes the phrases "Direct-ship" (i.e., it is certifiable and planned to be directly shipped to WIPP),"Cert-repack" (i.e., it will be certifiable upon repackaging) and "Uncertifiable" which refers to those sub-streams that will require treatment in order to become certifiable to the WIPP-WAC.

Notes on As-generated Containers

Since INEL did not submit any break-up of as-generated containers on a TWBIR sub-stream basis, this information has been derived (with the site's permission) from the percentages reported for each sub-stream in the Waste Stream Source description. For unsegregated waste streams with very small volumes (e.g., 1 to 10 drums), it was not always possible to precisely match the percentages reported in the source descriptions and allocate as-generated containers to each sub-stream. In such cases, the number of as-generated containers has been rounded off to the nearest integer. The as-generated volume of waste has been calculated using the same assumptions that have been used by the site, which is 0.212 m^3 for all drums, 3.17 m^3 for all boxes, 3.5 m^3 for all bins, and 0.212 m^3 for all inserts. However, for final waste form containers to be shipped to WIPP, the site assumed 0.208 m^3 as the volume of a 55-gallon drum. Because of the different assumptions for the volume of a drum between the as-generated waste and the final waste form, there may be minor discrepancies in the waste stream profiles for sub-streams that can be certified and shipped to WIPP without any repackaging or treatment.

Notes on Waste Material Parameters

INEL did not submit any waste material parameter data as part of the TWBIR Rev. 2 data submittal. Based on consultation and agreement with site representative(s), the TWBIR team has matched the waste streams reported in the Rev. 2 data submittal with their counterparts in Rev. 1 and thus assigned waste material parameters for each stream wherever possible.

Notes on the Final Waste Form Volume

Except for the waste streams that are expected to be directly shipped (upon WIPP-WAC certification) without any need for repackaging or treatment, no other waste streams are currently stored in final form. The uncertifiable streams are projected to be repackaged or treated at the site *at a later date*, as required, in order to be certifiable to the WIPP-WAC prior to their shipment to WIPP. However, for the purpose of reporting on the waste stream profiles, these uncertifiable streams are presented as "currently stored" in final form in order to avoid the error of double-counting these streams as both "currently stored" and "projected".

Notes on Waste Stream Description

The waste stream description applies only to the unsegregated waste stream and is therefore the same for all sub-streams that originate from a given unsegregated waste stream.

Notes on Handling Characteristics of Final Waste Form Containers

The handling characteristics (i.e., CH versus RH) of some of the waste streams may seem inconsistent with the waste stream description. This is because the handling (CH or RH) reflects the *expected* characteristics of the stream after it is repackaged or treated to meet the WIPP-WAC, whereas the waste stream description applies only to the unsegregated waste stream prior to any repackaging or treatment. All *apparent* discrepancies noted in the handling characteristics of a waste stream were brought to the site's attention during the BIR data review process, and the INEL site representative confirmed that the *expected* characteristics of the final form is what is presented in the data submittal.

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: IN-W112	Handling: RH	NMVP #: N/A	Stream Name: HEPA FILTERS		Inventory Date: 12/30/99
Local ID: ID-CPP-172	Type: MTRU	Generator Site: IN	Final Waste Form: Unknown		Waste Matrix Code: S5410

AS-GENERATED EPA CODES

U328, U238, U228, U227, U226, U225, U220, U219, U218, U217, U215, U211, U210, U208, U207, U204, U201, U196, U191, U190, U188, U182, U171, U170, U169, U165, U162, U159, U151, U147, U145, U144, U140, U138, U135, U134, U133, U131, U128, U127,

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Pollution Control or Waste Treatment Process

TRUCON CODE

N/A

M

FINAL FORM RADIONUCLIDES

Isotope	Ci/ml
H-3	3.70E-07
Ce-144	9.80E-06
Co-60	1.16E-06
Cs-134	1.00E-05
Cs-137	2.03E-04
Am-241	5.50E-08
Eu-155	1.89E-06
Tc-99	1.12E-08
Ni-63	3.40E-08
Np-237	2.40E-09
Pu-238	4.80E-07
Pu-239	6.30E-08
Ru-106	4.50E-06
Sb-125	7.80E-07
Sr-90	2.17E-04
Eu-154	2.54E-06

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.0 Projected: 0.0 Total: 0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

HEPA filters for off-gas cleaning of ventillation. The filters are considered MTRU waste because they are derived from treatment of HLW and spent fuel processing that contain TRU constituents. HEPA filters from CPP-633 and 659 may contain F, P, and U listed waste codes resulting from laboratory quantities of waste dumped to the ICPP waste systems filtered by these HEPA filters.

This waste stream contains nine NWCF (New Waste Calcining Facility) off-gas filters previously reported as part of ID-EGG-118-158, NWCF Filters. These waste streams have been combined and ID-EGG-118-158 has been made inactive.

WASTE STREAM SOURCE

This waste stream was generated at CPP-659, CPP-633: Primarily from system HEPA filters for off-gas cleaning from processing HLW and spent fuel waste. The generating process is: Waste generated from the off-gas cleaning HEPA filters associated with operation of the waste calciner's located in CPP-659 and CPP-633. This waste stream will be treated at INEL and is not supposed to be shipped to WIPP.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

The HEPA filters from CPP-659 and CPP-633 filter off-gas from systems that treat waste containing large quantities of TCLP metals (i.e., hundreds to thousands ppm). Therefore, these filters are most likely to have metals in concentrations which equal or exceed TCLP levels. EPA waste codes were obtained from HFLS Part A submitted in the Part B Permit application dated 7/93.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS

M

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: IN-Z001	Handling: U	NMVP #: N/A	Stream Name: INEL Buried TRU Waste		Inventory Date:
Local ID:	Type: TRU	Generator Site:	Final Waste Form: Unknown		Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

		TRUCON CODE	FINAL FORM RADIONUCLIDES
Category:	Defense TRU Waste	N/A	N/A
Residues:	No		
Asbestos:			
PCBs:			
Source:			

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Not contained	31000.0	0.0	0.0	0.0	0.0	31000.0
Totals	31000.0	0.0	0.0	0.0	0.0	31000.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 31000.0 Projected: 0.0 Total: 31000.0

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	N/A
WASTE STREAM SOURCE	The INEL disposed of approximately 57,000 m3 of TRU-contaminated waste in the Radioactive Waste Management Complex Subsurface Disposal Area up until 1970. It is planned to retrieve and treat 100% of the buried TRU waste, subject to the Record of Decision in 1998. Remediation efforts with Pit 9 are expected to begin in August 1996 Remaining TRU pits and trenches would be remediated in 2003-2016. The anticipated treatment will be vitrification, producing 31,000 m3 (1.01e08 kg) of vitrified product that will be stored in 55-gallon drums until final disposition. This waste will not go to WIPP.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

KA Knolls Atomic Power Laboratory - Schenectady

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KNOLLS ATOMIC POWER LABORATORY

Location and Description

Knolls Atomic Power Laboratory (KA) is located in Niskayuna, New York, about 3.2 km east of Schenectady. KA is operated by KAPL, Inc., a wholly owned subsidiary of the Martin Marietta Corporation under contract to the DOE. KA is a component of the Naval Nuclear Propulsion Program, and provides basic research and design on nuclear propulsion plants for Navy submarines. Facilities at the site include machine shops, waste-handling facilities, a boiler house, and chemistry, physics, and metallurgy laboratories.

Mission

The primary mission of KA is the design and testing of naval nuclear propulsion plants and reactor components. KA also provides fuel sample investigation support for the Idaho National Engineering Laboratory .

Waste Information

Processes

KA manages both CH and RH TRU heterogeneous debris. The TRU waste generated at KA is a result of the destructive evaluation of irradiated test specimens. KA has established a radioactive waste minimization practices program, including waste stream review, work planning, and waste stream segregation.

Modifications/Assumptions/Development

Waste streams that are expected to be directly shipped to WIPP (upon WIPP-WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double- counting these streams as both "as generated currently stored" and "final form projected."

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	KA-T001	Handling:	RH	NMVP #:	NA	Stream Name:	Transuranic Debris
Local ID:	KA-T001	Type:	TRU	Generator Site:	KA	Final Waste Form:	Heterogeneous

Inventory Date: 12/31/94

Waste Matrix Code: X7000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	98.2	0.0	1634.6
Aluminum-base Metal/Alloys:	0.0	0.0	1.6
Other Metals/Alloys:	0.1	0.0	22.7
Other Inorganic Material:	2.4	0.0	24.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	80.0	0.0	184.6
Rubber:	7.3	0.0	16.4
Plastics:	64.9	0.0	149.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Non-Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON CODE

N/A

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FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Y-90	9.60E-01
Sr-90	9.60E-01
Pu-242	2.60E-06
Pu-241	1.30E-01
Pu-240	4.20E-04
Pu-239	4.90E-04
Pu-238	3.10E-01
MFP	4.60E-01
Cs-137	9.60E-01
Co-60	5.00E-02
Ba-137m	9.20E+01
Am-241	7.20E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister / 5-gallon	0.2	0.5	0.9	1.8	1.8	5.2
Totals	0.2	0.5	0.9	1.8	1.8	5.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.5	5.0	8.9	18.7	18.7	53.9
Totals	2.5	5.0	8.9	18.7	18.7	53.9

As-Generated Form: Stored: 0.2 Projected: 4.9 Total: 5.2

Final Waste Form: Stored: 2.5 Projected: 51.4 Total: 53.9

WASTE STREAM DESCRIPTION	Organic and inorganic particulate and debris.
WASTE STREAM SOURCE	Waste from laboratory testing and analysis.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Material in this waste stream is not a hazardous waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	The current inventory identified in section 4.1.2.1 and the projected generation identified in section 5.1.3 consists of stored TRU which has not been completely characterized. It is expected that 50% of this material will be finally classified as LLW or MLLW. It is expected that 10% of this material will be finally classified as MTRU waste (KA-W016). The remainder will be finally classified as TRU waste. Data date is 12/31/94.
FINAL FORM COMMENTS	KAPL expects that once the 5 gallon container is in the 55 gallon drum, the 55 gallon drum will be CH, but that would not change the characterization of the waste.

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Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: KA-W016	Handling: RH	NMVP #: NA	Stream Name: Transuranic Debris		Inventory Date: 12/31/94
Local ID: KA-W016	Type: MTRU	Generator Site: KA	Final Waste Form: Heterogeneous		Waste Matrix Code: S5000

AS-GENERATED EPA CODES

F005, F003, F002, F001, D040, D039, D035, D018, D011, D010, D009, D008, D007, D006, D005, D004

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	98.2	0.0	1634.6
Aluminum-base Metal/Alloys:	0.0	0.0	1.6
Other Metals/Alloys:	0.1	0.0	22.7
Other Inorganic Material:	2.4	0.0	24.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	80.9	0.0	184.5
Rubber:	7.3	0.0	16.4
Plastics:	64.9	0.0	149.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Non-Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	9.60E-01
Sr-90	9.60E-01
Pu-242	2.60E-06
Pu-241	1.30E-01
Pu-240	4.20E-04
Pu-239	4.90E-04
Pu-238	3.10E-01
MFP	4.60E-01
Cs-137	9.60E-01
Co-60	5.00E-02
Ba-137m	9.20E+01
Am-241	7.20E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister / 5-gallon	0.0	0.1	0.1	0.2	0.2	0.7
Totals	0.0	0.1	0.1	0.2	0.2	0.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	1.2	1.5	2.1	2.1	6.9
Totals	0.0	1.2	1.5	2.1	2.1	6.9

As-Generated Form: Stored: 0.0 Projected: 0.7 Total: 0.7

Final Waste Form: Stored: 0.0 Projected: 6.9 Total: 6.9

WASTE STREAM DESCRIPTION	This transuranic mixed waste has not yet been generated. Waste will be segregated to the extent possible (considering ALARA) into inorganic, organic and heterogeneous waste streams and packaged separately. Details of waste characteristics will be developed upon generation. This waste stream will not be moratorium waste.
WASTE STREAM SOURCE	Waste generated through R&D programs
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	This waste has not yet been generated. The identification of hazardous constituents listed is based on process knowledge of potential contaminants.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	This data is consistent with the data provided to the State and EPA in the Proposed Site Treatment Plan. Data date is 12/31/94.
FINAL FORM COMMENTS	N/A

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LA Los Alamos National Laboratory

DOE/CAO-95-1121
December 1995

LOS ALAMOS NATIONAL LABORATORY

Location and Description

The Los Alamos National Laboratory (LANL) is located approximately 97 kilometers north of Albuquerque and 40 kilometers west of Santa Fe in Los Alamos County, New Mexico. The laboratory facilities are dispersed among numerous Technical Areas (TAs) spread over a 111-square kilometer site on the Pajarito Plateau. The plateau consists of several finger-like mesas extending eastward from the Jemez Mountains to the Rio Grande Valley with steep eroded canyons separating the mesas. The elevation of the mesas range from 1890 to 2377 meters. Some TAs are located in canyons.

The Los Alamos effort was the beginning of what is today the nationwide Albuquerque Operations Office laboratory and industrial complex of the DOE.

Mission

The Los Alamos Scientific Laboratory was established in 1943 by the U.S. Army's Manhattan Engineer District for the purpose of developing the first atomic bombs. Known as the Los Alamos Scientific Laboratory for many years, the name was changed to the Los Alamos National Laboratory in December 1980. LANL was the research, development, engineering design, and testing center for the Manhattan Project. The mission was the application of science and technology to problems of national security, including the maintenance of a strong defense, the fulfillment of arms controls commitments and the guarantee of a secure energy supply for the future.

During the wartime Manhattan Project, Los Alamos, New Mexico, was wholly-owned and controlled by the Government.

LANL's mission since World War II has included nuclear device design, research, development, testing, stockpile certification, and plutonium storage. Major programs currently include research in nuclear and conventional weapons development; nuclear fission and fusion; nuclear safeguards and security; verification and control technologies; fundamental research in particle physics, mathematics, chemistry, and materials; and waste management technology development and testing.

Research on peaceful uses of nuclear energy has included space applications, power reactor programs, magnetic and inertial fusion, radiobiology, and medicine. Other programs include astrophysics, earth sciences, lasers, computer sciences, solar energy, geothermal energy, biomedical and environmental research, and nuclear waste management research.

Today, the Waste Management Facilities Operations Group, CST-27, is responsible for all waste management facilities at LANL, except those related to high-explosives waste and sanitary waste, and those operated by waste generators in preparing their wastes for disposal. The Waste Management Program includes treating radioactive liquid and solid waste; packaging, transporting, treating, and disposing of hazardous chemical waste; and operating the disposal and storage sites for mixed waste. The Waste Management Program provides treatment, storage and disposal for Environmental Restoration Program-generated waste.

Waste Information

Processes

Major CH TRU waste generators at LANL are: Analytical Chemical Group (CHM-1), Nuclear Fuel Development and Facilities Operations Group (MST-11), Nuclear Materials Process Technology Group (MST-12), and Plutonium Metal Technology Group (MST-13).

RH TRU waste is generated by the Irradiated Materials Examination Group (MST-14).

CHM-1 is involved in analysis of radioactive materials. The waste generated by CHM-1 are combustibles (paper, rags, plastics, rubber) and non-combustibles (glass, ceramic, porcelain, metal, transite, chemicals, and equipment).

Wastes generated in MST-12 are process residues in solid and liquid TRU waste streams left when all economically recoverable quantities of special nuclear materials have been removed from a nuclear material item.

The wastes generated in MST-13 are combustible solids, noncombustible scrap (small tools, cans, small equipment items), and cemented process residues (process leached solids, filter cakes, and evaporator bottoms) stabilized in Portland or Gypsum cement.

The Size Reduction Facility's waste consists of metal equipment, either whole or sectional along with its combustible components, and the small volumes of combustibles generated during decommissioning, sectioning, and packaging (mostly gloveboxes, process equipment, and ductwork from decommissioning operations).

MST-14 generates both contact and remote handled solid wastes from hot cell operations.

Modifications/Assumptions/Development

LANL reported radionuclides in total Curies. The TWBIR team used the volumes reported for each waste stream to calculate the radionuclides in terms of Ci/m^3.

LANL's waste material parameters Solidified, Inorganic Matrix and Cement (Solidified) for waste streams LA–M002, LA–W003, LA–W006, LA–T002, and LA–T006 were calculated based on the proposed amount of cement that will be used to solidify these waste streams.

For final form containers, the estimated generation for newly generated waste was reported in the years 1995 to 2000. For the years 2001 to 2022 a bulk amount was reported. The TWBIR team converted this bulk amount into containers/year, assuring a constant generation rate per year between 2001 and 2022.

LANL assumes the internal volume for a 85 gallon drum used to overpack a 55 gallon drum is 0.208 m^3. This is assumed because all waste from 55 gallon drums that are currently overpacked in 85 gallon drums will be repackaged into 55 gallon drums for shipment to WIPP (upon WIPP–WAC certification).

Waste streams that are expected to be directly shipped to WIPP (upon WIPP–WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double– counting these streams as both "as generated currently stored" and "final form projected."

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: LA-Z001	Handling: U	NMVP #: N/A	*Stream Name:* Los Alamos National Laboratory Buried TRU Waste		Inventory Date:
Local ID:	Type: TRU	Generator Site:	Final Waste Form: Unknown		Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

		TRUCON CODE	FINAL FORM RADIONUCLIDES
Category:	Defense TRU Waste	N/A	N/A
Residues:	No		
Asbestos:			
PCBs:			
Source:			

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WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Not contained	14000.0	0.0	0.0	0.0	0.0	14000.0
Totals	14000.0	0.0	0.0	0.0	0.0	14000.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 14000.0 Projected: 0.0 Total: 14000.0

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	N/A
WASTE STREAM SOURCE	A total of approximately 14,000 m3 of TRU-contaminated waste is bured at the Los Alamos National Laboratory site. As of December 31, 1991, the radioactivity from the TRU radionuclides associated with this volume of buried waste is estimated to be 9,230 Curies. This waste will not go to WIPP.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

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LB Lawrence Berkeley Laboratory

LAWRENCE BERKELEY LABORATORY

Location and Description

Lawrence Berkeley Laboratory (LB) is located in an urban environment on 130 acres across the bay from San Francisco, California, in the hills overlooking the University of California-Berkeley. The site is bordered on the north by predominately single-family homes, and on the west by multi-unit dwellings, student residence halls, and commercial districts.

Mission

LB is operated by the University of California for DOE. Its mission is to: 1) perform multidisciplinary research in the energy sciences, general sciences, and life sciences; 2) develop and operate unique national experimental facilities that are available to qualified investigators; and 3) transfer knowledge and technologies innovations and foster productive relationships between LB and research programs, universities, and industry to promote national economic competitiveness. In addition, LB provides scientific support to DOE through operation of particle accelerators, chemistry and biomedical research laboratories, and support facilities.

Waste Information

Processes

TRU waste was generated as a result of several activities including research activities performed in the chemical sciences and earth sciences areas. Typical research areas included the determination of the solubility and speciation of actinide elements in various sample acids and acidic brines. LB's TRU waste also came from the removal of sources from smoke detectors.

The TRU Waste generated by LB for past DOE projects does not currently fit into the defense category, making LB one of the small generator sites with waste not acceptable to WIPP. The waste generated on-site is now being packaged for shipment off-site for interim storage at Hanford's Solid Waste Treatment, Storage, and Disposal Facility.

Modifications/Assumptions/Development

Waste streams that are expected to be directly shipped to WIPP (upon WIPP–WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double– counting these streams as both "as generated currently stored" and "final form projected."

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: LB-T001 | Handling: CH | NMVP #: N/A | Stream Name: LBL - Waste | Inventory Date: 5/31/95

Local ID: | Type: TRU | Generator Site: | Final Waste Form: Heterogeneous | Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	390.0	40.0	800.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	425.0	50.0	850.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	150.0	60.0	200.0
Rubber:	0.0	0.0	0.0
Plastics:	450.0	150.0	600.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	150.0	50.0	250.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Non-Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

UNK

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FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-233	4.81E-03
Ra-226	3.38E-02
Pu-242	1.01E-02
Pu-240	5.05E-03
Pu-238	2.54E-04
Es-254	5.29E-03
Es-253	4.81E-04
Cm-244	1.19E-01
Cf-250	4.81E-05
Cf-249	3.16E-03
Am-243	3.85E-02
Am-241	9.32E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.6	0.0	0.2	0.4	0.4	1.7
Totals	0.6	0.0	0.2	0.4	0.4	1.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.2	0.4	0.4	1.7
Totals	0.6	0.0	0.2	0.4	0.4	1.7

As-Generated Form: Stored: 0.6 Projected: 1.0 Total: 1.7

Final Waste Form: Stored: 0.6 Projected: 1.0 Total: 1.7

WASTE STREAM DESCRIPTION	Transuranic wastes with isotopes only
WASTE STREAM SOURCE	The LBL is operated by UC for DOE and performs multi-disciplinary research in the energy sciences, life sciences, and general sciences. During the research a small amount of TRU waste is generated.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data of regulated contaminant characteristics is solely provided by generators. No laboratory chemical analysis has been performed to verify these data.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

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MOUND PLANT

Location and Description

Mound (MD) is located within the southern city limits of Miamisburg in Montgomery County in southwestern Ohio. The plant occupies 306 acres of land overlooking Miamisburg and the Great Miami River. The metropolitan area of Dayton is located 10 miles north-northeast of Mound.

The DOE Dayton Area Office was established as part of the Albuquerque Operations Office in 1947.

The Mound Plant (MD) is one of the principal DOE sites. The facility was utilized as an integrated research, development, and production facility to perform work in support of DOE weapons and energy programs. Mound manufactured non-nuclear and tritium-containing components for nuclear weapons. These components included detonators, timers, transducers, firing sets, pellets, and unique production testers. Activities also included recovery and purification of tritium wastes. Earlier activities included manufacturing of polonium-210 and plutonium-238 radioisotopic heat sources.

Mission

Mound originated as a technical organization in 1943 and was responsible for determining the chemical and metallurgical properties of plutonium for the Manhattan Project. Permanent facilities were first constructed in 1947 and occupied in 1948. The plant was assigned new production and development functions in 1955.

In 1993, the Secretary of Energy announced that the Defense Program Mission was to be ended at Mound. Mound's new mission is the safe shutdown of Defense Programs and commercialization of some of the area offices.

Waste Information

Processes

TRU waste may be generated by the Decontamination and Decommissioning (D&D) operations in the Plutonium Processing Building and the Research Building.

Large quantities of the line-generated solid wastes, including gloveboxes, fume hoods, piping, tools and other non-burnables, as well as rags, chemwipes, and other combustible waste was and will be generated by the Pu Processing and Research Buildings D&D Project.

TRU alpha wastes are generated from decontamination operations in the Pu Processing Areas.

Other major D&D efforts included the removal of underground piping which formerly transmitted Pu-contaminated liquid waste from the processing area to the waste water treatment facility.

Modifications/Assumptions/Development

Waste streams that are expected to be directly shipped to WIPP (upon WIPP-WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double- counting these streams as both "as generated currently stored" and "final form projected."

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Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: MD-T004 | Handling: CH | NMVP #: N/A | Stream Name: Uncategorized unknowns | Inventory Date: 5/5/95

Local ID: N/A | Type: TRU | Generator Site: MD | Final Waste Form: Unknown | Waste Matrix Code: Z9000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	150.4		
Packaging Material Plastic:	20.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Source Unknown

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-240	2.00E+01
Pu-239	3.70E-01
Pu-238	5.16E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.2	0.0	0.0	0.0	0.0	4.2
Box / Type 003	2.3	0.0	0.0	0.0	0.0	2.3
Box / Type 004	21.0	0.0	0.0	0.0	0.0	21.0
Totals	27.5	0.0	0.0	0.0	0.0	27.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.2	0.0	0.0	0.0	0.0	4.2
Standard Waste Box	22.7	0.0	0.0	0.0	0.0	22.7
Totals	26.8	0.0	0.0	0.0	0.0	26.8

As-Generated Form: Stored: 27.5 Projected: 0.0 Total: 27.5

Final Waste Form: Stored: 26.8 Projected: 0.0 Total: 26.8

WASTE STREAM DESCRIPTION	MOST (>50%) INPUT FORMS DO NOT HAVE ANY INFORMATION AS TO WHAT MAY BE INSIDE. THIS WASTE IS EVERYTHING THAT DOES NOT FIT IN THE OTHER STREAMS OR THERE IS TOO LITTLE INFORMATION AVAILABLE TO CATEGORIZE INTO ONE OF THE OTHER STREAMS.
WASTE STREAM SOURCE	Uncategorized TRU waste.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Confidence level based on the number of unknowns
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: MD-W018	Handling: CH	NMVP #: N/A	Stream Name: PCB TRU WASTE		Inventory Date: 5/5/95
Local ID: N/A	Type: TRU	Generator Site: MD	Final Waste Form: Unknown		Waste Matrix Code: U9999

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	153.7		
Packaging Material Plastic:	0.4		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

		TRUCON CODE	FINAL FORM RADIONUCLIDES
Category:	Defense TRU Waste	N/A	N/A
Residues:	No		
Asbestos:	No		
PCBs:	Yes		
Source:	Facility/Equipment Operation and Maintenance Waste		

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
LLW Box	2.8	0.0	0.0	0.0	0.0	2.8
Totals	3.0	0.0	0.0	0.0	0.0	3.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Standard Waste Box	18.9	0.0	0.0	0.0	0.0	18.9
Totals	19.1	0.0	0.0	0.0	0.0	19.1

As-Generated Form: Stored: 3.0 Projected: 0.0 Total: 3.0

Final Waste Form: Stored: 19.1 Projected: 0.0 Total: 19.1

WASTE STREAM DESCRIPTION	PCB contaminated waste. Its origin is unknown. There is no paperwork or any other information about this waste.
WASTE STREAM SOURCE	PCB contaminated waste. Only information known at present (6/6/95) is the outside type and volume of the outside contrainer. There is a press is inside a plywood box which is inside the LLW box.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Confidence level is low due to the number of unknowns.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Storage and shipping container were assumed to be the same

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M

OAK RIDGE NATIONAL LABORATORY

Location and Description

The Oak Ridge National Laboratory (ORNL) is located 10 miles southwest of downtown Oak Ridge, Tennessee, and 32 kilometers northwest of Knoxville, Tennessee. The ORNL site occupies about 10,000 acres of the 35,252 acre Oak Ridge Reservation. The site covers portions of both Melton and Bethel Valleys. Approximately 1100 acres within the Melton and Bethel Valleys have been developed.

The ORNL is under the auspices of the DOE/Oak Ridge Operations Office which supports production of nuclear weapon components for national defense programs, production of enriched uranium for defense requirements and for fuelling nuclear power plants, the processing of uranium feed materials for DOE's plutonium production reactors, and extensive energy research and development in all DOE program areas.

Mission

ORNL was established in 1942 in support of the Manhattan Project. The primary mission of ORNL has been to carry out applied research and engineering development in fission, fusion, and other energy technologies, and to conduct scientific research in basic physical and life sciences. Relevant missions include isotope production and processing, research and development, waste management, and D&D of operating units, and advanced reactor development work. In addition, ORNL conducts several activities for DOE Defense Programs. The principal nonweapons-related activities include nuclear power development and magnetic fusion research. ORNL conducts activities in support of DOE's Transuranic Element Program, the Californium and Loan Program, and the Mark 42 Program.

During the wartime Manhattan Project, the town of Oak Ridge, Tennessee, was wholly-owned and controlled by the Government.

Waste Information

Processes

The Y-12 Plant was built originally as part of the Manhattan Project to separate and concentrate uranium-235 isotopes by the electromagnetic process. With the successful demonstration of the more efficient gaseous diffusion process, the plant was modified to carry out other weapons production operations. The major operations at the Y-12 Plant were production of weapon components, uranium, uranium alloys, and lithium compounds that were shipped to other sites.

The K-25 Site (formerly the Oak Ridge Gaseous Diffusion Plant) was a production and development facility for uranium enrichment using a gaseous diffusion process. Production operations were shut down in 1985. The current mission of K-25 involves environmental restoration, decontamination and decommissioning, and waste management. DOE's TSCA incinerator is located at the K-25 site.

Waste streams at ORNL tend to be different from K-25 and Y-12 waste streams in that they are smaller in volume, constantly changing, and could contain virtually any radionuclide, depending on the research activity that generated the waste stream. In these respects, they are probably similar to the waste streams generated at all the national labs. Of the three main facilities at ORR, only ORNL generates TRU waste (from research reactors), although K-25 and Y-12 waste streams may contain concentrations of transuranic isotopes below 100 nanocuries per gram.

In contrast, the waste generating processes at K-25 and Y-12 tend to be stable and have their own signature isotopes. Waste streams at K-25 may often be contaminated with technicium, either depleted or enriched uranium, and trace concentrations of transuranics. Y-12 waste streams are also often contaminated with depleted or enriched uranium. Some waste streams at Y-12 are derived from classified activities; data about these waste streams are also classified.

Most of the TRU waste residing at ORNL has been generated as a result of the Californium and U-233 Program or has come from off-site waste generators. Additional TRU waste is produced by the ORNL Analytical Chemistry facilities as a result of sample analysis. Some TRU waste may also be generated by the K-25 Site during decontamination and decommissioning activities.

RH-TRU solid waste consists primarily of miscellaneous hot-cell waste (e.g., paper, glass, plastic tubing, shoe covers, wipes, etc.), HEPA filters from off-gas cleanup systems, and discarded equipment (e.g., chemical processing racks, vacuum pumps, etc.). The unshielded individual waste packages within the casks typically have radiation levels that measure between 10 and 2000 rem/h; the majority are below 100 rem/h. RCRA materials in RH TRU solid waste primarily consist of lead that was used as shielding, and limited amounts of mercury from discarded mercury-vapor lamps. The RH TRU solid waste is typically contained in cylindrical concrete casks 1.4 m (4.5 ft) in diameter by 2.3 m (7.5 ft) high. Wall thickness of the casks are currently either 15.2 or 30.5 cm (6 or 12 in) thick, depending on the radiation level of the contents.

The majority of RH TRU sludges as ORNL are the result of waste accumulation from the past 50 years of ORNL liquid waste operations. These sludges are residuals from sluicing operations conducted in the early 1980s when the majority of the inactive gunite tank contents were removed for hydrofracture disposal at ORNL. RH TRU sludges continue to accumulate due to on-going R&D programs which produce transuranium isotopes for medical, industrial, and government applications. The surface equivalent dose rates of these sludges are generally near 10 rem/h (unshielded).

Most CH TRU waste is generated at ORNL by activities related to isotope research and production, including analytical support. The waste results primarily form hot cell and glovebox operations, and most of it can be accommodated in 55-gallon drums.

CH TRU waste at ORNL consists of general laboratory wastes such as various glassware, plastic ware, empty reagent bottles, vials, and other containers, cloth and paper wipes, rubber and cotton gloves, contaminated clothing, gaskets and other rubber parts, metal parts, tools and machinery, electrical equipment, ion-exchange resins, ventilation filters, and other general waste generated during the operation of gloveboxes and hot cells. A given container of waste may contain several different TRU radionuclides.

One of ORNL's offsite generators is the Paducah Gaseous Diffusion Plant (PA) in Kentucky serves as the first stage in the DOE uranium enrichment complex. TRU isotopes have been separated from the uranium feed and collected at the bottom of the cascade. Some drums containing TRU waste have been shipped to ORNL for storage while the remaining TRU waste containers continue to be stored at PA.

Nuclear Fuels Services, Inc. (NFS) at Erwin, Tennessee, sent 800+ drums of CH TRU waste to ORNL.

Other off-site generators include the New Brunswick Laboratory, West Valley Decommissioning Project, and the Knolls Atomic Power Laboratory.

Modifications/Assumptions/Development

ORNL reported radionuclides in total Curies. The TWBIR team calculated the radionuclides in terms of Ci/m^3 using the final waste form volumes reported by OR.

ORNL's waste material parameters Solidified, Inorganic Matrix and Cement (Solidified) for waste streams OR-W042 and OR-W046 were calculated based on the proposed amount of cement that will be used to solidify these waste streams.

Waste streams that are expected to be directly shipped to WIPP (upon WIPP-WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double- counting these streams as both "as generated currently stored" and "final form projected."

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: OR-W089	Handling: CH	NMVP #: N/A	Stream Name: CH-TRU Uncategorized (nonmixed)		Inventory Date: 12/31/94
Local ID: T2303	Type: TRU	Generator Site: OR	Final Waste Form: Unknown		Waste Matrix Code: S9000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	96.2	0.0	1716.4
Aluminum-base Metal/Alloys:	0.0	0.0	1.6
Other Metals/Alloys:	0.0	0.0	21.3
Other Inorganic Material:	2.4	0.0	24.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	80.9	0.0	184.8
Rubber:	7.4	0.0	17.9
Plastics:	64.9	0.0	149.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	3.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos:

PCBs: No

Source: Source Information Not Compiled

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-238	1.72E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box /Metal	8.2	0.0	0.0	0.0	0.0	8.2
Box /Wood	5.1	0.0	0.0	0.0	0.0	5.1
Cask /Concrete	2.8	0.0	0.0	0.0	0.0	2.8
Drum / 55-gallon	1.7	0.0	0.0	0.0	0.0	1.7
Totals	17.8	0.0	0.0	0.0	0.0	17.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	17.7	0.0	0.0	0.0	0.0	17.7
Totals	17.7	0.0	0.0	0.0	0.0	17.7

As-Generated Form: Stored: 17.8 Projected: 0.0 Total: 17.8

Final Waste Form: Stored: 17.7 Projected: 0.0 Total: 17.7

WASTE STREAM DESCRIPTION	This waste stream consists of CH-TRU waste which has not been classified or characterized. It is believed that the physical form is either solid, liquid, mixed (both solid and liquid), or unknown and does not contain hazardous constituents. This waste is categorized as uncategorized (matrix code 9000).
WASTE STREAM SOURCE	Hot Cell Waste, Radiochemical Processing for Isotope Separation and Purification
CURRENT CONTAINER COMMENTS	Waste will have to be repackaged into acceptable containers for shipment and disposal.
	Waste will have to be repackaged into acceptable containers for shipment and disposal.
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Final treatment will be decided upon characterization and categorization of this waste stream. The waste currently stored in casks will have to be repackaged into acceptable containers for shipment and disposal.
ACCEPTANCE COMMENTS	Bldg 118 is not designated as a TRU Storage Facility. The waste inside this building will be evaluated as being TRU or LLW. Bldg 7834 is a closed non-RCRA storage facility. The waste containers stored in this building will be evaluated to determine if they are mixed or non-mixed TRU since this is a non-RCRA facility.
FINAL FORM COMMENTS	Prior estimates on weight distribution were given for this waste stream in section 8.2.14.1 . The same estimates are used in this section. No newly generated waste is projected for this waste stream. 77 additional 55 gallon drums will be required to repack the existing waste.

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	OR-W090	Handling:	RH	NMVP #:	N/A	Stream Name:	RH-TRU Uncategorized (nonmixed)
Local ID:	T2305	Type:	TRU	Generator Site:	OR	Final Waste Form:	Unknown

Inventory Date: 12/31/94

Waste Matrix Code: S9000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	96.2	0.0	1716.4
Aluminum-base Metal/Alloys:	0.0	0.0	1.6
Other Metals/Alloys:	0.0	0.0	21.3
Other Inorganic Material:	2.4	0.0	24.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	80.9	0.0	184.8
Rubber:	7.4	0.0	17.9
Plastics:	64.9	0.0	149.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	3.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	
PCBs:	No
Source:	Source Information Not Compiled

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
U-235	2.96E-04
U-233	5.30E-01
Th-232	2.46E-07

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Cask /Concrete	0.03	0.0	0.0	0.0	0.0	0.03
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	0.9	0.0	0.0	0.0	0.0	0.9
Totals	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated Form: Stored: 0.03 Projected: 0.0 Total: 0.03

Final Waste Form: Stored: 0.9 Projected: 0.0 Total: 0.9

WASTE STREAM DESCRIPTION	This waste stream consists of RH-TRU waste which has not been classified or characterized. It is believed that the physical form is either solid, liquid, mixed (both solid and liquid), or unknown and does not contain hazardous constituents. This waste is categorized as uncategorized (matrix code 9000).
WASTE STREAM SOURCE	Unknown
CURRENT CONTAINER COMMENTS	This waste will have to be repackaged into acceptable containers.
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Final treatment will be decided upon characterization and categorization of this waste stream. The waste currently stored in casks will have to be repackaged into acceptable containers for shipment and disposal.
ACCEPTANCE COMMENTS	Bldg 7829 is not designated as a TRU Storage Facility. The waste inside will be evaluated as being TRU or LLW. One container in this waste stream will be evaluated as possibly being Spent Nuclear Fuel.
FINAL FORM COMMENTS	No prior estimates on weight distribution or Pu-239 FGEs were given for this waste stream because no 55-gallon drums were reported in the inventory and no waste is projected for the future. 1 RH canister used to overpack 55 gallon drums will be required to repack the existing waste.

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	OR-W091	Handling:	CH	NMVP #:	N/A	Stream Name:	CH-TRU Heterogeneous Debris (nondefense)
Local ID:	2315	Type:	MTRU	Generator Site:	AR	Final Waste Form:	Heterogeneous

Inventory Date: 12/31/94

Waste Matrix Code: S5490

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	96.2	0.0	1716.4
Aluminum-base Metal/Alloys:	0.0	0.0	1.6
Other Metals/Alloys:	0.0	0.0	21.3
Other Inorganic Material:	2.4	0.0	24.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	80.9	0.0	184.8
Rubber:	7.4	0.0	17.9
Plastics:	64.9	0.0	149.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	3.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Non-Defense TRU Waste
Residues:	No
Asbestos:	
PCBs:	No
Source:	Other/Multiple Sources

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Ra-226	4.71E+00
Pu-239	3.55E-01
Pu-238	4.84E+01
Am-241	1.01E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.8	0.0	0.0	0.0	0.0	0.8
Other	0.03	0.0	0.0	0.0	0.0	0.03
Totals	0.9	0.0	0.0	0.0	0.0	0.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0
Totals	1.0	0.0	0.0	0.0	0.0	1.0

As-Generated Form: Stored: 0.9 Projected: 0.0 Total: 0.9

Final Waste Form: Stored: 1.0 Projected: 0.0 Total: 1.0

WASTE STREAM DESCRIPTION	This waste stream consists of CH-TRU Waste which is classified as contaminated equipment, decontaminated debris or dry solids which were generated from nondefense programs. The physical form is solid and is suspected to contain hazardous constituents. It has not been determined if these wastes have been examined by WEAF. This waste is categorized as heterogeneous debris (matrix code 5490).
WASTE STREAM SOURCE	Sources and Sealed Sources
CURRENT CONTAINER COMMENTS	Other types of storage containers exist and will require repackaging into acceptable containers. Waste contents will require repackaging into an acceptable containers.
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	This waste has been determined to come from nondefense related programs. Resolution of the nondefense issue for shipment to WIPP will have to take place prior to final disposal of this waste stream.
ACCEPTANCE COMMENTS	Bldg 7826 is a closed non-RCRA storage facility. The waste containers stored in this building will be evaluated to determine if they are mixed or non-mixed TRU since this is a non-RCRA facility.
FINAL-FORM COMMENTS	Prior estimates on weight distribution were given for this waste stream in section 8.2.14.1 . The same estimates are used in this section. No newly generated waste is projected for this waste stream. 1 additional 55 gallon drum will be required to repack the existing waste.

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: OR-W092	Handling: CH	NMVP #: N/A	Stream Name: CH-TRU Uncategorized (nondefense, nonmixed)		Inventory Date: 12/31/94
Local ID: T2302	Type: TRU	Generator Site: PR	Final Waste Form: Unknown		Waste Matrix Code: S9000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	96.2	0.0	1716.4
Aluminum-base Metal/Alloys:	0.0	0.0	1.6
Other Metals/Alloys:	0.0	0.0	21.3
Other Inorganic Material:	2.4	0.0	24.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	80.9	0.0	184.8
Rubber:	7.4	0.0	17.9
Plastics:	64.9	0.0	149.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	3.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Non-Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Source Information Not Compiled

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Co-60	1.37E+04
Ag-110M	1.37E+04

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Cask /Concrete	4.4	0.0	0.0	0.0	0.0	4.4
Totals	4.39	0.0	0.0	0.0	0.0	4.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.4	0.0	0.0	0.0	0.0	4.4
Totals	4.4	0.0	0.0	0.0	0.0	4.4

As-Generated Form: Stored: 4.4 Projected: 0.0 Total: 4.4

Final Waste Form: Stored: 4.4 Projected: 0.0 Total: 4.4

WASTE STREAM DESCRIPTION	This waste stream consists of CH-TRU waste which has not been classified or characterized. It is believed that the physical form is either solid, liquid, mixed (both solid and liquid), or unknown and may contain hazardous constituents. This waste is categorized as uncategorized (matrix code 9000).
WASTE STREAM SOURCE	Control and Shim Rods with data to be verified.
CURRENT CONTAINER COMMENTS	Waste contents will require repackaging into an acceptable containers.
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Final treatment , if required, will be decided upon characterization and utilization of process knowledge for the categorization of this waste stream. The waste stored in casks will have to be repackaged into approved shipping containers. Resolution of the nondefense issue will have to be resolved if this waste stream is to be shipped to WIPP.
ACCEPTANCE COMMENTS	Bldg 119 is not designated as a TRU Storage Facility and the waste inside will be assessed as being TRU or LLW.
FINAL FORM COMMENTS	No prior estimates on weight distribution or Pu-239 FGEs were given for this waste stream because no 55-gallon drums were reported in the inventory and no waste is projected for the future. 21 55 gallon drums will be required to repack the existing waste.

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: OR-Z001	Handling: U	NMVP #: N/A	Stream Name: Oak Ridge National Laboratory Buried TRU Waste		Inventory Date:
Local ID:	Type: TRU	Generator Site:	Final Waste Form: Unknown		Waste Matrix Code:

AS-GENERATED EPA CODES	FINAL WASTE FORM DESCRIPTORS		TRUCON CODE	FINAL FORM RADIONUCLIDES
N/A	Category:	Defense TRU Waste	N/A	N/A
	Residues:			
	Asbestos:			
	PCBs:			
	Source:			

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Not contained	176.0	0.0	0.0	0.0	0.0	176.0
Totals	176.00	0.0	0.0	0.0	0.0	176.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 176.0 Projected: 0.0 Total: 176.0

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	N/A
WASTE STREAM SOURCE	A total of approximately 176 m3 of TRU-contaminated waste is buried at the Oak Ridge National Laboratory site. This total does not include approximately 9,500 m3 of TRU waste that was injected by yydrofracture at ORNL, which is equivalent to abount 680,000 Curies of as-stored radioactivity. As of December 31, 1993, the decayed radioactivity from the TRU radionuclides associated with this volume of buried waste is estimated to be 20 Curies. The TRU radionuclide total includes 244-Cm, which is considered to be a TRU radionuclide at ORNL. This waste will not go to WIPP.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

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PA Paducah Gaseous Diffusion Plant

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PADUCAH GASEOUS DIFFUSION PLANT

Location and Description

The Paducah Gaseous Diffusion Plant (PA) is situated in northwestern Kentucky, 26 kilometers west of Paducah, near the Ohio River. The site encompasses 750 acres (including 74 acres of process buildings). The site is included in a 3422-acre tract of DOE-owned property.

The PA is operated from DOE/Oak Ridge Operations Office with Lockheed Martin Utilities Services as the Management and Operating Contractor.

Mission

The DOE uranium enrichment complex of which PA is a component, was originally constructed to produce highly enriched uranium for nuclear weapons. The complex is now used primarily to provide low enriched uranium for domestic and foreign nuclear power reactors and, to a lesser degree, to provide the highly enriched uranium used in nuclear propulsion (naval) reactors and some research and test reactors.

The principle on-site process at PA is the separation of uranium isotopes through gaseous diffusion. The process produces enriched uranium to levels of up to 3% U-235. Most of the enriched product is shipped to the Portsmouth Gaseous Diffusion Plant for further processing.

Waste Information

Processes

During its defense-related operations, recovery of a reactor material resulted in the generation of TRU waste. Although most of the TRU waste has been shipped to ORNL for storage, some wastes remain on site. No additional TRU waste generation is expected at the PGDP.

Modifications/Assumptions/Development

PA reported radionuclides in Ci per kilogram. The TWBIR team calculated the radionuclides in terms of Ci/m^3 using the mass and final form volumes reported by PA.

Waste streams that are expected to be directly shipped to WIPP (upon WIPP–WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double– counting these streams as both "as generated currently stored" and "final form projected."

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	PA-B015	*Handling:*	CH	*NMVP #:*	N/A	*Stream Name:*	*Transuranic and Technetium Wastes - Liquid*
Local ID:	PA-B015	Type:	MTRU	Generator Site:	PA	Final Waste Form:	Unknown

Inventory Date: 12/31/94

Waste Matrix Code: L1190

AS-GENERATED EPA CODES

D002, D007

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	59.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	212.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Tc-99	3.79E+00
Pu-239	1.66E-01
Np-237	4.56E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum/55-gallon in overpack	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.60	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
SWB used to overpack 55 gallon drums	0.0	0.0	0.0	0.0	1.9	1.9
Totals	0.0	0.0	0.0	0.0	1.9	1.9

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 0.0 Projected: 1.9 Total: 1.9

WASTE STREAM DESCRIPTION	Transuranic and Technitium waste class C Liquid
WASTE STREAM SOURCE	C-400
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: PA-W014	Handling: CH	NMVP #: N/A	Stream Name: Transuranic Waste Liquid		Inventory Date: 12/31/94
Local ID: PA-W014	Type: MTRU	Generator Site: PA	Final Waste Form: Unknown		Waste Matrix Code: L1220

AS-GENERATED EPA CODES

D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	212.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON CODE: N/A

FINAL FORM RADIONUCLIDES: N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum/55-gallon in overpack	0.3	0.0	0.0	0.0	0.0	0.3
Totals	0.30	0.0	0.0	0.0	0.0	0.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
SWB used to overpack	0.0	0.0	0.0	0.0	1.9	1.9
Totals	0.0	0.0	0.0	0.0	1.9	1.9

As-Generated Form: Stored: 0.3 Projected: 0.0 Total: 0.3

Final Waste Form: Stored: 0.0 Projected: 1.9 Total: 1.9

WASTE STREAM DESCRIPTION	Transuranic Waste Basic class C Green Sludge
WASTE STREAM SOURCE	C -400
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

RF Rocky Flats Environmental Technology Site

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DOE/CAO-95-1121
December 1995

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Location and Description

The Rocky Flats Environmental Technology Site (RFETS) is located in Jefferson County, Colorado, approximately 26 kilometers northwest of downtown Denver, near the suburban communities of Westminster, Boulder, Broomfield, Golden and Arvada, Colorado. It is a 384-acre complex in the center of a 6550-acre reservation.

The facilities at RFETS are divided into two main areas. The area on the north contains all of the facilities related to plutonium operations. Security fences and intrusion-detection systems surround all buildings in which plutonium is handled or stored, and various other measures are used to provide safeguards and security. This area is referred to as the "Protected Area". The area to the south contains both nonplutonium manufacturing facilities, which are located in secure areas, plutonium waste storage facilities, and general support facilities, some of which are in secured areas.

Mission

The original mission of the Rocky Flats Plant (original name for RFETS) was the manufacture of nuclear weapons components fabricated from plutonium, enriched uranium, and conventional metals. It was originally a key weapons material production facility. Plant construction began in March 1951 and operations began in 1952. The Plant used specialized machine shops to process raw nuclear material into the finished components required by the warhead designs. Plutonium and beryllium components were fabricated into the shells of fissionable materials, called pits. A former mission of RFETS was to dissemble the pits from retiring weapons. The recovered pit was chemically processed to remove americium and plutonium. Plutonium scrap recovery was also performed at RF.

In 1989, the Secretary of Energy halted all plutonium production operations at the RFETS in order to improve the conduct of operations, standards of performance, and the management structure. On September 27, 1991, the President of the United States announced his cancellation of several nuclear-weapons programs, leaving the W-88 war head for the Trident II missile as the only remaining system requiring the fabrication of plutonium components at RFETS. This requirement was eliminated in 1992, when the President decided to cancel further production of the Trident II missile and its nuclear warhead.

In response to the President's decisions, the Secretary of Energy proceeded with several initiatives directed at a more cost-effective execution of the defense mission which included revising plans at RFETS for plutonium and nonplutonium manufacturing areas.

RFETS new mission is to clean out and stabilize production process systems, decontaminate obsolete or excess buildings and facilities; stabilize residues in preparation for transport to storage or disposal sites; possibly transfer non-plutonium manufacturing to other locations; maintain a contingency status. Approximately 140 structures at RFETS include major manufacturing, chemical processing, plutonium recovery, and waste treatment facilities. Plant operations also include chemical laboratories, research and development, and support of other DOE facilities.

RFETS has stopped weapons production operations. Future relevant activities will be TRU waste management, including preparation of existing material for geologic disposal, and decontamination and decommissioning.

Waste Information

Processes

Production activities included metal working, fabrication and component assembly, chemical recovery and purification of transuranic nuclides. The plant utilized specialized facilities for recovering nuclear components from obsolete weapons.

Prior to 1960, the main plutonium purification process was dissolution followed by a solvent extraction step that used tributylphosphate as the solvent and dodecane as the diluent. The solvent extraction step was followed by cation exchange. Around 1960, solvent extraction was eliminated from the recovery process because the materials going through the process were becoming more and more varied and could not be adequately handled by the process. The solvent extraction process was replaced by dissolution in the nitric acid followed by ion exchange and peroxide precipitation. The purified plutonium oxide was converted to plutonium fluoride and reduced to plutonium metal using calcium. Other chemical processes, such as molten salt extraction, have also been used at RFETS.

A need to process americium arose because of a personnel exposure problem from its gamma ray emissions. From late 1957 until the late 1970s, americium was recovered and purified at the plant for resale. The demand for americium dropped off in the late 1970s, and the americium was processed as waste.

Depleted uranium operations were a significant part of the original manufacturing performed at the plant. Operations included casting, machining, rolling, and forming. Alloying of depleted uranium with niobium began in 1966, although full-scale production did not occur until the early 1970s. Depleted uranium, which contains less than 0.7% U-235 by mass, is rich in the U-238 radionuclide. The RFETS depleted uranium is assumed to be material type U-12, which is composed of 99.78% U-238, 0.215% U-235, 0.006% U-236, and 0.001% U-234 by mass.

Enriched uranium, containing about 93% U-235 by mass, was processed at the RFETS from 1952 to 1964. This concentration of U-235 is material type U-38, which is composed of 93.08% U-235, 5.65% U-238, 0.93% U-234, and 0.34% U-236 by mass. The enriched uranium manufacturing processes included casting, forming, machining, assembly, recovery, and purification.

The enriched uranium chemical recovery line began operations in 1954. The chemical recovery used a solvent extraction process with dibutylethylcarbutol as the solvent and dodecane as the diluent. This process was similar to the early solvent extraction process used for plutonium recovery. A solvent still was operated at the plant, and some of the distilled solvent was reused. The discarded solvent and oils were drummed and later became part of the organic sludge waste stream. Enriched uranium operations were shut down in 1962.

Some U-233 was processed from the late 1950s to the early 1970s. The U-233 processing included casting, machining, aqueous processing, and separations. Records indicate that the INEL received 56 grams of U-233 as waste from the RFETS in 1967.

All the plutonium operations were carried out in enclosures that are operated under subatmospheric pressure to minimize uncontrolled releases of radioactive material into the operating area. These enclosures are called gloveboxes, and the ventilation systems pass through a high-efficiency particulate air filter system. Leaded rubber gloves are used to protect operations personnel from the gamma activity associated with the plutonium and americium.

The filters from the ventilation systems and the filters used in other systems eventually become waste. The leaded rubber becomes contaminated and also becomes waste. Some of the processes used produce liquid waste streams. These liquid streams are converted to a sludge or solid with adsorbents or cements. contaminated equipment, clothing, tools, etc, end up as radioactive waste. Waste is also generated by decontamination projects and modifications to facilities.

All radioactive waste from the RFETS that was sent to INEL from 1954 to 1970 was buried at the RWMC. Transuranic waste received at INEL from RFETS after October 1970 has been stored aboveground at the Transuranic Storage Area.

Modifications/Assumptions/Development

The approach used and the assumptions made in preparing the RF waste stream profiles are as follows:

- Projection volumes were taken from the Comprehensive Waste Management Plan (CWMP) with the exception of Solid Stabilization (formerly Residue Elimination). The program projection available for Solid Stabilization at the time the CWMP was being drafted was a "not to exceed" volume. The volume and breakdown of final form waste streams used in preparing the TWBIR was an updated, projected volume taken from the Conceptual Design Report for Residue Elimination at Rocky Flats, RES-005-001, May 1994.
- The planned treatment for waste streams requiring treatment to meet WIPP WAC and TRAMPAC requirements are taken from the Draft Site Treatment Plan (DSTP) and the Treatment System Definition Report (TSDR) published by the Waste Compliance Programs.
- In the case where the waste stream or some portion of the waste stream requires treatment to change to the final waste form, the volume of waste resulting from the treatment of the original waste stream is included in the final waste form volume of the resulting waste stream. For example, the volume of waste resulting from treatment of Incinerator Ash is included in the final waste form volumes of the resulting waste stream, Solidified Process Solids.
- Volume increases due to repackaging waste that exceed the current decay heat limit when no other treatment is required were not included.
- To remain consistent with the volumes reported in the other RFETS publications, 0.21 m^3 was used as the container volume of a standard DOT-17C 55-gallon drum. The volume used for other containers was as specified on the data forms.
- Waste in boxes other than standard waste boxes (SWB) are assumed to be repackaged into SWBs, such that the waste from one 4'x4'x7' box is repacked into two SWBs. Therefore, the final waste form volumes for SWBs include the projected volume increase resulting from such repackaging activities.

- The values for the Typical Waste Material Weights for Final Waste Form data for the TRU waste streams are the same as the corresponding TRU mixed waste streams.
- The waste generation rates for each waste form were prorated based on the fraction represented by the waste form on a Waste and Environmental Management System (WEMS) generation report showing actual generation.

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W092	Handling: CH	NMVP #: N/A	Stream Name: PCB Solids-Compatibles/TRM			Inventory Date:	10/20/94
Local ID: 0831	Type: MTRU	Generator Site: RF	Final Waste Form: Inorganic Non-Metal			Waste Matrix Code:	S5330

AS-GENERATED EPA CODES

F005, F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	Yes
Source:	Spill Clean-ups/Emergency Response Actions

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-241	5.17E+00
Pu-240	2.17E-01
Pu-239	9.49E-01
Am-241	7.34E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.83	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	These dry combustibles are likely personal protective equipment (PPE), wipes, and rags from cleanup operations.
WASTE STREAM SOURCE	IDC 831 PCB solids were generated in Building 771 in 1988. These dry combustibles are likely personal protective equipment (PPE), wipes, and rags from cleanup operations.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	These containers were assigned EPA codes F001, F002, and F005 by the generator based on process knowledge.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

RL Hanford (Richland) Site

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HANFORD SITE

Location and Description

The Hanford Site (RL) is located north of the Tri Cities, Washington (Richland, Kennewick, and Pasco), on a 1450 square kilometer area of semiarid land within the Columbia River Basin in the southeastern corner of Washington State. Normal Columbia River elevations range from 119 meters, where the Columbia River enters RL near the Priest Rapids Dam, to 104 meters where it leaves the RL near the 300 area.

Activities at RL are centralized in numerically designated areas. The reactor facilities are located along the Columbia River in what is known as the 100-Area. The reactor fuel processing and waste management facilities are in the 200-Area. The 300-Area, located adjacent to, and north of, Richland, contains the reactor fuel manufacturing facilities and the research and development laboratories. The 400-Area, five miles northwest of the 300-Area, contains the Fast Flux Test Facility, a sodium-cooled fast breeder reactor. The 600-Area covers all locations not specifically given an area designation. Adjacent to, and north of, Richland, the 1100-Area contains facilities associated with administration, maintenance, transportation, and materials procurement and distribution. The 3000-Area, contains engineering and administrative offices. Administrative buildings, including the Federal Building, are located in the 700-Area, which is in downtown Richland.

RL is administered by the DOE Richland Operations Office. The current Management and Operating Contractor is Westinghouse Hanford Company.

Mission

The Hanford Site was acquired by the Federal Government in 1943 for the construction and operation of facilities to produce plutonium for the atomic weapons program during World War II. For more than 30 years, Hanford Site facilities were primarily dedicated to the production of plutonium for national defense and management of the wastes generated by chemical processing operations. In later years, programs at the Hanford Site became increasingly diverse, involving research and development for advanced reactors, renewable energy technologies, waste disposal technologies, and cleanup of contamination from past practices. The DOE has ended the production mission at the Hanford Site and is currently reorienting activities toward management of its wastes cleanup of the site. The mission now is one of environmental management, demonstration and application of advanced remediation technologies, and restoration of the Hanford Site.

During the wartime Manhattan Project, the town of Richland, Washington, was wholly-owned and controlled by the Government.

Waste Information

Processes

Retrievably stored, CH TRU waste has been received from 55 generating areas, buildings, and offsite facilities.

The Plutonium Finishing Plant (PFP) (Z Plant) is one of Hanford's waste generators and is the major source of CH TRU solid waste by volume (approximately 53.6%) The PFP where the Pu Reclamation Facility, Pu conversion, product handling, decontamination and decommissioning, analytical and chemical technology laboratories are located. Waste common to all of these are: surgical gloves, paper, glass, glovebox gloves, metal tools and equipment. -d HEPA filters.

At the Pu Reclamation Facility, Pu was reclaimed from scrap solutions and solids. The scrap was treated in various ways to produce soluble and/or leachable forms of Pu for recovery. Waste generated included acid-soaked rags, liquid organics, and sludges.

Pu Conversion takes place at the Remote Mechanical C Line (RMC Line) where the Pu conversion processes received Pu nitrate as feed and converted it to either Pu oxide or metal. Waste generated included sludges, hydraulic oils, and acid-soaked rags.

Product handling includes receipt, shipment, repackaging, and nondestructive assay of special nuclear materials. Waste generated included damp rags, leather gloves, and empty metal cans used for shipping.

Decontamination and Decommissioning removed selected PFP facilities such as process gloveboxes and associated systems, ventilation systems, vacuum systems, and drain systems and dispose of them. Waste generated included damp rags, and building rubble (e.g., concrete, steel, wool, etc.).

Analytical and Chemical Technology Laboratories provide laboratory services to other PFP operations. Waste generated here included liquid organics, sludges, damp rags, and empty metal cans for shipping.

Another waste generator at Hanford was the Plutonium Uranium Extraction (PUREX) Plant. Products from this plant were weapons-grade plutonium, fuel-grade plutonium, depleted uranium, slightly enriched uranium, neptunium, and thorium. The plutonium conversion, process solution sampling, laboratory analyses, plant ventilation, and facility ventilation generated waste that was common to all these PUREX operations including surgical gloves, plastic (polyvinyl chloride and polyethylene), tape, paper, glass, glovebox gloves, and metal tools and equipment.

The overall PUREX Plant process consisted of seven fundamental interfacing processing units: feed preparation; solvent extraction, separation, and purification;
solvent recovery and treatment for recycling; backcycle waste system; acid recovery; waste treatment; offgas treatment; and conversion of plutonium nitrate to plutonium oxide.

Pu conversion operations received Pu nitrate as feed and converted the Pu to Pu oxide. Wastes generated were old and failed equipment, port covers, replaced windows, brackets and hardware, and acid-soaked rags.

Process solution sampling operations extract liquid samples from process control points to be used in system analysis and control. After use, all liquids are drained to the PUREX liquid waste system. Waste generated at this facility included broken glassware and plasticware, wet rags and paper, and piping and valving equipment.

Laboratory Analysis Operations were performed on liquid process samples used for system analysis and control. After use, all liquids were drained to the PUREX liquid waste system. Waste generated were broken glassware and plasticware, and wet rags and paper.

During Plant ventilation operations, air from contaminated areas was exhausted through HEPA filters to remove airborne contamination. TRU waste generated during these operations include contaminated HEPA filters. All HEPA filters are packaged as uncertified waste as there is no current technology available at PUREX to determine which HEPA filters meet the WIPP Waste Acceptance Criteria.

Facility Modification Operations were performed to improve overall plant performance. Modifications included the disposal of outdated and damaged equipment. Waste generated included tanks, process equipment and gloveboxes, and building materials.

Modifications/Assumptions/Development

New radionuclide data were submitted two days prior to going to print. The data were not reviewed by the technical team.

APPROACH

The approach used in preparing the RL waste stream profiles is as follows:

- Waste is divided between "past practice waste" (1970 through 1986) and currently-generated waste (1987 through 2028). Currently-generated waste includes projected waste generation.
- Past practice waste is grouped by generators, whereas currently-generated waste is grouped by waste matrix. The reasons for grouping the data in this manner are as follows: 1) the interim storage practice was changed from below ground surface (trenches) to above surface (storage buildings) in the 1986/1987 time period; 2) the By-Product Rule was issued by DOE on May 1, 1987, which compelled the hazardous components of TRU waste to be regulated by EPA under RCRA; 3) more detailed matrix information per container has been collected from the generator since 1987, and stored in the site's record waste tracking system; and 4) starting approximately 1986, waste generators began packaging the waste in accordance with the WIPP Waste Acceptance Criteria, thus reducing the need for additional waste processing prior to shipping to WIPP.
- Currently-generated waste streams were identified by reviewing each container record in the site's solid waste tracking system. Groups of containers that have similar physical characteristics and chemical contaminants (mixed only) were placed into a treatability group waste stream. The waste was then separated into drums, boxes, and RH canisters.

ASSUMPTIONS

The following assumptions were made by the site in repackaging the waste into the final waste form:

1. General

   A. A portion of the thermocouple assemblies, transfer pumps, mixing pumps, and other equipment in the single-shell and double-shell tanks will be removed, size-reduced, decontaminated, and assayed. Assay information will be used to designate the waste packages as low-level waste or TRU waste. The projection is that 10% of the equipment will be designated as RH-TRU, mixed waste and 90% will be designated as remote-handled, low level mixed waste. (WHC-EP 0768, Solid Waste 30-Year Volume Summary, p. 4-6, Table 4-1)

   B. TRU waste forecast volume data has been provided from the following off-site waste generators: AL, AE, BCL, LB, LL, and Santa Susana Field Laboratory (Rockwell, Canoga Park). The assumption is that TRU waste from these off-site waste generators will be received at RL for treatment in the Waste Receiving and Processing Facility (WRAP) and shipment to WIPP. (WHC-EP-0768, Solid Waste 30-Year Volume Summary)

   C. PUREX transition activities will generate 117 m^3 of CH-TRU and mixed TRU waste. The PUREX facility is currently undergoing transition activities towards decontamination and decommissioning. The facility transition activities at PUREX will provide a model for the subsequent transition of other canyon-type facilities in the future. Waste generation estimates from PUREX and other canyon type facilities have been included in the forecast. (WHC-EP-0768, Solid Waste 30-Year Volume Summary)

   D. Approximately 140 m^3 of spent research reactor fuel stored in trenches with the TRU waste is managed as TRU waste. Future evaluations may determine that this waste should be managed by the National Spent Fuel Program. (WHC-SD-SNF-TI-001, Revision 0)

2. Retrieval of Stored TRU Waste

   A. Stored TRU waste consists of existing TRU waste generated since May 1970 through December 1993. This waste does not include waste, originally designated as TRU waste, that has been assayed and redesignated as low-level waste during the calendar years (CY) 1986 to 1993.

   B. CH-TRU Waste

      - Of the TRU waste stored from May 1970 to December 1985 that has not been assayed and redesignated as low-level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. (WHC-EP-0225, Revision 1, Table 4-26)

- Waste is drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging the waste will result in a 35% increase in the volume of TRU-certified waste in drums. (WHC-SD-W026-SDRD-001, Revision 3)

- Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected.

- The site's solid waste tracking system does not distinguish between specific types of metals. If lead is present, then "other metals" is assumed to represent 100% of the metals in the container. Otherwise, iron-based metals is assumed to be 80% and aluminum-based metal is assumed to be 20% of the metal (reference: WHC-EP-225 Rev 1, TRU Waste Characterization Based on Current Records).

C. RH-TRU Waste

- No volume reduction is projected due to size reduction for transport in RH canisters.

3. Newly-generated TRU waste

A. This waste will be generated during the fiscal years 1994 through 2013.

B. CH-TRU Waste

- One hundred percent of the waste in drums will be managed as TRU waste with 10% considered noncertifiable and requiring treatment.

- All boxed waste (except waste in SWBs) will require size reduction in the WRAP facility.

C. RH-TRU Waste

- Newly-generated RH-TRU waste will be stored in shielded drums pending repackaging in RH-canisters in the WRAP facility.

- RH-TRU waste retrieved from the 618-11 burial ground will include some soil surrounding breached containers. It is assumed that this soil will increase the waste volume to be retrieved by 25%. No volume reduction is projected for treatment in the WRAP facility.

- A portion of the single-shell and double-shell tank equipment will be size-reduced and decontaminated, assayed, and shipped to WIPP as RH-TRU waste. The assumption is the 90% of the equipment will be classified as remote-handled, low level mixed waste and 10% will be RH-TRU, mixed waste.

- Most of the waste generated between 1987 and 1993 is debris waste. As such, projected RH-TRU waste is assumed to be debris waste.

- The mixed waste contaminants and radionuclide composition of projected RH-TRU waste are unknown.

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Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RL-W284	Handling: CH	NMVP #: N/A	Stream Name: 201C Unk form CH RCRA MTRU w/ met		Inventory Date: 12/1/94
Local ID:	Type: MTRU	Generator Site: RL	Final Waste Form: Unknown		Waste Matrix Code: U9999

AS-GENERATED EPA CODES

D010, D008, D007

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	41.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	3.1	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	17.2	0.0	0.0
Rubber:	4.5	0.0	0.0
Plastics:	30.2	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	2.47E+00
Pu-241	8.00E-02
Pu-240	0.00E+00
Pu-239	1.00E-02
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.42	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS PLASTIC/POLYURETHANE, STAINLESS STEEL, PAPER/CARDBOARD, RUBBER, LEAD, CLOTH/RAGS/NYLON.
WASTE STREAM SOURCE	This stream is unknown waste form contact handled RCRA regulated mixed TRU waste with metal contaminants from the Demolition of the Semi-works facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W327	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Uncat met debris CH RC/TS MTRU w/ met(Hg)
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal

Inventory Date: 12/1/94

Waste Matrix Code: S5400

AS-GENERATED EPA CODES

D009, D008, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	198.1	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	21.7	0.0	0.0
Other Inorganic Material:	16.7	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	3.3	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	15.9	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	Yes
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	66.6	79.9	133.2	106.6	66.6	452.9
Totals	66.61	79.9	133.2	106.6	66.6	452.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	66.2	22.7	37.8	30.2	18.9	175.8
Totals	66.2	22.7	37.8	30.2	18.9	175.8

As-Generated Form: Stored: 66.6 Projected: 386.3 Total: 452.9

Final Waste Form: Stored: 66.2 Projected: 109.6 Total: 175.8

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS METAL/IRON/GALVANIZED/SHEET, PLASTIC/POLYURETHANE, WOOD/LUMBER/PLYWOOD, LEAD, CONCRETE, GLASS, CLOTH/RAGS/NYLON, OILS, PAPER/CARDBOARD.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled RCRA/TSCA (PCB) reg. mixed TRU waste with metal (Hg) contaminants from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RL-W328	Handling: CH	NMVP #: N/A	Stream Name: 2345Z Pb/Cd debris CH RC/TS MTRU w/ met(Hg)		Inventory Date: 12/1/94
Local ID:	Type: MTRU	Generator Site: RL	Final Waste Form: Lead/Cadmium Metal Waste		Waste Matrix Code: S5300

AS-GENERATED EPA CODES

D009, D008, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	58.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	228.2	0.0	0.0
Other Inorganic Material:	2.8	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	38.9	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	Yes
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	3.2	0.0	0.0	0.0	0.0	3.2
Totals	3.17	0.0	0.0	0.0	0.0	3.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8
Totals	3.8	0.0	0.0	0.0	0.0	3.8

As-Generated Form: Stored: 3.2 Projected: 0.0 Total: 3.2

Final Waste Form: Stored: 3.8 Projected: 0.0 Total: 3.8

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS PLASTIC/POLYURETHANE, LEAD, METAL/IRON/GALVANIZED/SHEET, GLASS.
WASTE STREAM SOURCE	This stream is lead cadmium metal contact handled RCRA/TSCA (PCB) reg. mixed TRU waste with metal (Hg) contaminants from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

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Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W329	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Solidif org CH RC/TS MTRU w/ ign
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Solidified Organics

Inventory Date: 12/1/94

Waste Matrix Code: U9999

AS-GENERATED EPA CODES

D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.2	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	84.2	0.0	0.0
Rubber:	4.7	0.0	0.0
Plastics:	71.3	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	Yes
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	1.7	2.1	2.5	2.1	10.5
Totals	2.10	1.7	2.1	2.5	2.1	10.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	1.7	2.1	2.5	2.1	10.4
Totals	2.1	1.7	2.1	2.5	2.1	10.4

As-Generated Form: Stored: 2.1 Projected: 8.4 Total: 10.5

Final Waste Form: Stored: 2.1 Projected: 8.3 Total: 10.4

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS PLASTIC/POLYURETHANE, ORGANICS, CLOTH/RAGS/NYLON, RUBBER, METAL/IRON/GALVANIZED/SHEET.
WASTE STREAM SOURCE	This stream is solidified organics contact handled RCRA/TSCA (PCB) reg. mixed TRU waste with ignitable contaminants from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W332	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Unk form CH St MTRU
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Unknown

Inventory Date: 12/1/94

Waste Matrix Code: U9999

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	0.00E+00

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WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.23	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste , such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	This stream is unknown waste form contact handled State regulated mixed TRU waste from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

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Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W333	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Solidif org debris CH TSCA MTRU
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Solidified Organics

Inventory Date: 12/1/94

Waste Matrix Code: S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	56.3	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	4.8	0.0	0.0
Rubber:	1.3	0.0	0.0
Plastics:	61.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	29.8	0.0	0.0
Packaging Material Steel:	1.6		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: Yes

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	4.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.3	1.0	1.0	0.4	0.0	3.8
Totals	1.26	1.0	1.0	0.4	0.0	3.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.2	1.0	1.0	0.4	0.0	3.7
Totals	1.2	1.0	1.0	0.4	0.0	3.7

As-Generated Form: Stored: 1.3 Projected: 2.5 Total: 3.8

Final Waste Form: Stored: 1.2 Projected: 2.5 Total: 3.7

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS ABSORBENT/KITY LTR/VERMICULITE, PLASTIC/POLYURETHANE, CONWEB PADS, OILS, CLOTH/RAGS/NYLON, DIRT/SOIL/DIATOMACEOUS EARTH, RUBBER, PCB.
WASTE STREAM SOURCE	This stream is solidified organics contact handled TSCA (PCB) regulated mixed TRU waste from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RL-W334	Handling: CH	NMVP #: N/A	Stream Name: 2345Z Uncat mt debris CH TSCA MTRU		Inventory Date: 12/1/94
Local ID:	Type: MTRU	Generator Site: RL	Final Waste Form: Uncategorized Metal		Waste Matrix Code: S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	261 9	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0 0	0 0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	76 2	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0 0	0.0	0.0
Packaging Material Steel:	9.5		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	Yes
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.21	0 0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS METAL/IRON/GALVANIZED/SHEET, PLASTIC/POLYURETHANE, CONWEB PADS, DIRT/SOIL/DIATOMACEOUS EARTH.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled TSCA (PCB) regulated mixed TRU waste from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

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Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W357	Handling:	CH	NMVP #:	N/A	Stream Name:	KAPL Unk form CH/r TRU
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Unknown

Inventory Date: 12/1/94

Waste Matrix Code: U9999

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Am-241	0.00E+00
Pu-241	0.00E+00
Pu-240	0.00E+00
Pu-239	0.00E+00
Beta/Gamma	7.81E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.21	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS CHEMICALS.
WASTE STREAM SOURCE	This stream is unknown waste form contact handled packaged remote non-mixed TRU waste from the Knolls Atomic Power Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RL-W366 | Handling: CH | NMVP #: N/A | Stream Name: 202A Unk form CH TRU | Inventory Date: 12/1/94

Local ID: | Type: TRU | Generator Site: RL | Final Waste Form: Unknown | Waste Matrix Code: U9999

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	1.00E-02
Pu-241	4.05E+01
Pu-240	1.32E+00
Pu-239	5.70E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.5	0.8	0.0	0.0	0.0	2.3
Totals	1.47	0.8	0.0	0.0	0.0	2.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.5	0.8	0.0	0.0	0.0	2.3
Totals	1.5	0.8	0.0	0.0	0.0	2.3

As-Generated Form: Stored: 1.5 Projected: 0.8 Total: 2.3

Final Waste Form: Stored: 1.5 Projected: 0.8 Total: 2.3

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS MISCELLANEOUS/UNKNOWN/OTHER.
WASTE STREAM SOURCE	This stream is unknown waste form contact handled non-mixed TRU waste from the Fuel Reprocessing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W382	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Unk form CH TRU
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Unknown

Inventory Date: 12/1/94

Waste Matrix Code: U9999

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	9.00E-02
Pu-241	2.11E+01
Pu-240	7.60E-01
Pu-239	3.37E+00
Beta/Gamma	1.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	18.7	11.9	16.7	18.3	14.6	80.2
Totals	18.74	11.9	16.7	18.3	14.6	80.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	18.7	11.9	16.6	18.3	14.6	80.1
Totals	18.7	11.9	16.6	18.3	14.6	80.1

As-Generated Form: Stored: 18.7 Projected: 61.4 Total: 80.2

Final Waste Form: Stored: 18.7 Projected: 61.4 Total: 80.1

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS MISCELLANEOUS/UNKNOWN/OTHER.
WASTE STREAM SOURCE	This stream is unknown waste form contact handled non-mixed TRU waste from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W391	Handling:	CH	NMVP #:	N/A	Stream Name:	308 Comb unk form CH TRU
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Unknown

Inventory Date: 12/1/94

Waste Matrix Code: U9999

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	76.4	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	120.1	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	2.50E-01
Pu-241	2.20E+01
Pu-240	9.00E-01
Pu-239	3.56E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.42	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS ORGANICS, METAL/IRON/GALVANIZED/SHEET.
WASTE STREAM SOURCE	This stream is combustible contact handled non-mixed TRU waste from the Fuels Development Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RL-Z001	Handling: U	NMVP #: N/A	Stream Name: Hanford Buried TRU Waste		Inventory Date:
Local ID:	Type: TRU	Generator Site:	Final Waste Form: Unknown		Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

		TRUCON CODE	FINAL FORM RADIONUCLIDES
Category:	Defense TRU Waste	N/A	N/A
Residues:			
Asbestos:			
PCBs:			
Source:			

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Not contained	63629.0	0.0	0.0	0.0	0.0	63629.0
Totals	63629.00	0.0	0.0	0.0	0.0	63629.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 63629.0 Projected: 0.0 Total: 63629.0

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	N/A
WASTE STREAM SOURCE	A total of approximately 63,629 m3 of TRU-contaminated waste is buried at the Hanford Site. It is anticipated that upon retrieval of this waste, a significant amount of the soil will become contaminated and will thereby increase the volume of waste. The estimated waste and associated contaminated soil volume is 109,000 m3. As of December 31, 1993, the decayed radioactivity from the TRU radionuclides associated with this volume of buried waste is estimated to be 93,800 Curies and the total decayed radioactivity from all radionuclides is estimated to be 173,410 Curies. This waste will not go to WIPP.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

SA Sandia National Laboratories/New Mexico

SANDIA NATIONAL LABORATORIES

Location and Description

Sandia National Laboratories/New Mexico (SNL/NM) is located immediately southeast of Albuquerque, New Mexico, on Kirtland Air Force Base. The SNL/NM consists not only of the headquarters facilities in Albuquerque, New Mexico, but also the laboratory facility in Livermore, California, the Tonopah Test Range in Nevada, and occupies about 7,600 acres (not including Tonopah Test Range).

Prior to the Trinity shot in 1945, the Manhattan project had a small facility on Sandia Base (now Kirtland AFB) to perform ordnance engineering, nonnuclear atomic bomb assembly and military training. In March 1948, the Sandia Laboratory was established as a formal branch of the Los Alamos Scientific Laboratory (LASL) now LA. In 1949, Sandia Corporation was organized as a wholly-owned subsidiary of the Western Electric Company, and approximately 1,700 LASL employees were transferred. In 1984, Sandia Corporation became a wholly-owned subsidiary of the AT&T Technologies Corporation.

SNL/NM is administered by the DOE/Albuquerque Operations Office and is currently operated by the Lockheed Martin Corporation.

Mission

SNL/NM's mission was research, development, and engineering of nuclear weapons systems except for the nuclear explosive. This included nuclear weapons systems ordnance engineering, nonnuclear component design and development, field and laboratory testing, and manufacturing engineering.

SNL/NM has operated the Tonopah Test Range near Tonopah, Nevada, since the range was established in 1957. The site is located about 322 kilometers northwest of Las Vegas, Nevada, on 1360 squire kilometers of land provided by the Air Force in accordance with a use permit. Tonopah Test Range is a major facility for the field testing of nonnuclear and denuclearized weapons, research rockets, and artillery. Aerodynamic stability, the compatibility of various ballistic shapes, trajectories, times of fall, accuracy of delivery, and functioning of fuzing components are tested under conditions simulating actual use. Certain types of high explosive ordnance are also tested at the test range.

Waste Information

Processes

One of SNL/NM's generators is the Inhalation Toxicology Research Institute (IT). Since 1960, ITRI has performed a variety of research programs for the DOE. The original research was dedicated to the evaluation of health effects caused by inhalation of fission products. Research is now conducted on the health effects of transuranic elements such as plutonium, americium, curium, and nonradioactive airborne materials in various environments.

Modifications/Assumptions/Development

Waste streams that are expected to be directly shipped to WIPP (upon WIPP-WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double- counting these streams as both "as generated currently stored" and "final form projected."

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: SA-Z001	Handling: U	NMVP #: N/A	Stream Name: Sandia National Laboratory/NM Buried TRU Waste		Inventory Date:
Local ID:	Type: TRU	Generator Site:	Final Waste Form: Unknown		Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

		TRUCON CODE	FINAL FORM RADIONUCLIDES
Category:	Defense TRU Waste	N/A	N/A
Residues:			
Asbestos:			
PCBs:			
Source:			

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Not contained	1.3	0.0	0.0	0.0	0.0	1.3
Totals	1.33	0.0	0.0	0.0	0.0	1.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 1.3 Projected: 0.0 Total: 1.3

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	N/A
WASTE STREAM SOURCE	A total of approximately 1.33 m3 of TRU-contaminated waste is buried at the Sandia National Laboratory/New Mexico site. Radioactivity information is not available. This waste will not go to WIPP.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

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SAVANNAH RIVER SITE

Location and Description

The Savannah River Site (SRS) is located about 31 kilometers southeast of Aiken, South Carolina, on 198,334 acres (803 square kilometers) along the Savannah River. The SRS encompasses parts of three counties, Aiken, Barnwell, and Allendale in western South Carolina. The closest major cities are Aiken, South Carolina, and Augusta, Georgia. The site is a controlled area with limited public access. The facilities occupy less than 8 percent of the site. The remaining 92 percent is divided into forest (80%) and wetlands (20%).

The Savannah River Site is a government owned, contractor operated (GOCO) site that is managed by the DOE Savannah River Operations Office. The current Management and Operating Contractor for the Site is Westinghouse Savannah River Company.

Mission

The primary mission of the SRS has been to support national security as a major source of reactor-produced materials, primarily tritium, plutonium, heavy water (deuterium) and other special nuclear materials for weapons manufacturing. The mission was broadened over the years to include the production of other isotopes, such as Pu-238. SRS's production activities also included the loading of tritium containers for the nuclear weapons, reclamation of tritium containers and the purification of tritium recovered from retired weapons.

The decision in 1950 to go ahead with the Savannah River Plant was driven by the perceived need for tritium in the fusion weapon program following President Truman's directive of January 31, 1950, to develop a thermonuclear weapon (the "super"). While production of tritium in the Hanford reactor had been demonstrated, the new plant at Savannah River was necessary to avoid serious curtailment in the production of plutonium at Hanford for the fission program. If thermonuclear weapons proved unfeasible or tritium requirements turned out to be less than anticipated, the construction of Savannah River was further justified in order to increase plutonium production, to provide a higher efficiency in the use of uranium ore, to provide security against attack of the Hanford reactors, and to provide replacement reactors in the event of the retirement of older Hanford reactors.

Five reactors (currently shut down), two chemical processing plants, a tritium extraction, purification, and loading facility, and a high-level waste solidification facility comprise the major elements of the Defense Program operations and facilities at SRS.

The SRS waste management mission is to comply with applicable federal and state regulations, DOE Orders, and the Management and Operating Contractor policies, to minimize effects on the environment and the generation of new waste, and to the extent possible, contain waste handling, treatment, storage, and disposal within the site. Other mission objectives include the demonstration and application of remediation technologies and the environmental restoration of the SRS site. With the changing defense posture, environmental restoration is receiving increased emphasis versus weapons materials production.

Waste Information

Processes

At SRS, production of useful radioactive isotopes is accompanied by production of radioactive waste. These wastes must be safely contained and stored until the risk associated with their radioactivity is eliminated by decay or the waste is permanently disposed. In both production and power nuclear reactors, neutrons strike uranium-235 atoms in the reactor fuel, add energy and cause the atoms to become unstable and split apart or "fission." This results in the production of fission products and more neutrons, initiating a sustained chain reaction and a steady supply of neutrons. In addition to fuel, the SRS reactors contained long cylinders of material called targets. When neutrons strike the targets, useful radionuclides are created through transmutation. The fuel and target assemblies are then removed from the reactor and, after a suitable cooling period, are sent to the chemical separation areas for processing to recover the desired radionuclides (uranium, plutonium, tritium, etc).

Currently, TRU waste at SRS is generated primarily from radiochemical separations processes, analytical laboratories, and research and development activities. Primary contaminants in the waste are Pu-238 and Pu-239. The major on-site facilities that generate TRU waste are the FB-Line, the HB Line, 235-F, 772-F, and 773-A.

FB-Line and HB-Line generate TRU waste containing plutonium and neptunium. The waste is generated during the use of gloveboxes, contamination control huts, and decontamination processes waste. TRU waste is placed in 5-gallon cans, assayed, sealed in a drum liner, and placed in 55-gallon drums before transport to the waste TRU storage facility.

In the HB Separation Line, uranium, neptunium (Np) and plutonium (Pu) are recovered from irradiated enriched uranium fuels and transferred to the HB line for processing. The HB line uses three independent facilities to process Np, Pu, and recoverable scrap. TRU waste, containing Pu-238, is generated during decontamination operations, replacement of equipment, maintenance, inspection, and sampling.

In the FB Separation Line, irradiated metal alloys from the reactors are dissolved and separated into uranium, Pu metal, and high-level liquid waste using the Purex process. Uranium and plutonium are recovered and TRU waste, containing Pu-239 is generated during decontamination operations, maintenance, inspection, replacement of equipment, sampling and laboratory analysis.

The 235-F facility generates TRU waste from three waste streams, the Actinide Billet Line, the Plutonium Experimental Facility, and Plutonium Fuel Fabrication. The three streams yield neptunium and plutonium isotopes. Waste materials consist of lead-lined gloves, neoprene gloves, process waste, equipment, and filters.

The 772-F TRU waste generated in the Central Laboratory Facility results from the handling and analysis of various plutonium and neptunium samples. The routine laboratory TRU solid waste consists of paper, plastic, glass, metal, lead-lined gloves, HEPA filters, and IX resins.

The 773-A, the Savannah River Technology Center (SRTC) Solid Waste Assay Facility (SWAF) receives boxes of waste from other laboratories within the SRTC complex. The SWAF processes includes x-raying, weighing, and assaying the boxes. After processing, the waste boxes are placed in drums before shipping to the site waste disposal facility.

Solid TRU waste, such as processing equipment, glassware, and gloveboxes too large for 55-gallon drums are packaged and stored in large steel or concrete containers. The separation areas produce most of the solid TRU waste.

Off-site generators that have sent TRU waste to SRS are Los Alamos National Laboratory, Mound Laboratory, Allied-General Nuclear Services, National Institute of Standards Technology, General Sciences, Department of Defense, and Knolls Atomic Power Laboratory.

Modifications/Assumptions/Development

Savannah River's Vitrified waste stream Waste Material Parameters were recalculated by the TWBIR team to provide closure approximations to the 1000 lbs per 55 gallon drum weight limits required by the TRUPACT-II Safety Analysis Report for Packaging (SARP). In recalculating these parameters the volumes and number of final form containers were increased. This increase may hinder SRS's cost effectiveness for shipment to WIPP.

The composition of SRS final waste forms was determined using acceptable knowledge (Processing knowledge) and existing waste form research work performed by Savannah River Technical Center (SRTC).

A combination of waste descriptions, waste codes, and acceptable knowledge were used to determine the general waste types stored at SRS. This includes only the waste types affecting the final waste forms.

Waste stream volumes for SR-T001, SR-W006, SR-W026, SR-W027, and SR-W053 were separated and reported by generator and waste types.

Waste, which is classified because of shape, was identified and reported separately by SRS. The shape of this waste is expected to be destroyed during waste processing. Other classified waste was not reported by SRS because of the contents of the waste.

Waste volumes and number of containers to be shipped to WIPP were based on the type of disposal container used, the size reduction factors after waste processing, and the volume of waste to be processed. The volume of waste to be processed was based on TRU waste volumes as of 12/31/94 and waste forecasts contained in the Proposed Site Treatment Plan (PSTP) and the Waste Management Environment Impact Statement (WMEIS). These forecasts include TRU waste from operational, D&D, and ER activities.

Most of SRS's metal waste is currently packaged in large steel boxes. The waste in these steel boxes is (assumed by the site to be) 80% bulk metal and 20% heterogeneous debris. The size reduction factor for large metal components is 3.5 to 1.

No volume reduction is expected from the repackaging of heterogeneous waste streams.

The preferred technology for treating SRS TRU waste is solidification by vitrification (i.e., Hybrid Plasma Treatment). The process design provides sufficient mixing controls to ensure WIPP WAC compliance. The assumed volume reduction factor using this technology is 30 to 1. This factor applies to waste streams SR-W026, SR-W027, SR- T001, SR-T003. SR-W053, and SR-W006.

Waste streams that are expected to be directly shipped to WIPP (upon WIPP-WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double- counting these streams as both "as generated currently stored" and "final form projected."

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: SR-Z001	Handling: U	NMVP #: N/A	Stream Name: Savannah River Buried TRU Waste		Inventory Date:
Local ID:	Type: TRU	Generator Site:	Final Waste Form: Unknown		Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues:

Asbestos:

PCBs:

Source:

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Not contained	4874.0	0.0	0.0	0.0	0.0	4874.0
Totals	4874.00	0.0	0.0	0.0	0.0	4874.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 4874.0 Projected: 0.0 Total: 4874.0

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	N/A
WASTE STREAM SOURCE	A total of approximately 4,874 m3 of TRU-contaminated waste is buried at the Savannah River Site. This volume of waste was buried at the site from 1952 through 1974. As of December 31, 1993, the decayed radioactivity from the TRU radionuclides associated with this volume of buried waste is estimated to be 30,500 Curies. Information on non-TRU radionuclides is not available. This waste will not go to WIPP.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

WV West Valley Demonstration Project

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WEST VALLEY DEMONSTRATION PROJECT

Location and Description

The West Valley Demonstration Project (WV) is located at the site of the only commercial nuclear fuel reprocessing plant to have operated in the United States. WV facilities occupy approximately 0.8 km^2 of the 13.5 km^2 Western New York Nuclear Services Center (WNYNSC) in West Valley, New York. The site includes the only commercial nuclear reprocessing plant operated from 1966 to 1972 under a long-term lease from the New York State Energy Research and Development Authority (NYSERDA). In 1976, the plant operator notified NYSERDA of its intention to cease operations.

In 1980, the West Valley Demonstration Project Act (Act) authorized DOE to conduct a high-level radioactive waste (HLW) management demonstration project at the WNYNSC. WV was established to demonstrate that liquid waste from the reprocessing of spent nuclear fuel can be managed safely in the United States. DOE, with its contractor West Valley Nuclear Services, Inc., assumed operational control of the site in 1982. WV is jointly funded by DOE and NYSERDA. Upon completion of the project, DOE will leave the premises.

Mission

The primary mission at WV is to pretreat, remove, solidify, and temporarily store HLW. The following activities comprise the project: 1) solidify the liquid HLW; 2) develop containers suitable for permanent disposal of solidified HLW; 3) transport solidified waste to a Federal repository; 4) dispose of low-level and TRU waste generated during the solidification process; and 5) decontaminate and decommission facilities used in HLW treatment.

Waste Information

Processes

The only operations waste at WV is that associated with preparations for the solidification of HLW. Mixed TRU waste stream sources are routine laboratory analyses performed in conjunction with the treatment of HLW, and the maintenance and repair of facilities and equipment.

Modifications/Assumptions/Development

Waste streams that are expected to be directly shipped to WIPP (upon WIPP–WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double– counting these streams as both "as generated currently stored" and "final form projected."

No RH-TRU Canisters currently exist at WV. The assumption is that all RH-TRU currently stored waste will be repackaged into an RH Canister at a later date.

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	WV-M005	Handling:	RH	NMVP #:	N/A	Stream Name:	TRU Filters
Local ID:	N/A	Type:	TRU	Generator Site:		Final Waste Form:	Filter

Inventory Date:

Waste Matrix Code: S5410

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	351.2		
Packaging Material Plastic:	0.4		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Commercial TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
60 cubic ft. lead shielded box	23.8	30.6	32.3	0.0	0.0	86.7
70 cubic ft. Type A waste box	19.8	13.9	15.8	0.0	0.0	49.5
90 cubic ft. waste box	5.0	0.0	0.0	0.0	0.0	5.0
Totals	48.6	44.5	48.1	0.0	0.0	141.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	49.0	0.0	17.8	0.0	0.0	66.8
Standard Waste Box	0.0	13.2	15.1	0.0	0.0	28.3
Totals	49.0	13.2	32.9	0.0	0.0	95.1

As-Generated Form: Stored: 48.6 Projected: 92.6 Total: 141.2

Final Waste Form: Stored: 49.0 Projected: 46.1 Total: 95.1

WASTE STREAM DESCRIPTION	This waste stream consists of filters generated from normal site operations. The specific contents include pre-filters, High Efficiency Particulate Air (HEPA) filters, and roughing filters.
WASTE STREAM SOURCE	Filters generated from changeout of various ventilation systems roughing and HEPA filters from normal site operations.
CURRENT CONTAINER COMMENTS	The lead shielding is integral with the box and does not come in contact with the waste
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	WVNS container ID numbers: 12-1513, 12-1514, TC-036, TC-042, TC-045, TC-073, TC-076, TC-086, TC-089, 1994: TC-001, TC-043, TC-117, TC-132, TC-134, TC-137, TC-139, TC-140, TC-141, TC-148, TC-152, TC-153, TC-154, TC-155, TC-156, TC-157, TC-159
ACCEPTANCE COMMENTS	None
FINAL FORM COMMENTS	No RH-TRU canisters currently exist at WV. The assumption is that all RH-TRU currently stored waste will be repackaged into RH-TRU canisters at a later date.

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	WV-M007	Handling:	CH	NMVP #:	N/A	Stream Name:	TRU General Waste
Local ID:	N/A	Type:	MTRU	Generator Site:		Final Waste Form:	Unknown

Inventory Date: 12/31/94

Waste Matrix Code: U9999

AS-GENERATED EPA CODES

unknown

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Commercial TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55-GALLON DRUM	10.1	0.0	0.0	0.0	0.0	10.1
Totals	10.1	0.0	0.0	0.0	0.0	10.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	10.0	0.0	0.0	0.0	0.0	10.0
Totals	10.0	0.0	0.0	0.0	0.0	10.0

As-Generated Form: Stored: 10.1 Projected: 0.0 Total: 10.1

Final Waste Form: Stored: 10.0 Projected: 0.0 Total: 10.0

WASTE STREAM DESCRIPTION	This waste stream consists of uncharacterized (i.e., requires hazardous characterization) general site waste generated from normal site operations. The specific contents of this waste stream are unknown.
WASTE STREAM SOURCE	General site waste requiring hazardous characterization generated from normal site operations.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Further sampling and analysis required to determine the contents of these containers, and if RCRA contaminants are present.
MANAGEMENT COMMENTS	WVNS Container ID #s for this waste stream are: 5046, 5047, 5069, 5099, 5153, 5253, 5263, 5304, 5321, 5334, 5348, 5382, 5563, 5856, 6310, TD-008, TD-017, TD-028, TD-034, TD-035, TD-036, TD-040, TD-043, TD-184, TD-240, TD-268, TD-271, TD-294, TD-304, TD-308, TD-367, TD-387, TD-389, TD-399, TD-402, TD-407, TD-546, TD-554, TD-581, TD-596, TD-606, TD-607, TD-622, TD-629, TD-634, TD-924, TD-926, TD-931.
ACCEPTANCE COMMENTS	None
FINAL FORM COMMENTS	Some volume reduction may be performed on reduce the number of shipping containers required

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Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: WV-M008	Handling: CH	NMVP #: N/A	Stream Name: TRU Concrete		Inventory Date: 12/31/94
Local ID: N/A	Type: TRU	Generator Site:	Final Waste Form: Solidified Inorganics		Waste Matrix Code: S3150

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	1.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Commercial TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	*Facility/Equipment Operation and Maintenance Waste*

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55-GALLON DRUM	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

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TWBIR ID: **WV-M008**

WASTE STREAM DESCRIPTION	This waste stream consists of samples solidified with cement generated from the on-site A&PC laboratory.
WASTE STREAM SOURCE	Concrete samples generated from the on-site Analytical & Process Chemistry (A&PC) laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	WVNS TD-076
ACCEPTANCE COMMENTS	NONE
FINAL FORM COMMENTS	N/A

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Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	WV-M010	Handling:	CH	NMVP #:	N/A	Stream Name:	TRU Spent Absorbents
Local ID:		Type:	TRU	Generator Site:		Final Waste Form:	Solidified Inorganics

Inventory Date: 12/31/94

Waste Matrix Code: S3190

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Commercial TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55-GALLON DRUM	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

WASTE STREAM DESCRIPTION	This waste stream consists of spent absorbents generated from site operations. The media absorbed is not known for this waste stream.
WASTE STREAM SOURCE	Spent absorbents generated from site operations.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	WVNS TD-707, WVNS TD-713
ACCEPTANCE COMMENTS	NONE
FINAL FORM COMMENTS	N/A

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: WV-M012	Handling: CH	NMVP #: N/A	Stream Name: Glove Boxes		Inventory Date: 12/31/94
Local ID:	Type: TRU	Generator Site:	Final Waste Form: Uncategorized Metal		Waste Matrix Code: S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	1.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Commercial TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55-GALLON DRUM	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste stream consists of a glove box and general waste generated from the laboratory on-site as a result of previous decommissioning and decontamination activities and normal site operations.
WASTE STREAM SOURCE	Glove boxes and general waste generated from previous decomissioning and decontamination activities and normal site operations.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	This waste stream is not considered mixed waste
MANAGEMENT COMMENTS	WVNS TD-551
ACCEPTANCE COMMENTS	NONE
FINAL FORM COMMENTS	N/A

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Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: WV-M013	Handling: CH	NMVP #: N/A	Stream Name: Sweeping Compound		Inventory Date: 12/31/94
Local ID:	Type: MTRU	Generator Site:	Final Waste Form: Solidified Inorganics		Waste Matrix Code: S3131

AS-GENERATED EPA CODES

D008, D007

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Commercial TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55-GALLON DRUM	1.5	0.0	0.0	0.0	0.0	1.5
Totals	1.5	0.0	0.0	0.0	0.0	1.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.5	0.0	0.0	0.0	0.0	1.5
Totals	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated Form: Stored: 1.5 Projected: 0.0 Total: 1.5

Final Waste Form: Stored: 1.5 Projected: 0.0 Total: 1.5

WASTE STREAM DESCRIPTION	This waste stream consists of sweeping compound generated from normal site operations. The specific contents include grid and floor debris This waste stream is considered as hazardous/radioactively contaminated based on the assumption that the waste contains lead and chromium contaminated paint chips.
WASTE STREAM SOURCE	Grid and floor debris generated from normal site operations.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	It is not known whether paint chips are in this waste stream. Sampling and analysis are required.
MANAGEMENT COMMENTS	WVNS TD-006, WVNS TD-009, WVNS TD-011, WVNS TD-025, WVNS TD-042, WVNS TD-048, WVNS TD-122
ACCEPTANCE COMMENTS	NONE
FINAL FORM COMMENTS	N/A

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: WV-M015	Handling: RH	NMVP #: N/A	Stream Name: Chemical Process Cell General Waste		Inventory Date: 12/31/94
Local ID: N/A	Type: TRU	Generator Site:	Final Waste Form: Heterogeneous		Waste Matrix Code: S5420

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	1.0	0.0	0.0
Other Inorganic Material:	1.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	*0.0*	*0.0*	*0.0*
Soils:	0.0	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category:	Commercial TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
370 cubic foot waste box	10.5	0.0	0.0	0.0	0.0	10.5
70 cubic ft. Type A waste box	7.9	0.0	0.0	0.0	0.0	7.9
Totals	18.4	0.0	0.0	0.0	0.0	18.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	17.8	0.0	0.0	0.0	0.0	17.8
Totals	17.8	0.0	0.0	0.0	0.0	17.8

As-Generated Form: Stored: 18.4 Projected: 0.0 Total: 18.4

Final Waste Form: Stored: 17.8 Projected: 0.0 Total: 17.8

WASTE STREAM DESCRIPTION	This waste stream was generated as a result of the decommissioning and decontamination of the Chemical Process Cell (CPC). The CPC was previously used to reprocess spent fuel rods. The specific contents of this container include vacuum lines, air lines, floor debris, pipe, & hoses.
WASTE STREAM SOURCE	Floor debris, vacuum lines, pipe, and hose generated from clean-up of the Chemical Process Cell.
CURRENT CONTAINER COMMENTS	Contains 6, 44"by 44" by 44" boxes
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	WVNS container ID's for these boxes: TC-172, TD-173, TD-174, TD-175, 3E-1/7E-5/7E-8
ACCEPTANCE COMMENTS	NONE
FINAL FORM COMMENTS	WVDP does not currently have RH canisters available. It is estimated that 20 canisters would be required to repackage this waste stream for shipment. No RH-TRU canisters currently exist at WV. The assumption is that all RH-TRU currently stored waste will be repackaged into RH-TRU canisters at a later date.

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Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: WV-T001	Handling: CH	NMVP #: N/A	Stream Name: Fissile Material - Solids		Inventory Date: 12/31/94
Local ID: N/A	Type: TRU	Generator Site:	Final Waste Form: Heterogeneous		Waste Matrix Code: S5490

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Commercial TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
U(unspec)	0.00E+00
Pu-239	0.00E+00
Pu(unspec)	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55-GALLON DRUM	3.8	0.0	0.0	0.0	0.0	3.8
Totals	3.8	0.0	0.0	0.0	0.0	3.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.7	0.0	0.0	0.0	0.0	3.7
Totals	3.7	0.0	0.0	0.0	0.0	3.7

As-Generated Form: Stored: 3.8 Projected: 0.0 Total: 3.8

Final Waste Form: Stored: 3.7 Projected: 0.0 Total: 3.7

WASTE STREAM DESCRIPTION	This waste stream consists of solid fissile material generated from previous decontamination and decommissioning activities. The specific contents include CUNO filters, vacuum cans, glove box debris, etc.
WASTE STREAM SOURCE	Solid fissile material generated from previous decontamination and decommissioning activities.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	WVNS 55-gallon drum container ID's: TD-583, TD-461, TD-507, TD-509, TD-502, TD-506, TD-505, TD-476, TD-500, TD-474, TD-471, TD-492, TD-602, TD-932, TD-715, TD-933, TD-497, TD-797
ACCEPTANCE COMMENTS	NONE
FINAL FORM COMMENTS	It estimated the 18, 55-gallon currently in storage could be consolidated into 15 drums.

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Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: WV-T002	Handling: CH	NMVP #: N/A	Stream Name: Fissile Material - Alpha Lab Liquids		Inventory Date: 12/31/94
Local ID:	Type: TRU	Generator Site:	Final Waste Form: Solidified Inorganics		Waste Matrix Code: X6900

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Commercial TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55-GALLON DRUM	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 0.6 Projected: 0.0 Total: 0.6

WASTE STREAM DESCRIPTION	This waste stream consists of liquid waste stream with associated fissile material generated from previous decontamination and decommissioning activities. The specific contents include Alpha contaminated laboratory liquids.
WASTE STREAM SOURCE	Liquid waste stream with associated fissile material generated from previous decontamination and decommissioning activities.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	This waste stream is not mixed waste
MANAGEMENT COMMENTS	WVNS TD-566, WVNS TD-560, WVNS TD-557
ACCEPTANCE COMMENTS	NONE
FINAL FORM COMMENTS	N/A

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: WV-T003	Handling: CH	NMVP #: N/A	Stream Name: Fissile Material-UNH Solution		Inventory Date: 12/31/94
Local ID: N/A	Type: TRU	Generator Site:	Final Waste Form: Solidified Inorganics		Waste Matrix Code: L1200

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Commercial TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55-GALLON DRUM	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste Stream consists of liquid waste stream with associated fissile material generated from previous decontamination and decommissioning activities. The specific contents include Uranyl Nitrate Hexahydrate (UNH) solution.
WASTE STREAM SOURCE	Uranyl Nitrate Hexahydrate solution containing fissile material generated from previous decontamination and decommissioning activities
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	It is not known whether this waste stream is acidic.
MANAGEMENT COMMENTS	WVNS TD-501
ACCEPTANCE COMMENTS	NONE
FINAL FORM COMMENTS	N/A

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Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: WV-T004	Handling: CH	NMVP #: N/A	Stream Name: Fissile Material - Other		Inventory Date: 12/31/94
Local ID:	Type: TRU	Generator Site:	Final Waste Form: Unknown		Waste Matrix Code: U9999

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	1.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Commercial TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55-GALLON DRUM	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

WASTE STREAM DESCRIPTION	This waste stream consists of liquid waste with associated fissile material generated from previous decontamination and decommissioning activities. The specific contents are unknown.
WASTE STREAM SOURCE	Fissile material generated from previous decontamination and decommissioning activities.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	the specific contents of this waste stream are unknown.
MANAGEMENT COMMENTS	WVNS TD-478, WVNS TD-640
ACCEPTANCE COMMENTS	NONE
FINAL FORM COMMENTS	N/A

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: WV-T006	Handling: CH	NMVP #: N/A	Stream Name: TRU General Waste		Inventory Date: 12/31/94
Local ID: N/A	Type: TRU	Generator Site:	Final Waste Form: Heterogeneous		Waste Matrix Code: S5490

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	1.0	0.0	0.0
Other Inorganic Material:	1.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	1.0	0.0	0.0
Plastics:	1.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	143.4		
Packaging Material Plastic:	17.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Commercial TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55-GALLON DRUM	11.3	5.7	9.4	18.9	18.9	64.3
70 cubic ft. Type A waste box	2.0	5.9	9.9	19.8	19.8	57.4
Totals	13.3	11.6	19.3	38.7	38.7	121.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	11.2	4.2	6.2	12.5	12.5	46.6
Standard Waste Box	1.9	5.7	9.4	18.9	18.9	54.8
Totals	13.1	9.8	15.7	31.4	31.4	101.4

As-Generated Form: Stored: 13.3 Projected: 108.4 Total: 121.7

Final Waste Form: Stored: 13.1 Projected: 88.3 Total: 101.4

WASTE STREAM DESCRIPTION	This waste stream consists of radiologically and hazardous general site waste generated from normal site operations. The specific contents include but are not limited to anticontamination clothing, hoses, glove bags, and tools.
WASTE STREAM SOURCE	Radiologically and hazardous general site waste generated from normal site operation.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	none
MANAGEMENT COMMENTS	WVNS 55-gallon drum Container ID #s for this waste stream are: 4581, 6224, TD-002, TD-024, TD-026, TD-027, TD-030, TD-037, TD-049, TD-058, TD-102, TD-103, TD-110, TD-113, TD-115, TD-117, TD-120, TD-132, TD-139, TD-142, TD-260, TD-305, TD-332, TD-379, TD-386, TD-395, TD-415, TD-422, TD-440, TD-441, TD-442, TD-445, TD-477, TD-522, TD-525, TD-528, TD-529, TD-531, TD-553, TD-573, TD-585, TD-587, TD-591, TD-595, TD-610, TD-632, TD-637, TD-647, TD-648, TD-649, TD-659, TD-719, TD-937. For 1994, TD-1015, TD-1034, TD-1039, TD-969 and box TC-052.
ACCEPTANCE COMMENTS	NONE
FINAL FORM COMMENTS	It is estimated that with volume reduction, 170 containers would be needed for shipment.

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Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: WV-T009 | Handling: CH | NMVP #: N/A | Stream Name: TRU General Laboratory Waste | Inventory Date: 12/31/94

Local ID: N/A | Type: TRU | Generator Site: | Final Waste Form: Heterogeneous | Waste Matrix Code: S5420

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Commercial TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Analytical Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55-GALLON DRUM	2.1	4.4	7.3	14.7	14.7	43.3
Totals	2.1	4.4	7.3	14.7	14.7	43.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	3.1	5.2	10.4	10.4	31.2
Totals	2.1	3.1	5.2	10.4	10.4	31.2

As-Generated Form: Stored: 2.1 Projected: 41.2 Total: 43.3

Final Waste Form: Stored: 2.1 Projected: 29.1 Total: 31.2

WASTE STREAM DESCRIPTION	This waste stream consists of general laboratory waste generated on-site. The specific contents include anticontamination clothing, bags, wipes, samples, etc.
WASTE STREAM SOURCE	General laboratory waste generated on-site.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	none
MANAGEMENT COMMENTS	WVNS Container ID's for these 10, 55-gallon drums; TD-026, TD-142, TD-659, TD-1009, TD-1028, TD-1029, TD-1043, TD-958, TD-963, TD-966, TD-969.
ACCEPTANCE COMMENTS	NONE
FINAL FORM COMMENTS	It is estimated that the 10 containers currently in storage and the 196 projected containers could be volume reduced down to 140, 55-gallon drums.

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: WV-T011	Handling: CH	NMVP #: N/A	Stream Name: TRU Glove Boxes		Inventory Date: 12/31/94
Local ID:	Type: TRU	Generator Site:	Final Waste Form: Uncategorized Metal		Waste Matrix Code: S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	1.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Commercial TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55-GALLON DRUM	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste stream consists of radiologically and hazardous glove boxes generated from decommissioning and decontamination activities. The specific contents include glove boxes and tools.
WASTE STREAM SOURCE	Radiologically and hazardous glove boxes generated from decomissioning and decontamination activities.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	None
MANAGEMENT COMMENTS	WVNS Container ID number is TD-370
ACCEPTANCE COMMENTS	NONE
FINAL FORM COMMENTS	NONE

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: WV-T014	Handling: RH	NMVP #: N/A	Stream Name: Chemical Process Cell Vessels		Inventory Date: 12/31/94
Local ID:	Type: TRU	Generator Site:	Final Waste Form: Uncategorized Metal		Waste Matrix Code: S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	1.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category:	Commercial TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Various size metal waste boxes	270.0	0.0	0.0	0.0	0.0	270.0
Totals	270.0	0.0	0.0	0.0	0.0	270.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	89.9	0.0	0.0	0.0	0.0	89.9
Totals	89.9	0.0	0.0	0.0	0.0	89.9

As-Generated Form: Stored: 270.0 Projected: 0.0 Total: 270.0

Final Waste Form: Stored: 89.9 Projected: 0.0 Total: 89.9

WASTE STREAM DESCRIPTION	This waste stream was generated as a result of the decommissioning and decontamination of the Chemical Process Cell. The specific contents of these containers include evaporators, dissolvers, tanks, condensers, etc. These vessels were previously used to reprocess spent fuel rods.
WASTE STREAM SOURCE	Vessels removed from the Chemical Process Cell.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	3C-1 (fuel dissolver), 3C-2 (fuel dissolver), 7C-2 (LLW evaporator), 3E-2/3E-3 (dissolver condensers), 7C-4 (recycle evaporator), 7D-10 (LLW accountability and neutralizer tank), 7C-1 (HLW evaporator), 3D-1 (fuel accountability and feed adjustment tank), 7D-4 (HLW accountability and neutralizer tank)
ACCEPTANCE COMMENTS	NONE
FINAL FORM COMMENTS	The West Valley Demonstration Project does not currently have RH Canisters. It is estimated that 101 canisters would be needed to repackage the waste for shipment following size reduction. No RH-TRU canisters currently exist at WV. The assumption is that all RH-TRU currently stored waste will be repackaged into RH-TRU canisters at a later date.

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: WV-T016	Handling: RH	NMVP #: N/A	Stream Name: Chemical Process Cell Miscellaneous Equipment		Inventory Date: 12/31/94
Local ID:	Type: TRU	Generator Site:	Final Waste Form: Uncategorized Metal		Waste Matrix Code: S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	1.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category:	Commercial TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
432 cubic ft. 6ft by 6ft by 12 ft.	146.8	0.0	0.0	0.0	0.0	146.8
Totals	146.8	0.0	0.0	0.0	0.0	146.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	146.8	0.0	0.0	0.0	0.0	146.8
Totals	146.8	0.0	0.0	0.0	0.0	146.8

As-Generated Form: Stored: 146.8 Projected: 0.0 Total: 146.8

Final Waste Form: Stored: 146.8 Projected: 0.0 Total: 146.8

WASTE STREAM DESCRIPTION	This waste stream was generated as a result of the decommissioning and decontamination of the Chemical Process Cell (CPC). The specific contents of these containers include various jumpers and miscellaneous equipment, etc. The CPC was previously used to reprocess spent fuel rods.
WASTE STREAM SOURCE	Various jumpers and miscellaneous equipment generated from the decontamination and decomissioning of the Chemical Process Cell
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Jumper Boxes J1 Through J-12 Each jumper box is 432 cubic feet and contains a inner container which houses the jumpers and misc. waste
ACCEPTANCE COMMENTS	NONE
FINAL FORM COMMENTS	The West Valley Demonstration Project does not currently have RH canisters. It is estimated that approximately 165 canisters would be needed to repackage the waste for shipment. No RH-TRU canisters currently exist at WV. The assumption is that all RH-TRU currently stored waste will be repackaged into RH-TRU canisters at a later date.

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: WV-T017	Handling: CH	NMVP #: N/A	Stream Name: Spent Filter Media		Inventory Date: 12/31/94
Local ID:	Type: TRU	Generator Site:	Final Waste Form: Solidified Inorganics		Waste Matrix Code: S3115

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	154.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Commercial TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
80 cubic foot HIC	2.3	0.0	0.0	0.0	0.0	2.3
Totals	2.3	0.0	0.0	0.0	0.0	2.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8
Totals	3.8	0.0	0.0	0.0	0.0	3.8

As-Generated Form: Stored: 2.3 Projected: 0.0 Total: 2.3

Final Waste Form: Stored: 3.8 Projected: 0.0 Total: 3.8

WASTE STREAM DESCRIPTION	This waste stream consists of spent filter media generated from filtration of the Fuel Receiving & Storage pool where the remaining spent fuel rods are stored.
WASTE STREAM SOURCE	Spent filter media generated from normal site activities.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	HIC-A
ACCEPTANCE COMMENTS	1, 80 cubic foot High Integrity Container
FINAL FORM COMMENTS	@, standard waste boxes would be required to ship this waste stream.

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: WV-W024	Handling: CH	NMVP #: N/A	Stream Name: TRU Lead		Inventory Date: 12/31/94
Local ID: NA	Type: MTRU	Generator Site: WV	Final Waste Form: Lead/Cadmium Metal Waste		Waste Matrix Code: S5112

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Commercial TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Discarding Excess/Expired Materials

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55-GALLON DRUM	0.2	0.0	0.0	0.0	0.0	0.2
70 cubic ft. Type A waste box	2.0	0.0	0.0	0.0	0.0	2.0
Totals	2.2	0.0	0.0	0.0	0.0	2.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated Form: Stored: 2.2 Projected: 0.0 Total: 2.2

Final Waste Form: Stored: 2.1 Projected: 0.0 Total: 2.1

WASTE STREAM DESCRIPTION	This waste stream consists of transuranic lead in the following configurations: lead bricks and lead shielding. Note: The size of the waste stream components may be highly variable. In addition to the lead materials listed above, the following wastes are also part of the contents of the containers included in this waste stream: glassware, bags, bottles. oven, ultrasonic chiller, and an old style 8D-2 sample cask. The wastes included in this stream are characterized as mixed because they exhibit the characteristic of toxicity for lead.
WASTE STREAM SOURCE	This waste stream consists of lead as specified in section 3.1. This waste was previously used as shielding in radiologically contaminated areas and was identified as excess material.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The high confidence level for regulated contaminant characteristics data is based on the process knowledge (i.e., content descriptions) that lead is present in these containers. The specific amount of elemental lead present in these containers is not available at this time.
MANAGEMENT COMMENTS	WVNS Container ID #s for this waste stream are: TC-100, TD-416.
ACCEPTANCE COMMENTS	None.
FINAL FORM COMMENTS	following decontamination of the lead as a pretreatment step, it is anticipated that this waste stream will no longer be classified as transuranic waste and there will be no TRU disposal required.

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: WV-W041	Handling: CH	NMVP #: N/A	Stream Name: TRU Paint (Dry) with Metals		Inventory Date: 12/31/94
Local ID: NA	Type: MTRU	Generator Site: WV	Final Waste Form: Heterogeneous		Waste Matrix Code: S5900

AS-GENERATED EPA CODES

D008, D007

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Commercial TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55-GALLON DRUM	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

WASTE STREAM DESCRIPTION	This waste stream consists of transuranic paint waste (i.e., paint cans) and the following nonhazardous wastes: glove box gloves, glove box debris, wipes, general waste, boots, sample bottles, beakers, and flasks. This waste was characterized as mixed because it is assumed to exhibit the characteristic of toxicity for chromium and lead.
WASTE STREAM SOURCE	This waste stream consists of transuranic paint waste and other nonhazardous waste as specified in section 3.1. This waste was generated as a result of decontamination and decommissioning activities.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The medium level of confidence for regulated contaminant characteristics data is based on the uncertainty of whether or not the dried paint that is assumed to be present in the paint cans contains lead and chromium. The characterization of D007 and D008 was made based on process knowledge (i.e., lead and chromium containing paints were previously used on-site).
MANAGEMENT COMMENTS	WVNS container ID #s for this waste stream are: TD-417, TD-724.
ACCEPTANCE COMMENTS	None.
FINAL FORM COMMENTS	N/A

Non-WIPP TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: WV-Z001	Handling: U	NMVP #: N/A	Stream Name: West Valley Buried TRU Waste		Inventory Date:
Local ID:	Type: TRU	Generator Site:	Final Waste Form: Unknown		Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Commercial TRU Waste

Residues:

Asbestos:

PCBs:

Source:

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Not contained	1353.0	0.0	0.0	0.0	0.0	1353.0
Totals	1353.0	0.0	0.0	0.0	0.0	1353.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 1353.0 Projected: 0.0 Total: 1353.0

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION N/A

WASTE STREAM SOURCE A total of approximately 1,353 m3 of TRU-contaminated waste is buried at the West Valley Demonstration Project site. As of December 31, 1993, the as-stored radioactivity from the TRU radionuclides associated with this volume of buried waste is estimated to be 652,000 Curies. Information about non-TRU radionuclides and about decayed radioactivity is not available. This waste will not go to WIPP.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS

APPENDIX P
WASTE STREAM PROFILES (WIPP)

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APPENDIX P
BACKGROUND AND HISTORY

Since a substantial portion of TRU waste has been generated as a result of defense-related activities of the United States, this section summarizes the mission and organizational structure of the nation's Nuclear Weapons Complex as well as the major activities of each DOE site that stores or generates TRU waste.

Nuclear Weapons Complex

The mission of the Nuclear Weapons Complex (the Complex) was to provide the Department of Defense (DOD) with safe, secure, reliable , and operationally effective nuclear weapons and components utilizing state-of-the-art nuclear technology to ensure that the Nation's nuclear deterrent remained effective and viable into the foreseeable future. To accomplish this mission the Department of Energy (DOE) was required to 1) maintain the nuclear weapons stockpile, certify the reliability and safety of nuclear weapons, and modernize the stockpile based on requirements provided by DOD; and 2) continue to perform the research, development, and testing necessary to maintain technical superiority over the Nation's adversaries and to prevent technological surprises.

The Complex was organized into four major mission-oriented, programmatic elements:

1. Research, Development, and Testing (RD&T)
2. Nuclear Materials Production (NMP)
3. Nuclear Weapons Production (NWP)
4. Defense Waste Management Program (DWMP)

Each of these elements and the DOE sites that support the related activities are described below.

Research, Development, and Testing

The RD&T program pursued technological advances that provided the U.S. with options for technical opportunity, initiated research to open new opportunities, and neutralized or minimized technological or other advantages of adversaries. The RD&T complex certified the reliability and safety of the current stockpile, designed and tested nuclear weapons, conducted exploratory research to avoid technological surprise and provided future weapon design options, and supported national arms control objectives.

The DOE's RD&T Program was concentrated in three nuclear weapons research and development laboratories, Los Alamos National Laboratory (LANL) (formerly known as the Los Alamos Scientific Laboratory), Lawrence Livermore National Laboratory (LLNL), and the Sandia National Laboratories (SNL). LANL and LLNL were involved with applied research and the design, development, and testing of the physics packages for nuclear weapons. SNL's major mission was nuclear weapons systems ordnance engineering, nonnuclear component design and development, field and laboratory testing, and manufacturing engineering. Underground nuclear testing was done at only one location, the Nevada Test Site. Nonnuclear testing was done at the

Tonapah Test Range in Nevada. The RD&T was the only source of new technology application for the development of weapons required to meet the evolving DOD requirements as they responded to evolving threats.

Nuclear Materials Production

The NMP element of the Complex supplied nuclear materials (i.e., tritium, weapons-grade plutonium, and highly enriched uranium) for nuclear weapons to support the Nation's stockpile. In addition to the requirements for new weapons, tritium was also produced to replace tritium that had undergone radioactive decay in the stockpile so that the effectiveness of the weapons were supplied by a combination of recycling and recovering material that had been in the stockpile, and production of new materials in nuclear reactors and uranium enrichment facilities.

Fernald Environmental Management Company (FERMCO) is located at Fernald, Ohio. This facility produced uranium metal cores used in nuclear reactors at Hanford and the Savannah River Site. No TRU waste has been generated at FERMCO.

Hanford operations included a fuel fabrication plant, one reactor designated the N-reactor, chemical separations, and a plutonium-finishing plant. In the past, tritium, plutonium shapes, and polonium-210 and other isotopes were produced for use in the weapons complex.

At the Idaho National Engineering Laboratory (INEL) the principal materials production facility was the Idaho Chemical Processing Plant which recovered enriched uranium from spent naval and research reactor fuels.

Savannah River Site (SRS) (formerly known as the Savannah River Plant [SRP]) produced weapons-grade plutonium and tritium. Other activities included production of special isotopes and fabrication of naval reactor fuel material. The major production facilities at SRS included fuel and target fabrication facilities, three nuclear production reactors, two chemical separation plants, and a research and development laboratory that provided process support. SRP was also assigned the loading of tritium into "reservoirs" that were actual components of thermonuclear weapons.

Nuclear Weapons Production

The NWP element managed a program to maintain and evaluate the Nation's nuclear weapons stockpile for continued reliability and existence in a modern state of operational readiness. The NWP also manufactured, modified, and retired nuclear weapons that were required to meet rigid quality and safety standards and transported nuclear weapons and major components among DOE and DOD locations.

Kansas City Plant (KCP) manufactured, surveilled, and evaluated components for nuclear weapons. The major products at the plant were electromechanical, electrical, plastic, and metallurgical components and arming, fuzing, and firing systems. No TRU waste was generateed at the Kansas City Plant.

Mound Applied Technologies manufactured, surveilled, and evaluated components for nuclear weapons. These components included detonators, timers, transducers, firing sets, pellets, and unique production testers. Activities also included recovery and purification of tritium wastes. Earlier activities included manufacturing of polonium-210 and plutonium-238 radioisotopic heat sources.

Pantex Plant was primarily an assembly facility that assembled high explosives, nuclear components, and nonnuclear components into nuclear weapons. Other activities included weapon repair and modification; weapon disassembly and retirement; and stockpile evaluation and testing.

Pinellas Plant produced miniaturized neutron generators. The plant also manufactured radioisotopically powered, thermoelectric generators, thermal batteries, specialty capacitors, crystal resonators, neutron detectors, special switches, and product testers. No TRU waste has been generated at the Pinellas Plant.

The key facilities at the Rocky Flats Environmental Technology Site were those associated with plutonium component fabrication and plutonium recovery. The plant also fabricated components from uranium, beryllium, as well as nonnuclear metal parts.

The major operations at the Y-12 Plant were production of weapon components, uranium, uranium alloys, and lithium compounds that were shipped to other sites. Materials were also recovered from the fabrication process and retired weapons.

Defense Waste Management Program

The DWMP includes waste management and environmental restoration . The waste program provides for treatment, storage, and disposal of radioactive and mixed waste generated during the production of weapons, components, and nuclear materials, and during the processing of nuclear materials. The Environmental Restoration Program manages activities to cleanup environmental contamination and activities to decontaminate and decommission (D&D) inactive facilities at the Complex sites.

According to the Atomic Energy Act of 1954, as amended, and the Department of Energy Organization Act, responsibility for radioactive waste and byproducts generated by DOE's nuclear activities belongs to the Secretary of the Department of Energy.

The Waste Isolation Pilot Plant was built to provide a research and development facility to demonstrate the safe disposal of transuranic radioactive wastes that resulted from defense activities.

Figure 1 relates these program elements to the major sites in the Complex.

Figure 1

Nuclear Weapons Complex During Cold War Years

Mission: Maintain, certify reliability, and modernize the nuclear weapons stockpile based upon DOD requirements. Maintain superiority in nuclear weapons technology.

LABORATORIES/TEST SITES

Los Alamos National Lab.
Lawrence Livermore National Lab.
Sandia National Lab.
Nevada Test Site

MISSION:

Certify reliability and safety of stockpile. Design and test nuclear weapons. Conduct exploratory research to avoid technological surprise, advance designs, and support National Arms Control objectives.

NUCLEAR WEAPONS PRODUCTION COMPLEX

Kansas City Plant
Mound Plant
Pantex Plant
Pinellas Plant
Rocky Flats Plant
Y-12 Plant
Savannah River Weapons Facility

MISSION:

Manage program to maximum and manufacture, modify, evaluate, stockpile, and retire nuclear weapons to meet the Nation's deterrent requirements. Transport nuclear weapons and major components between DOE and DOD locations.

NUCLEAR WEAPONS PRODUCTION COMPLEX

Savannah River Plant
Hanford Plant
Feed Materials Production Center
Idaho National Engineering Lab.
Y-12 Plant

MISSION:

Supply essential nuclear materials: tritium, weapons-grade plutonium, and highly enriched uranium through a combination of recycle and recovery of material from retired stockpile of weapons and production of new material in nuclear reactor and uranium enrichment facilities.

DEFENSE WASTE COMPLEX

Waste Isolation Pilot Plant
Hanford Plant
Idaho National Engineering Laboratory
Savannah River Plant

MISSION: Provide safe processing, storage, and disposal of radioactive and mixed waste generated during the production of weapons, components and by-products of nuclear materials and during processing of nuclear materials.

Reference: United States Department of Energy Nuclear Weapons Complex Modernization Report, Report to the Congress by the President, December 1988.

REFERENCES/BIBLIOGRAPHY

1. U.S. Department of Energy, Albuquerque Operations Information Digest, July 1988

2. United States Department of Energy Nuclear Weapons Complex Modernization Report, Report to the Congress by the President, December 1988

3. History of DuPont at the Savannah River Plant, W.P. Bebbington, 1990, IS BN Number 0-934870-27-6

4. Characterization of Decontamination and Decommissioning Wastes Expected from the Major Processing Facilities in the 200 Areas, WHC-EP-0787, August 1994

5. A Comprehensive Inventory of Radiological and Nonradiological Contaminants in Wastes Buried in the Subsurface Area of the INEL RWMC During the Years 1952-1983, EGG-WM-10903, Volume 1, June 1994

6. Radioactive Waste Management at the Savannah River Plant, DOE-SR-0001.

AE Argonne National Laboratory - East

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ARGONNE NATIONAL LABORATORY - EAST

Location and Description

Argonne National Laboratory-East (ANL-E) occupies the central 1,700 acres of a 3,740-acre tract in DuPage County, 35 kilometers southwest of downtown Chicago and 39 kilometers west of Lake Michigan. It lies north of the Des Plaines River Valley, south of Interstate Highway 55 and west of Illinois Highway 83. The 2,040 acres surrounding the site was formerly ANL-E property, but was deeded to the DuPage County Forest Preserve District in 1973 for their use as a public recreational area, nature preserve and demonstration forest.

The terrain is gently rolling, partially wooded, former prairie and farmland. The grounds contain a number of small ponds and streams, the principal one being Sawmill Creek, which runs through the site in a southerly direction and enters the Des Plaines River about 2.1 kilometers southeast of the center of the site.

Mission

Since World War II, ANL-E has been engaged in nuclear energy research. Currently it is a multidisciplinary research and development laboratory conducting basic and applied research to support development of energy-related technologies.

Waste Information

Processes

Most of the TRU and TRU mixed waste has been generated by three operations:

1. The Alpha Gamma Hot Cell Facility located in Building 205
2. The New Brunswick Laboratory (NBL), Building 305
3. Chemistry, chemical technology, and analytical programs.

The Alpha Gamma Hot Cell Facility does destructive examinations of fuel and components primarily associated with the Reactor Program. The waste component of this stream consists of metal and combustible trash containing adventitious quantities of TRU. The radioactive material originated in Idaho and is currently returned to the Radioactive Waste Management Complex (RWMC) at INEL for interim storage.

New Brunswick Laboratory does uranium and plutonium assay analyses for the DOE system. This stream generates approximately 130 cubic feet of waste per year. This stream consists of TRU nitrate solutions containing as estimated 130 grams of TRU annually.

The Reactor Program has generated small volumes of TRU waste contaminated with cadmium. This is a mixed waste that contains significant quantities of plutonium and uranium.

Some plutonium-containing liquid waste stream from the NBL analytical laboratories has been processed by the experimental/demonstration TRUEX process in Building 205. This TRUEX process is being replaced by a new transuranic neutralization precipitation process. Hot cells in Buildings 200, 205, and 212 are used to package remote-handled TRU waste.

TRU wastes are generated in dozens of laboratories on site. Most of these wastes are collected in containers smaller than 5 gallons because of the nature of the work performed at the Laboratory. The waste is transported to Building 306 where the waste is treated. Solid TRU waste treatment consists only of preparing it for interim storage.

Liquid TRU waste (which is normally hazardous because of corrosivity) will be treated in a new process (TRU neutralization/precipitation process). The solid waste from this treatment process will also simply be put into storage until WIPP begins accepting waste.

Modifications/Assumptions/Development

Waste streams that are expected to be directly shipped to WIPP (upon WIPP-WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double- counting these streams as both "as generated currently stored" and "final form projected."

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	AE-T003	Handling:	CH	NMVP #:	N/A	Stream Name:	Nonhazardous metals	Inventory Date:	6/1/95
Local ID:		Type:	TRU	Generator Site:	AE	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5110

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	302.9	76.9	913.5
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-238	2.24E-05
U-235	2.50E-05
U-233	1.20E-09
Pu-241	6.10E-01
Pu-239	1.17E+00
Pu-238	4.07E-06
Np-237	6.43E-03
Am-243	4.00E-02
Am-241	2.13E+00

M

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	5.0	45.3	16.6	33.3	33.3	133.5
Totals	5.0	45.3	16.6	33.3	33.3	133.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	5.0	45.3	16.6	33.3	33.3	133.5
Totals	5.0	45.3	16.6	33.3	33.3	133.5

As-Generated Form: Stored: 5.0 Projected: 128.5 Total: 133.5

Final Waste Form: Stored: 5.0 Projected: 128.5 Total: 133.5

WASTE STREAM DESCRIPTION	6/6/95 This waste stream is Solid nonhazardous heterogeneous TRU-CH stored mostly at the at 317 Area vaults
WASTE STREAM SOURCE	$ Not reported $ Non-mixed TRU derived from IDB.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	8/14/95 Assume 42 cubic meters in 1996 (202 drums) and 3.3 cubic meters (16 drums) each year thereafter through 2022.

M

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	AE-W038	Handling:	CH	NMVP #:	N/A	Stream Name:	Aqueous Lab Packs	Inventory Date:	6/1/95
Local ID:		Type:	MTRU	Generator Site:	AE	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	X6200

AS-GENERATED EPA CODES

D006, D004, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	101.0	101.0	101.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	216.3	168.3	259.6
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope (grams/L)	
Pu-241	2.00E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	4.8	0.0	0.0	0.0	0.0	4.8
Totals	4.8	0.0	0.0	0.0	0.0	4.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.8	0.0	0.0	0.0	0.0	4.8
Totals	4.8	0.0	0.0	0.0	0.0	4.8

As-Generated Form: Stored: 4.8 Projected: 0.0 Total: 4.8

Final Waste Form: Stored: 4.8 Projected: 0.0 Total: 4.8

WASTE STREAM DESCRIPTION	This waste stream comprises three waste sources: 1) Lab packs of acidic wastes from research and development projects site-wide, 2) Acidic wastewater from Chemical Technology (CMT) Division - Building 205, and 3) acidic wastewater from the analysis of plutonium at the New Brunswick Laboratory (NBL).
WASTE STREAM SOURCE	Acidic wastes are generated by projects in electrochemical technology and by the analytical chemistry laboratory during routine analyses. A multitude of research and development projects in the areas of materials science, chemistry, environmental studies and biological research. $ Not reported $ MTRU Acidic Wastewater
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Waste has only been characterized by process knowledge.
MANAGEMENT COMMENTS	Building 306, Room A150. NBL, Building 350. Building 205 (CMT)
ACCEPTANCE COMMENTS	□□GENERAAREA: This waste stream comes from three sources: Chemical Technology (CMT) Division - Building 205, New Brunswick Laboratory (NBL) - Building 350, and Site-wide.□□GENOPERATI: CMT has programs in nuclear technology, electrochemical technology, fossil fuel research, muncipal and hazardous waste research, and analytical chemistry. NBL performs analytical chemistry of uranium-containing samples. ANL-E, in general, conducts various research and development projects. □□CATION: UNK□□OTHER_CHAR: The NBL wastewater contains 8 to 16 molar nitric acid□□LDR_DETERM: This waste is subject to the LDR storage prohibition. The waste has been in storage for more than the one year LDR mandated storage limit.□□WASTE_PACK: Waste is stored in lab packs that may be overpacked in 55-gal drums. If not overpacked, lab packs are stored in metal cabinets. NBL waste is stored in 1-liter polyethylene bottle which is double bagged and place in a steel paint can/drum. CMT waste is stored in 1 gal plastic bottles
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	AE-W039	Handling:	CH	NMVP #:	N/A	Stream Name:	Organic Resins	Inventory Date:	6/1/95
Local ID:		Type:	MTRU	Generator Site:	AE	Final Waste Form:	Solidified Organics	Waste Matrix Code:	S3211

AS-GENERATED EPA CODES

D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	351.0	28.8	548.1
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	346.2	101.0	726.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	Resins used in the radiochemical analysis.
WASTE STREAM SOURCE	Radiochemical analysis. $ Not reported $ MTRU Organic Resins
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Waste has only been characterized by process knowledge.
MANAGEMENT COMMENTS	Building 205
ACCEPTANCE COMMENTS	□□GENERAAREA: Building 205□□GENOPERATI: Programs in nuclear technology, electrochemical technology, fossil fuel research, muncipal and hazardous waste research, and analytical chemistry.□□CATION: UNK□□LDR_DETERM: This waste is subject to the LDR storage prohibition. The waste has been in storage for more than the one year LDR mandated storage limit.□□WASTE_PACK: 1-gallon plastic bottles
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	AE-W040	Handling:	CH	NMVP #:	N/A	Stream Name:	Wastewater Treatment Sludges	Inventory Date:	6/1/95
Local ID:		Type:	MTRU	Generator Site:	AE	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3121

AS-GENERATED EPA CODES

D009, D007, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	394.2	173.1	528.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	399.0	173.1	528.8
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

WASTE STREAM DESCRIPTION	MTRU sludge from evaporator used to concentrate aqueous liquids. Sludges may contain cadmium, chromium and/or mercury..
WASTE STREAM SOURCE	Evaporation of water from aqueous solutions. $ Not reported $ MTRU Evaporator, Concentrator Sludges
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Waste has only been characterized by process knowledge.
MANAGEMENT COMMENTS	Evaporator bottoms are stored in Building 374A.
ACCEPTANCE COMMENTS	□□GENERAAREA: Building 306 evaporator/concentrator.□□GENOPERATI: Waste concentration and repackaging.□□CATION: UNK□□LDR_DETERM: This waste is subject to the LDR storage prohibition. The waste has been in storage for more than the one year LDR mandated storage limit.□□WASTE_PACK: 55-gal removable head 17C galvanized steel drums with high density polyethylene rigid liner. Absorbent material (vermiculite or silicate) is placed between the liner and the drum.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	AE-W041	Handling:	CH	NMVP #:	N/A	Stream Name:	Non-Activated Lead	Inventory Date:	6/1/95
Local ID:		Type:	MTRU	Generator Site:	AE	Final Waste Form:	Lead/Cadmium Metal Waste	Waste Matrix Code:	X7211

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	302.9	76.9	913.5
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.6	0.0	0.6	0.0	0.0	1.2
Totals	0.6	0.0	0.6	0.0	0.0	1.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.6	0.0	0.0	1.2
Totals	0.6	0.0	0.6	0.0	0.0	1.2

As-Generated Form: Stored: 0.6 Projected: 0.6 Total: 1.2

Final Waste Form: Stored: 0.6 Projected: 0.6 Total: 1.2

WASTE STREAM DESCRIPTION	Lead bricks from ANL-E site operations including glove boxes. The lead bricks contain plutonium.
WASTE STREAM SOURCE	$ Not reported $ MTRU Elemental Lead
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Waste has only been characterized by process knowledge.
MANAGEMENT COMMENTS	Waste is currently intact in Building 212.
ACCEPTANCE COMMENTS	□□GENERAAREA: Building 212 (glove boxes)□□GENOPERATI: Building 212 was used for research and development of reactor fuels.□□CATION: UNK□□LDR_DETERM: This waste is subject to the LDR storage prohibition. The waste has been in storage for more than the one year LDR mandated storage limit.□□WASTE_PACK: The waste is currently stored in a poly-lined 55-gal steel drum.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	AE-W042	Handling:	CH	NMVP #:	N/A	Stream Name:	Cadmium containing metal debris	Inventory Date:	6/1/95
Local ID:		Type:	MTRU	Generator Site:	AE	Final Waste Form:	Lead/Cadmium Metal Waste	Waste Matrix Code:	S5113

AS-GENERATED EPA CODES

D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	256.1	256.1	256.1
Aluminum-base Metal/Alloys:	27.8	27.8	27.8
Other Metals/Alloys:	24.7	24.7	24.7
Other Inorganic Material:	29.3	2.3	29.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	7.4	0.0	45.3
Rubber:	0.0	0.0	0.0
Plastics:	15.1	0.0	67.6
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

M

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.4	0.0	0.7	0.0	0.0	1.1
Totals	0.4	0.0	0.7	0.0	0.0	1.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.7	0.0	0.0	1.1
Totals	0.4	0.0	0.7	0.0	0.0	1.1

As-Generated Form: Stored: 0.4 Projected: 0.7 Total: 1.1

Final Waste Form: Stored: 0.4 Projected: 0.7 Total: 1.1

WASTE STREAM DESCRIPTION	Cadmium containing metal/salt waste from IFR research and development projects. The waste contains plutonium and uranium.
WASTE STREAM SOURCE	The waste is generated from the IFR electro-refinery process. $ Not reported $ MTRU Cadmium Waste
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Waste has only been characterized by process knowledge.
MANAGEMENT COMMENTS	This waste is being stored in Building 306, room D001.
ACCEPTANCE COMMENTS	□□GENERAAREA: Building 205, CMT Division□□GENOPERATI: Building 205: Programs in nuclear technology, electrochemical technology, fossil fuel research, municipal and hazardous waste research, and analytical chemistry.□□CATION: K, U, Cl □□LDR_DETERM: This waste is subject to the LDR storage prohibition. The waste has been in storage for more than the one year LDR mandated storage limit. □□WASTE_PACK: 55-gallon galvanized steel drums with high density polyethylene liner.
FINAL FORM COMMENTS	N/A

AL Ames Laboratory

AMES LABORATORY

Location and Description

Ames Laboratory (AL) located on the campus of Iowa State University in Ames, Iowa, conducts basic research in materials and chemical sciences, as well as related research in materials reliability and non-destructive evaluation. The University operates the Laboratory for the DOE. DOE owns eleven buildings on the campus. The Laboratory also leases space in Iowa State University-owned buildings, and has easements through the Year 2060 for two buildings in the Applied Science Complex.

Mission

The primary mission of AL is to conduct basic and intermediate range applied research in physical, chemical, mathematical, and engineering sciences that underlie and support energy technologies and other areas of national importance. AL has strengths in materials preparation and processing, chemical sciences, and materials reliability for solving complex materials problems in energy production and utilization. AL maintains capabilities for preparing high purity metals, alloys, compounds, and single crystals. AL is also applying its experience in materials testing to develop innovative techniques for investigating contaminated sites.

Waste Information

Processes

Currently AL has no TRU material that has been declared waste. AL expects to generate TRU waste during remediation of a glovebox that has been used for plutonium and other transuranic research. The glovebox will continue to be used for TRU research. An undetermined amount of the contents of the glovebox will become mixed TRU waste. Isotopes that are known to be in the glovebox are: Pu-239, Pu-240, Pu-242, Np-237, U-235, U-236, and U-238. Also included in this waste stream are the HEPA filters that will be removed in 2004.

Modifications/Assumptions/Development

The volume of the final form assumes a 2.5 volume expansion factor for solidification.

Waste streams that are expected to be directly shipped to WIPP (upon WIPP–WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double– counting these streams as both "as generated currently stored" and "final form projected."

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: AL-W005
Local ID: Glovebox

Handling: CH
Type: MTRU

NMVP #: N/A
Generator Site: AL

Stream Name: Aqueous Liquids/Slurries
Final Waste Form: Solidified Inorganics

Inventory Date: 5/12/95
Waste Matrix Code: L1000

AS-GENERATED EPA CODES

D011, D010, D008, D007, D006, D005, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	394.2	173.1	528.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	399.0	173.1	528.6
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste
Residues: No
Asbestos: No
PCBs: No
Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope (	weight %)
U-238	5.00E-03
U-236	5.00E-03
U-235	5.00E-03
U-(unspec)	5.00E-03
Pu-242	5.00E-03
Pu-240	5.00E-03
Pu-239	5.00E-02
Np-237	5.00E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum /	0.0	0.0	0.0	0.4	0.0	0.4
Totals	0.0	0.0	0.0	0.4	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	0.4	0.0	0.4
Totals	0.0	0.0	0.0	0.4	0.0	0.4

As-Generated Form: Stored: 0.0 Projected: 0.4 Total: 0.4

Final Waste Form: Stored: 0.0 Projected: 0.4 Total: 0.4

WASTE STREAM DESCRIPTION	This waste stream will be generated during the remediation of a glovebox that has been used for plutonium and other transuranic research. The glovebox will continue to be used for transuranic research. Some of the contents of the glovebox will become MTRU waste. It has not yet been determined what volume will be MTRU and what will be TRU. Isotopes that are known to be in the glovebox are: Pu-239, Pu-240, Pu-242, Np-237, Pa-233, U-235, U-236 and U-238. The concentrations of the TRU components range from 1 ppb to 2300 ppm in various concentrations of nitric acid. Uranium concentrations range from 0.1 ppm to 407,770 ppm. Also included in this waste stream are the HEPA filters that will be removed in 2004.
WASTE STREAM SOURCE	This glove box was used to contain transuranic materials which were subject to ICP-AES preparation and analysis.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	No TCLP analysis has been done.
MANAGEMENT COMMENTS	Glovebox being held with limited access at Waste Disposal facility at Ames Laboratory.
ACCEPTANCE COMMENTS	Remediation of the contents of the glovebox is required so that the remaining equipment can again be used. It is unknown at this time, how much or what kinds of waste will be generated as a result of this activity. Every effort will be made to segregate TRU from non-TRU and RCRA hazardous from any radioactive.□ Research activities are conducted at the Alpha Facility. It is unlikely that any of the wastes will be able to be reclassified as less than 100 nCi/g. Anions: NO3, F, SO4, NO2. Cations: Cs, Al, Fe, Sr, Y, Sm, Dy, Lu, Ce, Nd, Ni, Na, Cr, Se, Rb, Zr, Mo, Ru, Rh, Pd, Ag, Cd, Te, Ba, La, Pr, Eu, Gd, Pb, K, Mg, Ca Many of the cations are contained in matrices at ppm quantities. The following are in part/thousand quantities or greater: Na, Al, Fe, Ca. This waste stream may be potentially generated during the remediation of the glovebox contents. Total dissolved solids ranges from 1 ppm to 40%. This waste stream is currently contained within a glovebox. The information that has been presented in this waste stream profile has been derived from the inventory of the contents. The total volume and types of wastes that will be generated during the remediation of the contents of the glovebox will not be known until remediation has begun. Wastes will go into storage after LDR effective date of 5/8/92. Currently the various solutions are contained in plastic 50 ml centrifuge tubes and in polyethylene or glass bottles.
FINAL FORM COMMENTS	This waste will not be generated until 2004.

AW Argonne National Laboratory - West

ARGONNE NATIONAL LABORATORY - WEST

Location and Description

Argonne National Laboratory-West (ANL-W) is located approximately 56 kilometers west of Idaho Falls, Idaho, in the southeastern portion of the Idaho National Engineering Laboratory (INEL). ANL-W is in Bingham County in the State of Idaho. The ANL-W administrative area covers slightly more than one square mile and is managed by the DOE/Chicago Office. The Management and Operating Contractor is the University of Chicago.

Mission

ANL-W is a research and development laboratory. Much of the work done there supports development of advanced nuclear power plant technology. This support includes irradiation and safety tests, reactor physics studies, and fuel examination studies.

ANL-W consists of several major complexes: Experimental Breeder Reactor II (EBR II) the Transient Reactor Test Facility (TREAT), the Zero Power Physics Reactor (ZPPR), the Hot Fuel Examination Facility (HFEF), The Fuel Conditioning Facility (FCF), the Fuel Manufacturing Facility (FMF), Laboratory and Office Building, support complexes such as the Radioactive Liquid Waste Treatment Facility (RLWTF) and the Radioactive Scrap and Waste Facility (RSWF), and the Sodium Process Facility.

Waste Information

Processes

Solid radioactive waste generated at ANL-W is primarily associated with irradiated experimental fuel subassemblies and capsules from EBR-II and, to a lesser degree, TREAT. After irradiation in ANL-W reactors, the subassemblies and capsules were conveyed to appropriate facilities for dismantling, sampling, and examination. If they were not contaminated with sodium, these reactor pieces and parts were shipped to the RWMC as remote-handled waste. Sodium-contaminated reactor parts are stored in the RSWF at ANL-W.

The ANL-W Waste Operations Program encompasses all ANL-W non-production facilities, operations, and sites used for the storage, treatment, or disposal of radioactive, hazardous, mixed, and sanitary waste materials that have been property characterized, packages, and labeled. Facilities used exclusively for long-term storage of ANL-W waste material are also covered in this program.

Waste management activities are those concerned with minimization, treatment, storage, and disposal of radioactive, hazardous, mixed, and non-hazardous wastes generated as a result of ongoing operations at active facilities and from other resources such as the Environmental Restoration Program. Many of these activities support continuity of operations at ANL-W.

Routine operations include shipping TRU waste from ANL-W to the Radioactive Waste Management Complex on the INEL for storage and then eventual disposal to WIPP. Operations at the RSWF involves TRU and mostly TRU mixed waste which is contaminated with elemental sodium. The waste will be moved from this interim holding area to approved and appropriate DOE waste treatment or disposal areas, when identified.

Modifications/Assumptions/Development

Waste streams that are expected to be directly shipped to WIPP (upon WIPP-WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double- counting these streams as both "as generated currently stored" and "final form projected."

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	AW-W026	Handling:	CH	NMVP #:	N/A	Stream Name:	ALHC UPGRADE DECON DEBRIS	Inventory Date:	4/30/95
Local ID:	CH-ANL-505T	Type:	MTRU	Generator Site:	AW	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

D008, D007, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Zr-95	1.05E-02
Y-90	2.63E+00
U-238	3.67E-06
U-235	2.84E-05
Sr-90	2.63E+00
Rh-106	3.14E-01
Pu-239	1.30E-01
Mn-54	7.84E-06
Eu-155	2.44E-02
Eu-154	9.88E-03
Cs-137	1.18E+00
Cs-134	2.83E-02
Co-60	7.51E-02
Ce-144	4.81E-02
Am-241	1.64E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Metal Box	1.2	0.0	0.0	0.0	0.0	1.2
Totals	1.2	0.0	0.0	0.0	0.0	1.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	4.3	0.0	0.0	0.0	0.0	4.3
Totals	4.3	0.0	0.0	0.0	0.0	4.3

As-Generated Form: Stored: 1.2 Projected: 0.0 Total: 1.2

Final Waste Form: Stored: 4.3 Projected: 0.0 Total: 4.3

WASTE STREAM DESCRIPTION	Waste packaged for WIPP containing: Radioactive cadmium debris from CH-ANL-242T, solidified to meet WIPP-WAC requirement for particulate immobilization, and bags of lead-lined gloves were placed in the solidified CO2 drums to fill the void spaces. The leftover gloves were placed in a separate 30-gallon drum. 1710 pounds of waste are in two TRU-Pac containers: MW-S-94-02 and MW-S-94-03.
WASTE STREAM SOURCE	This waste stream was generated at Analytical Lab Hot Cell (ALHC) Upgrade, Bldg 752: Analytical Analysis for ANL-W Research and Development work and Environmental Compliance.. The generating process is: Debris was generated during decontamination of the ALHC to upgrade the facility to support the Fuel Cycle Facility (FCF).
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	This is a TRU waste packaged to meet the WIPP WAC. Particulate materials were solidified for immobilization.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	AW-W027	Handling:	CH	NMVP #:	N/A	Stream Name:	LEAD CONTAMINATED WASTE	Inventory Date:	4/30/95
Local ID:	CH-ANL-142T	Type:	MTRU	Generator Site:	AW	Final Waste Form:	Combustible	Waste Matrix Code:	S5311

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.0		
Packaging Material Plastic:	11.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-238	1.56E-05
U-235	1.23E-04
Pu-239	6.17E-01
Am-241	7.23E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.6	0.0	0.0	0.6
SWB used to overpack 55 gallon drums	0.0	0.0	1.4	0.0	0.0	1.4
Totals	0.0	0.0	2.0	0.0	0.0	2.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.6	0.0	0.0	0.6
SWB used to overpack 55 gallon drums	0.0	0.0	1.4	0.0	0.0	1.4
Totals	0.0	0.0	2.0	0.0	0.0	2.0

As-Generated Form: Stored: 0.0 Projected: 2.0 Total: 2.0

Final Waste Form: Stored: 0.0 Projected: 2.0 Total: 2.0

WASTE STREAM DESCRIPTION	This waste stream is typically lead lined gloves replaced at the Experimental Fuel Laboratory Glove Box.
WASTE STREAM SOURCE	This waste stream was generated at Lab and Office Building (752) Engineering Fuels Laboratory (EFL)(B147): The EFL houses an experimental fuels casting lab, and areas for small scale testing of experimental processes related to nuclear fuels fabrication.. The generating process is: The EFL houses a glove box that fully contains a small scale nuclear fuel casting process. Because radioactive materials are handled and processed in the glove box, lead gloves are utilized to provide radiation protection.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	AW-W029	Handling:	RH	NMVP #:	N/A	Stream Name:	RSWF TRANSURANIC WASTE	Inventory Date:	4/30/95
Local ID:	CH-ANL-538	Type:	TRU	Generator Site:	AW	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Metal Box (.006cm)	0.01	0.0	0.0	0.0	0.0	0.01
Metal Box (.007cm)	0.01	0.0	0.0	0.0	0.0	0.01
Metal Box (.014cm)	0.01	0.0	0.0	0.0	0.0	0.01
Metal Box (.028cm)	0.1	0.0	0.0	0.0	0.0	0.1
Metal Box (.035cm)	0.1	0.0	0.0	0.0	0.0	0.1
Metal Box (.06cm)	0.1	0.0	0.0	0.0	0.0	0.1
Metal Box (.127cm)	1.1	0.0	0.0	0.0	0.0	1.1
Metal Box (.13cm)	0.6	0.0	0.0	0.0	0.0	0.6
Metal Box (.1cm)	0.1	0.0	0.0	0.0	0.0	0.1
Metal Box (4.1cm)	4.1	0.0	0.0	0.0	0.0	4.1
Totals	6.2	0.0	0.0	0.0	0.0	6.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	17.5	0.0	0.0	0.0	0.0	17.5
Totals	17.5	0.0	0.0	0.0	0.0	17.5

As-Generated Form: Stored: 6.2 Projected: 0.0 Total: 6.2

Final Waste Form: Stored: 17.5 Projected: 0.0 Total: 17.5

WASTE STREAM DESCRIPTION	Radioactive Scrap and Waste Facility (RSWF) Waste containers storing TRU waste from various facilities. Waste includes analytical samples, EBR-I waste, and subassembly hardware.
WASTE STREAM SOURCE	This waste stream was generated at Various ANL Facilities: Various. The generating process is: Various ANL-W historical processes including: Analytical samples, EBR-I waste and subassembly hardware.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	AW-W030	Handling:	CH	NMVP #:	N/A	Stream Name:	FCF TRU (CH) DISCARDED METAL DEBRIS	Inventory Date:	4/30/95
Local ID:	CH-ANL-539	Type:	TRU	Generator Site:	AW	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5420

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.9		
Packaging Material Plastic:	29.5		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	74.5	99.8	85.1	259.4
Totals	0.00	0.0	74.5	99.8	85.1	259.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	66.8	89.4	76.1	232.3
SWB used to overpack 55 gallon drums	0.0	0.0	17.5	23.6	20.3	61.4
Totals	0.0	0.0	84.3	113.1	96.4	293.8

As-Generated Form: Stored: 0.0 Projected: 259.4 Total: 259.4

Final Waste Form: Stored: 0.0 Projected: 293.8 Total: 293.8

WASTE STREAM DESCRIPTION	Contact handled TRU waste to be generated by FCF pyroprocessing demonstration. Radioactive waste which includes solid metals, tools, piping and discarded equipment.
WASTE STREAM SOURCE	This waste stream was generated at Fuel Cycle Facility - Building 765: Nuclear fuel pyroprocessing in support of the Fuel Cycle facility (FCF) operation.. The generating process is: FCF Operations. Generated throughout the facility from maintenance and repair operations. Items include solid metals, tools, piping and discarded equipment.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years. Details on final containers not available because this stream has not been generated yet.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: AW-W031	Handling: RH	NMVP #: N/A	Stream Name: FCF (RH) MISCELLANEOUS TRU WASTE		Inventory Date: 12/30/99
Local ID: CH-ANL-540	Type: TRU	Generator Site: AW	Final Waste Form: Heterogeneous		Waste Matrix Code: S5410

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 1 HFEF canister	0.0	0.0	319.5	480.6	408.5	1208.6
Totals	0.0	0.0	319.5	480.6	408.5	1208.6

As-Generated Form: Stored: 0.0 Projected: 0.0 Total: 0.0

Final Waste Form: Stored: 0.0 Projected: 1208.6 Total: 1208.6

WASTE STREAM DESCRIPTION	Fuel Cycle Facility (FCF) Remote-handled (RH) Radioactive Transuranic Miscellaneous waste: hot laboratory waste, filters, etc. This waste has not been generated yet. Hot startup is scheduled for late FY 95.
WASTE STREAM SOURCE	This waste stream was generated at Fuel Cycle Facility (FCF) Bldg. 765: Nuclear fuel pyroprocessing operations in support of the Fuel Cycle Facility operation.. The generating process is: FCF Hot Laboratory analysis waste to support operations.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	AW-W032	Handling:	CH	NMVP #:	N/A	Stream Name:	FCF TRU (CH) COMBUSTIBLES
Local ID:	CH-ANL-541	Type:	TRU	Generator Site:	AW	Final Waste Form:	Combustible

Inventory Date: 12/30/99

Waste Matrix Code: S5313

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	150.6		
Packaging Material Plastic:	28.3		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

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WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	21.6	29.1	24.8	75.5
SWB used to overpack 55 gallon drums	0.0	0.0	6.6	9.4	8.0	24.1
Totals	0.0	0.0	28.2	38.6	32.8	99.6

As-Generated Form: Stored: 0.0 Projected: 0.0 Total: 0.0

Final Waste Form: Stored: 0.0 Projected: 99.6 Total: 99.6

WASTE STREAM DESCRIPTION	Contact handled TRU waste to be generated by Fuel Cycle Facility pyroprocessing demonstration. This waste is generated in the hot repair facility from decontamination operations. Estimated generation of two drums per year. Normally combustible waste including polyethylene, rags, coveralls, latex gloves,and wood.
WASTE STREAM SOURCE	This waste stream was generated at Fuel Cycle Facility (FCF) Building 765: Nuclear fuel pyroprocessing in support of the Fuel Cycle Facility operation.. The generating process is: FCF Operations. Generated in the hot repair facility from decontamination operations. Items include polyethylene, rags, coveralls, latex gloves, and wood.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	AW-W033	Handling:	CH	NMVP #:	N/A	Stream Name:	ANL-752 TRU WASTE	Inventory Date:	4/30/95
Local ID:	CH-ANL-542	Type:	TRU	Generator Site:	AW	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5490

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	166.7		
Packaging Material Plastic:	21.2		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Analytical Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.3	0.0	0.0	0.0	0.0	2.3
Totals	2.29	0.0	0.0	0.0	0.0	2.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.3	0.0	5.0	4.2	3.5	15.0
SWB used to overpack 55 gallon drums	0.0	0.0	2.8	4.7	4.3	11.8
Totals	2.3	0.0	7.8	8.9	7.8	26.8

As-Generated Form: Stored: 2.3 Projected: 0.0 Total: 2.3

Final Waste Form: Stored: 2.3 Projected: 24.5 Total: 26.8

WASTE STREAM DESCRIPTION	Transuranic waste generated from plutonium casting laboratory (PCL) and Analytical laboratory (AL) Hot cell operations. This waste is typically packged in 55-gallon drums.
WASTE STREAM SOURCE	This waste stream was generated at ANL-752 A-101 and B-147: Building 752 is called the Lab and Office building. It contains offices, cafeteria, and laboratory areas.. The generating process is: The AL Hot Cell is a shielded enclosure used to handle and perform analytical measurements on irradiated fuel and hardware from HFEF. The plutonium casting laboratory (PCL) is used to run experiments for various waste forms realtive to ANL-W operations.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	AW-W034	Handling:	CH	NMVP #:	N/A	Stream Name:	FCF TRU (CH) COMPACTIBLE WASTE
Local ID:	CH-ANL-543	Type:	TRU	Generator Site:	AW	Final Waste Form:	Heterogeneous

Inventory Date: 12/30/99

Waste Matrix Code: S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	149.3		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	71.6	95.7	81.3	248.6
SWB used to overpack 55 gallon drums	0.0	0.0	19.8	28.3	24.1	72.3
Totals	0.0	0.0	91.4	124.0	105.4	320.9

As-Generated Form: Stored: 0.0 Projected: 0.0 Total: 0.0

Final Waste Form: Stored: 0.0 Projected: 320.9 Total: 320.9

WASTE STREAM DESCRIPTION	Contact handled TRU waste to be generated by Fuel Cycle Facility pyroprocessing demonstration. This waste will be generated in the hot repair facility from personnel performing maintenance and normal operations. Items include HEPA filters, conduit, ducting, shoe covers, gloves, and light duty structural materials.
WASTE STREAM SOURCE	This waste stream was generated at Fuel Cycle Facility - Building 765: Nuclear fuel pyroprocessin in support of the Fuel Cycle Facility operations. The generating process is: Fuel Cycle Facility Operations. Generated in the hot repair facility from personnel performing maintenance and normal operations. Items include HEPA filters, conduit, ducting, shoe covers, gloves, and light duty structural materials.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	AW-W035	Handling:	RH	NMVP #:	N/A	Stream Name:	FCF (RH) TRU GLASS-METAL WASTE	Inventory Date:	4/30/95
Local ID:	CH-ANL-544	Type:	TRU	Generator Site:	AW	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5122

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
HFEF Canister	0.0	0.0	1.0	2.0	1.8	4.8
Totals	0.00	0.0	1.0	2.0	1.8	4.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 1 HFEF canister	0.0	0.0	4.4	8.9	8.0	21.4
Totals	0.0	0.0	4.4	8.9	8.0	21.4

As-Generated Form: Stored: 0.0 Projected: 4.8 Total: 4.8

Final Waste Form: Stored: 0.0 Projected: 21.4 Total: 21.4

WASTE STREAM DESCRIPTION	Remote Handled TRU waste to be generated from Fuel Cycle Facility (FCF) pyroprocessing activities. Broken quartz molds from injection casting of new fuel pins are mixed with scrap fuel alloy. Items include glass scrap and some metal scrap.
WASTE STREAM SOURCE	This waste stream was generated at Fuel Cycle Facility - Building 765: Nuclear Fuel pyroprocessing in support of the Fuel Cycle Facility Operation. The generating process is: FCF Operations.Broken quartz molds from injection casting of new fuel pins are mixed with scrap fuel alloy. Items include glass scrap and some metal scrap.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	The volume to be generated is very small, therefore, sporadic waste generation seems like a correct assumption.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	AW-W012	Handling:	RH	NMVP #:	N/A	Stream Name:	ELECTROREFINER STRIPPED SALT - Ba AND Cd	Inventory Date:	4/30/95
Local ID:	CH-ANL-218T	Type:	MTRU	Generator Site:	AW	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3141

AS-GENERATED EPA CODES

D006, D005

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	4.4	8.7	1.9	15.0
Totals	0.00	0.0	4.4	8.7	1.9	15.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	0.0	0.0	6.2	12.5	2.7	21.4
Totals	0.0	0.0	6.2	12.5	2.7	21.4

As-Generated Form: Stored: 0.0 Projected: 15.0 Total: 15.0

Final Waste Form: Stored: 0.0 Projected: 21.4 Total: 21.4

WASTE STREAM DESCRIPTION	This waste stream consists of chloride salts containing residual amounts of cadmium and barium. This waste stream will be generated from the Fuel Cycle Facility operations.
WASTE STREAM SOURCE	This waste stream was generated at ANL-765, Fuel Cycle Facility (FCF): Nuclear fuel pyroprocessing operations in support of the Fuel Cycle Facility (FCF) operation.. The generating process is: Spent salt compound (chlorides of Li, Na, Ba, and Cd) from the electrorefiner station in the IFR fuel cycle.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Barium and possibly cadmium will contaminate this waste. Concentrations will not be known until the waste is generated.
MANAGEMENT COMMENTS	Remote Handled
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	AW-W016	Handling:	RH	NMVP #:	N/A	Stream Name:	ELECTROREFINER STRIPPED CADMIUM	Inventory Date:	4/30/95
Local ID:	CH-ANL-245T	Type:	MTRU	Generator Site:	AW	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3150

AS-GENERATED EPA CODES

D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
HFEF Canister	0.0	0.0	0.2	0.4	0.4	1.0
Totals	0.00	0.0	0.2	0.4	0.4	1.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 1 HFEF canister	0.0	0.0	0.9	1.8	1.8	4.4
Totals	0.0	0.0	0.9	1.8	1.8	4.4

As-Generated Form: Stored: 0.0 Projected: 1.0 Total: 1.0

Final Waste Form: Stored: 0.0 Projected: 4.4 Total: 4.4

WASTE STREAM DESCRIPTION	This waste stream consists of encapsulated waste cadmuim metal. This waste stream will be generated from future activities in the Electrorefiner station in the ANL-W Fuel Cycle Facility.
WASTE STREAM SOURCE	This waste stream was generated at ANL-765, Fuel Cycle Facility (FCF): Nuclear fuel pyroprocessing.. The generating process is: Spent cadmium with impurities from the electrorefiner station at the Fuel Cycle Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Cadmium will contaminate this waste. Concentrations will not be known until the waste is generated.
MANAGEMENT COMMENTS	Alpha Contamination. Remote Handled.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	AW-W020	Handling:	RH	NMVP #:	N/A	Stream Name:	TRU-CD-HOT CELL WASTE	Inventory Date:	4/30/95
Local ID:	CH-ANL-241T	Type:	MTRU	Generator Site:	AW	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3113

AS-GENERATED EPA CODES

D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Metal Box (.1cm)	0.1	0.0	0.0	0.0	0.0	0.1
Metal Box (.59cm)	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.7	0.0	0.0	0.0	0.0	0.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	1.8	0.0	0.0	0.9	0.9	3.6
Totals	1.8	0.0	0.0	0.9	0.9	3.6

As-Generated Form: Stored: 0.7 Projected: 0.0 Total: 0.7

Final Waste Form: Stored: 1.8 Projected: 1.8 Total: 3.6

WASTE STREAM DESCRIPTION	This waste stream consisted of metallic cadmium, salts, and associated cleanup materials (paper towels and cloth rags). The waste is contaminated with activation and fission products as well as with plutonium. This waste stream is generated for Fuel Cycle Facility Demonstration support experiments; the analysis of fuels in the hot cells. Previous waste is stored in the Radioactive Scrap and Waste Facility in two liners. Future waste generation will be small because evaporation as part of the process will be done in the hot cell to minimize the volume.
WASTE STREAM SOURCE	This waste stream was generated at ANL-785, Hot Fuel Examination Facility (HFEF): Examinations conducted in the HFEF provide data that are essential for detmining the performance of fuels and materials irradiated in the EBR-II Reactor.. The generating process is: This waste stream is generated from Fuel Cycle Facility demonstration support experiments. Small scale test of equipment to be used in the FCF electrorefiner generated the waste.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The waste is generated from analytical analysis.
MANAGEMENT COMMENTS	Alpha Containment
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	*All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.*

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	AW-W021	Handling:	RH	NMVP #:	N/A	Stream Name:	ELEMENT HARDWARE FCF WASTE	Inventory Date:	4/30/95
Local ID:	CH-ANL-243T	Type:	MTRU	Generator Site:	AW	Final Waste Form:	Lead/Cadmium Metal Waste	Waste Matrix Code:	S3190

AS-GENERATED EPA CODES

D006, D005, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	1.2	1.2	1.9	4.4
Totals	0.0	0.0	1.2	1.2	1.9	4.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	0.0	0.0	1.8	1.8	2.7	6.2
Totals	0.0	0.0	1.8	1.8	2.7	6.2

As-Generated Form: Stored: 0.0 Projected: 4.4 Total: 4.4

Final Waste Form: Stored: 0.0 Projected: 6.2 Total: 6.2

WASTE STREAM DESCRIPTION	This waste stream will consist of small pieces (< 60 mm in diameter) of stainless steel from nuclear fuel. This waste stream will be generated from the "Element Chopper" station at the ANL-W Fuel Cycled Facility. The fuel element ends may contain sollum and will be treated to remove sodium and stabilize cadmium. The plan for this waste stream (which has not been generated) is to either immobilize or recover the cadmium as a part of the waste processing phase of the project. This will meet the EPA disposal criteria for cadmium waste streams (FCF FSAR).
WASTE STREAM SOURCE	This waste stream was generated at ANL-765, Fuel Cycle Facility (FCF): Nuclear fuel pyroprocessing.. The generating process is: The FCF Element Chopper station will cut off ends of irradiated nuclear fuel elements. The fuel will be removed, leaving stainless element cladding and plenum pieces.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Barium, cadmium, and sodium may contaminate this waste. Concentrations will not be known until the waste is generated.
MANAGEMENT COMMENTS	Alpha Contamination
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	AW-W022	Handling:	RH	NMVP #:	N/A	Stream Name:	ELECTROREFINER INSOLUBLES W/ CADMIUM	Inventory Date:	4/30/95
Local ID:	CH-ANL-246T	Type:	MTRU	Generator Site:	AW	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3119

AS-GENERATED EPA CODES

D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

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WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	0.0	0.6	0.6
Totals	0.0	0.0	0.0	0.0	0.6	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	0.0	0.0	0.0	0.0	0.9	0.9
Totals	0.0	0.0	0.0	0.0	0.9	0.9

As-Generated Form: Stored: 0.0 Projected: 0.6 Total: 0.6

Final Waste Form: Stored: 0.0 Projected: 0.9 Total: 0.9

WASTE STREAM DESCRIPTION	This waste stream consists of cadmium metal with other heavy metals & "noble" metals (they are not reactive in the FCF electrorefining process). This waste stream will be generated from the Electrorefiner station in the ANL-W Fuel Cycle Facility processes. This waste stream includes inorganic sludges/particulates. The plan for this waste stream (which has not been generated) is to either immobilize or recover the cadmium as a part of the waste processing phase of the project. This will meet the EPA disposal criteria for cadmium waste streams (FCF FSAR).
WASTE STREAM SOURCE	This waste stream was generated at ANL-765, Fuel Cycle Facility (FCF): Nuclear fuel pyroprocessing.. The generating process is: Insoluble impurities are extracted from process salt compounds in the electrorefiner.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Cadmium will contaminate this waste. Concentrations will not be known until the waste is generated.
MANAGEMENT COMMENTS	Alpha Contamination
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

BC Battelle Columbus Laboratories

DOE/CAO-95-1121
December 1995

BATTELLE COLUMBUS LABORATORY

Location and Description

The Battelle Columbus Laboratory (BC) consists of two research complexes; one at 505 King Avenue in the city of Columbus, Ohio, and the second, the West Jefferson Site, in Madison County west of Columbus. The King Avenue facility houses corporate offices and general research laboratories. The West Jefferson site consists of a number of facilities formerly dedicated to nuclear research.

The King Avenue Facility is located in the western central portion of the city of Columbus. The 10-acre complex accommodates 21 buildings and is bounded on the north by King Avenue, on the east by Battelle Boulevard, on the south by Fifth Avenue, and on the west by the Olentangy River. The Columbus campus of Ohio State University lies immediately north across King Avenue. The remaining contiguous area is a moderately dense residential neighborhood.

The West Jefferson Site is located in West Jefferson, Ohio, approximately 24 kilometers west of the King Avenue Facility. The 1000-acre tract accommodates 21 buildings in the Engineering Area, Experimental Ecology Area, and Nuclear Services Area. The site boundary on the north is about one mile south of I-70, on the east is Big Darby Creek, on the south are the Conrail tracks, and on the west is the Georgeville-Plain City Road. The land to the north, west, and south for two miles is cleared farmland and/or woodlots.

Mission

The mission of Battelle in 1943 was to perform atomic energy research and development (R&D) activities for the Manhattan Engineering District. Since that time Battelle has continuously performed R&D at these facilities. Past programs have included uranium ore processing and benefaction studies, metallurgical and ceramic process development, corrosion studies, fabrication of weapons components, ballistics experiments, hot cell work, critical assembly and criticality experiments, and an experimental reactor.

Waste Information

Processes

The main DOE-sponsored work currently being done at BC is decontamination and decommissioning (D&D) of the contaminated buildings under the direction of the Battelle Columbus Laboratory Decommissioning Project (BCLDP).

Modifications/Assumptions/Development

Waste streams that are expected to be directly shipped to WIPP (upon WIPP–WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double– counting these streams as both "as generated currently stored" and "final form projected."

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	BC-T001	Handling:	RH	NMVP #:	N/A	Stream Name:	RH/TRU RUBBLE/DEBRIS	Inventory Date:	
Local ID:		Type:	TRU	Generator Site:	BC	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	2000.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	484.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues:

Asbestos: Unknown

PCBs: Unknown

Source: Remediation/D&D Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-238	2.90E-03
Co-60	3.00E+01
Cs-134	5.80E-01
Cs-137	6.20E-01
I-129	2.40E-07
Ce-144	4.70E+00
Nb-95	4.70E+00
Zr-95	3.00E+00
Pu-239	3.70E-04
Pu-240	4.80E-04
Pu-241	1.40E-01
Ru-106	4.80E+00
Sr-90	3.50E-01
U-235	2.40E-07
U-238	1.70E-05
Kr-85	6.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister /	580.5	0.0	0.0	0.0	0.0	580.5
Totals	580.5	0.0	0.0	0.0	0.0	580.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	580.5	0.0	0.0	0.0	0.0	580.5
Totals	580.5	0.0	0.0	0.0	0.0	580.5

As-Generated Form: Stored: 580.5 Projected: 0.0 Total: 580.5

Final Waste Form: Stored: 580.5 Projected: 0.0 Total: 580.5

WASTE STREAM DESCRIPTION	Heterogeneous Debris
WASTE STREAM SOURCE	$ RHTRU $ RUBBLE/DEBRIS WITH TRU
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Process knowledge indicates the absence of Asbestos, PCBs, and RCRA contaminants. Laboratory analysis will need to be performed when this waste is generated to verify assumption.
MANAGEMENT COMMENTS	The generation of this D & D Wastestream is dependant on project funding, which is currently not in place.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	The number of containers currently in storage has not been packaged and is stored in Hot Cells. It is anticipated that this waste will be packaged into RH Canisters.

BT Bettis Atomic Power Laboratory

BETTIS ATOMIC POWER LABORATORY

Location and Description

Bettis Atomic Power Laboratory (BT) is located on a 0.82 km^2 tract on a plateau above the Monogahela River in West Mifflin, Pennsylvania, about 13 km southeast of Pittsburgh. The Laboratory is operated for the DOE by the Westinghouse Electric Corporation. BT is a component of the Naval Nuclear Propulsion Program, and provides basic research and design support for naval nuclear propulsion reactors for Navy submarines. Laboratory operations include development and testing of nuclear fuel materials and reactor materials including radiochemical analyses.

Mission

The primary mission of BT is the design and testing of naval nuclear propulsion reactors and reactor components.

Waste Information

Processes

BT manages limited quantities of TRU waste, including RH inserts containing TRU irradiated fuel grinding fines and CH sources. BT is currently undergoing action to decontaminate large test components to below the TRU waste definition limits, thereby concentrating the TRU residuals into the smallest possible volume.

Modifications/Assumptions/Development

Waste streams that are expected to be directly shipped to WIPP (upon WIPP–WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double– counting these streams as both "as generated currently stored" and "final form projected."

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	BT-T001	Handling:	RH	NMVP #:	N/A	Stream Name:	Irradiated TRU material waste	Inventory Date:	12/31/94
Local ID:	BT-T001	Type:	TRU	Generator Site:	BT	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5420

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	425.0	350.0	500.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	10.0	0.0	20.0
Rubber:	0.0	0.0	0.0
Plastics:	450.0	350.0	550.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	1.05E+03
Sr-90	1.05E+03
Pu-238	5.00E+01
Pm-147	3.50E+02
Ni-63	1.50E+02
Kr-85	5.00E+01
Fe-55	5.00E+01
Eu-154	5.00E+01
Eu-152	5.00E+01
Cs-137	1.05E+03
Cs-134	5.00E+01
Co-60	5.00E+01
Ba-137m	1.00E+03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.0	0.8	0.6	0.1	0.0	1.6
Totals	0.0	0.8	0.6	0.1	0.0	1.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	0.0	3.6	2.7	0.4	0.0	6.7
Totals	0.0	3.6	2.7	0.4	0.0	6.7

As-Generated Form: Stored: 0.0 Projected: 1.6 Total: 1.6

Final Waste Form: Stored: 0.0 Projected: 6.7 Total: 6.7

WASTE STREAM DESCRIPTION	Specimen processing fines, material, and debris.
WASTE STREAM SOURCE	Specimen processing fines, material, and debris resulting from operations involving destructive evaluations of irradiated fuel specimens.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	No regulated contaminants present in waste stream.
MANAGEMENT COMMENTS	Bettis is not a long-term storage facility. TRU will be shipped off-site as directed by DOE-HDQ.
ACCEPTANCE COMMENTS	Data date is 12/31/94.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	BT-T002	Handling:	CH	NMVP #:	N/A	Stream Name:	Contaminated Piping System	Inventory Date:	12/31/94
Local ID:	BT-T002	Type:	TRU	Generator Site:	BT	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	430.0	340.0	500.0
Aluminum-base Metal/Alloys:	35.0	28.0	40.0
Other Metals/Alloys:	1.0	0.0	10.0
Other Inorganic Material:	1.0	0.0	5.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	1.0
Rubber:	7.0	6.0	10.0
Plastics:	35.0	30.0	40.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	1.0	0.0	10.0
Packaging Material Steel:	154.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	1.10E+00
Sr-90	1.10E+00
Pu-238	1.00E-01
Pm-147	4.00E-01
Ni-63	2.00E-01
Kr-85	1.00E-01
Fe-55	1.00E-01
Eu-154	1.00E-01
Eu-152	1.00E-01
Cs-137	1.10E+00
Cs-134	1.00E-01
Co-60	1.00E-01
Ba-137m	1.10E+00

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WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box /	0.0	0.0	11.3	3.8	0.0	15.1
Totals	0.0	0.0	11.3	3.8	0.0	15.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	0.0	0.0	11.3	3.8	0.0	15.1
Totals	0.0	0.0	11.3	3.8	0.0	15.1

As-Generated Form: Stored: 0.0 Projected: 15.1 Total: 15.1

Final Waste Form: Stored: 0.0 Projected: 15.1 Total: 15.1

WASTE STREAM DESCRIPTION	Piping, pumps, tanks, and other metal items, and debris.
WASTE STREAM SOURCE	Piping, pumps, tanks, other metal items, and debris from shutdown of obsolete systems.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	No regulated contaminants present in waste stream.
MANAGEMENT COMMENTS	Bettis is not a long-term storage facility. TRU will be shipped off-site as directed by DOE-HDQ. No values are provided in 5.1.3 because the future generation will be after 1999.
ACCEPTANCE COMMENTS	Data date is 12/31/94.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	BT-T003	Handling:	CH	NMVP #:	N/A	Stream Name:	Unirradiated Alpha Contaminated Waste	Inventory Date:	12/31/94
Local ID:	BT-T003	Type:	TRU	Generator Site:	BT	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	285.0	200.0	700.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	16.0	11.0	40.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	8.0	5.0	20.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	154.0		
Packaging Material Plastic:	8.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-233	9.70E-02
U-232	2.00E-03
Th-228	2.00E-03
Rn-220	2.00E-03
Ra-224	2.00E-03
Po-216	2.00E-03
Po-212	2.00E-03
Pb-212	2.00E-03
Bi-212	2.00E-03

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WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box /	0.0	43.5	64.3	0.0	0.0	107.7
Totals	0.0	43.5	64.3	0.0	0.0	107.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	0.0	43.5	64.3	0.0	0.0	107.7
Totals	0.0	43.5	64.3	0.0	0.0	107.7

As-Generated Form: Stored: 0.0 Projected: 107.7 Total: 107.7

Final Waste Form: Stored: 0.0 Projected: 107.7 Total: 107.7

WASTE STREAM DESCRIPTION	Steel gloveboxes, ceramic and steel furnaces, steel presses, steel grinding machines, steel ventilation ducts, and HEPA filters.
WASTE STREAM SOURCE	Steel gloveboxes, ceramic and steel furnaces, steel presses, steel grinding machines, steel ventilation ducts, and HEPA filters from shutdown of obsolete systems.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	No regulated contaminants present in waste stream.
MANAGEMENT COMMENTS	Bettis is not a long-term storage facility. TRU will be shipped off-site as directed by DOE-HDQ.
ACCEPTANCE COMMENTS	Data date is 12/31/94.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	BT-T004	Handling:	CH	NMVP #:	N/A	Stream Name:	Americium-243 Source	Inventory Date:	12/31/94
Local ID:	BT-T004	Type:	TRU	Generator Site:	BT	Final Waste Form:	Heterogeneous	Waste Matrix Code:	Z1110

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	4.8	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Np-239	3.20E+00
Am-243	3.20E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.0	0.2	0.0	0.0	0.0	0.2
Totals	0.0	0.2	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.2	0.0	0.0	0.0	0.2
Totals	0.0	0.2	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.0 Projected: 0.2 Total: 0.2

Final Waste Form: Stored: 0.0 Projected: 0.2 Total: 0.2

WASTE STREAM DESCRIPTION	Americium-243 Source.
WASTE STREAM SOURCE	Americium-243 Source used as a standard.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	No regulated contaminants present in waste stream.
MANAGEMENT COMMENTS	Bettis is not a long-term storage facility. TRU will be shipped off-site as directed by DOE-HDQ.
ACCEPTANCE COMMENTS	Data date is 12/31/94.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	BT-T005	Handling:	CH	NMVP #:	N/A	Stream Name:	Californium-252 Source	Inventory Date:	12/31/94
Local ID:	BT-T005	Type:	TRU	Generator Site:	BT	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	15.4	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
MFP	6.30E-01
Cm-248	4.30E-02
Cf-252	1.00E+00
Cf-251	9.00E-02
Cf-250	5.60E+00
Cf-249	3.50E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.0	0.2	0.0	0.0	0.0	0.2
Totals	0.0	0.2	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.2	0.0	0.0	0.0	0.2
Totals	0.0	0.2	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.0 Projected: 0.2 Total: 0.2

Final Waste Form: Stored: 0.0 Projected: 0.2 Total: 0.2

WASTE STREAM DESCRIPTION	Californium-252 Source.
WASTE STREAM SOURCE	Californium-252 Source used as a standard.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	No regulated contaminants present in waste stream.
MANAGEMENT COMMENTS	Bettis is not a long-term storage facility. TRU will be shipped off-site as directed by DOE-HDQ.
ACCEPTANCE COMMENTS	Data date is 12/31/94.
FINAL FORM COMMENTS	N/A

ET Energy Technology Engineering Center

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ENERGY TECHNOLOGY ENGINEERING CENTER

Location and Description

Energy Technology Engineering Center (ET) occupies 90 acres of 290 acres of land shared with the Santa Susana Field Laboratory. The Santa Susana site is composed of a total of 2,700 acres located in the Simi Hills of Ventura County, approximately 48 kilometers northwest of downtown Los Angeles, California. Both DOE and the Rocketdyne Division of Rockwell International Corp. own facilities within this area. The Rockwell facilities include former fuel fabrication facilities, a hot cell, a reactor test building, a storage vault, an on-site transport cask, and other radiologically contaminated support laboratories and areas.

Mission

ET provides facilities for the testing of equipment, materials, and components for nuclear and other energy programs. Components include steam generators, pumps, valves, instrumentation, and other support elements for power plant design. Various types of testing include reliability, seismic, and performance demonstrations. Current activities include non-nuclear testing, and cleanup and environmental restoration from prior nuclear testing programs, such as decontamination and decommissioning of an NRC-licensed hot cell that was used for DOE activities.

Waste Information

Processes

ET TRU waste streams are CH waste comprised of absorbent materials plastics, rags, and other laboratory disposal solids. A second waste stream of similar composition was generated during DOE fuel decladding and decontamination and decommissioning operations. The second waste stream includes a small quantity of lead.

Modifications/Assumptions/Development

Waste streams that are expected to be directly shipped to WIPP (upon WIPP–WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double– counting these streams as both "as generated currently stored" and "final form projected."

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	ET-W002	Handling:	RH	NMVP #:	NA	Stream Name:	Hot Lab & PU Facility D&D	Inventory Date:	4/15/95
Local ID:	ET	Type:	MTRU	Generator Site:	ET	Final Waste Form:	Lead/Cadmium Metal Waste	Waste Matrix Code:	S5112

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Sr-90	1.00E+00
Pu-242	1.50E-04
Pu-241	3.50E+01
Pu-240	2.60E+00
Pu-239	7.60E+00
Pu-238	4.60E-01
Cs-137	1.10E+00
Am-241	1.90E+00

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WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	0.9	0.0	0.0	0.0	0.0	0.9
Totals	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.9 Projected: 0.0 Total: 0.9

WASTE STREAM DESCRIPTION	Generated after DOE fuel decladding operations and the clean-up of facilities. Waste consists of a single 85-lb lead brick with surface transuranic contamination with other lead shielding and other waste (metals,filter,vermiculite and trash). Radiological contamination includes fission (Cs-137, Sr-90) and TRU (Pu-238/242, Am-241) . The waste was packaged to the 1989 Idaho WIPP criteria in a single 55-gal drum . Waste stream is no longer generated.
WASTE STREAM SOURCE	Clean-up of Hot Lab at end of operations and before start of D&D activities.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The drum contains a lead brick and other lead shielding, all radiologically contaminated, based on process knowledge and X-ray examination of the drum. There is no CPC Code. Section 3.4.5 should be provided with selection option of : "NONE"
MANAGEMENT COMMENTS	This W.S. was packaged to Idaho WIPP 1989 criteria. Options are being considered for removal of the lead brick and lead shielding from the drum. However, ETEC has no longer the capability (hot cell of glove box) to package TRU contaminated materials.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	This W.S. and other was originally packaged and certified in 1989 to Idaho WIPP by INL personnel under contract to ETEC. Some of this waste was shipped to Idaho in 1989, the remainder (this W.S. and W.S. ET-W027) is currenly sored at ETEC pending DOE disposition. ETEC is not certified to package waste to WIPP criteria and has no hot cell/glove box capability to handle such waste. Therefore Sections 8.2.7, 8.2.8, 8.2.14.1.13, 8.2.14.1.14 are left incomplete.

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	ET-W027	Handling:	CH	NMVP #:	NA	Stream Name:	Hot Lab & PU Facility D&D	Inventory Date:	4/15/95
Local ID:	ET	Type:	TRU	Generator Site:	ET	Final Waste Form:	Heterogeneous	Waste Matrix Code:	Z2000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-234	2.00E-04
Sr-90	8.50E-03
Pu-241	5.00E-01
Pu-240	2.00E-02
Pu-239	8.00E-02
Pu-238	1.20E-02
Cs-137	8.50E-03
Am-241	1.50E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	1.7	0.0	0.0	0.0	0.0	1.7
Totals	1.7	0.0	0.0	0.0	0.0	1.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.7	0.0	0.0	0.0	0.0	1.7
Totals	1.7	0.0	0.0	0.0	0.0	1.7

As-Generated Form: Stored: 1.7 Projected: 0.0 Total: 1.7

Final Waste Form: Stored: 1.7 Projected: 0.0 Total: 1.7

WASTE STREAM DESCRIPTION	Generated after DOE fuel decladding operations and the clean-up of facilities. Waste inlude soft trash (paper, plastic, rubber), small lab equipment, filters, metal item, vermiculite, solidified oil. Radiological contamination includes fission (Cs-137, Sr-90) and TRU (Pu-238/242,Am-241). The waste was packaged to the 1989 Idaho WIPP criteria in a single 55-gal drum . Waste stream is no longer generated.
WASTE STREAM SOURCE	Wastes generated from the clean-up of the Plutonium Facility (Bldg 55) and the Hot Lab (Bldg 20) at the end of operations, but before any D&D activities.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The radiological contamination is based on process knowledge and analysis of the packaged waste. There is no CPC Code. Section 3.4.5 should be provided with selection option of : "NONE"
MANAGEMENT COMMENTS	This W.S. was packaged to Idaho WIPP 1989 criteria. Options for shipping the waste to a suitable site are being considered by DOE.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	This W.S. and other was originally packaged and certified in 1989 to Idaho WIPP by INL personnel under contract to ETEC. Some of this waste was shipped to Idaho in 1989, the remainder (this W.S. and W.S. ET-W002) is currenly stored at ETEC pending DOE disposition. ETEC is not certified to package waste to WIPP criteria and has no hot cell/glove box capability to handle such waste. Therefore Sections 8.2.7, 8.2.8, 8.2.14.1.13, 8.2.14.1.14 are left incomplete.

IN Idaho National Engineering Laboratory

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DOE/CAO-95-1121
December 1995

IDAHO NATIONAL ENGINEERING LABORATORY

Location and Description

The Idaho National Engineering Laboratory (IN) is located in two primary areas: (1) the remote areas known as "the Site" along the northern edge of the Snake River Plain in southeastern Idaho, and (2) multiple locations southeast of the Site in the City of Idaho Falls. Lying at the foot of the Lost River, Lemhi, and Bitterroot-Centennial Mountain ranges, the Site covers nearly 2300 square kilometers (890 mi^2) of dry, cool desert. Most of the land withdrawn from public domain for use by the U.S. Department of Energy (DOE) is undeveloped. The facilities located in Idaho Falls include administrative, scientific support, and non-nuclear research laboratories.

During World War II, the U.S. Navy and U.S. Army Air Corps used a portion of the present Site as a gunnery range. In 1949, the Site was formally established as the National Reactor Testing Station (NRTS), a place where the Atomic Energy Commission (AEC) could build, test, and operate various types of nuclear reactors. Fifty-two reactors have been built at the INEL; of these, seven are operating or operable.

The Radioactive Waste Management Complex (RWMC) encompasses 144 acres in the southwestern corner of the INEL. The RWMC was established in 1952 as a controlled area for burial of solid radioactive wastes generated by INEL operations. In 1954, the burial ground was designated as a solid transuranic (TRU) waste disposal site. Until 1970, all TRU was buried below grade at the RWMC. In November 1970, the Transuranic Storage Area (TSA) was established for retrievable storage of waste contaminated with greater than 10 nanocuries (nCi) of TRU alpha activity per gram of waste. In November 1976, the Intermediate Level TRU Storage Facility (ILTSF) was established for retrievable storage of remote-handled (RH) TRU contaminated waste (greater than 200 millirem per hour). At the ILTSF the radioactive waste is stored in abovegrade vaults.

The DOE/Idaho Operations Office administers the INEL excluding Argonne National Laboratory-West. The current operator for the majority of the facilities is Lockheed Martin Idaho Technologies.

Mission

The INEL is a multiprogram laboratory and has provided innovative technologies, defense-related support and unique scientific and engineering capabilities to the nation. At present, areas of primary emphasis include nuclear reactor technology research and development, waste management and environmental restoration, advanced energy production and utilization technology development, defense-related support, technology transfer, and non-nuclear research and development projects. Development, transfer, and deployment of technologies to avoid and/or dispose of hazardous and/or radioactive waste and for remediation/restoration of previous disposal sites to protect the public, employees, and environment are also part of INEL's mission.

Waste Information

Processes

Solid TRU waste generated in national defense programs and research activities was buried or stored at the RWMC. This TRU waste typically includes cloth, paper, plastics, metals, rubber, sludge, ad concrete. TRU waste received at the INEL from November 1970 through July 1980 was placed on asphalt pads and covered with an earthen-cover to protect the waste from the environment until it could be permanently disposed. Waste received after this timeframe was placed in air-supported buildings for interim storage.

The Stored Waste Examination Pilot Plant (SWEPP) was constructed in 1984 and provides a facility for the nondestructive examination and assay (NDE/NDA) of TRU-contaminated wastes. The facility operated at production levels (5,000 drums per year) from August 1985 through September 1989. In 1989, the facility was placed in standby due to the change sin the Waste Isolation Pilot Plant (WIPP) Waste Acceptance Criteria (WAC). The WAC requirements were changed in 1989 to include the requirements of the Transuranic Package Transport (TRUPACT-II). The facility has remained in standby condition with the exception of the waste required to support the WIPP Waste Characterization Program.

The TSA Retrieval Enclosure (RE) is being constructed over the top of the earthen-covered waste and will allow year-round retrieval operations. The facility is expected to be completed in fiscal year 1997. Retrieval rates for the facility are expected to be 20,000 drum equivalents (DE) per year. Retrieval of all earthen-covered waste in the TSA is expected to be completed between 2010 and 2014.

In 2003, all INEL TRU-contaminated waste in storage is expected to be treated at the Advanced Mixed Waste Treatment Facility for disposal at WIPP. The processing rate for the facility is expected to be approximately 5,000 m^3 per year with a volume reduction of about 65%.

Due to the Spent Nuclear Fuel Settlement Agreement which was signed with the State of Idaho, DOE has agreed to ship 3,100 m^3 (15,000 DE) of untreated waste from the INEL by 12/31/2002. After 1/01/2003, the INEL is required to ship a running average of 2,000 m^3 of stored inventory per year. All TRU waste stored at the INEL is required to be out of the state no later than 12/31/2018.

Notes on the INEL Reporting Format

The INEL data submittal did not provide any information on the type and number of currently stored containers for each waste stream reported in the TWBIR Rev. 2. The only information about stored containers included in the site submittal was the type and the total number of containers for each *unsegregated* waste stream as it currently exists at the site. In general, for the purposes of reporting for the Rev. 2 data submittal, each of the *unsegregated* streams have been segregated by INEL into two or more sub-streams to be shipped to WIPP. As a result, there has been a substantial increase in the number of streams reported for TWBIR Rev. 2 as compared to WTWBIR Rev. 1.

The first basis for segregation into sub-streams is whether the unsegregated waste stream contains a mixture of CH-TRU and RH-TRU waste, followed by whether it requires repackaging or treatment prior to shipment to WIPP, or whether there is a portion of it that can be certified and shipped directly without any need for either repackaging or treatment. The site nomenclature for an unsegregated waste stream is **IN-W*XYZ***, whereas the nomenclature for any sub-streams resulting from this unsegregated stream is of the format **IN-W*XYZ.ABC*** etc. The fraction of the original unsegregated waste stream that is included in each sub-stream reported in the TWBIR Rev. 2 is stated under the Waste Stream Source description in each INEL waste stream profile. The Waste Stream Source description for a sub-stream also includes the phrases "Direct-ship" (i.e., it is certifiable and planned to be directly shipped to WIPP),"Cert-repack" (i.e., it will be certifiable upon repackaging) and "Uncertifiable" which refers to those sub-streams that will require treatment in order to become certifiable to the WIPP-WAC.

Notes on As-generated Containers

Since INEL did not submit any break-up of as-generated containers on a TWBIR sub-stream basis, this information has been derived (with the site's permission) from the percentages reported for each sub-stream in the Waste Stream Source description. For unsegregated waste streams with very small volumes (e.g., 1 to 10 drums), it was not always possible to precisely match the percentages reported in the source descriptions and allocate as-generated containers to each sub-stream. In such cases, the number of as-generated containers has been rounded off to the nearest integer. The as-generated volume of waste has been calculated using the same assumptions that have been used by the site, which is 0.212 m^3 for all drums, 3.17 m^3 for all boxes, 3.5 m^3 for all bins, and 0.212 m^3 for all inserts. However, for final waste form containers to be shipped to WIPP, the site assumed 0.208 m^3 as the volume of a 55-gallon drum. Because of the different assumptions for the volume of a drum between the as-generated waste and the final waste form, there may be minor discrepancies in the waste stream profiles for sub-streams that can be certified and shipped to WIPP without any repackaging or treatment.

Notes on Waste Material Parameters

INEL did not submit any waste material parameter data as part of the TWBIR Rev. 2 data submittal. Based on consultation and agreement with site representative(s), the TWBIR team has matched the waste streams reported in the Rev. 2 data submittal with their counterparts in Rev. 1 and thus assigned waste material parameters for each stream wherever possible.

Notes on the Final Waste Form Volume

Except for the waste streams that are expected to be directly shipped (upon WIPP-WAC certification) without any need for repackaging or treatment, no other waste streams are currently stored in final form. The uncertifiable streams are projected to be repackaged or treated at the site *at a later date*, as required, in order to be certifiable to the WIPP-WAC prior to their shipment to WIPP. However, for the purpose of reporting on the waste stream profiles, these uncertifiable streams are presented as "currently stored" in final form in order to avoid the error of double-counting these streams as both "currently stored" and "projected".

Notes on Waste Stream Description

The waste stream description applies only to the unsegregated waste stream and is therefore the same for all sub-streams that originate from a given unsegregated waste stream.

Notes on Handling Characteristics of Final Waste Form Containers

The handling characteristics (i.e., CH versus RH) of some of the waste streams may seem inconsistent with the waste stream description. This is because the handling (CH or RH) reflects the *expected* characteristics of the stream after it is repackaged or treated to meet the WIPP-WAC, whereas the waste stream description applies only to the unsegregated waste stream prior to any repackaging or treatment. All *apparent* discrepancies noted in the handling characteristics of a waste stream were brought to the site's attention during the BIR data review process, and the INEL site representative confirmed that the *expected* characteristics of the final form is what is presented in the data submittal.

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W139	Handling:	CH	NMVP #:	N/A	Stream Name:	TRANSURANIC CONTAMINATED LEAD DEBRIS	Inventory Date:	
Local ID:	ID-INL-142T	Type:	MTRU	Generator Site:	IN	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	2.08E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	0.0	0.0	0.0	0.0	0.0	0.0
Drum	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	12.3	0.0	0.0	0.0	0.0	12.3
Totals	12.3	0.0	0.0	0.0	0.0	12.3

As-Generated Form: Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form: Stored: 12.3 Projected: 0.0 Total: 12.3

WASTE STREAM DESCRIPTION	In 1983, EAD Metallurgical, Inc. of New York state, a NRC licensee, sold to a company in Mexico the workings of a smoke detector factory. Included in the contract was an agreement that the seller would assemble the plant in Mexico and train the owner/operator. After the materials were received in Mexico, the original owner refused to fulfill contractual obligations, which originated legal proceedings that eventually failed. Escalation of the problem through normal channels finally involved the governments of the two nations which concluded in the DOE assuming ownership of the material in 1986. After government negotiations, DOE-ID was instructed by DOE-HQ to retrieve the material. The material, declared as defense waste, is now stored at the INEL. The waste is TRU waste from the workings of a smoke detector factory and includes clothing, metals, and contaminated process equipment. The waste is a mixed waste that contains miscellaneous lead shielding, lead pigs, and lead sheeting throughout the waste.
WASTE STREAM SOURCE	This waste stream was generated at Mexico - Smoke detector factory: Manufacturing. The generating process is: Manufacturing of smoke detectors.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	TRU
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W146	Handling:	CH	NMVP #:	N/A	Stream Name:	TRU HEAVY METAL SLUDGE	Inventory Date:	
Local ID:	ID-TRA-291T	Type:	MTRU	Generator Site:	IN	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3120

AS-GENERATED EPA CODES

D011, D009, D008, D007, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	394.2	173.1	528.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	399.0	173.1	528.8
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

M

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Sr-90	4.18E+01
Sb-125	1.34E-01
Pu-239	3.03E-01
Pu-238	3.70E-01
Eu-155	2.01E+05
Eu-154	3.55E-01
Cs-137	3.07E+01
Cs-134	2.79E+00
Co-60	7.20E-01
Cm-244	4.06E-01
Ce-144	1.38E+00
Am-241	3.24E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.3	0.0	0.0	0.0	0.0	2.3
Totals	2.3	0.0	0.0	0.0	0.0	2.3

As-Generated Form: Stored: 2.1 Projected: 0.0 Total: 2.1

Final Waste Form: Stored: 2.3 Projected: 0.0 Total: 2.3

WASTE STREAM DESCRIPTION	The waste stream was sludge generated from four catch tanks that were removed from service. The sludge was generated from activitiy in the TRA Hot Cell and the TRA Chemistry Laboratories. This was generated only "one time."
WASTE STREAM SOURCE	This waste stream was generated at TRA, TRA-730 MTR Catch Tanks: Tanks collect waste from laboratories and the TRA Hot Cells.. The generating process is: Laboratory and Hot Cell operations.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	High uncertainty.
MANAGEMENT COMMENTS	Contact radiation readings range from 800 mR/hr to 5000 mR/hr.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W157	Handling:	CH	NMVP #:	N/A	Stream Name:	SPECIAL SETUPS (CEMENT):Direct Ship	Inventory Date:	
Local ID:	ID-RFO-004T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Organics	Waste Matrix Code:	S3150

AS-GENERATED EPA CODES

APP8, F003, F002, F001, D008, D006, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	23.8	0.0	287.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	462.0	273.9	718.9
Cement (solidified):	308.0	182.6	479.3
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.9		
Packaging Material Plastic:	32.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON CODE

213

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	1.50E-05
Pu-241	5.54E+00
Pu-240	2.08E-01
Pu-239	9.17E-01
Pu-238	3.24E-02
Am-241	1.53E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	44.7	0.0	0.0	0.0	0.0	44.7
Totals	44.7	0.0	0.0	0.0	0.0	44.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	39.5	0.0	0.0	0.0	0.0	39.5
SWB used to overpack 55 gallon drums	10.4	0.0	0.0	0.0	0.0	10.4
Totals	49.9	0.0	0.0	0.0	0.0	49.9

As-Generated Form: Stored: 44.7 Projected: 0.0 Total: 44.7

Final Waste Form: Stored: 49.9 Projected: 0.0 Total: 49.9

WASTE STREAM DESCRIPTION	This waste, generated at Rocky Flats Plant, consists of liquids absorbed on a cement mixture. The liquid wastes are not compatible with aqueous treatment processes and are handled separately due to their plutonium complexing nature. The majority of complexing chemical wastes are generated by various operations at Building 771, Plutonium Recovery operations. All waste are processed by aqueous waste treatment, building 774. The complexing chemicals include some alcohols, organic acids, and versenes (trademark for a series of chelating agents based on EDTA). All liquids are analyzed or assayed prior to release to Building 774 for treatment. Only below-discard contaminated wastes are released for processing. Above discard contaminated wastes are processed by plutonium recovery operations. The cement mixture used for absorbing complexing liquid wastes is composed of approximately 190 lb of Portland cement and 50 lb of pipe insulation cement, such as magnesia cement. The cements are placed in a prepared 55-gallon drum; the drum is them placed on a drum roller and rolled to ensure mixing of the cements. All liquid wastes are made basic prior to adding them to the cement mixture. Approximately 100 liters of liquid waste is then poured on the cement mixture and allowed to solidify. Aproximately 10 to 15 lb of portland cement is then added on top of the cemented liquid waste before the o-ring bag is removed from the glovebox. Since 1972, drums have been inspected for free liquids, proper packaging, and the use of proper content code. One to two quarts of oil-dri was placed on top of the outer, sealed polyethylene drum bag after inspection. In 1982, vermiculite replaced oil-dri to fill the remaining space between the outer, sealed polyethylene drum bag and the top of the rigid liner. Some drums may be filled with the empty polyethylene bottles used to transport the liquid waste to Building 774. A small amount of portland cement is added to each bottle before placement in a drum.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (19.72%) of the MWIR waste stream, [SPECIAL SETUPS (CEMENT)] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W157, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W157	Handling:	CH	NMVP #:	N/A	Stream Name:	SPECIAL SETUPS (CEMENT):Cert-repack
Local ID:	ID-RFO-004T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Organics

Inventory Date:

Waste Matrix Code: S3150

AS-GENERATED EPA CODES

APP8, F003, F002, F001, D008, D006, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	26.9	0.0	325.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	523.2	310.2	814.2
Cement (solidified):	348.8	206.8	542.8
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

213

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.50E-05
Pu-241	5.54E+00
Pu-240	2.08E-01
Pu-239	9.17E-01
Pu-238	3.24E-02
Am-241	1.53E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	3.2	0.0	0.0	0.0	0.0	3.2
Drum	160.5	0.0	0.0	0.0	0.0	160.5
Totals	163.7	0.0	0.0	0.0	0.0	163.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	163.7	0.0	0.0	0.0	0.0	163.7
Totals	163.7	0.0	0.0	0.0	0.0	163.7

As-Generated Form: Stored: 163.7 Projected: 0.0 Total: 163.7

Final Waste Form: Stored: 163.7 Projected: 0.0 Total: 163.7

WASTE STREAM DESCRIPTION	This waste, generated at Rocky Flats Plant, consists of liquids absorbed on a cement mixture. The liquid wastes are not compatible with aqueous treatment processes and are handled separately due to their plutonium complexing nature. The majority of complexing chemical wastes are generated by various operations at Building 771, Plutonium Recovery operations. All waste are processed by aqueous waste treatment, building 774. The complexing chemicals include some alcohols, organic acids, and versenes (trademark for a series of chelating agents based on EDTA). All liquids are analyzed or assayed prior to release to Building 774 for treatment. Only below-discard contaminated wastes are released for processing. Above discard contaminated wastes are processed by plutonium recovery operations. The cement mixture used for absorbing complexing liquid wastes is composed of approximately 190 lb of Portland cement and 50 lb of pipe insulation cement, such as magnesia cement. The cements are placed in a prepared 55-gallon drum; the drum is them placed on a drum roller and rolled to ensure mixing of the cements. All liquid wastes are made basic prior to adding them to the cement mixture. Approximately 100 liters of liquid waste is then poured on the cement mixture and allowed to solidify. Aproximately 10 to 15 lb of portland cement is then added on top of the cemented liquid waste before the o-ring bag is removed from the glovebox. Since 1972, drums have been inspected for free liquids, proper packaging, and the use of proper content code. One to two quarts of oil-dri was placed on top of the outer, sealed polyethylene drum bag after inspection. In 1982, vermiculite replaced oil-dri to fill the remaining space between the outer, sealed polyethylene drum bag and the top of the rigid liner. Some drums may be filled with the empty polyethylene bottles used to transport the liquid waste to Building 774. A small amount of portland cement is added to each bottle before placement in a drum.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (72.11%) of the MWIR waste stream, [SPECIAL SETUPS (CEMENT)] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W157, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W157	Handling:	CH	NMVP #:	N/A	Stream Name:	SPECIAL SETUPS (CEMENT):Uncertifiable	Inventory Date:	
Local ID:	ID-RFO-004T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3150

AS-GENERATED EPA CODES

APP8, F003, F002, F001, D008, D006, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	2.99E-05
Pu-241	1.11E+01
Pu-240	4.16E-01
Pu-239	1.83E+00
Pu-238	6.48E-02
Am-241	3.07E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	18.4	0.0	0.0	0.0	0.0	18.4
Totals	18.4	0.0	0.0	0.0	0.0	18.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	9.4	0.0	0.0	0.0	0.0	9.4
Totals	9.4	0.0	0.0	0.0	0.0	9.4

As-Generated Form: Stored: 18.4 Projected: 0.0 Total: 18.4

Final Waste Form: Stored: 9.4 Projected: 0.0 Total: 9.4

WASTE STREAM DESCRIPTION

This waste, generated at Rocky Flats Plant, consists of liquids absorbed on a cement mixture. The liquid wastes are not compatible with aqueous treatment processes and are handled separately due to their plutonium complexing nature.

The majority of complexing chemical wastes are generated by various operations at Building 771, Plutonium Recovery operations. All waste are processed by aqueous waste treatment, building 774. The complexing chemicals include some alcohols, organic acids, and versenes (trademark for a series of chelating agents based on EDTA). All liquids are analyzed or assayed prior to release to Building 774 for treatment. Only below-discard contaminated wastes are released for processing. Above discard contaminated wastes are processed by plutonium recovery operations.

The cement mixture used for absorbing complexing liquid wastes is composed of approximately 190 lb of Portland cement and 50 lb of pipe insulation cement, such as magnesia cement. The cements are placed in a prepared 55-gallon drum; the drum is them placed on a drum roller and rolled to ensure mixing of the cements. All liquid wastes are made basic prior to adding them to the cement mixture. Approximately 100 liters of liquid waste is then poured on the cement mixture and allowed to solidify. Aproximately 10 to 15 lb of portland cement is then added on top of the cemented liquid waste before the o-ring bag is removed from the glovebox.

Since 1972, drums have been inspected for free liquids, proper packaging, and the use of proper content code. One to two quarts of oil-dri was placed on top of the outer, sealed polyethylene drum bag after inspection. In 1982, vermiculite replaced oil-dri to fill the remaining space between the outer, sealed polyethylene drum bag and the top of the rigid liner.

Some drums may be filled with the empty polyethylene bottles used to transport the liquid waste to Building 774. A small amount of portland cement is added to each bottle before placement in a drum.

WASTE STREAM SOURCE

This record represents the [Uncertifiable] portion (8.17%) of the MWIR waste stream, [SPECIAL SETUPS (CEMENT)] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W157, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W159	Handling:	CH	NMVP #:	N/A	Stream Name:	EVAPORATOR AND DISSOLVER SLUDGE:Direct Ship	Inventory Date:	
Local ID:	ID-MDO-811T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3125

AS-GENERATED EPA CODES

APP8, D009, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	5.85E+00
Pu-238	7.88E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION

This waste stream, generated at Mound Laboratory, consists of dry evaporator and dissolver sludge and insoluble residue. The consistency ranges from powder to sand-like particles. Limited amounts of other noncombustible wastes including Content Codes 803, 805, 810, 813, 814, 826, and 832 may be included. A few containers may have limited amounts of beryllium-contaminated wastes including glass, paper, gloves, and sample precipitates.

There is a potential for and lack of information on fines. In addition the drums may contain free liquids. The expected organic content in the drums is less than 14lb/ft3. No explosive, pyrophoric, or corrosive materials should be in the waste.

After removal from the bottom of dissolver pots, the dried sludge is rinsed with nitric acid and dried on a hotplate. Dried sludges are packaged in 1/2-gallon metal cans and sealed in a PE bag, or else packed in 1/2-gallon plastic-coated cardboard cartons and sealed in a PE bag. Each container is assayed and placed in PVC or PE sleeve bags. Sleeve bags can hold up to 5 containers per bag. Up to 8 sleeve bags are placed in each prepared 55-gallon drum. Drums are prepared according to post-1972 procedures, with plywood spacers as needed between on top of the rigid drum liner lid.

WASTE STREAM SOURCE

This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [EVAPORATOR AND DISSOLVER SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W159, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done. D009 will not be applicable to this waste stream after cartons of liquid mercury are removed.

MANAGEMENT COMMENTS

Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS

All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W159	Handling:	CH	NMVP #:	N/A	Stream Name:	EVAPORATOR AND DISSOLVER SLUDGE:Uncert-Mercury
Inventory Date:							
Local ID:	ID-MDO-811T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Uncategorized Metal
Waste Matrix Code:	S3125						

AS-GENERATED EPA CODES

APP8, D009, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-239	1.95E+00
Pu-238	2.63E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste stream, generated at Mound Laboratory, consists of dry evaporator and dissolver sludge and insoluble residue. The consistency ranges from powder to sand-like particles. Limited amounts of other noncombustible wastes including Content Codes 803, 805, 810, 813, 814, 826, and 832 may be included. A few containers may have limited amounts of beryllium-contaminated wastes including glass, paper, gloves, and sample precipitates. There is a potential for and lack of information on fines. In addition the drums may contain free liquids. The expected organic content in the drums is less than 14lb/ft3. No explosive, pyrophoric, or corrosive materials should be in the waste. After removal from the bottom of dissolver pots, the dried sludge is rinsed with nitric acid and dried on a hotplate. Dried sludges are packaged in 1/2-gallon metal cans and sealed in a PE bag, or else packed in 1/2-gallon plastic-coated cardboard cartons and sealed in a PE bag. Each container is assayed and placed in PVC or PE sleeve bags. Sleeve bags can hold up to 5 containers per bag. Up to 8 sleeve bags are placed in each prepared 55-gallon drum. Drums are prepared according to post-1972 procedures, with plywood spacers as needed between on top of the rigid drum liner lid.
WASTE STREAM SOURCE	This record represents the [Uncert-Mercury] portion (.27%) of the MWIR waste stream, [EVAPORATOR AND DISSOLVER SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk amalg TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W159, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done. D009 will not be applicable to this waste stream after cartons of liquid mercury are removed.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W159	Handling:	CH	NMVP #:	N/A	Stream Name:	EVAPORATOR AND DISSOLVER SLUDGE:Uncert-Other	Inventory Date:	
Local ID:	ID-MDO-811T	Type:	MTRU	Generator Site:	MO	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3125

AS-GENERATED EPA CODES

APP8, D009, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-239	1.17E+01
Pu-238	1.58E+03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

WASTE STREAM DESCRIPTION	This waste stream, generated at Mound Laboratory, consists of dry evaporator and dissolver sludge and insoluble residue. The consistency ranges from powder to sand-like particles. Limited amounts of other noncombustible wastes including Content Codes 803, 805, 810, 813, 814, 826, and 832 may be included. A few containers may have limited amounts of beryllium-contaminated wastes including glass, paper, gloves, and sample precipitates. There is a potential for and lack of information on fines. In addition the drums may contain free liquids. The expected organic content in the drums is less than 14lb/ft3. No explosive, pyrophoric, or corrosive materials should be in the waste. After removal from the bottom of dissolver pots, the dried sludge is rinsed with nitric acid and dried on a hotplate. Dried sludges are packaged in 1/2-gallon metal cans and sealed in a PE bag, or else packed in 1/2-gallon plastic-coated cardboard cartons and sealed in a PE bag. Each container is assayed and placed in PVC or PE sleeve bags. Sleeve bags can hold up to 5 containers per bag. Up to 8 sleeve bags are placed in each prepared 55-gallon drum. Drums are prepared according to post-1972 procedures, with plywood spacers as needed between on top of the rigid drum liner lid.
WASTE STREAM SOURCE	This record represents the [Uncert-Other] portion (79.73%) of the MWIR waste stream, [EVAPORATOR AND DISSOLVER SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W159, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done. D009 will not be applicable to this waste stream after cartons of liquid mercury are removed.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W161	Handling:	CH	NMVP #:	122	Stream Name:	FIREBRICK:Cert-repack	Inventory Date:	
Local ID:	ID-RFO-371T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	SS123

AS-GENERATED EPA CODES

APP8, F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	441.0	111.0	880.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	21.0	26.2	52.4
Rubber:	0.0	0.0	0.0
Plastics:	20.8	11.3	37.2
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: *Other/Multiple Sources*

TRUCON CODE

122, 222

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-235	2.60E-07
Pu-242	6.59E-05
Pu-241	2.44E+01
Pu-240	9.16E-01
Pu-239	4.04E+00
Pu-238	1.43E-01
Am-241	4.81E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	41.2	0.0	0.0	0.0	0.0	41.2
Drum	56.2	0.0	0.0	0.0	0.0	56.2
Totals	97.4	0.0	0.0	0.0	0.0	97.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	97.6	0.0	0.0	0.0	0.0	97.6
Totals	97.6	0.0	0.0	0.0	0.0	97.6

As-Generated Form: Stored: 97.4 Projected: 0.0 Total: 97.4

Final Waste Form: Stored: 97.6 Projected: 0.0 Total: 97.6

WASTE STREAM DESCRIPTION	This waste contains whole and broken pieces of construction bricks, cinderblocks, and firebrick. Waste generated in the 1971 to 1973 period includes firebrick from the Pu recovery incinerator and related refractory development and from four boilers' cinderblocks and other brick from routine maintenance and from D&D following the Rocky Flats Plant fire. Waste generated since 1973 is mostly firebrick from Pu recovery operations. The firebrick generated since 1973 is a high-alumina, high-strength, class F brick manufactured by Plibrico (Plicast 40). Typical composition is Al203 =95.67%, SiO2 = 0.03%, Fe203 = 0.10%, TiO2 = 0.01%, CaO = 3.6%, MgO = 0.8%, and Alkalies = 0.28%. Some of the incinerator firebrick is "scarfed" to remove surface contamination and then leached with nitric acid to recover Pu. Waste is packaged in standard RFP drums and boxes. After 1973, mostly drums were used and the waste was placed in PVC bags which were then placed into Fibre-Paks. Two Fibre-Paks fit in a drum. The single drum of Content Code 377 waste was determined by visual examination to be Content Code 371.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (87.4%) of the MWIR waste stream, [FIREBRICK] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W161, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W161	Handling:	CH	NMVP #:	122	Stream Name:	FIREBRICK:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-371T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5123

AS-GENERATED EPA CODES

APP8, F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	389.1	97.9	776.4
Vitrified:	0.0	0.0	0.0
Cellulosics:	18.5	23.1	46.2
Rubber:	0.0	0.0	0.0
Plastics:	18.3	10.0	32.8
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	148.0		
Packaging Material Plastic:	32.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

122, 222

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	2.60E-07
Pu-242	6.59E-05
Pu-241	2.44E+01
Pu-240	9.16E-01
Pu-239	4.04E+00
Pu-238	1.43E-01
Am-241	4.81E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	14.0	0.0	0.0	0.0	0.0	14.0
Totals	14.0	0.0	0.0	0.0	0.0	14.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	12.5	0.0	0.0	0.0	0.0	12.5
SWB used to overpack 55 gallon drums	3.3	0.0	0.0	0.0	0.0	3.3
Totals	15.8	0.0	0.0	0.0	0.0	15.8

As-Generated Form: Stored: 14.0 Projected: 0.0 Total: 14.0

Final Waste Form: Stored: 15.8 Projected: 0.0 Total: 15.8

WASTE STREAM DESCRIPTION	This waste contains whole and broken pieces of construction bricks, cinderblocks, and firebrick. Waste generated in the 1971 to 1973 period includes firebrick from the Pu recovery incinerator and related refractory development and from four boilers' cinderblocks and other brick from routine maintenance and from D&D following the Rocky Flats Plant fire. Waste generated since 1973 is mostly firebrick from Pu recovery operations. The firebrick generated since 1973 is a high-alumina, high-strength, class F brick manufactured by Plibrico (Plicast 40). Typical composition is Al203 =95.67%, SiO2 = 0.03%, Fe203 = 0.10%, TiO2 = 0.01%, CaO = 3.6%, MgO = 0.8%, and Alkalies = 0.28%. Some of the incinerator firebrick is "scarfed" to remove surface contamination and then leached with nitric acid to recover Pu. Waste is packaged in standard RFP drums and boxes. After 1973, mostly drums were used and the waste was placed in PVC bags which were then placed into Fibre-Paks. Two Fibre-Paks fit in a drum. The single drum of Content Code 377 waste was determined by visual examination to be Content Code 371.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (12.6%) of the MWIR waste stream, [FIREBRICK] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W161, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W163	Handling:	CH	NMVP #:	N/A	Stream Name:	OIL-DRI RESIDUE FROM INCINERATOR:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-375T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3113

AS-GENERATED EPA CODES

F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Source Unknown

TRUCON CODE

N/A

M

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	3.68E-04
Pu-241	1.36E+02
Pu-240	5.12E+00
Pu-239	2.26E+01
Pu-238	7.97E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION	This waste stream, generated at Rocky Flats Plant, includes Oil-Dri absorbent and waste from laundry and utility operations. Organic content should be less than 14 lb/ft3. No sludges or free liquids should be present. The Oil-Dri should meet WIPP immobilization standards. No explosive or pyrophoric materials should be in this waste. The material is contained in 55-gallon drums. Inside the drums, the waste may be contained in PE bottles and/or metal paint cans and double-bagged in PE and PVC bags. Some waste may also be contained in PE residue process containers (RPCS). Drums were prepared and inspected according to pre and post-1972 procedures. Starting in 1982, vermiculite instead of Oil-Dri was used in the tops of the drums. The waste matrix composition listed is for the incinerator waste. No information is available concerning the laundry and utility operation waste.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [OIL-DRI RESIDUE FROM INCINERATOR] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W163, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W163	Handling:	CH	NMVP #:	N/A	Stream Name:	OIL-DRI RESIDUE FROM INCINERATOR:Uncertifiable
Inventory Date:							
Local ID:	ID-RFO-375T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal
Waste Matrix Code:	S3113						

AS-GENERATED EPA CODES

F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Source Unknown

TRUCON CODE

N/A

M

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	7.37E-04
Pu-241	2.73E+02
Pu-240	1.02E+01
Pu-239	4.52E+01
Pu-238	1.59E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

WASTE STREAM DESCRIPTION	This waste stream, generated at Rocky Flats Plant, includes Oil-Dri absorbent and waste from laundry and utility operations. Organic content should be less than 14 lb/ft3. No sludges or free liquids should be present. The Oil-Dri should meet WIPP immobilization standards. No explosive or pyrophoric materials should be in this waste. The material is contained in 55-gallon drums. Inside the drums, the waste may be contained in PE bottles and/or metal paint cans and double-bagged in PE and PVC bags. Some waste may also be contained in PE residue process containers (RPCS). Drums were prepared and inspected according to pre and post-1972 procedures. Starting in 1982, vermiculite instead of Oil-Dri was used in the tops of the drums. The waste matrix composition listed is for the incinerator waste. No information is available concerning the laundry and utility operation waste.
WASTE STREAM SOURCE	This record represents the [Uncertifiable] portion (80%) of the MWIR waste stream, [OIL-DRI RESIDUE FROM INCINERATOR] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W163, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W164	Handling:	CH	NMVP #:	N/A	Stream Name:	ORGANIC AND SLUDGE IMMOBILIZATION SYSTEM:Cert-repack	Inventory Date:	
Local ID:	ID-RFO-700T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Organics	Waste Matrix Code:	S3114

AS-GENERATED EPA CODES

F003, F001, D022

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-242	7.02E-06
Pu-241	2.60E+00
Pu-240	9.76E-02
Pu-239	4.30E-01
Pu-238	1.52E-02

M

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.5	0.0	0.0	0.0	0.0	1.5
Totals	1.5	0.0	0.0	0.0	0.0	1.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.7	0.0	0.0	0.0	0.0	1.7
Totals	1.7	0.0	0.0	0.0	0.0	1.7

As-Generated Form: Stored: 1.5 Projected: 0.0 Total: 1.5

Final Waste Form: Stored: 1.7 Projected: 0.0 Total: 1.7

WASTE STREAM DESCRIPTION	Organic and sludge immobilization system (OASIS) waste consists of cutting oil and organic solvents solidified with Envirostone emulsifier, gypsum concrete, and an accelerator. Except for the solidifying agent, the waste is similar to Item Description Code (IDC) 003 waste, and has been assigned the same Waste matrix composition.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [ORGANIC AND SLUDGE IMMOBILIZATION SYSTEM] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W164, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W164	Handling:	CH	NMVP #:	N/A	Stream Name:	ORGANIC AND SLUDGE IMMOBILIZATION SYSTEM:Direct Ship
Inventory Date:							
Local ID:	ID-RFO-700T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Organics
Waste Matrix Code:	S3114						

AS-GENERATED EPA CODES

F003, F001, D022

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	174.1		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	7.02E-06
Pu-241	2.60E+00
Pu-240	9.76E-02
Pu-239	4.30E-01
Pu-238	1.52E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.9 Projected: 0.0 Total: 0.9

WASTE STREAM DESCRIPTION	Organic and sludge immobilization system (OASIS) waste consists of cutting oil and organic solvents solidified with Envirostone emulsifier, gypsum concrete, and an accelerator. Except for the solidifying agent, the waste is similar to Item Description Code (IDC) 003 waste, and has been assigned the same Waste matrix composition.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [ORGANIC AND SLUDGE IMMOBILIZATION SYSTEM] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W164, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W166	Handling:	CH	NMVP #:	N/A	Stream Name:	SOLIDIFIED INORGANIC PROCESS SOLUTION:Direct Ship
Inventory Date:							
Local ID:	ID-RFO-114T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics
Waste Matrix Code:	S3123						

AS-GENERATED EPA CODES

APP8, F003, F002, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	432.2	25.5	667.1
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	110.8	53.6	275.3
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	73.8	35.7	183.5
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.7		
Packaging Material Plastic:	33.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

114

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-242	6.39E-05
Pu-241	2.37E+01
Pu-240	8.89E-01
Pu-239	3.92E+00
Pu-238	1.38E-01
Am-241	2.70E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	14.2	0.0	0.0	0.0	0.0	14.2
Totals	14.2	0.0	0.0	0.0	0.0	14.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	12.7	0.0	0.0	0.0	0.0	12.7
SWB used to overpack 55 gallon drums	3.3	0.0	0.0	0.0	0.0	3.3
Totals	16.0	0.0	0.0	0.0	0.0	16.0

As-Generated Form: Stored: 14.2 Projected: 0.0 Total: 14.2

Final Waste Form: Stored: 16.0 Projected: 0.0 Total: 16.0

WASTE STREAM DESCRIPTION	TRU solid inorganic process solution waste consists of cemented inorganic particulates of sludge-like (not chemically precipitated) wastes from plutonium recovery operations. The waste is packaged in 55-gallon drums or SWBs. Content code 114 includes some waste form IDCs 292 and 432. Waste matrix composition listed is for Item Description Code (IDC) 292, the bulk of the waste. The waste is assigned matrix parameter code (mpc) S3123, based on IDC 292. The IDC 432 portion of the waste stream is mpc S3211.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [SOLIDIFIED INORGANIC PROCESS SOLUTION] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W166, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W166	Handling:	CH	NMVP #:	N/A	Stream Name:	SOLIDIFIED INORGANIC PROCESS SOLUTION:Cert-repack	Inventory Date:	
Local ID:	ID-RFO-114T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3123

AS-GENERATED EPA CODES

APP8, F003, F002, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	489.0	28.8	754.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	125.3	60.6	311.5
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	83.6	40.4	207.7
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON CODE

114

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	6.39E-05
Pu-241	2.37E+01
Pu-240	8.89E-01
Pu-239	3.92E+00
Pu-238	1.38E-01
Am-241	2.70E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	56.6	0.0	0.0	0.0	0.0	56.6
Totals	56.6	0.0	0.0	0.0	0.0	56.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	56.8	0.0	0.0	0.0	0.0	56.8
Totals	56.8	0.0	0.0	0.0	0.0	56.8

As-Generated Form: Stored: 56.6 Projected: 0.0 Total: 56.6

Final Waste Form: Stored: 56.8 Projected: 0.0 Total: 56.8

WASTE STREAM DESCRIPTION	TRU solid inorganic process solution waste consists of cemented inorganic particulates of sludge-like (not chemically precipitated) wastes from plutonium recovery operations. The waste is packaged in 55-gallon drums or SWBs. Content code 114 includes some waste form IDCs 292 and 432. Waste matrix composition listed is for Item Description Code (IDC) 292, the bulk of the waste. The waste is assigned matrix parameter code (mpc) S3123, based on IDC 292. The IDC 432 portion of the waste stream is mpc S3211.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [SOLIDIFIED INORGANIC PROCESS SOLUTION] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W166, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W167	Handling:	CH	NMVP #:	N/A	Stream Name:	SOLIDIFIED ORGANICS:Direct Ship	Inventory Date:
Local ID:	ID-RFO-112T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Organics	Waste Matrix Code: S3114

AS-GENERATED EPA CODES

F003, F001, D022

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	484.6	182.8	595.1
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	209.6	79.0	257.6
Cement (solidified):	143.9	52.7	171.7
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.7		
Packaging Material Plastic:	33.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

112

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.40E-05
Pu-241	5.18E+00
Pu-240	1.95E-01
Pu-239	8.58E-01
Pu-238	3.03E-02
Am-241	4.22E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	32.9	0.0	0.0	0.0	0.0	32.9
Totals	32.9	0.0	0.0	0.0	0.0	32.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	29.1	0.0	0.0	0.0	0.0	29.1
SWB used to overpack 55 gallon drums	7.6	0.0	0.0	0.0	0.0	7.6
Totals	36.7	0.0	0.0	0.0	0.0	36.7

As-Generated Form: Stored: 32.9 Projected: 0.0 Total: 32.9

Final Waste Form: Stored: 36.7 Projected: 0.0 Total: 36.7

WASTE STREAM DESCRIPTION	TRU solid organic waste consists of cemented or absorbed organic liquids from production or laboratory processes. The content code packaged as112 includes IDC 003.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [SOLIDIFIED ORGANICS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W167, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W167	Handling:	CH	NMVP #:	N/A	Stream Name:	SOLIDIFIED ORGANICS:Cert-repack	Inventory Date:	
Local ID:	ID-RFO-112T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Organics	Waste Matrix Code:	S3114

AS-GENERATED EPA CODES

F003, F001, D022

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	548.1	206.7	673.1
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	236.5	89.4	291.4
Cement (solidified):	157.7	59.6	194.2
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

112

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	1.40E-05
Pu-241	5.18E+00
Pu-240	1.95E-01
Pu-239	8.58E-01
Pu-238	3.03E-02
Am-241	4.22E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	131.2	0.0	0.0	0.0	0.0	131.2
Totals	131.2	0.0	0.0	0.0	0.0	131.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	131.5	0.0	0.0	0.0	0.0	131.5
Totals	131.5	0.0	0.0	0.0	0.0	131.5

As-Generated Form: Stored: 131.2 Projected: 0.0 Total: 131.2

Final Waste Form: Stored: 131.5 Projected: 0.0 Total: 131.5

WASTE STREAM DESCRIPTION	TRU solid organic waste consists of cemented or absorbed organic liquids from production or laboratory processes. The content code packaged as112 includes IDC 003.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [SOLIDIFIED ORGANICS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W167, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W169	Handling:	CH	NMVP #:	116	Stream Name:	DRY PAPER AND RAGS:CH-Cert-repack	Inventory Date:	
Local ID:	ID-RFO-330T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D022, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	36.8	0.0	233.0
Other Inorganic Material:	27.2	0.0	196.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	135.0	6.6	817.0
Rubber:	57.2	0.0	330.0
Plastics:	188.0	14.8	887.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

116, 216

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
U-238	8.48E-11
U-235	2.60E-06
Pu-242	9.75E-06
Pu-241	3.61E+00
Pu-240	1.36E-01
Pu-239	5.98E-01
Pu-238	2.11E-02
Am-241	3.78E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	4266.8	0.0	0.0	0.0	0.0	4266.8
Totals	4266.8	0.0	0.0	0.0	0.0	4266.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4267.1	0.0	0.0	0.0	0.0	4267.1
Totals	4267.1	0.0	0.0	0.0	0.0	4267.1

As-Generated Form: Stored: 4266.8 Projected: 0.0 Total: 4266.8

Final Waste Form: Stored: 4267.1 Projected: 0.0 Total: 4267.1

WASTE STREAM DESCRIPTION

This waste stream is the largest combustible waste stream. The waste stream is from Rocky Flats Plant and primarily consists of line- and nonline-generated dry combustible materials such as paper, rags, plastics, surgical gloves, cloth overalls and booties, cardboard, wood, wood filter frames, PE bottles, and laundry lint. Some combustibles may be damp or moist. Limited amounts of noncombustibles such as glass, concrete, cement, leaded glovebox gloves, batteries, and metal scrap may also be present.

There is a lack of information about the waste shipped prior to 1975. The average waste organic material content may range from 6 lb/ft3 for boxes to over 14 lb/ft3 for drums. Although limited fines are expected from floor sweepings, powder, etc., levels of fines should be within WIPP-WAC limits. The waste is packaged with no free liquids, sludges, explosives, compressed gases, pyrophoric or corrosive materials.

Depending on when and where the waste was generated at Rocky Flats, the waste packaging may vary. For wastes generated prior to 1975, packaging information is incomplete. Line-generated waste may be double contained in plastic or placed in PE bottles and then double bagged. Nonline-generated wastes were single-bagged or placed directly into the waste container. Oil-Dri may have been added to some drums.

After 1974, some waste was drummed, and some waste was placed in 4 ft x 4 ft x 7 ft boxes. Some combustibles are single, double or quadruple bagged or wrapped PVC and PE bags or plastic. Combustibles such as clothing and dryer lint are placed directly into 55-gallon drums. Some wastes are placed in 1-gallon PE bottles. Some drummed waste was repacked into boxes to reduce volume. During repacking, any noncombustibles were removed. Some boxes may contain moist combustible waste and up to 100 lb of Oil-Dri.

Drums containing wastes from the Americium Recovery Line are lead-lined. Drums shipped prior to 1977 contain compacted wastes.

WASTE STREAM SOURCE

This record represents the [CH-Cert-repack] portion (73.89%) of the MWIR waste stream, [DRY PAPER AND RAGS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W169, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W169	Handling:	CH	NMVP #:	N/A	Stream Name:	DRY PAPER AND RAGS:CH-Uncert
Inventory Date:							
Local ID:	ID-RFO-330T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal
Waste Matrix Code:	S5300						

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D022, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-238	8.48E-09
U-235	2.60E-04
Pu-242	9.75E-04
Pu-241	3.61E+02
Pu-240	1.36E+01
Pu-239	5.98E+01
Pu-238	2.11E+00
Am-241	3.78E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	1318.7	0.0	0.0	0.0	0.0	1318.7
Drum	136.5	0.0	0.0	0.0	0.0	136.5
Totals	1455.2	0.0	0.0	0.0	0.0	1455.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	14.6	0.0	0.0	0.0	0.0	14.6
Totals	14.6	0.0	0.0	0.0	0.0	14.6

As-Generated Form: Stored: 1455.2 Projected: 0.0 Total: 1455.2

Final Waste Form: Stored: 14.6 Projected: 0.0 Total: 14.6

WASTE STREAM DESCRIPTION

This waste stream is the largest combustible waste stream. The waste stream is from Rocky Flats Plant and primarily consists of line- and nonline-generated dry combustible materials such as paper, rags, plastics, surgical gloves, cloth overalls and booties, cardboard, wood, wood filter frames, PE bottles, and laundry lint. Some combustibles may be damp or moist. Limited amounts of noncombustibles such as glass, concrete, cement, leaded glovebox gloves, batteries, and metal scrap may also be present.

There is a lack of information about the waste shipped prior to 1975. The average waste organic material content may range from 6 lb/ft3 for boxes to over 14 lb/ft3 for drums. Although limited fines are expected from floor sweepings, powder, etc., levels of fines should be within WIPP-WAC limits. The waste is packaged with no free liquids, sludges, explosives, compressed gases, pyrophoric or corrosive materials.

Depending on when and where the waste was generated at Rocky Flats, the waste packaging may vary. For wastes generated prior to 1975, packaging information is incomplete. Line-generated waste may be double contained in plastic or placed in PE bottles and then double bagged. Nonline-generated wastes were single-bagged or placed directly into the waste container. Oil-Dri may have been added to some drums.

After 1974, some waste was drummed, and some waste was placed in 4 ft x 4 ft x 7 ft boxes. Some combustibles are single, double or quadruple bagged or wrapped PVC and PE bags or plastic. Combustibles such as clothing and dryer lint are placed directly into 55-gallon drums. Some wastes are placed in 1-gallon PE bottles. Some drummed waste was repacked into boxes to reduce volume. During repacking, any noncombustibles were removed. Some boxes may contain moist combustible waste and up to 100 lb of Oil-Dri.

Drums containing wastes from the Americium Recovery Line are lead-lined. Drums shipped prior to 1977 contain compacted wastes.

WASTE STREAM SOURCE

This record represents the [CH-Uncert] portion (25.2%) of the MWIR waste stream, [DRY PAPER AND RAGS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W169, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W169	Handling:	RH	NMVP #:	116	Stream Name:	DRY PAPER AND RAGS:RH-Cert-repack
Inventory Date:							
Local ID:	ID-RFO-330T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Heterogeneous
Waste Matrix Code:	S5300						

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D022, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	25.8	0.0	163.4
Other Inorganic Material:	19.1	0.0	137.4
Vitrified:	0.0	0.0	0.0
Cellulosics:	94.7	4.6	572.8
Rubber:	40.1	0.0	231.4
Plastics:	131.8	10.4	621.9
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

116, 216

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-238	8.48E-11
U-235	2.60E-06
Pu-242	9.75E-06
Pu-241	3.61E+00
Pu-240	1.36E-01
Pu-239	5.98E-01
Pu-238	2.11E-02
Am-241	3.78E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	11.0	0.0	0.0	0.0	0.0	11.0
Totals	11.0	0.0	0.0	0.0	0.0	11.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	17.8	0.0	0.0	0.0	0.0	17.8
Totals	17.8	0.0	0.0	0.0	0.0	17.8

As-Generated Form: Stored: 11.0 Projected: 0.0 Total: 11.0

Final Waste Form: Stored: 17.8 Projected: 0.0 Total: 17.8

WASTE STREAM DESCRIPTION

M

This waste stream is the largest combustible waste stream. The waste stream is from Rocky Flats Plant and primarily consists of line- and nonline-generated dry combustible materials such as paper, rags, plastics, surgical gloves, cloth overalls and booties, cardboard, wood, wood filter frames, PE bottles, and laundry lint. Some combustibles may be damp or moist. Limited amounts of noncombustibles such as glass, concrete, cement, leaded glovebox gloves, batteries, and metal scrap may also be present.

There is a lack of information about the waste shipped prior to 1975. The average waste organic material content may range from 6 lb/ft3 for boxes to over 14 lb/ft3 for drums. Although limited fines are expected from floor sweepings, powder, etc., levels of fines should be within WIPP-WAC limits. The waste is packaged with no free liquids, sludges, explosives, compressed gases, pyrophoric or corrosive materials.

Depending on when and where the waste was generated at Rocky Flats, the waste packaging may vary. For wastes generated prior to 1975, packaging information is incomplete. Line-generated waste may be double contained in plastic or placed in PE bottles and then double bagged. Nonline-generated wastes were single-bagged or placed directly into the waste container. Oil-Dri may have been added to some drums.

After 1974, some waste was drummed, and some waste was placed in 4 ft x 4 ft x 7 ft boxes. Some combustibles are single, double or quadruple bagged or wrapped PVC and PE bags or plastic. Combustibles such as clothing and dryer lint are placed directly into 55-gallon drums. Some wastes are placed in 1-gallon PE bottles. Some drummed waste was repacked into boxes to reduce volume. During repacking, any noncombustibles were removed. Some boxes may contain moist combustible waste and up to 100 lb of Oil-Dri.

Drums containing wastes from the Americium Recovery Line are lead-lined. Drums shipped prior to 1977 contain compacted wastes.

WASTE STREAM SOURCE

This record represents the [RH-Cert-repack] portion (.19%) of the MWIR waste stream, [DRY PAPER AND RAGS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W169, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W169	Handling:	RH	NMVP #:	N/A	Stream Name:	DRY PAPER AND RAGS:RH-Uncert	Inventory Date:	
Local ID:	ID-RFO-330T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D022, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
U-238	8.48E-09
U-235	2.60E-04
Pu-242	9.75E-04
Pu-241	3.61E+02
Pu-240	1.36E+01
Pu-239	5.98E+01
Pu-238	2.11E+00
Am-241	3.78E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	4.0	0.0	0.0	0.0	0.0	4.0
Totals	4.0	0.0	0.0	0.0	0.0	4.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	1.2	0.0	0.0	0.0	0.0	1.2
Totals	1.2	0.0	0.0	0.0	0.0	1.2

As-Generated Form: Stored: 4.0 Projected: 0.0 Total: 4.0

Final Waste Form: Stored: 1.2 Projected: 0.0 Total: 1.2

M

WASTE STREAM DESCRIPTION

This waste stream is the largest combustible waste stream. The waste stream is from Rocky Flats Plant and primarily consists of line- and nonline-generated dry combustible materials such as paper, rags, plastics, surgical gloves, cloth overalls and booties, cardboard, wood, wood filter frames, PE bottles, and laundry lint. Some combustibles may be damp or moist. Limited amounts of noncombustibles such as glass, concrete, cement, leaded glovebox gloves, batteries, and metal scrap may also be present.

There is a lack of information about the waste shipped prior to 1975. The average waste organic material content may range from 6 lb/ft3 for boxes to over 14 lb/ft3 for drums. Although limited fines are expected from floor sweepings, powder, etc., levels of fines should be within WIPP-WAC limits. The waste is packaged with no free liquids, sludges, explosives, compressed gases, pyrophoric or corrosive materials.

Depending on when and where the waste was generated at Rocky Flats, the waste packaging may vary. For wastes generated prior to 1975, packaging information is incomplete. Line-generated waste may be double contained in plastic or placed in PE bottles and then double bagged. Nonline-generated wastes were single-bagged or placed directly into the waste container. Oil-Dri may have been added to some drums.

After 1974, some waste was drummed, and some waste was placed in 4 ft x 4 ft x 7 ft boxes. Some combustibles are single, double or quadruple bagged or wrapped PVC and PE bags or plastic. Combustibles such as clothing and dryer lint are placed directly into 55-gallon drums. Some wastes are placed in 1-gallon PE bottles. Some drummed waste was repacked into boxes to reduce volume. During repacking, any noncombustibles were removed. Some boxes may contain moist combustible waste and up to 100 lb of Oil-Dri.

Drums containing wastes from the Americium Recovery Line are lead-lined. Drums shipped prior to 1977 contain compacted wastes.

WASTE STREAM SOURCE

This record represents the [RH-Uncert] portion (.07%) of the MWIR waste stream, [DRY PAPER AND RAGS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W169, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W169	Handling:	CH	NMVP #:	116	Stream Name:	DRY PAPER AND RAGS:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-330T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D022, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	32.6	0.0	206.5
Other Inorganic Material:	24.1	0.0	173.7
Vitrified:	0.0	0.0	0.0
Cellulosics:	119.6	5.8	723.9
Rubber:	50.7	0.0	292.4
Plastics:	166.6	13.1	785.9
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.5		
Packaging Material Plastic:	.33.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

116, 216

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-238	8.48E-11
U-235	2.60E-06
Pu-242	9.75E-06
Pu-241	3.61E+00
Pu-240	1.36E-01
Pu-239	5.98E-01
Pu-238	2.11E-02
Am-241	3.78E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	37.5	0.0	0.0	0.0	0.0	37.5
Totals	37.5	0.0	0.0	0.0	0.0	37.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	33.3	0.0	0.0	0.0	0.0	33.3
SWB used to overpack 55 gallon drums	8.5	0.0	0.0	0.0	0.0	8.5
Totals	41.8	0.0	0.0	0.0	0.0	41.8

As-Generated Form: Stored: 37.5 Projected: 0.0 Total: 37.5

Final Waste Form: Stored: 41.8 Projected: 0.0 Total: 41.8

WASTE STREAM DESCRIPTION	This waste stream is the largest combustible waste stream. The waste stream is from Rocky Flats Plant and primarily consists of line- and nonline-generated dry combustible materials such as paper, rags, plastics, surgical gloves, cloth overalls and booties, cardboard, wood, wood filter frames, PE bottles, and laundry lint. Some combustibles may be damp or moist. Limited amounts of noncombustibles such as glass, concrete, cement, leaded glovebox gloves, batteries, and metal scrap may also be present. There is a lack of information about the waste shipped prior to 1975. The average waste organic material content may range from 6 lb/ft3 for boxes to over 14 lb/ft3 for drums. Although limited fines are expected from floor sweepings, powder, etc., levels of fines should be within WIPP-WAC limits. The waste is packaged with no free liquids, sludges, explosives, compressed gases, pyrophoric or corrosive materials. Depending on when and where the waste was generated at Rocky Flats, the waste packaging may vary. For wastes generated prior to 1975, packaging information is incomplete. Line-generated waste may be double contained in plastic or placed in PE bottles and then double bagged. Nonline-generated wastes were single-bagged or placed directly into the waste container. Oil-Dri may have been added to some drums. After 1974, some waste was drummed, and some waste was placed in 4 ft x 4 ft x 7 ft boxes. Some combustibles are single, double or quadruple bagged or wrapped PVC and PE bags or plastic. Combustibles such as clothing and dryer lint are placed directly into 55-gallon drums. Some wastes are placed in 1-gallon PE bottles. Some drummed waste was repacked into boxes to reduce volume. During repacking, any noncombustibles were removed. Some boxes may contain moist combustible waste and up to 100 lb of Oil-Dri. Drums containing wastes from the Americium Recovery Line are lead-lined. Drums shipped prior to 1977 contain compacted wastes.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (.65%) of the MWIR waste stream, [DRY PAPER AND RAGS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W169, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W170	Handling:	CH	NMVP #:	N/A	Stream Name:	DECONTAMINATION AND DECOMMISIONING WASTE:Direct Ship	Inventory Date:	
Local ID:	ID-AEO-120T	Type:	MTRU	Generator Site:	AE	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5112

AS-GENERATED EPA CODES

F003, D008, D006, D004

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	22.5	0.0	38.6
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.6	0.0	6.4
Vitrified:	0.0	0.0	0.0
Cellulosics:	130.3	37.7	218.8
Rubber:	1.5	1.0	4.4
Plastics:	13.0	2.9	35.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	23.5		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	2.06E+01
Am-241	5.13E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION	This waste is generated at Argonne National Laboratory-East. The waste is derived from decontamination and disposal of facilities and ancillary systems (e.g., gloveboxes). The composition of the waste is unknown. ANL-E IDC 101 is used as an analog for waste matrix composition.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [DECONTAMINATION AND DECOMMISIONING WASTE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W170, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W170	Handling:	CH	NMVP #:	N/A	Stream Name:	DECONTAMINATION AND DECOMMISIONING WASTE:Cert-repack
Inventory Date:							
Local ID:	ID-AEO-120T	Type:	MTRU	Generator Site:	AE	Final Waste Form:	Heterogeneous
Waste Matrix Code:	S5112						

AS-GENERATED EPA CODES

F003, D008, D006, D004

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	36.8	0.0	63.2
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	2.6	0.0	10.5
Vitrified:	0.0	0.0	0.0
Cellulosics:	213.2	61.6	357.9
Rubber:	2.4	1.6	7.2
Plastics:	21.3	4.7	57.3
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	2.06E+01
Am-241	5.13E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

WASTE STREAM DESCRIPTION	This waste is generated at Argonne National Laboratory-East. The waste is derived from decontamination and disposal of facilities and ancillary systems (e.g., gloveboxes). The composition of the waste is unknown. ANL-E IDC 101 is used as an analog for waste matrix composition.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [DECONTAMINATION AND DECOMMISIONING WASTE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W170, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W171	Handling:	CH	NMVP #:	N/A	Stream Name:	RESEARCH GENERATED WASTE COMPACTIBLE & C: Cert-repack
Inventory Date:							
Local ID:	ID-AEO-110T	Type:	MTRU	Generator Site:	AE	Final Waste Form:	Heterogeneous
Waste Matrix Code:	S5330						

AS-GENERATED EPA CODES

F003, D008, D006, D004

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	4.8	0.0	14.4
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	4.8	0.0	19.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	287.7	53.4	432.7
Rubber:	3.3	1.4	8.7
Plastics:	36.0	2.9	60.6
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	5.21E+01
Pu-239	5.12E+00
Am-243	1.70E-03
Am-241	3.98E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	3.2	0.0	0.0	0.0	0.0	3.2
Totals	3.2	0.0	0.0	0.0	0.0	3.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.5	0.0	0.0	0.0	0.0	3.5
Totals	3.5	0.0	0.0	0.0	0.0	3.5

As-Generated Form: Stored: 3.2 Projected: 0.0 Total: 3.2

Final Waste Form: Stored: 3.5 Projected: 0.0 Total: 3.5

WASTE STREAM DESCRIPTION	This waste is generated at Argonne National Laboratory - East. The waste is derived from research activities performed in a laboratory environment. The waste includes soft plastics, cardboard, rags, paper, and cloth from various processes. The waste is packaged in 55-gallon drums or in SWBs.
WASTE STREAM SOURCE	This record represents the [Certifiable-repack] portion (97.64%) of the MWIR waste stream, [RESEARCH GENERATED WASTE COMPACTIBLE & C] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W171, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W171	Handling:	CH	NMVP #:	N/A	Stream Name:	RESEARCH GENERATED WASTE COMPACTIBLE & C;Direct Ship.
Inventory Date:							
Local ID:	ID-AEO-110T	Type:	MTRU	Generator Site:	AE	Final Waste Form:	Heterogeneous
Waste Matrix Code:	S5330						

AS-GENERATED EPA CODES

F003, D008, D006, D004

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	2.9	0.0	8.8
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	2.9	0.0	11.7
Vitrified:	0.0	0.0	0.0
Cellulosics:	175.9	32.6	264.5
Rubber:	2.0	0.9	5.3
Plastics:	22.0	1.8	37.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	23.5		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-241	5.21E+01
Pu-239	5.12E+00
Am-243	1.70E-03
Am-241	3.98E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION	This waste is generated at Argonne National Laboratory - East. The waste is derived from research activities performed in a laboratory environment. The waste includes soft plastics, cardboard, rags, paper, and cloth from various processes. The waste is packaged in 55-gallon drums or in SWBs.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (2.36%) of the MWtR waste stream, [RESEARCH GENERATED WASTE COMPACTIBLE & C] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W171, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W172	Handling:	CH	NMVP #:	N/A	Stream Name:	COMBUSTIBLES:Cert-repack	Inventory Date:
Local ID:	ID-BTO-010T	Type:	MTRU	Generator Site:	BT	Final Waste Form:	Heterogeneous	Waste Matrix Code: S5300

AS-GENERATED EPA CODES

F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	2.9	0.0	7.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	575.6	105.8	961.5
Rubber:	55.2	55.2	163.5
Plastics:	165.6	105.8	288.5
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

M

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	132.5	0.0	0.0	0.0	0.0	132.5
Totals	132.5	0.0	0.0	0.0	0.0	132.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	132.5	0.0	0.0	0.0	0.0	132.5
Totals	132.5	0.0	0.0	0.0	0.0	132.5

As-Generated Form: Stored: 132.5 Projected: 0.0 Total: 132.5

Final Waste Form: Stored: 132.5 Projected: 0.0 Total: 132.5

WASTE STREAM DESCRIPTION	This waste stream, generated at Bettis Atomic Power Laboratory, consists primarily of rags, gloves, plastic, paper, carbo-wax, filters, oil-contaiminated "absorbal" (diatomaceous earth), and rubber. The waste stream may also contain noncombustible items. Levels of hazardous materials are unknwon. The waste organic material may exceed 14 lb/ft3 for drums. Although limited fines are expected from floor sweepings, powder, etc., levels of fines should be within WIPP-WAC limits. The waste is packaged with no free liquids, sludges, explosives, compressed gases, pyrophoric, or corrosive materials. Small waste items are wrapped in plastic and placed inside 3.25-inch diameter by 7-inch high tin-plated steel cans with screw-on lids. The can is placed inside a steel "juice can" with roll-seam sealed lids. Larger items are wrapped in plastic and placed inside 4.375-inch diameter by 20 or 24-inch high tin-plated steel cans. The sealed can was wrapped in plastic and placed inside 55-gallon waste drums lined with 90-mil drum liners. Between 15-80 cans fit in a drum. Prior to 1974, each drum was assayed by calculating weight differences to determine fissile content. After 1974, a U-232 assay gauge was used.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [COMBUSTIBLES] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W172, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W172	Handling:	CH	NMVP #:	N/A	Stream Name:	COMBUSTIBLES:Direct Ship	Inventory Date:	
Local ID:	ID-BTO-010T	Type:	MTRU	Generator Site:	BT	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	2.6	0.0	6.4
Vitrified:	0.0	0.0	0.0
Cellulosics:	509.6	93.7	851.2
Rubber:	48.9	48.9	144.7
Plastics:	146.6	93.7	255.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.6		
Packaging Material Plastic:	33.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	33.1	0.0	0.0	0.0	0.0	33.1
Totals	33.1	0.0	0.0	0.0	0.0	33.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	29.3	0.0	0.0	0.0	0.0	29.3
SWB used to overpack 55 gallon drums	7.6	0.0	0.0	0.0	0.0	7.6
Totals	36.9	0.0	0.0	0.0	0.0	36.9

As-Generated Form: Stored: 33.1 Projected: 0.0 Total: 33.1

Final Waste Form: Stored: 36.9 Projected: 0.0 Total: 36.9

WASTE STREAM DESCRIPTION	This waste stream, generated at Bettis Atomic Power Laboratory, consists primarily of rags, gloves, plastic, paper, carbo-wax, filters, oil-contaiminated "absorbal" (diatomaceous earth), and rubber. The waste stream may also contain noncombustible items. Levels of hazardous materials are unknwon. The waste organic material may exceed 14 lb/ft3 for drums. Although limited fines are expected from floor sweepings, powder, etc., levels of fines should be within WIPP-WAC limits. The waste is packaged with no free liquids, sludges, explosives, compressed gases, pyrophoric, or corrosive materials. Small waste items are wrapped in plastic and placed inside 3.25-inch diameter by 7-inch high tin-plated steel cans with screw-on lids. The can is placed inside a steel "juice can" with roll-seam sealed lids. Larger items are wrapped in plastic and placed inside 4.375-inch diameter by 20 or 24-inch high tin-plated steel cans. The sealed can was wrapped in plastic and placed inside 55-gallon waste drums lined with 90-mil drum liners. Between 15-60 cans fit in a drum. Prior to 1974, each drum was assayed by calculating weight differences to determine fissile content. After 1974, a U-232 assay gauge was used.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [COMBUSTIBLES] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W172, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W174	Handling:	CH	NMVP #:	N/A	Stream Name:	HIGH-LEVEL ACID:Cert-repack
Inventory Date:							
Local ID:	ID-MDO-834T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Solidified Inorganics
Waste Matrix Code:	S3113						

AS-GENERATED EPA CODES

D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	394.2	173.1	528.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	399.0	173.1	528.8
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-240	2.02E-02
Pu-239	1.02E-02
Pu-238	1.52E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	30.3	0.0	0.0	0.0	0.0	30.3
Totals	30.3	0.0	0.0	0.0	0.0	30.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	30.4	0.0	0.0	0.0	0.0	30.4
Totals	30.4	0.0	0.0	0.0	0.0	30.4

As-Generated Form: Stored: 30.3 Projected: 0.0 Total: 30.3

Final Waste Form: Stored: 30.4 Projected: 0.0 Total: 30.4

WASTE STREAM DESCRIPTION	This waste comes from Mound Laboratory. It consists of acid liquids, mainly nitric, absorbed onto a clay called Florco. The Florco is then placed in a drum bag in a drum lined with a 90-mil poly liner. Analytical assay values are available for each drum.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (20%) of the MWIR waste stream, [HIGH-LEVEL ACID] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W174, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W174	Handling:	CH	NMVP #:	N/A	Stream Name:	HIGH-LEVEL ACID:Direct Ship	Inventory Date:
Local ID:	ID-MDO-834T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Solidified Inorganics	Waste Matrix Code: S3113

AS-GENERATED EPA CODES

D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	349.0	153.2	468.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	353.2	153.2	468.2
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.5		
Packaging Material Plastic:	33.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-240	2.02E-02
Pu-239	1.02E-02
Pu-238	1.52E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	120.8	0.0	0.0	0.0	0.0	120.8
Totals	120.8	0.0	0.0	0.0	0.0	120.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	106.9	0.0	0.0	0.0	0.0	106.9
SWB used to overpack 55 gallon drums	27.4	0.0	0.0	0.0	0.0	27.4
Totals	134.3	0.0	0.0	0.0	0.0	134.3

As-Generated Form: Stored: 120.8 Projected: 0.0 Total: 120.8

Final Waste Form: Stored: 134.3 Projected: 0.0 Total: 134.3

WASTE STREAM DESCRIPTION	This waste comes from Mound Laboratory. It consists of acid liquids, mainly nitric, absorbed onto a clay called Florco. The Florco is then placed in a drum bag in a drum lined with a 90-mil poly liner. Analytical assay values are available for each drum.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (80%) of the MWIR waste stream, [HIGH-LEVEL ACID] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W174, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W177	Handling:	CH	NMVP #:	N/A	Stream Name:	HIGH-LEVEL CAUSTIC:Cert-repack	Inventory Date:
Local ID:	ID-MDO-835T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Solidified Inorganics	Waste Matrix Code: S3113

AS-GENERATED EPA CODES

D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	394.2	173.1	528.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	399.0	173.1	528.8
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.81E-08
Pu-241	2.12E-03
Pu-240	3.17E-05
Pu-239	5.16E-03
Pu-238	1.74E+01
Pu-236	2.31E-06

M

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	141.0	0.0	0.0	0.0	0.0	141.0
Totals	141.0	0.0	0.0	0.0	0.0	141.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	141.0	0.0	0.0	0.0	0.0	141.0
Totals	141.0	0.0	0.0	0.0	0.0	141.0

As-Generated Form: Stored: 141.0 Projected: 0.0 Total: 141.0

Final Waste Form: Stored: 141.0 Projected: 0.0 Total: 141.0

WASTE STREAM DESCRIPTION	This waste comes from Mound Laboratory. It consists of caustic waste and neutralized waste liquids, absorbed onto a clay called Florco. The Florco is then placed in a drum bag in a drum lined with a 90-mil poly liner. Analytical assay values are available for each drum.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [HIGH-LEVEL CAUSTIC] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W177, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W177	Handling:	CH	NMVP #:	N/A	Stream Name:	HIGH-LEVEL CAUSTIC:Direct Ship
Inventory Date:							
Local ID:	ID-MDO-835T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Solidified Inorganics
Waste Matrix Code:	S3113						

AS-GENERATED EPA CODES

D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	348.8	153.2	467.9
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	353.1	153.2	467.9
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.6		
Packaging Material Plastic:	33.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.81E-08
Pu-241	2.12E-03
Pu-240	3.17E-05
Pu-239	5.16E-03
Pu-238	1.74E+01
Pu-236	2.31E-06

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	35.2	0.0	0.0	0.0	0.0	35.2
Totals	35.2	0.0	0.0	0.0	0.0	35.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	31.2	0.0	0.0	0.0	0.0	31.2
SWB used to overpack 55 gallon drums	8.0	0.0	0.0	0.0	0.0	8.0
Totals	39.2	0.0	0.0	0.0	0.0	39.2

As-Generated Form: Stored: 35.2 Projected: 0.0 Total: 35.2

Final Waste Form: Stored: 39.2 Projected: 0.0 Total: 39.2

WASTE STREAM DESCRIPTION	This waste comes from Mound Laboratory. It consists of caustic waste and neutralized waste liquids, absorbed onto a clay called Florco. The Florco is then placed in a drum bag in a drum lined with a 90-mil poly liner. Analytical assay values are available for each drum.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [HIGH-LEVEL CAUSTIC] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W177, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W179	Handling:	CH	NMVP #:	N/A	Stream Name:	HIGH-LEVEL SLUDGE/CEMENT:Cert-repack
Inventory Date:							
Local ID:	ID-MDO-836T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Solidified Inorganics
Waste Matrix Code:	S3121						

AS-GENERATED EPA CODES

APP8, F003, F001, D011, D010, D009, D008, D007, D006, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	394.2	173.1	528.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	399.0	173.1	528.8
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	5.45E-08
Pu-241	5.70E-03
Pu-240	6.25E-05
Pu-239	1.20E-04
Pu-238	6.94E+00
Pu-236	7.30E-06

M

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	4.5	0.0	0.0	0.0	0.0	4.5
Totals	4.5	0.0	0.0	0.0	0.0	4.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.6	0.0	0.0	0.0	0.0	4.6
Totals	4.6	0.0	0.0	0.0	0.0	4.6

As-Generated Form: Stored: 4.5 Projected: 0.0 Total: 4.5

Final Waste Form: Stored: 4.6 Projected: 0.0 Total: 4.6

WASTE STREAM DESCRIPTION	This waste is from Mound Labs. The waste consists of shower water, decontamination water, cooling water, and some acids and caustics which have been solidified in portland cement. The cement is poured into a drum lined with a 90-mil poly liner. Analytical assay values are available on a batch basis.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [HIGH-LEVEL SLUDGE/CEMENT] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W179, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

M

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W179	Handling:	CH	NMVP #:	N/A	Stream Name:	HIGH-LEVEL SLUDGE/CEMENT:Direct Ship
Local ID:	ID-MDO-836T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Solidified Inorganics

Inventory Date:

Waste Matrix Code: S3121

AS-GENERATED EPA CODES

APP8, F003, F001, D011, D010, D009, D008, D007, D006, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	325.0	142.7	435.9
Vitrified:	*0.0*	*0.0*	*0.0*
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	328.9	142.7	435.9
Solidified Organic Material:	*0.0*	*0.0*	*0.0*
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	156.3		
Packaging Material Plastic:	30.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-242	5.45E-08
Pu-241	5.70E-03
Pu-240	6.25E-05
Pu-239	1.20E-04
Pu-238	6.94E+00
Pu-236	7.30E-06

M

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.1	0.0	0.0	0.0	0.0	1.1
Totals	1.1	0.0	0.0	0.0	0.0	1.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated Form: Stored: 1.1 Projected: 0.0 Total: 1.1

Final Waste Form: Stored: 1.5 Projected: 0.0 Total: 1.5

WASTE STREAM DESCRIPTION	This waste is from Mound Labs. The waste consists of shower water, decontamination water, cooling water, and some acids and caustics which have been solidified in portland cement. The cement is poured into a drum lined with a 90-mil poly liner. Analytical assay values are available on a batch basis.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [HIGH-LEVEL SLUDGE/CEMENT] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W179, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W181	Handling:	CH	NMVP #:	N/A	Stream Name:	LAUNDRY SLUDGE	Inventory Date:	
Local ID:	ID-RFO-978T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3120

AS-GENERATED EPA CODES

APP8, F003, F002, F001, D009, D008, D007, D006, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	3.4	3.4	3.4
Other Inorganic Material:	34.8	0.0	85.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	34.8	0.0	85.2
Rubber:	0.0	0.0	0.0
Plastics:	9.4	8.7	9.8
Solidified Inorganic Material:	463.2	321.6	568.2
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	308.8	214.4	378.8
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

211

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-242	5.54E-06
Pu-241	2.05E+00
Pu-240	7.70E-02
Pu-239	3.39E-01
Pu-238	1.20E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	9.6	0.0	0.0	0.0	0.0	9.6
Totals	9.6	0.0	0.0	0.0	0.0	9.6

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 9.6 Projected: 0.0 Total: 9.6

WASTE STREAM DESCRIPTION	This waste is from Rocky Flats. The waste consists of sludge from laundry operations that have been cemented in portland. The cement is described as a poor grade.
WASTE STREAM SOURCE	This waste stream was generated at Building 776: Laundry. The generating process is: Laundry sludge.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W186	Handling:	CH	NMVP #:	N/A	Stream Name:	COMBUSTIBLE WASTE	Inventory Date:	
Local ID:	ID-RFO-116T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

APP8, F002, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	2.9	0.0	7.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	575.6	105.8	961.5
Rubber:	55.2	55.2	163.5
Plastics:	165.6	105.8	288.5
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

116

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
U-235	6.50E-07
Pu-242	1.00E-05
Pu-241	3.71E+00
Pu-240	1.39E-01
Pu-239	6.14E-01
Pu-238	2.17E-02
Am-241	6.66E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	2694.5	0.0	0.0	0.0	0.0	2694.5
Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	2695.1	0.0	0.0	0.0	0.0	2695.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2695.3	0.0	0.0	0.0	0.0	2695.3
Totals	2695.3	0.0	0.0	0.0	0.0	2695.3

As-Generated Form: Stored: 2695.1 Projected: 0.0 Total: 2695.1

Final Waste Form: Stored: 2695.3 Projected: 0.0 Total: 2695.3

WASTE STREAM DESCRIPTION	TRU combustible waste consists of cellulosic plastic or cloth waste from various processes. The content codes packaged and included in 116 are 330, 336, 337, and 491.
WASTE STREAM SOURCE	This waste stream was generated at All Rocky Flats Plant Plutonium Areas: Production. The generating process is: Various
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W187	Handling:	CH	NMVP #:	N/A	Stream Name:	EQUIPMENT:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-980T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3123

AS-GENERATED EPA CODES

F002, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	4.93E-05
Pu-241	1.82E+01
Pu-240	6.85E-01
Pu-239	3.02E+00
Pu-238	1.07E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION	The information for this code is unclear, except that the waste stream consists of only one drum and was generated at the Rocky Flats Plant in 1973. Assay records indicate that the drum contains Content Code 290 sludge, and that the sludge may be in a single bottle. It is assumed that drum preparation, packaging, and inspection were done according to post-1972 procedures. Information given is for IDC 290 sludge.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [EQUIPMENT] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W187, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W187	Handling:	CH	NMVP #:	N/A	Stream Name:	EQUIPMENT:Uncertifiable	Inventory Date:
Local ID:	ID-RFO-980T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code: S3123

AS-GENERATED EPA CODES

F002, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	9.86E-05
Pu-241	3.65E+01
Pu-240	1.37E+00
Pu-239	6.04E+00
Pu-238	2.13E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	The information for this code is unclear, except that the waste stream consists of only one drum and was generated at the Rocky Flats Plant in 1973. Assay records indicate that the drum contains Content Code 290 sludge, and that the sludge may be in a single bottle. It is assumed that drum preparation, packaging, and inspection were done according to post-1972 procedures. Information given is for IDC 290 sludge.
WASTE STREAM SOURCE	This record represents the [Uncertifiable] portion (80%) of the MWIR waste stream, [EQUIPMENT] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W187, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the avail ability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W188	Handling:	CH	NMVP #:	N/A	Stream Name:	BLDG 776 PROCESS SLUDGE:Cert-repack	Inventory Date:	
Local ID:	ID-RFO-976T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3120

AS-GENERATED EPA CODES

APP8, F003, F002, F001, D028, D022, D009, D008, D007, D006, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	3.4	3.4	3.4
Other Inorganic Material:	34.8	0.0	85.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	9.4	8.7	9.8
Solidified Inorganic Material:	463.2	321.6	568.2
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	308.8	214.4	378.8
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

211

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	2.01E-05
Pu-241	7.43E+00
Pu-240	2.79E-01
Pu-239	1.23E+00
Pu-238	4.34E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0
Totals	1.0	0.0	0.0	0.0	0.0	1.0

As-Generated Form: Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form: Stored: 1.0 Projected: 0.0 Total: 1.0

WASTE STREAM DESCRIPTION	This waste is from Rocky Flats and consists of sludge from floor drains in a Pu process facility that have been cemented in portland. The cement is described as a poor grade. Also may be laundry sludges, material contents given are for an organic laundry sludge.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [BLDG 776 PROCESS SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W168, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W188	Handling:	CH	NMVP #:	N/A	Stream Name:	BLDG 776 PROCESS SLUDGE:Direct Ship	Inventory Date:
Local ID:	ID-RFO-976T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code: S3120

AS-GENERATED EPA CODES

APP8, F003, F002, F001, D028, D022, D009, D008, D007, D006, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	1.0	1.0	1.0
Other Inorganic Material:	11.7	1.0	27.1
Vitrified:	0.0	0.0	0.0
Cellulosics:	10.6	0.0	25.9
Rubber:	0.0	0.0	0.0
Plastics:	2.9	2.7	3.0
Solidified Inorganic Material:	282.4	196.1	346.4
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	188.3	130.7	230.9
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	23.5		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

211

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	2.01E-05
Pu-241	7.43E+00
Pu-240	2.79E-01
Pu-239	1.23E+00
Pu-238	4.34E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION	This waste is from Rocky Flats and consists of sludge from floor drains in a Pu process facility that have been cemented in portland. The cement is described as a poor grade. Also may be laundry sludges, material contents given are for an organic laundry sludge.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [BLDG 776 PROCESS SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W188, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W189	Handling:	CH	NMVP #:	N/A	Stream Name:	BENELEX AND PLEXIGLASS:Cert-repack	Inventory Date:	
Local ID:	ID-RFO-464T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

APP8, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	1.9	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	7.7	0.0	0.0
Other Inorganic Material:	111.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	39.2	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	203.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

221

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.34E-05
Pu-241	4.95E+00
Pu-240	1.86E-01
Pu-239	8.20E-01
Pu-238	2.90E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	4.9	0.0	0.0	0.0	0.0	4.9
Totals	4.9	0.0	0.0	0.0	0.0	4.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	5.0	0.0	0.0	0.0	0.0	5.0
Totals	5.0	0.0	0.0	0.0	0.0	5.0

As-Generated Form: Stored: 4.9 Projected: 0.0 Total: 4.9

Final Waste Form: Stored: 5.0 Projected: 0.0 Total: 5.0

WASTE STREAM DESCRIPTION

This waste, generated at Rocky Flats Plant, consists of Benelex, which is used for neutron shielding, and Plexiglas glovebox windows. Lead sheeting (1/8 to 1/4 in. thick) may be attached to some benelex pieces. Benelex was usually coated with fire-retardant paint. In addition to Plexiglas, other types of glass such as leaded-glass may be present in the waste.

The waste may include limited amounts of surgeons' gloves, metal hinges on Benelex gloveport doors, pieces of angle iron attached to larger pieces of Benelex, and rubber gaskets from glovebox windows. Content code 302 replaced content code 464 during 1973.

The majority of waste drums will contain pieces of benelex (gloveport doors, etc.) generated from routine maintenance and renovation projects conducted primarily in 1972. Plexiglas and other types of glass may be found mixed in with the benelex and/or segregated and contained in a limited number of waste drums. Pieces of benelex waste were usually placed directly into prepared 55-gallon drums. Any contaminated Benelex was usually contained in plastic bags or wrapped in plastic sheeting. Plexiglas windows were usually contained in plastic before being placed in a prepared 55-gallon drum. Oil dri may have been added to the waste drums.

The waste boxes were generated during 1973 and 1974 and are believed to contain larger pieces of benelex shielding on angle iron frames that were removed during final fire cleanup operations in building 776. It is believed that the benelex came from the south foundry line in building 776, which was not directly involved in the 1969 fire and was decontaminated and placed back in operation.

WASTE STREAM SOURCE

This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [BENELEX AND PLEXIGLASS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W189, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W189	Handling:	CH	NMVP #:	N/A	Stream Name:	BENELEX AND PLEXIGLASS:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-464T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

APP8, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	1.6	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	6.5	0.0	0.0
Other Inorganic Material:	93.9	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	33.1	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	171.7	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	153.2		
Packaging Material Plastic:	31.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

221

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.34E-05
Pu-241	4.95E+00
Pu-240	1.86E-01
Pu-239	8.20E-01
Pu-238	2.90E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.3	0.0	0.0	0.0	0.0	1.3
Totals	1.3	0.0	0.0	0.0	0.0	1.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.2	0.0	0.0	0.0	0.0	1.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	1.7	0.0	0.0	0.0	0.0	1.7

As-Generated Form: Stored: 1.3 Projected: 0.0 Total: 1.3

Final Waste Form: Stored: 1.7 Projected: 0.0 Total: 1.7

WASTE STREAM DESCRIPTION

This waste, generated at Rocky Flats Plant, consists of Benelex, which is used for neutron shielding, and Plexiglas glovebox windows. Lead sheeting (1/8 to 1/4 in. thick) may be attached to some benelex pieces. Benelex was usually coated with fire-retardant paint. In addition to Plexiglas, other types of glass such as leaded-glass may be present in the waste.

The waste may include limited amounts of surgeons' gloves, metal hinges on Benelex gloveport doors, pieces of angle iron attached to larger pieces of Benelex, and rubber gaskets from glovebox windows. Content code 302 replaced content code 464 during 1973.

The majority of waste drums will contain pieces of benelex (gloveport doors, etc.) generated from routine maintenance and renovation projects conducted primarily in 1972. Plexiglas and other types of glass may be found mixed in with the benelex and/or segregated and contained in a limited number of waste drums. Pieces of benelex waste were usually placed directly into prepared 55-gallon drums. Any contaminated Benelex was usually contained in plastic bags or wrapped in plastic sheeting. Plexiglas windows were usually contained in plastic before being placed in a prepared 55-gallon drum. Oil dri may have been added to the waste drums.

The waste boxes were generated during 1973 and 1974 and are believed to contain larger pieces of benelex shielding on angle iron frames that were removed during final fire cleanup operations in building 776. It is believed that the benelex came from the south foundry line in building 776, which was not directly involved in the 1969 fire and was decontaminated and placed back in operation.

WASTE STREAM SOURCE

This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [BENELEX AND PLEXIGLASS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W189, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W197	Handling:	CH	NMVP #:	N/A	Stream Name:	MOIST PAPER AND RAGS:CH-Uncert	Inventory Date:	
Locat ID:	ID-RFO-336T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D022, D008, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	9.73E-05
Pu-242	1.11E-03
Pu-241	4.12E+02
Pu-240	1.55E+01
Pu-239	6.82E+01
Pu-238	2.41E+00
Am-241	8.23E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	66.6	0.0	0.0	0.0	0.0	66.6
Drum	145.2	0.0	0.0	0.0	0.0	145.2
Totals	211.8	0.0	0.0	0.0	0.0	211.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.3	0.0	0.0	0.0	0.0	2.3
Totals	2.3	0.0	0.0	0.0	0.0	2.3

As-Generated Form: Stored: 211.8 Projected: 0.0 Total: 211.8

Final Waste Form: Stored: 2.3 Projected: 0.0 Total: 2.3

WASTE STREAM DESCRIPTION

The waste stream is from the Rocky Flats Plant and primarily consists of damp or wet line- and nonline-generated dry combustible materials such as paper, rags, plastics, surgical gloves, canvas, cardboard, wood, PE bottles, and rubber. Some combustibles may be damp or moist. Moisture content may range from damp to wet and may include water, soaps, nitric acid, or caustic solutions. Limited amounts of noncombustibles such as glass, concrete, cement, leaded glovebox gloves, and metal scrap may aslo be present. These wastes are mostly from decontamination and cleanup work and may be from any plutonium area.

Wastes shipped to INEL after 1975 require some processing to remove free liquids, aerosol cans or other noncertifiable materials. Information is lacking for waste shipped prior to 1975. The average waste organic material content may range from 6 lb/ft3 for boxes to over 14 lb/ft3 for drums. Combustibles in the waste exceed 25 volume percent. Although limited fines are expected from floor sweepings, powder, etc., levels of fines should be within WIPP-WAC limits. Some free liquids may be present. No explosives or compressed gases are present after 1976. No aerosol cans are present after 1977. Prior to 1975 come spontaneous ignition material and nitric acid may be included.

Depending on when and where the waste was generated at Rocky Flats, the waste packaging may vary. For wastes generated prior to 1975, packaging information is incomplete. Waste may be placed directly into drums, or single or double contained in plastic. Some waste may also be placed in PE bottles and then double bagged. Oil-Dri may have been added to some drums. Drums were prepared according to pre and post-1972 procedures. Inspections were done and adsorbents (Oil-Dri and vermiculite) were added according to standard procedures.

Some waste was also containerized in plywood boxes. The waste is contained in one to four layers of plastic. Oil-Dri and portland cement were added in layers with the waste. Depending on moisture conditions, the amount of absorbent varies from 25-200 lb per box. Boxes were prepared according to pre and post-1972 procedures.

After 1974, waste was typically double contained in PVC and PE bags or else placed in PE bottles and then double-bagged. Absorbent was not added to the waste. Until 1977, some of the waste was compacted in prepared waste drums. Some drummed waste was also repacked into boxes to reduce volume. All drums are assayed. The fissile content of boxes is determined from the combined assays of the waste drums emptied into the boxes. After 1980, boxes received a second assay. Drums containing wastes from the Americium Recovery Line are lead-lined.

WASTE STREAM SOURCE

This record represents the [CH-Uncert] portion (27.21%) of the MWIR waste stream, [MOIST PAPER AND RAGS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W197, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W197	Handling:	RH	NMVP #:	116	Stream Name:	MOIST PAPER AND RAGS:RH-Cert-repack	Inventory Date:	
Local ID:	ID-RFO-336T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D022, D008, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.5	0.0	3.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	1.4	0.0	8.5
Other Inorganic Material:	12.8	0.0	48.6
Vitrified:	0.0	0.0	0.0
Cellulosics:	33.1	1.1	105.3
Rubber:	6.4	0.0	41.6
Plastics:	50.6	9.1	176.5
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

116, 216

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
U-235	9.73E-07
Pu-242	1.11E-05
Pu-241	4.12E+00
Pu-240	1.55E-01
Pu-239	6.82E-01
Pu-238	2.41E-02
Am-241	8.23E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	11.2	0.0	0.0	0.0	0.0	11.2
Totals	11.2	0.0	0.0	0.0	0.0	11.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	16.6	0.0	0.0	0.0	0.0	16.6
Totals	16.6	0.0	0.0	0.0	0.0	16.6

As-Generated Form: Stored: 11.2 Projected: 0.0 Total: 11.2

Final Waste Form: Stored: 16.6 Projected: 0.0 Total: 16.6

WASTE STREAM DESCRIPTION

The waste stream is from the Rocky Flats Plant and primarily consists of damp or wet line- and nonline-generated dry combustible materials such as paper, rags, plastics, surgical gloves, canvas, cardboard, wood, PE bottles, and rubber. Some combustibles may be damp or moist. Moisture content may range from damp to wet and may include water, soaps, nitric acid, or caustic solutions. Limited amounts of noncombustibles such as glass, concrete, cement, leaded glovebox gloves, and metal scrap may aslo be present. These wastes are mostly from decontamination and cleanup work and may be from any plutonium area.

Wastes shipped to INEL after 1975 require some processing to remove free liquids, aerosol cans or other noncertifiable materials. Information is lacking for waste shipped prior to 1975. The average waste organic material content may range from 6 lb/ft3 for boxes to over 14 lb/ft3 for drums. Combustibles in the waste exceed 25 volume percent. Although limited fines are expected from floor sweepings, powder, etc., levels of fines should be within WIPP-WAC limits. Some free liquids may be present. No explosives or compressed gases are present after 1976. No aerosol cans are present after 1977. Prior to 1975 come spontaneous ignition material and nitric acid may be included.

Depending on when and where the waste was generated at Rocky Flats, the waste packaging may vary. For wastes generated prior to 1975, packaging information is incomplete. Waste may be placed directly into drums, or single or double contained in plastic. Some waste may also be placed in PE bottles and then double bagged. Oil-Dri may have been added to some drums. Drums were prepared according to pre and post-1972 procedures. Inspections were done and adsorbents (Oil-Dri and vermiculite) were added according to standard procedures.

Some waste was also containerized in plywood boxes. The waste is contained in one to four layers of plastic. Oil-Dri and portland cement were added in layers with the waste. Depending on moisture conditions, the amount of absorbent varies from 25-200 lb per box. Boxes were prepared according to pre and post-1972 procedures.

After 1974, waste was typically double contained in PVC and PE bags or else placed in PE bottles and then double-bagged. Absorbent was not added to the waste. Until 1977, some of the waste was compacted in prepared waste drums. Some drummed waste was also repacked into boxes to reduce volume. All drums are assayed. The fissile content of boxes is determined from the combined assays of the waste drums emptied into the boxes. After 1980, boxes received a second assay. Drums containing wastes from the Americium Recovery Line are lead-lined.

WASTE STREAM SOURCE

This record represents the [RH-Cert-repack] portion (1.45%) of the MWIR waste stream, [MOIST PAPER AND RAGS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W197, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W197	Handling:	RH	NMVP #:	N/A	Stream Name:	MOIST PAPER AND RAGS:RH-Uncert	Inventory Date:
Local ID:	ID-RFO-336T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code: S5300

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D022, D008, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	*0.0*	*0.0*	*0.0*
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	9.73E-05
Pu-242	1.11E-03
Pu-241	4.12E+02
Pu-240	1.55E+01
Pu-239	6.82E+01
Pu-238	2.41E+00
Am-241	8.23E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	4.7	0.0	0.0	0.0	0.0	4.7
Totals	4.7	0.0	0.0	0.0	0.0	4.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	1.2	0.0	0.0	0.0	0.0	1.2
Totals	1.2	0.0	0.0	0.0	0.0	1.2

As-Generated Form: Stored: 4.7 Projected: 0.0 Total: 4.7

Final Waste Form: Stored: 1.2 Projected: 0.0 Total: 1.2

WASTE STREAM DESCRIPTION

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The waste stream is from the Rocky Flats Plant and primarily consists of damp or wet line- and nonline-generated dry combustible materials such as paper, rags, plastics, surgical gloves, canvas, cardboard, wood, PE bottles, and rubber. Some combustibles may be damp or moist. Moisture content may range from damp to wet and may include water, soaps, nitric acid, or caustic solutions. Limited amounts of noncombustibles such as glass, concrete, cement, leaded glovebox gloves, and metal scrap may aslo be present. These wastes are mostly from decontamination and cleanup work and may be from any plutonium area.

Wastes shipped to INEL after 1975 require some processing to remove free liquids, aerosol cans or other noncertifiable materials. Information is lacking for waste shipped prior to 1975. The average waste organic material content may range from 6 lb/ft3 for boxes to over 14 lb/ft3 for drums. Combustibles in the waste exceed 25 volume percent. Although limited fines are expected from floor sweepings, powder, etc., levels of fines should be within WIPP-WAC limits. Some free liquids may be present. No explosives or compressed gases are present after 1976. No aerosol cans are present after 1977. Prior to 1975 come spontaneous ignition material and nitric acid may be included.

Depending on when and where the waste was generated at Rocky Flats, the waste packaging may vary. For wastes generated prior to 1975, packaging information is incomplete. Waste may be placed directly into drums, or single or double contained in plastic. Some waste may also be placed in PE bottles and then double bagged. Oil-Dri may have been added to some drums. Drums were prepar~d according to pre and post-1972 procedures. Inspections were done and adsorbents (Oil-Dri and vermiculite) were added according to standard procedures.

Some waste was also containerized in plywood boxes. The waste is contained in one to four layers of plastic. Oil-Dri and portland cement were added in layers with the waste. Depending on moisture conditions, the amount of absorbent varies from 25-200 lb per box. Boxes were prepared according to pre and post-1972 procedures.

After 1974, waste was typically double contained in PVC and PE bags or else placed in PE bottles and then double-bagged. Absorbent was not added to the waste. Until 1977, some of the waste was compacted in prepared waste drums. Some drummed waste was also repacked into boxes to reduce volume. All drums are assayed. The fissile content of boxes is determined from the combined assays of the waste drums emptied into the boxes. After 1980, boxes received a second assay. Drums containing wastes from the Americium Recovery Line are lead-lined.

WASTE STREAM SOURCE

This record represents the [RH-Uncert] portion (.62%) of the MWIR waste stream, [MOIST PAPER AND RAGS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W197, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W197	Handling:	CH	NMVP #:	116	Stream Name:	MOIST PAPER AND RAGS:CH-Cert-repack	Inventory Date:	
Local ID:	ID-RFO-336T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D022, D008, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.7	0.0	4.4
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	2.0	0.0	12.2
Other Inorganic Material:	18.3	0.0	69.7
Vitrified:	0.0	0.0	0.0
Cellulosics:	47.4	1.6	151.0
Rubber:	9.1	0.0	59.7
Plastics:	72.6	13.1	253.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	*0.0*	*0.0*	*0.0*
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

116, 216

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	9.73E-07
Pu-242	1.11E-05
Pu-241	4.12E+00
Pu-240	1.55E-01
Pu-239	6.82E-01
Pu-238	2.41E-02
Am-241	8.23E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	510.4	0.0	0.0	0.0	0.0	510.4
Drum	34.1	0.0	0.0	0.0	0.0	34.1
Totals	544.5	0.0	0.0	0.0	0.0	544.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	510.2	0.0	0.0	0.0	0.0	510.2
Totals	510.2	0.0	0.0	0.0	0.0	510.2

As-Generated Form: Stored: 544.5 Projected: 0.0 Total: 544.5

Final Waste Form: Stored: 510.2 Projected: 0.0 Total: 510.2

WASTE STREAM DESCRIPTION

The waste stream is from the Rocky Flats Plant and primarily consists of damp or wet line- and nonline-generated dry combustible materials such as paper, rags, plastics, surgical gloves, canvas, cardboard, wood, PE bottles, and rubber. Some combustibles may be damp or moist. Moisture content may range from damp to wet and may include water, soaps, nitric acid, or caustic solutions. Limited amounts of noncombustibles such as glass, concrete, cement, leaded glovebox gloves, and metal scrap may aslo be present. These wastes are mostly from decontamination and cleanup work and may be from any plutonium area.

Wastes shipped to INEL after 1975 require some processing to remove free liquids, aerosol cans or other noncertifiable materials. Information is lacking for waste shipped prior to 1975. The average waste organic material content may range from 6 lb/ft3 for boxes to over 14 lb/ft3 for drums. Combustibles in the waste exceed 25 volume percent. Although limited fines are expected from floor sweepings, powder, etc., levels of fines should be within WIPP-WAC limits. Some free liquids may be present. No explosives or compressed gases are present after 1976. No aerosol cans are present after 1977. Prior to 1975 come spontaneous ignition material and nitric acid may be included.

Depending on when and where the waste was generated at Rocky Flats, the waste packaging may vary. For wastes generated prior to 1975, packaging information is incomplete. Waste may be placed directly into drums, or single or double contained in plastic. Some waste may also be placed in PE bottles and then double bagged. Oil-Dri may have been added to some drums. Drums were prepared according to pre and post-1972 procedures. Inspections were done and adsorbents (Oil-Dri and vermiculite) were added according to standard procedures.

Some waste was also containerized in plywood boxes. The waste is contained in one to four layers of plastic. Oil-Dri and portland cement were added in layers with the waste. Depending on moisture conditions, the amount of absorbent varies from 25-200 lb per box. Boxes were prepared according to pre and post-1972 procedures.

After 1974, waste was typically double contained in PVC and PE bags or else placed in PE bottles and then double-bagged. Absorbent was not added to the waste. Until 1977, some of the waste was compacted in prepared waste drums. Some drummed waste was also repacked into boxes to reduce volume. All drums are assayed. The fissile content of boxes is determined from the combined assays of the waste drums emptied into the boxes. After 1980, boxes received a second assay. Drums containing wastes from the Americium Recovery Line are lead-lined.

WASTE STREAM SOURCE

This record represents the [CH-Cert-repack] portion (65.54%) of the MWIR waste stream, [MOIST PAPER AND RAGS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W197, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W197	Handling:	CH	NMVP #:	116	Stream Name:	MOIST PAPER AND RAGS:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-336T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D022, D008, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.6	0.0	3.9
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	1.8	0.0	10.8
Other Inorganic Material:	16.1	0.0	61.5
Vitrified:	0.0	0.0	0.0
Cellulosics:	41.8	1.4	133.3
Rubber:	8.0	0.0	52.7
Plastics:	64.1	11.6	223.3
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.9		
Packaging Material Plastic:	32.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

116, 216

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	9.73E-07
Pu-242	1.11E-05
Pu-241	4.12E+00
Pu-240	1.55E-01
Pu-239	6.82E-01
Pu-238	2.41E-02
Am-241	8.23E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	40.3	0.0	0.0	0.0	0.0	40.3
Totals	40.3	0.0	0.0	0.0	0.0	40.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	35.8	0.0	0.0	0.0	0.0	35.8
SWB used to overpack 55 gallon drums	9.4	0.0	0.0	0.0	0.0	9.4
Totals	45.2	0.0	0.0	0.0	0.0	45.2

As-Generated Form: Stored: 40.3 Projected: 0.0 Total: 40.3

Final Waste Form: Stored: 45.2 Projected: 0.0 Total: 45.2

WASTE STREAM DESCRIPTION

The waste stream is from the Rocky Flats Plant and primarily consists of damp or wet line- and nonline-generated dry combustible materials such as paper, rags, plastics, surgical gloves, canvas, cardboard, wood, PE bottles, and rubber. Some combustibles may be damp or moist. Moisture content may range from damp to wet and may include water, soaps, nitric acid, or caustic solutions. Limited amounts of noncombustibles such as glass, concrete, cement, leaded glovebox gloves, and metal scrap may aslo be present. These wastes are mostly from decontamination and cleanup work and may be from any plutonium area.

Wastes shipped to INEL after 1975 require some processing to remove free liquids, aerosol cans or other noncertifiable materials. Information is lacking for waste shipped prior to 1975. The average waste organic material content may range from 6 lb/ft3 for boxes to over 14 lb/ft3 for drums. Combustibles in the waste exceed 25 volume percent. Although limited fines are expected from floor sweepings, powder, etc., levels of fines should be within WIPP-WAC limits. Some free liquids may be present. No explosives or compressed gases are present after 1976. No aerosol cans are present after 1977. Prior to 1975 come spontaneous ignition material and nitric acid may be included.

Depending on when and where the waste was generated at Rocky Flats, the waste packaging may vary. For wastes generated prior to 1975, packaging information is incomplete. Waste may be placed directly into drums, or single or double contained in plastic. Some waste may also be placed in PE bottles and then double bagged. Oil-Dri may have been added to some drums. Drums were prepared according to pre and post-1972 procedures. Inspections were done and adsorbents (Oil-Dri and vermiculite) were added according to standard procedures.

Some waste was also containerized in plywood boxes. The waste is contained in one to four layers of plastic. Oil-Dri and portland cement were added in layers with the waste. Depending on moisture conditions, the amount of absorbent varies from 25-200 lb per box. Boxes were prepared according to pre and post-1972 procedures.

After 1974, waste was typically double contained in PVC and PE bags or else placed in PE bottles and then double-bagged. Absorbent was not added to the waste. Until 1977, some of the waste was compacted in prepared waste drums. Some drummed waste was also repacked into boxes to reduce volume. All drums are assayed. The fissile content of boxes is determined from the combined assays of the waste drums emptied into the boxes. After 1980, boxes received a second assay. Drums containing wastes from the Americium Recovery Line are lead-lined.

WASTE STREAM SOURCE

This record represents the [Direct Ship] portion (5.18%) of the MWIR waste stream, [MOIST PAPER AND RAGS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W197, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W198	Handling:	CH	NMVP #:	116	Stream Name:	PLASTICS, TEFLON, WASH, PVC:CH-Cert-repack	Inventory Date:	
Local ID:	ID-RFO-337T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D022, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.2	0.0	1.1
Other Inorganic Material:	21.9	7.4	49.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	21.5	0.0	141.0
Rubber:	71.3	0.0	317.0
Plastics:	56.6	0.0	102.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

116, 216

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-235	9.00E-08
Pu-242	5.11E-05
Pu-241	5.36E+00
Pu-240	2.01E-01
Pu-239	8.87E-01
Pu-238	3.13E-02
Np-237	2.28E-05
Am-241	1.62E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	22.2	0.0	0.0	0.0	0.0	22.2
Drum	97.3	0.0	0.0	0.0	0.0	97.3
Totals	119.5	0.0	0.0	0.0	0.0	119.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	119.6	0.0	0.0	0.0	0.0	119.6
Totals	119.6	0.0	0.0	0.0	0.0	119.6

As-Generated Form: Stored: 119.5 Projected: 0.0 Total: 119.5

Final Waste Form: Stored: 119.6 Projected: 0.0 Total: 119.6

WASTE STREAM DESCRIPTION

This waste stream is from the Rocky Flats Plant and consists of various types of plastics such as PE, polyvinyl chloride (PVC), Teflon (TFE), and nonleaded rubber items. The waste may be bags, vials, bottles, sheeting, and surgical gloves. Some other combustible wastes such as respirator facemasks and paper may be included. Some small amounts of noncombustible wastes may also be present.

Information is lacking for waste shipped prior to 1975. The average waste organic material content may range from 6 lb/ft3 for boxes to over 14 lb/ft3 for drums. Levels of fines should be within WIPP-WAC limits, since added adsorbents are not included in the fines evalutaion. There should be no sludges, free liquids, explosives, compressed gases, pyrophoric, toxic, or corrosive materials.

Depending on when and where the waste was generated at Rocky Flats, the waste packaging may vary. For wastes generated prior to 1975, packaging information is incomplete. Waste may be placed directly into prepared drums, or double contained in plastic bags. Small amounts of portland cement were added to bottles to absorb any residual liquids. Oil-Dri may have been added to some drums. Drums were prepared according to pre and post-1972 procedures. Inspections were done and adsorbents (Oil-Dri or vermiculite) were added according to standard procedures.

Some waste was also containerized in plywood boxes. Boxes were prepared according to pre and post-1972 procedures. Some of the waste containers are lead-lined.

WASTE STREAM SOURCE

This record represents the [CH-Cert-repack] portion (70.11%) of the MWIR waste stream, [PLASTICS, TEFLON, WASH, PVC] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W198, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W198	Handling:	CH	NMVP #:	N/A	Stream Name:	PLASTICS, TEFLON, WASH, PVC:CH-Uncert	Inventory Date:	
Local ID:	ID-RFO-337T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D022, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	9.00E-06
Pu-242	5.11E-03
Pu-241	5.36E+02
Pu-240	2.01E+01
Pu-239	8.87E+01
Pu-238	3.13E+00
Np-237	2.28E-03
Am-241	1.62E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	20.1	0.0	0.0	0.0	0.0	20.1
Totals	20.1	0.0	0.0	0.0	0.0	20.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 20.1 Projected: 0.0 Total: 20.1

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

M

WASTE STREAM DESCRIPTION

This waste stream is from the Rocky Flats Plant and consists of various types of plastics such as PE, polyvinyl chloride (PVC), Teflon (TFE), and nonleaded rubber items. The waste may be bags, vials, bottles, sheeting, and surgical gloves. Some other combustible wastes such as respirator facemasks and paper may be included. Some small amounts of noncombustible wastes may also be present.

Information is lacking for waste shipped prior to 1975. The average waste organic material content may range from 6 lb/ft3 for boxes to over 14 lb/ft3 for drums. Levels of fines should be within WIPP-WAC limits, since added adsorbents are not included in the fines evalutaion. There should be no sludges, free liquids, explosives, compressed gases, pyrophoric, toxic, or corrosive materials.

Depending on when and where the waste was generated at Rocky Flats, the waste packaging may vary. For wastes generated prior to 1975, packaging information is incomplete. Waste may be placed directly into prepared drums, or double contained in plastic bags. Small amounts of portland cement were added to bottles to absorb any residual liquids. Oil-Dri may have been added to some drums. Drums were prepared according to pre and post-1972 procedures. Inspections were done and adsorbents (Oil-Dri or vermiculite) were added according to standard procedures.

Some waste was also containerized in plywood boxes. Boxes were prepared according to pre and post-1972 procedures. Some of the waste containers are lead-lined.

WASTE STREAM SOURCE

This record represents the [CH-Uncert] portion (11.8%) of the MWIR waste stream, [PLASTICS, TEFLON, WASH, PVC] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W198, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W198	Handling:	RH	NMVP #:	116	Stream Name:	PLASTICS, TEFLON, WASH, PVC:RH-Cert-repack	Inventory Date:	
Local ID:	ID-RFO-337T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D022, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.2	0.0	0.8
Other Inorganic Material:	15.3	5.2	34.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	15.0	0.0	98.3
Rubber:	49.7	0.0	221.1
Plastics:	39.5	0.0	71.1
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

116, 216

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-235	9.00E-08
Pu-242	5.11E-05
Pu-241	5.36E+00
Pu-240	2.01E-01
Pu-239	8.87E-01
Pu-238	3.13E-02
Np-237	2.28E-05
Am-241	1.62E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	2.4	0.0	0.0	0.0	0.0	2.4
Totals	2.4	0.0	0.0	0.0	0.0	2.4

As-Generated Form: Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form: Stored: 2.4 Projected: 0.0 Total: 2.4

M

WASTE STREAM DESCRIPTION

This waste stream is from the Rocky Flats Plant and consists of various types of plastics such as PE, polyvinyl chloride (PVC), Teflon (TFE), and nonleaded rubber items. The waste may be bags, vials, bottles, sheeting, and surgical gloves. Some other combustible wastes such as respirator facemasks and paper may be included. Some small amounts of noncombustible wastes may also be present.

Information is lacking for waste shipped prior to 1975. The average waste organic material content may range from 6 lb/ft3 for boxes to over 14 lb/ft3 for drums. Levels of fines should be within WIPP-WAC limits, since added adsorbents are not included in the fines evalutaion. There should be no sludges, free liquids, explosives, compressed gases, pyrophoric, toxic, or corrosive materials.

Depending on when and where the waste was generated at Rocky Flats, the waste packaging may vary. For wastes generated prior to 1975, packaging information is incomplete. Waste may be placed directly into prepared drums, or double contained in plastic bags. Small amounts of portland cement were added to bottles to absorb any residual liquids. Oil-Dri may have been added to some drums. Drums were prepared according to pre and post-1972 procedures. Inspections were done and adsorbents (Oil-Dri or vermiculite) were added according to standard procedures.

Some waste was also containerized in plywood boxes. Boxes wer^ prepared according to pre and post-1972 procedures. Some of the waste containers are lead-lined.

WASTE STREAM SOURCE

This record represents the [RH-Cert-repack] portion (.52%) of the MWIR waste stream, [PLASTICS, TEFLON, WASH, PVC] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W198, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W198	Handling:	RH	NMVP #:	N/A	Stream Name:	PLASTICS, TEFLON, WASH, PVC:RH-Uncert
Inventory Date:							
Local ID:	ID-RFO-337T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal
Waste Matrix Code:	S5440						

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D022, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
U-235	9.00E-06
Pu-242	5.11E-03
Pu-241	5.36E+02
Pu-240	2.01E+01
Pu-239	8.87E+01
Pu-238	3.13E+00
Np-237	2.28E-03
Am-241	1.62E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	1.2	0.0	0.0	0.0	0.0	1.2
Totals	1.2	0.0	0.0	0.0	0.0	1.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 1.2 Projected: 0.0 Total: 1.2

WASTE STREAM DESCRIPTION

This waste stream is from the Rocky Flats Plant and consists of various types of plastics such as PE, polyvinyl chloride (PVC), Teflon (TFE), and nonleaded rubber items. The waste may be bags, vials, bottles, sheeting, and surgical gloves. Some other combustible wastes such as respirator facemasks and paper may be included. Some small amounts of noncombustible wastes may also be present.

Information is lacking for waste shipped prior to 1975. The average waste organic material content may range from 6 lb/ft3 for boxes to over 14 lb/ft3 for drums. Levels of fines should be within WIPP-WAC limits, since added adsorbents are not included in the fines evalutaion. There should be no sludges, free liquids, explosives, compressed gases, pyrophoric, toxic, or corrosive materials.

Depending on when and where the waste was generated at Rocky Flats, the waste packaging may vary. For wastes generated prior to 1975, packaging information is incomplete. Waste may be placed directly into prepared drums, or double contained in plastic bags. Small amounts of portland cement were added to bottles to absorb any residual liquids. Oil-Dri may have been added to some drums. Drums were prepared according to pre and post-1972 procedures. Inspections were done and adsorbents (Oil-Dri or vermiculite) were added according to standard procedures.

Some waste was also containerized in plywood boxes. Boxes were prepared according to pre and post-1972 procedures. Some of the waste containers are lead-lined.

WASTE STREAM SOURCE

This record represents the [RH-Uncert] portion (.17%) of the MWIR waste stream, [PLASTICS, TEFLON, WASH, PVC] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W198, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W198	Handling:	CH	NMVP #:	116	Stream Name:	PLASTICS, TEFLON, WASH, PVC:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-337T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D022, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.2	0.0	1.0
Other Inorganic Material:	19.4	6.6	43.6
Vitrified:	0.0	0.0	0.0
Cellulosics:	19.1	0.0	125.0
Rubber:	63.2	0.0	281.1
Plastics:	50.2	0.0	90.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.3		
Packaging Material Plastic:	33.1		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

116, 216

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-235	9.00E-08
Pu-242	5.11E-05
Pu-241	5.36E+00
Pu-240	2.01E-01
Pu-239	8.87E-01
Pu-238	3.13E-02
Np-237	2.28E-05
Am-241	1.62E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	29.7	0.0	0.0	0.0	0.0	29.7
Totals	29.7	0.0	0.0	0.0	0.0	29.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	26.2	0.0	0.0	0.0	0.0	26.2
SWB used to overpack 55 gallon drums	6.6	0.0	0.0	0.0	0.0	6.6
Totals	32.8	0.0	0.0	0.0	0.0	32.8

As-Generated Form: Stored: 29.7 Projected: 0.0 Total: 29.7

Final Waste Form: Stored: 32.8 Projected: 0.0 Total: 32.8

WASTE STREAM DESCRIPTION	This waste stream is from the Rocky Flats Plant and consists of various types of plastics such as PE, polyvinyl chloride (PVC), Teflon (TFE), and nonleaded rubber items. The waste may be bags, vials, bottles, sheeting, and surgical gloves. Some other combustible wastes such as respirator facemasks and paper may be included. Some small amounts of noncombustible wastes may also be present. Information is lacking for waste shipped prior to 1975. The average waste organic material content may range from 6 lb/ft3 for boxes to over 14 lb/ft3 for drums. Levels of fines should be within WIPP-WAC limits, since added adsorbents are not included in the fines evalutaion. There should be no sludges, free liquids, explosives, compressed gases, pyrophoric, toxic, or corrosive materials. Depending on when and where the waste was generated at Rocky Flats, the waste packaging may vary. For wastes generated prior to 1975, packaging information is incomplete. Waste may be placed directly into prepared drums, or double contained in plastic bags. Small amounts of portland cement were added to bottles to absorb any residual liquids. Oil-Dri may have been added to some drums. Drums were prepared according to pre and post-1972 procedures. Inspections were done and adsorbents (Oil-Dri or vermiculite) were added according to standard procedures. Some waste was also containerized in plywood boxes. Boxes were prepared according to pre and post-1972 procedures. Some of the waste containers are lead-lined.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (17.4%) of the MWIR waste stream, [PLASTICS, TEFLON, WASH, PVC] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W198, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W199	Handling:	CH	NMVP #:	N/A	Stream Name:	WASHABLES, RUBBER, PLASTICS:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-460T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	174.1		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	6.05E-05
Pu-241	2.24E+01
Pu-240	8.41E-01
Pu-239	3.71E+00
Pu-238	1.31E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.9 Projected: 0.0 Total: 0.9

WASTE STREAM DESCRIPTION	There is very little content information for this waste stream, which consists of washables, rubber, and plastic wastes from the Rocky Flats Plant . Waste matrix composition has been split equally among rubber, rags, and plastic.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [WASHABLES, RUBBER, PLASTICS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W199, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

M

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W199	Handling:	CH	NMVP #:	N/A	Stream Name:	WASHABLES, RUBBER, PLASTICS:Uncertifiable	Inventory Date:	
Local ID:	ID-RFO-460T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	6.05E-03
Pu-241	2.24E+03
Pu-240	8.41E+01
Pu-239	3.71E+02
Pu-238	1.31E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.1	0.0	0.0	0.0	0.0	1.1
Totals	1.1	0.0	0.0	0.0	0.0	1.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 1.1 Projected: 0.0 Total: 1.1

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	There is very little content information for this waste stream, which consists of washables, rubber, and plastic wastes from the Rocky Flats Plant . Waste matrix composition has been split equally among rubber, rags, and plastic.
WASTE STREAM SOURCE	This record represents the [Uncertifiable] portion (80%) of the MWIR waste stream, [WASHABLES, RUBBER, PLASTICS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W199, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W202	Handling:	CH	NMVP #:	N/A	Stream Name:	WOOD:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-970T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

F003, F002, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	14.5	11.4	17.5
Vitrified:	0.0	0.0	0.0
Cellulosics:	130.6	119.4	141.9
Rubber:	0.0	0.0	0.0
Plastics:	97.5	10.4	260.7
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	174.1		
Packaging Material Plastic:	26.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

216

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-242	3.97E-06
Pu-241	1.47E+00
Pu-240	5.53E-02
Pu-239	2.44E-01
Pu-238	8.60E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.9 Projected: 0.0 Total: 0.9

WASTE STREAM DESCRIPTION	This waste stream is from the Rocky Flats Plant and primarily consists of wood in the form of lumber, plywood, filter frames, and possibly ladders. Some other items such as plastic sheeting, Kimwipes, and other combustibles are also present. Plastic sheeting may have some paint coatings. Limited noncombustibles such as nails and sheetrock may also be included. Content Code 970 has not been used since 1978; it is similar to Content Code 330. The average waste organic material content usually exceeds 6 lb/ft3 for boxes and 14 lb/ft3 for drums. Although limited sawdust fines are expected, levels of fines should be within WIPP-WAC limits. The waste is packaged with no free liquids, sludges, explosives, compressed gases, pyrophoric or corrosive materials. Depending on when and where the waste was generated at Rocky Flats, the waste packaging may vary. Most wastes were placed directly into prepared boxes. Waste such as filter frames were flattened, double-bagged, and placed in prepared 55-gallon drums. Drums and boxes were prepared according to pre-and post-1972 procedures. Inspections were done and adsorbents (Oil-Dri and vemiculite) were added according to standard procedures. All drums are assayed. The fissile content of boxes is determined by surveying the contents and calculating the quantity of fissile material.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (.39%) of the MWIR waste stream, [WOOD] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W202, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W202	Handling:	CH	NMVP #:	N/A	Stream Name:	WOOD:Cert-repack	Inventory Date:	
Local ID:	ID-RFO-970T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

F003, F002, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	20.7	16.3	24.9
Vitrified:	0.0	0.0	0.0
Cellulosics:	186.0	170.0	202.0
Rubber:	0.0	0.0	0.0
Plastics:	138.8	14.8	371.3
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

216

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-242	3.97E-06
Pu-241	1.47E+00
Pu-240	5.53E-02
Pu-239	2.44E-01
Pu-238	8.60E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	107.8	0.0	0.0	0.0	0.0	107.8
Drum	1.7	0.0	0.0	0.0	0.0	1.7
Totals	109.5	0.0	0.0	0.0	0.0	109.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	109.6	0.0	0.0	0.0	0.0	109.6
Totals	109.6	0.0	0.0	0.0	0.0	109.6

As-Generated Form: Stored: 109.5 Projected: 0.0 Total: 109.5

Final Waste Form: Stored: 109.6 Projected: 0.0 Total: 109.6

M

WASTE STREAM DESCRIPTION

This waste stream is from the Rocky Flats Plant and primarily consists of wood in the form of lumber, plywood, filter frames, and possibly ladders. Some other items such as plastic sheeting, Kimwipes, and other combustibles are also present. Plastic sheeting may have some paint coatings. Limited noncombustibles such as nails and sheetrock may also be included.

Content Code 970 has not been used since 1978; it is similar to Content Code 330. The average waste organic material content usually exceeds 6 lb/ft3 for boxes and 14 lb/ft3 for drums. Although limited sawdust fines are expected, levels of fines should be within WIPP-WAC limits. The waste is packaged with no free liquids, sludges, explosives, compressed gases, pyrophoric or corrosive materials.

Depending on when and where the waste was generated at Rocky Flats, the waste packaging may vary. Most wastes were placed directly into prepared boxes. Waste such as filter frames were flattened, double-bagged, and placed in prepared 55-gallon drums.

Drums and boxes were prepared according to pre-and post-1972 procedures. Inspections were done and adsorbents (Oil-Dri and vermiculite) were added according to standard procedures. All drums are assayed. The fissile content of boxes is determined by surveying the contents and calculating the quantity of fissile material.

WASTE STREAM SOURCE

This record represents the [Cert-repack] portion (99.61%) of the MWIR waste stream, [WOOD] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W202, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W203	Handling:	CH	NMVP #:	N/A	Stream Name:	COMBUSTIBLE EQUIPMENT BOXES OR FLOOR SWE:Direct Ship	Inventory Date:	
Local ID:	ID-MDO-826T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

D009

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.2	0.0	10.9
Other Inorganic Material:	6.8	0.0	10.6
Vitrified:	0.0	0.0	0.0
Cellulosics:	38.5	38.5	432.0
Rubber:	11.8	11.8	118.8
Plastics:	117.3	97.0	432.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	23.5		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	3.78E-08
Pu-241	3.95E-03
Pu-240	1.07E-02
Pu-239	2.20E-02
Pu-238	9.02E-01
Pu-236	5.06E-06
Am-241	1.69E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION

M

This waste stream, generated at Mound Laboratory, includes two different types of waste depending on when the waste was generated. Prior to 1980, this content code was used for glovebox floor sweepings and rust. The actual amount of floor sweepings is small. After 1981, this content code is used for large, combustible waste items such as plastic tanks, plexiglass shielding and windows, wood, and fiberglass conveyor glovebox sections. These types of large combustible wastes were included in Content Code 824 prior to 1980. Limited amounts of smaller combustibles such as shoe covers and surgical gloves are also included.

The organic content exceeds 6 lb/ft3. The waste is 100 volume percent combustible. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste.

All of this waste is packaged in standard boxes. Each item is generally rinsed with water, wiped with wet rags and single or double contained in plastic. Some items were placed directly into boxes without additional containment, depending on contamination levels. Floor sweepings are contained in 1-gallon plastic-coated cardboard cartons. Florco absorbent is added to each box for residual liquids. Each box is assayed using a box counter, and spot radiation and contamination checks are also done.

WASTE STREAM SOURCE

This record represents the [Direct Ship] portion (.16%) of the MWIR waste stream, [COMBUSTIBLE EQUIPMENT BOXES OR FLOOR SWE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W203, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done. Waste is expected to be non-mixed after removal of cartons of mercury.

MANAGEMENT COMMENTS

Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS

All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W203	Handling:	CH	NMVP #:	N/A	Stream Name:	COMBUSTIBLE EQUIPMENT BOXES OR FLOOR SWE:Cert-repack
Inventory Date:							
Local ID:	ID-MDO-826T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Heterogeneous
Waste Matrix Code:	S5300						

AS-GENERATED EPA CODES

D009

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.3	0.0	17.9
Other Inorganic Material:	11.1	0.0	17.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	63.0	63.0	706.7
Rubber:	19.3	19.3	194.4
Plastics:	191.8	158.7	706.7
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	3.78E-08
Pu-241	3.95E-03
Pu-240	1.07E-02
Pu-239	2.20E-02
Pu-238	9.02E-01
Pu-236	5.06E-06
Am-241	1.69E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	72.9	0.0	0.0	0.0	0.0	72.9
Totals	72.9	0.0	0.0	0.0	0.0	72.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	73.2	0.0	0.0	0.0	0.0	73.2
Totals	73.2	0.0	0.0	0.0	0.0	73.2

As-Generated Form: Stored: 72.9 Projected: 0.0 Total: 72.9

Final Waste Form: Stored: 73.2 Projected: 0.0 Total: 73.2

WASTE STREAM DESCRIPTION

M

This waste stream, generated at Mound Laboratory, includes two different types of waste depending on when the waste was generated. Prior to 1980, this content code was used for glovebox floor sweepings and rust. The actual amount of floor sweepings is small. After 1981, this content code is used for large, combustible waste items such as plastic tanks, plexiglass shielding and windows, wood, and fiberglass conveyor glovebox sections. These types of large combustible wastes were included in Content Code 824 prior to 1980. Limited amounts of smaller combustibles such as shoe covers and surgical gloves are also included.

The organic content exceeds 6 lb/ft3. The waste is 100 volume percent combustible. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste.

All of this waste is packaged in standard boxes. Each item is generally rinsed with water, wiped with wet rags and single or double contained in plastic. Some items were placed directly into boxes without additional containment, depending on contamination levels. Floor sweepings are contained in 1-gallon plastic-coated cardboard cartons. Florco absorbent is added to each box for residual liquids. Each box is assayed using a box counter, and spot radiation and contamination checks are also done.

WASTE STREAM SOURCE

This record represents the [Cert-repack] portion (91.57%) of the MWIR waste stream, [COMBUSTIBLE EQUIPMENT BOXES OR FLOOR SWE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W203, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done. Waste is expected to be non-mixed after removal of cartons of mercury.

MANAGEMENT COMMENTS

Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS

All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W203	Handling:	CH	NMVP #:	N/A	Stream Name:	COMBUSTIBLE EQUIPMENT BOXES OR FLOOR SWE:Uncert-sweepings
Inventory Date:							
Local ID:	ID-MDO-826T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Inorganic Non-Metal
Waste Matrix Code:	S5300						

AS-GENERATED EPA CODES

D009

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	7.56E-08
Pu-241	7.90E-03
Pu-240	2.14E-02
Pu-239	4.40E-02
Pu-238	1.80E+00
Pu-236	1.01E-05
Am-241	3.38E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	6.3	0.0	0.0	0.0	0.0	6.3
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	6.6	0.0	0.0	0.0	0.0	6.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.3	0.0	0.0	0.0	0.0	3.3
Totals	3.3	0.0	0.0	0.0	0.0	3.3

As-Generated Form: Stored: 6.6 Projected: 0.0 Total: 6.6

Final Waste Form: Stored: 3.3 Projected: 0.0 Total: 3.3

WASTE STREAM DESCRIPTION

M

This waste stream, generated at Mound Laboratory, includes two different types of waste depending on when the waste was generated. Prior to 1980, this content code was used for glovebox floor sweepings and rust. The actual amount of floor sweepings is small. After 1981, this content code is used for large, combustible waste items such as plastic tanks, plexiglass shielding and windows, wood, and fiberglass conveyor glovebox sections. These types of large combustible wastes were included in Content Code 824 prior to 1980. Limited amounts of smaller combustibles such as shoe covers and surgical gloves are also included.

The organic content exceeds 6 lb/ft3. The waste is 100 volume percent combustible. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste.

All of this waste is packaged in standard boxes. Each item is generally rinsed with water, wiped with wet rags and single or double contained in plastic. Some items were placed directly into boxes without additional containment, depending on contamination levels. Floor sweepings are contained in 1-gallon plastic-coated cardboard cartons. Florco absorbent is added to each box for residual liquids. Each box is assayed using a box counter, and spot radiation and contamination checks are also done.

WASTE STREAM SOURCE

This record represents the [Uncert-sweepings] portion (8.25%) of the MWIR waste stream, [COMBUSTIBLE EQUIPMENT BOXES OR FLOOR SWE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W203, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done. Waste is expected to be non-mixed after removal of cartons of mercury.

MANAGEMENT COMMENTS

Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS

All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W203	Handling:	CH	NMVP #:	N/A	Stream Name:	COMBUSTIBLE EQUIPMENT BOXES OR FLOOR SWE:Uncert-Hg	Inventory Date:	
Local ID:	ID-MDO-826T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

D009

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.26E-08
Pu-241	1.32E-03
Pu-240	3.57E-03
Pu-239	7.33E-03
Pu-238	3.01E-01
Pu-236	1.69E-06
Am-241	5.63E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

M

WASTE STREAM DESCRIPTION

This waste stream, generated at Mound Laboratory, includes two different types of waste depending on when the waste was generated. Prior to 1980, this content code was used for glovebox floor sweepings and rust. The actual amount of floor sweepings is small. After 1981, this content code is used for large, combustible waste items such as plastic tanks, plexiglass shielding and windows, wood, and fiberglass conveyor glovebox sections. These types of large combustible wastes were included in Content Code 824 prior to 1980. Limited amounts of smaller combustibles such as shoe covers and surgical gloves are also included.

The organic content exceeds 6 lb/ft3. The waste is 100 volume percent combustible. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste.

All of this waste is packaged in standard boxes. Each item is generally rinsed with water, wiped with wet rags and single or double contained in plastic. Some items were placed directly into boxes without additional containment, depending on contamination levels. Floor sweepings are contained in 1-gallon plastic-coated cardboard cartons. Florco absorbent is added to each box for residual liquids. Each box is assayed using a box counter, and spot radiation and contamination checks are also done.

WASTE STREAM SOURCE

This record represents the [Uncert-Hg] portion (.02%) of the MWIR waste stream, [COMBUSTIBLE EQUIPMENT BOXES OR FLOOR SWE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk amalg TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W203, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done. Waste is expected to be non-mixed after removal of cartons of mercury.

MANAGEMENT COMMENTS

Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS

All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W204	Handling:	CH	NMVP #:	N/A	Stream Name:	COMBUSTIBLE EQUIPMENT DRUMS:Direct Ship	Inventory Date:	
Local ID:	ID-MDO-827T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

D009, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.2	0.0	12.6
Other Inorganic Material:	7.8	0.0	12.1
Vitrified:	0.0	0.0	0.0
Cellulosics:	44.2	44.2	495.4
Rubber:	13.5	13.5	136.3
Plastics:	134.5	111.3	495.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	174.1		
Packaging Material Plastic:	26.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	2.69E-06
Pu-241	3.22E-01
Pu-240	5.04E-03
Pu-239	1.49E-02
Pu-238	9.17E+00
Pu-236	3.40E-04
Am-241	7.66E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.9 Projected: 0.0 Total: 0.9

WASTE STREAM DESCRIPTION	There is no content information on this code. This waste is probably like Content Code 826 (combustible equipment boxes) from Mound Laboratory except that it is smaller items which fit into drums instead of boxes.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [COMBUSTIBLE EQUIPMENT DRUMS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W204, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W204	Handling:	CH	NMVP #:	N/A	Stream Name:	COMBUSTIBLE EQUIPMENT DRUMS:Cert-repack
Inventory Date:							
Local ID:	ID-MDO-827T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Heterogeneous
Waste Matrix Code:	S5300						

AS-GENERATED EPA CODES

D009, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.3	0.0	17.9
Other Inorganic Material:	11.1	0.0	17.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	63.0	63.0	706.7
Rubber:	19.3	19.3	194.4
Plastics:	191.8	158.7	706.7
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	2.69E-06
Pu-241	3.22E-01
Pu-240	5.04E-03
Pu-239	1.49E-02
Pu-238	9.17E+00
Pu-236	3.40E-04
Am-241	7.66E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.3	0.0	0.0	0.0	0.0	1.3
Totals	1.3	0.0	0.0	0.0	0.0	1.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.7	0.0	0.0	0.0	0.0	1.7
Totals	1.7	0.0	0.0	0.0	0.0	1.7

As-Generated Form: Stored: 1.3 Projected: 0.0 Total: 1.3

Final Waste Form: Stored: 1.7 Projected: 0.0 Total: 1.7

WASTE STREAM DESCRIPTION	There is no content information on this code. This waste is probably like Content Code 826 (combustible equipment boxes) from Mound Laboratory except that it is smaller items which fit into drums instead of boxes.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (79.98%) of the MWIR waste stream, [COMBUSTIBLE EQUIPMENT DRUMS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W204, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W204	Handling:	CH	NMVP #:	N/A	Stream Name:	COMBUSTIBLE EQUIPMENT DRUMS:Uncert-Hg
Inventory Date:							
Local ID:	ID-MDO-827T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Uncategorized Metal
Waste Matrix Code:	S5300						

AS-GENERATED EPA CODES

D009, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	8.97E-07
Pu-241	1.07E-01
Pu-240	1.68E-03
Pu-239	4.98E-03
Pu-238	3.06E+00
Pu-236	1.13E-04
Am-241	2.55E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	There is no content information on this code. This waste is probably like Content Code 826 (combustible equipment boxes) from Mound Laboratory except that it is smaller items which fit into drums instead of boxes.
WASTE STREAM SOURCE	This record represents the [Uncert-Hg] portion (.02%) of the MWIR waste stream, [COMBUSTIBLE EQUIPMENT DRUMS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk amalg TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W204, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W205	Handling:	CH	NMVP #:	N/A	Stream Name:	LOW SPECIFIC ACTIVITY PLASTICS, PAPER, E:Cert-repack	Inventory Date:	
Local ID:	ID-RFO-900T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

F003, F002, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	37.8	4.4	98.6
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	91.9	70.1	119.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	131.0	63.6	251.0
Rubber:	23.0	8.7	36.3
Plastics:	18.0	31.5	49.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

216

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	8.76E-07
Pu-241	3.24E-01
Pu-240	1.22E-02
Pu-239	5.37E-02
Pu-238	1.90E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.8 Projected: 0.0 Total: 0.8

WASTE STREAM DESCRIPTION

This waste stream is from the Rocky Flats Plant and primarily consists of nonline-generated combustible materials such as plastics, paper, empty PE bottles, booties, paper, plastic sheeting, and surgical gloves. The waste may be dry or damp. Limited amounts of noncombustibles may also be present.

The waste stream is the same as Content Code 330 and has not been used since 1974 except for 3 barrels of U-238 contaminated wastes added in 1975. The waste stream is not discussed together with Content Code 330 because of some different descriptive information in the data base.

The waste is mostly low specific activity (LSA, <100 nci/g) which will not require shipment to WIPP, The average waste organic material content usually exceeds 14 lb/ft3 for drums and 6 lb/ft3 for boxes. Levels of fines should be within WIPP-WAC limits. There should be no sludges, free liquids, explosives, compressed gases, pyrophoric, toxic, or corrosive materials.

Depending on when and where the waste was generated at Rocky Flats, the waste packaging may vary. Most wastes were placed directly into prepared 55-gallon drums or boxes. Up to 15 lb of portland cement was added where necessary to absorb small amounts of free liquids in containers.

Drums and boxes were prepared according to pre and post-1972 procedures. Inspections were done and adsorbents (Oil-Dri and vermiculite) were added according to standard procedures. All drums are assayed. The fissile content of boxes is determined by surveying the contents and calculating the quantity of fissile material.

WASTE STREAM SOURCE

This record represents the [Cert-repack] portion (79.1%) of the MWIR waste stream, [LOW SPECIFIC ACTIVITY PLASTICS, PAPER, E] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W205, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W205	Handling:	CH	NMVP #:	N/A	Stream Name:	LOW SPECIFIC ACTIVITY PLASTICS, PAPER, E:Uncert	Inventory Date:	
Local ID:	ID-RFO-900T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

F003, F002, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	8.76E-05
Pu-241	3.24E+01
Pu-240	1.22E+00
Pu-239	5.37E+00
Pu-238	1.90E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION

This waste stream is from the Rocky Flats Plant and primarily consists of nonline-generated combustible materials such as plastics, paper, empty PE bottles, booties, paper, plastic sheeting, and surgical gloves. The waste may be dry or damp. Limited amounts of noncombustibles may also be present.

The waste stream is the same as Content Code 330 and has not been used since 1974 except for 3 barrels of U-238 contaminated wastes added in 1975. The waste stream is not discussed together with Content Code 330 because of some different descriptive information in the data base.

The waste is mostly low specific activity (LSA, <100 nci/g) which will not require shipment to WIPP, The average waste organic material content usually exceeds 14 lb/ft3 for drums and 6 lb/ft3 for boxes. Levels of fines should be within WIPP-WAC limits. There should be no sludges, free liquids, explosives, compressed gases, pyrophoric, toxic, or corrosive materials.

Depending on when and where the waste was generated at Rocky Flats, the waste packaging may vary. Most wastes were placed directly into prepared 55-gallon drums or boxes. Up to 15 lb of portland cement was added where necessary to absorb small amounts of free liquids in containers.

Drums and boxes were prepared according to pre and post-1972 procedures. Inspections were done and adsorbents (Oil-Dri and vermiculite) were added according to standard procedures. All drums are assayed. The fissile content of boxes is determined by surveying the contents and calculating the quantity of fissile material.

WASTE STREAM SOURCE

This record represents the [Uncert] portion (.9%) of the MWIR waste stream, [LOW SPECIFIC ACTIVITY PLASTICS, PAPER, E] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W205, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W205	Handling:	CH	NMVP #:	N/A	Stream Name:	LOW SPECIFIC ACTIVITY PLASTICS, PAPER, E:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-900T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

F003, F002, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	23.1	2.7	60.1
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	56.0	42.7	72.5
Vitrified:	0.0	0.0	0.0
Cellulosics:	79.9	38.8	153.0
Rubber:	14.0	5.3	22.1
Plastics:	11.0	19.2	29.9
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	23.5		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

216

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	8.76E-07
Pu-241	3.24E-01
Pu-240	1.22E-02
Pu-239	5.37E-02
Pu-238	1.90E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION

This waste stream is from the Rocky Flats Plant and primarily consists of nonline-generated combustible materials such as plastics, paper, empty PE bottles, booties, paper, plastic sheeting, and surgical gloves. The waste may be dry or damp. Limited amounts of noncombustibles may also be present.

The waste stream is the same as Content Code 330 and has not been used since 1974 except for 3 barrels of U-238 contaminated wastes added in 1975. The waste stream is not discussed together with Content Code 330 because of some different descriptive information in the data base.

The waste is mostly low specific activity (LSA, <100 ncl/g) which will not require shipment to WIPP. The average waste organic material content usually exceeds 14 lb/ft3 for drums and 6 lb/ft3 for boxes. Levels of fines should be within WIPP-WAC limits. There should be no sludges, free liquids, explosives, compressed gases, pyrophoric, toxic, or corrosive materials.

Depending on when and where the waste was generated at Rocky Flats, the waste packaging may vary. Most wastes were placed directly into prepared 55-gallon drums or boxes. Up to 15 lb of portland cement was added where necessary to absorb small amounts of free liquids in containers.

Drums and boxes were prepared according to pre and post-1972 procedures. Inspections were done and adsorbents (Oil-Dri and vermiculite) were added according to standard procedures. All drums are assayed. The fissile content of boxes is determined by surveying the contents and calculating the quantity of fissile material.

WASTE STREAM SOURCE

This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [LOW SPECIFIC ACTIVITY PLASTICS, PAPER, E] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W205, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM-COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W206	Handling:	CH	NMVP #:	N/A	Stream Name:	HEPA FILTER WASTE:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-119T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Filter	Waste Matrix Code:	S5410

AS-GENERATED EPA CODES

APP8, F002, F001, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	148.6		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Yes

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

119

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-235	1.76E-07
Pu-242	2.44E-05
Pu-241	9.02E+00
Pu-240	3.39E-01
Pu-239	1.49E+00
Pu-238	5.27E-02
Am-241	3.98E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	9.3	0.0	0.0	0.0	0.0	9.3
Totals	9.3	0.0	0.0	0.0	0.0	9.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	8.5	0.0	0.0	0.0	0.0	8.5
SWB used to overpack 55 gallon drums	2.4	0.0	0.0	0.0	0.0	2.4
Totals	10.9	0.0	0.0	0.0	0.0	10.9

As-Generated Form: Stored: 9.3 Projected: 0.0 Total: 9.3

Final Waste Form: Stored: 10.9 Projected: 0.0 Total: 10.9

WASTE STREAM DESCRIPTION	TRU HEPA filter waste consists of HEPA filters or processed filter media from filter change operations. The IDCs packaged and included in 119 are: 376 and 490.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (2.46%) of the MWIR waste stream, [HEPA FILTER WASTE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W206, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W206	Handling:	CH	NMVP #:	N/A	Stream Name:	HEPA FILTER WASTE:Uncertifiable	Inventory Date:	
Local ID:	ID-RFO-119T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5410

AS-GENERATED EPA CODES

APP8, F002, F001, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Yes

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	2.93E-06
Pu-242	4.06E-04
Pu-241	1.50E+02
Pu-240	5.65E+00
Pu-239	2.49E+01
Pu-238	8.79E-01
Am-241	6.64E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	336.0	0.0	0.0	0.0	0.0	336.0
Drum	37.7	0.0	0.0	0.0	0.0	37.7
Totals	373.8	0.0	0.0	0.0	0.0	373.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	22.5	0.0	0.0	0.0	0.0	22.5
Totals	22.5	0.0	0.0	0.0	0.0	22.5

As-Generated Form: Stored: 373.8 Projected: 0.0 Total: 373.8

Final Waste Form: Stored: 22.5 Projected: 0.0 Total: 22.5

WASTE STREAM DESCRIPTION	TRU HEPA filter waste consists of HEPA filters or processed filter media from filter change operations. The IDCs packaged and included in 119 are: 376 and 490.
WASTE STREAM SOURCE	This record represents the [Uncertifiable] portion (97.54%) of the MWIR waste stream, [HEPA FILTER WASTE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W206, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W207	Handling:	CH	NMVP #:	N/A	Stream Name:	FULFLO INCINERATOR FILTERS:Uncertifiable	Inventory Date:
Local ID:	ID-RFO-328T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code: S5410

AS-GENERATED EPA CODES

F002, F001, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	3.88E-03
Pu-241	1.44E+03
Pu-240	5.39E+01
Pu-239	2.38E+02
Pu-238	8.39E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form; Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form; Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	Ful-flo (trade name) filters are in-line cartridge filters used to remove particulates from specific waste streams. The filters are one piece molded filters and the filter media is a red fibrous material or polypropylene.
WASTE STREAM SOURCE	This record represents the [Uncertifiable] portion (55.06%) of the MWIR waste stream, [FULFLO INCINERATOR FILTERS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W207, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W207	Handling:	CH	NMVP #:	N/A	Stream Name:	FULFLO INCINERATOR FILTERS:Direct Ship	Inventory Date:
Local ID:	ID-RFO-328T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Filter	Waste Matrix Code: S5410

AS-GENERATED EPA CODES

F002, F001, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	174.1		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	2.33E-04
Pu-241	8.61E+01
Pu-240	3.24E+00
Pu-239	1.43E+01
Pu-238	5.04E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.9 Projected: 0.0 Total: 0.9

WASTE STREAM DESCRIPTION	Ful-flo (trade name) filters are in-line cartridge filters used to remove particulates from specific waste streams. The filters are one piece molded filters and the filter media is a red fibrous material or polypropylene.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [FULFLO INCINERATOR FILTERS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W207, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W207	Handling:	CH	NMVP #:	N/A	Stream Name:	FULFLO INCINERATOR FILTERS:Cert-repack
Inventory Date:							
Local ID:	ID-RFO-328T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Filter
Waste Matrix Code:	S5410						

AS-GENERATED EPA CODES

F002, F001, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	2.33E-04
Pu-241	8.61E+01
Pu-240	3.24E+00
Pu-239	1.43E+01
Pu-238	5.04E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

WASTE STREAM DESCRIPTION	Ful-flo (trade name) filters are in-line cartridge filters used to remove particulates from specific waste streams. The filters are one piece molded filters and the filter media is a red fibrous material or polypropylene.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (24.94%) of the MWIR waste stream, [FULFLO INCINERATOR FILTERS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W207, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W208	Handling:	CH	NMVP #:	N/A	Stream Name:	ABSOLUTE 8 X 8 FILTERS:CH-Uncert	Inventory Date:	
Local ID:	ID-RFO-335T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5410

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D028, D022, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Yes

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
U-235	3.86E-05
Pu-242	7.80E-04
Pu-241	2.69E+02
Pu-240	1.08E+01
Pu-239	4.78E+01
Pu-238	1.69E+00
Am-241	1.32E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	15.9	0.0	0.0	0.0	0.0	15.9
Drum	7.8	0.0	0.0	0.0	0.0	7.8
Totals	23.7	0.0	0.0	0.0	0.0	23.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.5	0.0	0.0	0.0	0.0	1.5
Totals	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated Form: Stored: 23.7 Projected: 0.0 Total: 23.7

Final Waste Form: Stored: 1.5 Projected: 0.0 Total: 1.5

WASTE STREAM DESCRIPTION

This waste stream, generated at the Rocky Flats Plant, consists of absolute filters used for filtering intake and exhaust air from glovebox lines. The filters are composed of wood or particle board frames and an asbestos-type filter media. The waste may include limited amounts of combustible materials (surgical gloves, etc.). Several sizes of filters may be present. This code has not been used since 1975. Since then absolute filters were processed as Content Code 338 (insulation and CWS filter media) or 376 (cemented insulation and filter media). Some of the drums may be lead-lined.

There is a lack of information about the particulate on the filter media. Although there may be some organic material, it should be less than 14 lb/ft3. Significant amounts of respirable fines may be present. No sludges or free liquids should be present. No explosive, pyrophoric, or corrosive materials should be in this waste, except for some residual amounts of nitric acid.

Each filter is double contained in PVC and PE bags and assayed. Up to 12-20 filters are placed in each prepared drum. Small amounts of Oil-Dri are added to drums containing damp filters. Drums were packed according to the usual pre-1972 and post-1972 procedures.

WASTE STREAM SOURCE

This record represents the [CH-Uncert] portion (90.5%) of the MWIR waste stream, [ABSOLUTE 8 X 8 FILTERS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W208, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W208	Handling:	RH	NMVP #:	N/A	Stream Name:	ABSOLUTE 8 X 8 FILTERS:RH-Uncert
Inventory Date:							
Local ID:	ID-RFO-335T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal
Waste Matrix Code:	S5410						

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D028, D022, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Yes

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	3.86E-05
Pu-242	7.80E-04
Pu-241	2.89E+02
Pu-240	1.08E+01
Pu-239	4.78E+01
Pu-238	1.69E+00
Am-241	1.32E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	1.2	0.0	0.0	0.0	0.0	1.2
Totals	1.2	0.0	0.0	0.0	0.0	1.2

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 1.2 Projected: 0.0 Total: 1.2

WASTE STREAM DESCRIPTION

M

This waste stream, generated at the Rocky Flats Plant, consists of absolute filters used for filtering intake and exhaust air from glovebox lines. The filters are composed of wood or particle board frames and an asbestos-type filter media. The waste may include limited amounts of combustible materials (surgical gloves, etc.). Several sizes of filters may be present. This code has not been used since 1975. Since then absolute filters were processed as Content Code 338 (insulation and CWS filter media) or 376 (cemented insulation and filter media). Some of the drums may be lead-lined.

There is a lack of information about the particulate on the filter media. Although there may be some organic material, it should be less than 14 lb/ft3. Significant amounts of respirable fines may be present. No sludges or free liquids should be present. No explosive, pyrophoric, or corrosive materials should be in this waste, except for some residual amounts of nitric acid.

Each filter is double contained in PVC and PE bags and assayed. Up to 12-20 filters are placed in each prepared drum. Small amounts of Oil-Dri are added to drums containing damp filters. Drums were packed according to the usual pre-1972 and post-1972 procedures.

WASTE STREAM SOURCE

This record represents the [RH-Uncert] portion (1.58%) of the MWIR waste stream, [ABSOLUTE 8 X 8 FILTERS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W208, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W208	Handling:	CH	NMVP #:	119	Stream Name:	ABSOLUTE 8 X 8 FILTERS:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-335T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Filter	Waste Matrix Code:	S5410

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D028, D022, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Yes

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

119, 219

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
U-235	2.32E-06
Pu-242	4.68E-05
Pu-241	1.73E+01
Pu-240	6.51E-01
Pu-239	2.87E+00
Pu-238	1.01E-01
Am-241	7.91E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.9	0.0	0.0	0.0	0.0	1.9
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	2.3	0.0	0.0	0.0	0.0	2.3

As-Generated Form: Stored: 2.1 Projected: 0.0 Total: 2.1

Final Waste Form: Stored: 2.3 Projected: 0.0 Total: 2.3

WASTE STREAM DESCRIPTION	This waste stream, generated at the Rocky Flats Plant, consists of absolute filters used for filtering intake and exhaust air from glovebox lines. The filters are composed of wood or particle board frames and an asbestos-type filter media. The waste may include limited amounts of combustible materials (surgical gloves, etc.). Several sizes of filters may be present. This code has not been used since 1975. Since then absolute filters were processed as Content Code 338 (insulation and CWS filter media) or 376 (cemented insulation and filter media). Some of the drums may be lead-lined. There is a lack of information about the particulate on the filter media. Although there may be some organic material, it should be less than 14 lb/ft3. Significant amounts of respirable fines may be present. No sludges or free liquids should be present. No explosive, pyrophoric, or corrosive materials should be in this waste, except for some residual amounts of nitric acid. Each filter is double contained in PVC and PE bags and assayed. Up to 12-20 filters are placed in each prepared drum. Small amounts of Oil-Dri are added to drums containing damp filters. Drums were packed according to the usual pre-1972 and post-1972 procedures.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (7.92%) of the MWIR waste stream, [ABSOLUTE 8 X 8 FILTERS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W208, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W209	Handling:	CH	NMVP #:	N/A	Stream Name:	INSULATION AND CHEMICAL WARFARE SERVICE :Uncertifiable
Inventory Date:							
Local ID:	ID-RFO-338T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal
Waste Matrix Code:	S5410						

AS-GENERATED EPA CODES

APP8, F005, F002, F001, D029, D028, D022, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Yes

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	1.74E-03
Pu-241	6.42E+02
Pu-240	2.41E+01
Pu-239	1.06E+02
Pu-238	3.76E+00
Am-241	1.93E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	15.9	0.0	0.0	0.0	0.0	15.9
Drum	35.4	0.0	0.0	0.0	0.0	35.4
Totals	51.3	0.0	0.0	0.0	0.0	51.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.1	0.0	0.0	0.0	0.0	3.1
Totals	3.1	0.0	0.0	0.0	0.0	3.1

As-Generated Form: Stored: 51.3 Projected: 0.0 Total: 51.3

Final Waste Form: Stored: 3.1 Projected: 0.0 Total: 3.1

M

WASTE STREAM DESCRIPTION

This waste stream, generated at the Rocky Flats Plant, consists of asbestos and fiberglass filter media, asbestos-type pipe insulation , and other materials such as aluminum and wood frames, and compacted insulation waste. Some of the waste may be damp. This code was replaced in 1977 with Content Code 376 (cemented insulation and filter media).

The waste cannot be due to lack of information about the particulates on the filter media. Although there may be some organic material, it should be less than 14 lb/ft3 for drums and 6 lb/ft3 for boxes. Significant amounts of respirable fines may be present. No sludges or free liquids should be present. No explosive, pyrophoric, or corrosive materials should be in the waste, except for some residual amounts of nitric acid.

The waste is contained in drums and boxes. The waste is generally double-contained in either PE or PVC bags or in 1-gallon PE bottles and single or double bags. The bottles were individually assayed. Some pipe insulation may be wrapped with tape, depending on contamination levels, and placed directly into drums. Absorbent was added to some drums containing damp waste. Drums were packed according to the usual pre-1972 and post-1972 procedures. Each drum was assayed. Each box was surveyed to determine a calculated fissile content. Coated and uncoated boxes were prepared according to standard pre-1972 and 1972-1974 procedures.

WASTE STREAM SOURCE

This record represents the [Uncertifiable] portion (85.27%) of the MWIR waste stream, [INSULATION AND CHEMICAL WARFARE SERVICE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W209, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W209	Handling:	CH	NMVP #:	N/A	Stream Name:	INSULATION AND CHEMICAL WARFARE SERVICE :Direct Ship
Inventory Date:							
Local ID:	ID-RFO-338T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Filter
Waste Matrix Code:	S5410						

AS-GENERATED EPA CODES

APP8, F005, F002, F001, D029, D028, D022, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	149.6		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Yes

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

219

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.04E-04
Pu-241	3.85E+01
Pu-240	1.45E+00
Pu-239	6.38E+00
Pu-238	2.25E-01
Am-241	1.16E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	8.9	0.0	0.0	0.0	0.0	8.9
Totals	8.9	0.0	0.0	0.0	0.0	8.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	7.9	0.0	0.0	0.0	0.0	7.9
SWB used to overpack 55 gallon drums	2.4	0.0	0.0	0.0	0.0	2.4
Totals	10.3	0.0	0.0	0.0	0.0	10.3

As-Generated Form: Stored: 8.9 Projected: 0.0 Total: 8.9

Final Waste Form: Stored: 10.3 Projected: 0.0 Total: 10.3

M

WASTE STREAM DESCRIPTION	This waste stream, generated at the Rocky Flats Plant, consists of asbestos and fiberglass filter media, asbestos-type pipe insulation , and other materials such as aluminum and wood frames, and compacted insulation waste. Some of the waste may be damp. This code was replaced in 1977 with Content Code 376 (cemented insulation and filter media). The waste cannot be due to lack of information about the particulates on the filter media. Although there may be some organic material, it should be less than 14 lb/ft3 for drums and 6 lb/ft3 for boxes. Significant amounts of respirable fines may be present. No sludges or free liquids should be present. No explosive, pyrophoric, or corrosive materials should be in the waste, except for some residual amounts of nitric acid. The waste is contained in drums and boxes. The waste is generally double-contained in either PE or PVC bags or in 1-gallon PE bottles and single or double bags. The bottles were individually assayed. Some pipe insulation may be wrapped with tape, depending on contamination levels, and placed directly into drums. Absorbent was added to some drums containing damp waste. Drums were packed according to the usual pre-1972 and post-1972 procedures. Each drum was assayed. Each box was surveyed to determine a calculated fissile content. Coated and uncoated boxes were prepared according to standard pre-1972 and 1972-1974 procedures.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (14.73%) of the MWIR waste stream, [INSULATION AND CHEMICAL WARFARE SERVICE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W209, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W210	Handling:	CH	NMVP #:	N/A	Stream Name:	INSULATION:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-360T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Filter	Waste Matrix Code:	S5410

AS-GENERATED EPA CODES

F002, F001, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	165.9		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Yes

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	3.95E-05
Pu-241	1.46E+01
Pu-240	5.49E-01
Pu-239	2.42E+00
Pu-238	8.55E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	1.1	0.0	0.0	0.0	0.0	1.1

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 1.1 Projected: 0.0 Total: 1.1

WASTE STREAM DESCRIPTION	This waste stream, generated at the Rocky Flats Plant, consists of asbestos-type pipe insulation, asbestos gloves and fireblankets, and asbestos and fiberglass prefilter and filter media. The waste may include limited amounts of other materials, such as aluminum and wood frames, and compacted insulation waste. Some materials may be damp. The waste may include limited amounts of combustible materials such as surgical gloves. This code has not been used since 1973. Since then absolute filters were processed as Content Codes 338 (insulation and CWS filter media) or 376 (cemented insulation and filter media). There is a lack of information about the particulate on the filter media. Organic material should not exceed WIPP-WAC limits. Significant amounts of respirable fines may be present, expecially since some of the waste has been reduced to an "oatmeal" consistency from handling. Some waste which was wet was dried in a clothes dryer prior to packaging. No sludges or free liquids should be present. No explosive, pyrophoric, or corrosive materials should be in this waste, except for some residual amounts of nitric acid. The waste is contained in drums and one box. The waste is generally double-contained in either PE or PVC bags. The bottles were individually assayed. Some pipe insulation may be wrapped with tape, depending on contamination levels, and placed directly into drums. Absorbent was added to some drums containing damp waste. Drums were packed according to the usual pre-1972 and post-1972 procedures. Each drum was assayed. The box was surveyed to determine a calculated fissile content. The time when the box was used is not known. Coated and uncoated boxes were prepared according to standard pre-1972 and 1972-1974 procedures.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [INSULATION] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W210, reported in t'e DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W210	Handling:	CH	NMVP #:	N/A	Stream Name:	INSULATION:Uncertifiable	Inventory Date:	
Local ID:	ID-RFO-360T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5410

AS-GENERATED EPA CODES

F002, F001, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Yes

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	6.58E-04
Pu-241	2.44E+02
Pu-240	9.15E+00
Pu-239	4.03E+01
Pu-238	1.42E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	2.8	0.0	0.0	0.0	0.0	2.8
Totals	2.8	0.0	0.0	0.0	0.0	2.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 2.8 Projected: 0.0 Total: 2.8

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION

This waste stream, generated at the Rocky Flats Plant, consists of asbestos-type pipe insulation, asbestos gloves and fireblankets, and asbestos and fiberglass prefilter and filter media. The waste may include limited amounts of other materials, such as aluminum and wood frames, and compacted insulation waste. Some materials may be damp. The waste may include limited amounts of combustible materials such as surgical gloves. This code has not been used since 1973. Since then absolute filters were processed as Content Codes 338 (insulation and CWS filter media) or 376 (cemented insulation and filter media).

There is a lack of information about the particulate on the filter media. Organic material should not exceed WIPP-WAC limits. Significant amounts of respirable fines may be present, expecially since some of the waste has been reduced to an "oatmeal" consistency from handling. Some waste which was wet was dried in a clothes dryer prior to packaging. No sludges or free liquids should be present. No explosive, pyrophoric, or corrosive materials should be in this waste, except for some residual amounts of nitric acid.

The waste is contained in drums and one box. The waste is generally double-contained in either PE or PVC bags. The bottles were individually assayed. Some pipe insulation may be wrapped with tape, depending on contamination levels, and placed directly into drums. Absorbent was added to some drums containing damp waste. Drums were packed according to the usual pre-1972 and post-1972 procedures. Each drum was assayed. The box was surveyed to determine a calculated fissile content. The time when the box was used is not known. Coated and uncoated boxes were prepared according to standard pre-1972 and 1972-1974 procedures.

WASTE STREAM SOURCE

This record represents the [Uncertifiable] portion (80%) of the MWIR waste stream, [INSULATION] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W210, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W211	Handling:	CH	NMVP #:	119	Stream Name:	CEMENTED INSULATION AND FILTER MEDIA:Direct Ship
Inventory Date:							
Local ID:	ID-RFO-376T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Filter
Waste Matrix Code:	S5410						

AS-GENERATED EPA CODES

APP8, F002, F001, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.3		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Yes

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

119

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-238	1.98E-07
U-235	4.19E-07
Pu-242	1.81E-04
Pu-241	6.71E+01
Pu-240	2.52E+00
Pu-239	1.11E+01
Pu-238	3.92E-01
Am-241	7.79E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	88.8	0.0	0.0	0.0	0.0	88.8
Totals	88.8	0.0	0.0	0.0	0.0	88.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	78.6	0.0	0.0	0.0	0.0	78.6
SWB used to overpack 55 gallon drums	19.8	0.0	0.0	0.0	0.0	19.8
Totals	98.5	0.0	0.0	0.0	0.0	98.5

As-Generated Form: Stored: 88.8 Projected: 0.0 Total: 88.8

Final Waste Form: Stored: 98.5 Projected: 0.0 Total: 98.5

M

WASTE STREAM DESCRIPTION	This waste stream, generated at the Rocky Flats Plant, consists primarily of filter media from pre-filters, absolute filters, etc., and limited amounts of insulation waste such as asbestos gloves and fire blankets. Portland cement is added to neutralize any residual nitric acid and reduce the potential for drum pressurization. The waste cannot be due to potential for excessive fines. Although there may be some organic material, it should be less than 14 lb/ft3 for drums and 6 lb/ft3 for boxes. Significant amounts of respirable fines may be present. No sludges or free liquids should be present. No explosive, pyrophoric, or corrosive materials should be in this waste, except for some residual amounts of nitric acid. The waste is contained in drums and boxes. Waste generated prior to 1979 is generally double-contained in either PE or PVC bags, 1-gallon PE bottles and/or metal paint cans. Most of this waste was repackaged into 15-gallon plastic bags after thorough mixing with portland cement. Drums were packed according to the usual post-1972 procedures. Each drum was assayed. Each box was surveyed to determine a calculated fissile content. Boxes were prepared according to standard post-1972 procedures.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (19.31%) of the MWIR waste stream, [CEMENTED INSULATION AND FILTER MEDIA] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W211, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W211	Handling:	CH	NMVP #:	N/A	Stream Name:	CEMENTED INSULATION AND FILTER MEDIA;Uncertifiable	Inventory Date:	
Local ID:	ID-RFO-376T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5410

AS-GENERATED EPA CODES

APP8, F002, F001, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Yes

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-238	3.30E-06
U-235	6.99E-06
Pu-242	3.02E-03
Pu-241	1.12E+03
Pu-240	4.20E+01
Pu-239	1.85E+02
Pu-238	6.54E+00
Am-241	1.30E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	15.9	0.0	0.0	0.0	0.0	15.9
Drum	355.5	0.0	0.0	0.0	0.0	355.5
Totals	371.4	0.0	0.0	0.0	0.0	371.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	22.5	0.0	0.0	0.0	0.0	22.5
Totals	22.5	0.0	0.0	0.0	0.0	22.5

As-Generated Form: Stored: 371.4 Projected: 0.0 Total: 371.4

Final Waste Form: Stored: 22.5 Projected: 0.0 Total: 22.5

WASTE STREAM DESCRIPTION

M

This waste stream, generated at the Rocky Flats Plant, consists primarily of filter media from pre-filters, absolute filters, etc., and limited amounts of insulation waste such as asbestos gloves and fire blankets. Portland cement is added to neutralize any residual nitric acid and reduce the potential for drum pressurization.

The waste cannot be due to potential for excessive fines. Although there may be some organic material, it should be less than 14 lb/ft3 for drums and 6 lb/ft3 for boxes. Significant amounts of respirable fines may be present. No sludges or free liquids should be present. No explosive, pyrophoric, or corrosive materials should be in this waste, except for some residual amounts of nitric acid.

The waste is contained in drums and boxes. Waste generated prior to 1979 is generally double-contained in either PE or PVC bags, 1-gallon PE bottles and/or metal paint cans. Most of this waste was repackaged into 15-gallon plastic bags after thorough mixing with portland cement. Drums were packed according to the usual post-1972 procedures. Each drum was assayed. Each box was surveyed to determine a calculated fissile content. Boxes were prepared according to standard post-1972 procedures.

WASTE STREAM SOURCE

This record represents the [Uncertifiable] portion (80.69%) of the MWIR waste stream, [CEMENTED INSULATION AND FILTER MEDIA] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W211, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W212	Handling:	CH	NMVP #:	119	Stream Name:	CHEMICAL WARFARE SERVICE FILTERS:Direct Ship
Inventory Date:							
Local ID:	ID-RFO-490T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Filter
Waste Matrix Code:	S5410						

AS-GENERATED EPA CODES

APP8, F002, F001, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	153.2		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Yes

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

119, 219

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-235	1.17E-07
Pu-242	6.77E-06
Pu-241	2.50E+00
Pu-240	9.41E-02
Pu-239	4.15E-01
Pu-238	1.47E-02
Am-241	2.69E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	2.8	0.0	0.0	0.0	0.0	2.8
Totals	2.8	0.0	0.0	0.0	0.0	2.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.5	0.0	0.0	0.0	0.0	2.5
SWB used to overpack 55 gallon drums	0.9	0.0	0.0	0.0	0.0	0.9
Totals	3.4	0.0	0.0	0.0	0.0	3.4

As-Generated Form: Stored: 2.8 Projected: 0.0 Total: 2.8

Final Waste Form: Stored: 3.4 Projected: 0.0 Total: 3.4

M

WASTE STREAM DESCRIPTION

This waste stream, generated at the Rocky Flats Plant, consists primarily of whole HEPA filters, absolute filters, CWS (chemical warfare service) filters, and prefilters. The filter frames are usually wood, but a limited number are aluminum. The filter media is asbestos-type and fiberglass-type (nomex).

The waste cannot be due to lack of information about the particulat~ on the filter media. Although there may be some organic material, it should be less than 14 lb/ft3 for drums and 6 lb/ft3 for boxes. Significant amounts of respirable fines may be present. No sludges or free liquids should be present. No explosive, pyrophoric, or corrosive materials should be in the waste, except for some residual amounts of nitric acid.

The waste is contained in drums and boxes. Drums should be similar to Content Code 335 drums. Each filter was generally double-contained in either PE or PVC bags and then placed in prepared drums. Each drum was assayed. Drums of Content Code 490 waste have not been shipped to INEL since 1975. Boxes contain filters which are single or double-contained in plastic bags, along with their original, cardboard shipping boxes. In boxes prepared after 1974, the boxes are flattened and the filters are crushed. About 12 uncrushed or 25-30 crushed HEPA filters will fit into a box. Portland cement and Oil-Dri were typically added to any containers which contained damp filters.

Drums and boxes were prepared and packed according to the usual pre-1972 and post-1972 procedures. Each drum was assayed. Each box was surveyed using the cumulative assay value of the individual filters, determined from drum assays. One box which was shipped in 1972 is apparently mislabeled and is believed to contain metal waste.

WASTE STREAM SOURCE

This record represents the [Direct Ship] portion (.11%) of the MWIR waste stream, [CHEMICAL WARFARE SERVICE FILTERS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W212, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W212	Handling:	CH	NMVP #:	N/A	Stream Name:	CHEMICAL WARFARE SERVICE FILTERS:Uncertifiable	Inventory Date:	
Local ID:	ID-RFO-490T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5410

AS-GENERATED EPA CODES

APP8, F002, F001, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Yes

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-235	1.95E-06
Pu-242	1.13E-04
Pu-241	4.18E+01
Pu-240	1.57E+00
Pu-239	6.92E+00
Pu-238	2.44E-01
Am-241	4.48E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	2498.0	0.0	0.0	0.0	0.0	2498.0
Drum	11.7	0.0	0.0	0.0	0.0	11.7
Totals	2509.6	0.0	0.0	0.0	0.0	2509.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	150.6	0.0	0.0	0.0	0.0	150.6
Totals	150.6	0.0	0.0	0.0	0.0	150.6

As-Generated Form: Stored: 2509.6 Projected: 0.0 Total: 2509.6

Final Waste Form: Stored: 150.6 Projected: 0.0 Total: 150.6

WASTE STREAM DESCRIPTION

This waste stream, generated at the Rocky Flats Plant, consists primarily of whole HEPA filters, absolute filters, CWS (chemical warfare service) filters, and prefilters. The filter frames are usually wood, but a limited number are aluminum. The filter media is asbestos-type and fiberglass-type (nomex).

The waste cannot be due to lack of information about the particulate on the filter media. Although there may be some organic material, it should be less than 14 lb/ft3 for drums and 6 lb/ft3 for boxes. Significant amounts of respirable fines may be present. No sludges or free liquids should be present. No explosive, pyrophoric, or corrosive materials should be in the waste, except for some residual amounts of nitric acid.

The waste is contained in drums and boxes. Drums should be similar to Content Code 335 drums. Each filter was generally double-contained in either PE or PVC bags and then placed in prepared drums. Each drum was assayed. Drums of Content Code 490 waste have not been shipped to INEL since 1975. Boxes contain filters which are single or double-contained in plastic bags, along with their original, cardboard shipping boxes. In boxes prepared after 1974, the boxes are flattened and the filters are crushed. About 12 uncrushed or 25-30 crushed HEPA filters will fit into a box. Portland cement and Oil-Dri were typically added to any containers which contained damp filters.

Drums and boxes were prepared and packed according to the usual pre-1972 and post-1972 procedures. Each drum was assayed. Each box was surveyed using the cumulative assay value of the individual filters, determined from drum assays. One box which was shipped in 1972 is apparently mislabeled and is believed to contain metal waste.

WASTE STREAM SOURCE

This record represents the [Uncertifiable] portion (99.89%) of the MWIR waste stream, [CHEMICAL WARFARE SERVICE FILTERS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W212, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W213	Handling:	CH	NMVP #:	N/A	Stream Name:	ASBESTOS FILTERS:Direct Ship	Inventory Date:
Local ID:	ID-MDO-805T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Filter	Waste Matrix Code: S5410

AS-GENERATED EPA CODES

APP8, D009, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	150.8		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Yes

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-239	3.35E+00
Pu-238	5.54E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.5	0.0	0.0	0.0	0.0	1.5
Totals	1.5	0.0	0.0	0.0	0.0	1.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.5	0.0	0.0	0.0	0.0	1.5
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated Form: Stored: 1.5 Projected: 0.0 Total: 1.5

Final Waste Form: Stored: 1.9 Projected: 0.0 Total: 1.9

WASTE STREAM DESCRIPTION	This waste stream, generated at Mound Laboratory, consists primarily of HEPA filters of various sizes. The filter frames are usually pressed hardboard, but a limited number are metal. The filter media is asbestos. The waste stream may include limited amounts of other combustibles from Content Codes 803, 810, 813, 814, 825, or 832. The waste cannot be due to lack of information about the particulate on the filter media. Although there may be some organic material, it should be less than 14 lb/ft3 for drums. Significant amounts of respirable fines may be present. No sludges or free liquids should be present. No explosive, pyrophoric, or corrosive materials should be in the waste, except for some residual amounts of nitric acid. The waste is contained in drums. Filters are packaged in 1-gallon plastic coated cardboard cartons, one or two filters per carton. Some individual filters are individually bagged inside the cartons. Each carton is individually bagged, assayed, and contained in a sleeve bag with up to four other cartons. Up to eight sleeve bags will fit into a prepared drum. Drums were prepared and packed according to the usual post-1972 procedures.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [ASBESTOS FILTERS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W213, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W213	Handling:	CH	NMVP #:	N/A	Stream Name:	ASBESTOS FILTERS:Uncertifiable	Inventory Date:	
Local ID:	ID-MDO-805T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5410

AS-GENERATED EPA CODES

APP8, D009, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Yes

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-239	5.58E+01
Pu-238	9.23E+03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	6.4	0.0	0.0	0.0	0.0	6.4
Totals	6.4	0.0	0.0	0.0	0.0	6.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 6.4 Projected: 0.0 Total: 6.4

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

WASTE STREAM DESCRIPTION

This waste stream, generated at Mound Laboratory, consists primarily of HEPA filters of various sizes. The filter frames are usually pressed hardboard, but a limited number are metal. The filter media is asbestos. The waste stream may include limited amounts of other combustibles from Content Codes 803, 810, 813, 814, 825, or 832.

The waste cannot be due to lack of information about the particulate on the filter media. Although there may be some organic material, it should be less than 14 lb/ft3 for drums. Significant amounts of respirable fines may be present. No sludges or free liquids should be present. No explosive, pyrophoric, or corrosive materials should be in the waste, except for some residual amounts of nitric acid.

The waste is contained in drums. Filters are packaged in 1-gallon plastic coated cardboard cartons, one or two filters per carton. Some individual filters are individually bagged inside the cartons. Each carton is individually bagged, assayed, and contained in a sleeve bag with up to four other cartons. Up to eight sleeve bags will fit into a prepared drum. Drums were prepared and packed according to the usual post-1972 procedures.

WASTE STREAM SOURCE

This record represents the [Uncertifiable] portion (79.95%) of the MWIR waste stream, [ASBESTOS FILTERS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W213, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W213	Handling:	CH	NMVP #:	N/A	Stream Name:	ASBESTOS FILTERS:Mercury	Inventory Date:	
Local ID:	ID-MDO-805T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5410

AS-GENERATED EPA CODES

APP8, D009, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Yes

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-239	1.12E+00
Pu-238	1.85E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

M

WASTE STREAM DESCRIPTION

This waste stream, generated at Mound Laboratory, consists primarily of HEPA filters of various sizes. The filter frames are usually pressed hardboard, but a limited number are metal. The filter media is asbestos. The waste stream may include limited amounts of other combustibles from Content Codes 803, 810, 813, 814, 825, or 832.

The waste cannot be due to lack of information about the particulate on the filter media. Although there may be some organic material, it should be less than 14 lb/ft3 for drums. Significant amounts of respirable fines may be present. No sludges or free liquids should be present. No explosive, pyrophoric, or corrosive materials should be in the waste, except for some residual amounts of nitric acid.

The waste is contained in drums. Filters are packaged in 1-gallon plastic coated cardboard cartons, one or two filters per carton. Some individual filters are individually bagged inside the cartons. Each carton is individually bagged, assayed, and contained in a sleeve bag with up to four other cartons. Up to eight sleeve bags will fit into a prepared drum. Drums were prepared and packed according to the usual post-1972 procedures.

WASTE STREAM SOURCE

This record represents the [Mercury] portion (.05%) of the MWIR waste stream, [ASBESTOS FILTERS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk amalg TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W213, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W214	Handling:	CH	NMVP #:	N/A	Stream Name:	GLASS FILTERS AND FIBERGLASS:Cert-repack	Inventory Date:	
Local ID:	ID-MDO-813T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Filter	Waste Matrix Code:	S5410

AS-GENERATED EPA CODES

APP8, D009, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	194.7	24.0	293.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	4.8	1.2	9.6
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-239	6.83E+00
Pu-238	7.68E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.6 Projected: 0.0 Total: 0.6

WASTE STREAM DESCRIPTION

M

This waste stream, generated at Mound Laboratory, consists primarily of spun glass filters and fiberglass glovebox prefilters. The waste may include limited amounts of other noncombustibles from Content Codes 803, 805, 810, 811, 813, 814, or 825.

Free particulate should be limited. The organic content should be less than 14 lb/ft3. No sludges or free liquids should be present. No explosive, pyrophoric, or corrosive materials should be present.

The waste is contained in drums. Filters are packaged in 1-gallon plastic coated cardboard cartons. Each carton is individually bagged, assayed, and contained in a sleeve bag with up to four other cartons. Up to eight sleeve bags will fit into a prepared drum. Drums were prepared and packed according to the usual post-1972 procedures.

WASTE STREAM SOURCE

This record represents the [Cert-repack] portion (79.56%) of the MWIR waste stream, [GLASS FILTERS AND FIBERGLASS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W214, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done. D009 will not be applicable to this waste stream after cartons of liquid mercury are removed.

MANAGEMENT COMMENTS

Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS

All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W214	Handling:	CH	NMVP #:	N/A	Stream Name:	GLASS FILTERS AND FIBERGLASS:Direct Ship	Inventory Date:	
Local ID:	ID-MDO-813T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Filter	Waste Matrix Code:	S5410

AS-GENERATED EPA CODES

APP8, D009; D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	118.7	14.6	178.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	2.9	0.7	5.9
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	23.5		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	6.83E+00
Pu-238	7.68E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION

This waste stream, generated at Mound Laboratory, consists primarily of spun glass filters and fiberglass glovebox prefilters. The waste may include limited amounts of other noncombustibles from Content Codes 803, 805, 810, 811, 813, 814, or 825.

Free particulate should be limited. The organic content should be less than 14 lb/ft3. No sludges or free liquids should be present. No explosive, pyrophoric, or corrosive materials should be present.

The waste is contained in drums. Filters are packaged in 1-gallon plastic coated cardboard cartons. Each carton is individually bagged, assayed, and contained in a sleeve bag with up to four other cartons. Up to eight sleeve bags will fit into a prepared drum. Drums were prepared and packed according to the usual post-1972 procedures.

WASTE STREAM SOURCE

This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [GLASS FILTERS AND FIBERGLASS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W214, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done. D009 will not be applicable to this waste stream after cartons of liquid mercury are removed.

MANAGEMENT COMMENTS

Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS

N/A

FINAL FORM COMMENTS

All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W214	Handling:	CH	NMVP #:	N/A	Stream Name:	GLASS FILTERS AND FIBERGLASS:Uncert-mercury
Inventory Date:							
Local ID:	ID-MDO-813T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Uncategorized Metal
Waste Matrix Code:	S5410						

AS-GENERATED EPA CODES

APP8, D009, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-239	2.28E+00
Pu-238	2.56E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

M

WASTE STREAM DESCRIPTION	This waste stream, generated at Mound Laboratory, consists primarily of spun glass filters and fiberglass glovebox prefilters. The waste may include limited amounts of other noncombustibles from Content Codes 803, 805, 810, 811, 813, 814, or 825. Free particulate should be limited. The organic content should be less than 14 lb/ft3. No sludges or free liquids should be present. No explosive, pyrophoric, or corrosive materials should be present. The waste is contained in drums. Filters are packaged in 1-gallon plastic coated cardboard cartons. Each carton is individually bagged, assayed, and contained in a sleeve bag with up to four other cartons. Up to eight sleeve bags will fit into a prepared drum. Drums were prepared and packed according to the usual post-1972 procedures.
WASTE STREAM SOURCE	This record represents the [Uncert-mercury] portion (.44%) of the MWIR waste stream, [GLASS FILTERS AND FIBERGLASS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk amalg TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W214, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done. D009 will not be applicable to this waste stream after cartons of liquid mercury are removed.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W216	Handling:	CH	NMVP #:	N/A	Stream Name:	FIRST STAGE SLUDGE:CH-cert-repack	Inventory Date:
Local ID:	ID-RFO-001T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code: S3121

AS-GENERATED EPA CODES

APP8, F003, F002, F001, D028, D022, D011, D009, D008, D007, D006, D005, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	3.4	3.4	3.4
Other Inorganic Material:	34.8	0.0	85.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	9.4	6.7	9.8
Solidified Inorganic Material:	463.2	321.6	568.2
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	308.8	214.4	378.8
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

211

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	1.88E-05
Pu-241	6.96E+00
Pu-240	2.61E-01
Pu-239	1.15E+00
Pu-238	4.07E-02
Am-241	2.59E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	19.0	0.0	0.0	0.0	0.0	19.0
Drum	1459.6	0.0	0.0	0.0	0.0	1459.6
Totals	1478.6	0.0	0.0	0.0	0.0	1478.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1478.9	0.0	0.0	0.0	0.0	1478.9
Totals	1478.9	0.0	0.0	0.0	0.0	1478.9

As-Generated Form: Stored: 1478.6 Projected: 0.0 Total: 1478.6

Final Waste Form: Stored: 1478.9 Projected: 0.0 Total: 1478.9

WASTE STREAM DESCRIPTION

Waste consists of a wet sludge produced from treating aqueous process wastes, such as ion exchange column effluent, distillates, and caustic scrub solutions generated by Plutonium Recovery Operations (Building 771). Portland cement is added to the waste package for absorption of free liquids. Waste drums may periodically contain surgeons' gloves, glovebox gloves, etc.

Since the fall of 1979, first-stage sluge (IDC 001) and Second stage sludge (IDC 002) have been combined into Content Code 1 - Combined sludge.

Sludge is produced by treating aqueous wastes by the carrier precipitation process. Aqueous wastes are made basic, if necessary, with sodium hydroxide. Radioactive elements such as plutonium and americium are chemically precipitated from the liquid waste. Treatment chemicals include ferric sulfate, calcium chloride, magnesium sulfate, and flocculating agents. The treatment process produces a precipitate of the hydrated oxides of iron, magnesium, aluminum, silicon, etc., which also carries the hydrated oxides of plutonium and americium. The precipitate or slurry is filtered to produce a sludge containing 50 to 70 weight percent water.

Liquid wastes were analyzed for fissile content prior to release from Building 771 and 774, and were retained at Building 771 for further treatment if contaminated with above-discard amounts of plutonium.

WASTE STREAM SOURCE

This record represents the [CH-cert-repack] portion (58.42%) of the MWIR waste stream, [FIRST STAGE SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W216, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W216	Handling:	RH	NMVP #:	N/A	Stream Name:	FIRST STAGE SLUDGE:RH-uncertifiable	Inventory Date:	
Local ID:	ID-RFO-001T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3121

AS-GENERATED EPA CODES

APP8, F003, F002, F001, D028, D022, D011, D009, D008, D007, D006, D005, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	3.76E-05
Pu-241	1.39E+01
Pu-240	5.23E-01
Pu-239	2.30E+00
Pu-238	8.14E-02
Am-241	5.19E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	10.2	0.0	0.0	0.0	0.0	10.2
Totals	10.2	0.0	0.0	0.0	0.0	10.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	8.3	0.0	0.0	0.0	0.0	8.3
Totals	8.3	0.0	0.0	0.0	0.0	8.3

As-Generated Form: Stored: 10.2 Projected: 0.0 Total: 10.2

Final Waste Form: Stored: 8.3 Projected: 0.0 Total: 8.3

WASTE STREAM DESCRIPTION

Waste consists of a wet sludge produced from treating aqueous process wastes, such as ion exchange column effluent, distillates, and caustic scrub solutions generated by Plutonium Recovery Operations (Building 771). Portland cement is added to the waste package for absorption of free liquids. Waste drums may periodically contain surgeons' gloves, glovebox gloves, etc.

Since the fall of 1979, first-stage sluge (IDC 001) and Second stage sludge (IDC 002) have been combined into Content Code 1 - Combined sludge.

Sludge is produced by treating aqueous wastes by the carrier precipitation process. Aqueous wastes are made basic, if necessary, with sodium hydroxide. Radioactive elements such as plutonium and americium are chemically precipitated from the liquid waste. Treatment chemicals include ferric sulfate, calcium chloride, magnesium sulfate, and flocculating agents. The treatment process produces a precipitate of the hydrated oxides of iron, magnesium, aluminum, silicon, etc., which also carries the hydrated oxides of plutonium and americium. The precipitate or slurry is filtered to produce a sludge containing 50 to 70 weight percent water.

Liquid wastes were analyzed for fissile content prior to release from Building 771 and 774, and were retained at Building 771 for further treatment if contaminated with above-discard amounts of plutonium.

WASTE STREAM SOURCE

This record represents the [RH-uncertifiable] portion (.4%) of the MWIR waste stream, [FIRST STAGE SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W216, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS

Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS

All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W216	Handling:	RH	NMVP #:	N/A	Stream Name:	FIRST STAGE SLUDGE:RH-cert-repack	Inventory Date:	
Local ID:	ID-RFO-001T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3121

AS-GENERATED EPA CODES

APP8, F003, F002, F001, D028, D022, D011, D009, D008, D007, D006, D005, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	2.3	2.3	2.3
Other Inorganic Material:	24.2	0.0	59.4
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	6.6	6.1	6.8
Solidified Inorganic Material:	323.0	224.6	396.6
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	215.3	149.7	264.4
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Pollution Control or Waste Treatment Process

TRUCON CODE

211

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.88E-05
Pu-241	6.96E+00
Pu-240	2.61E-01
Pu-239	1.15E+00
Pu-238	4.07E-02
Am-241	2.59E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	30.1	0.0	0.0	0.0	0.0	30.1
Totals	30.1	0.0	0.0	0.0	0.0	30.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	43.9	0.0	0.0	0.0	0.0	43.9
Totals	43.9	0.0	0.0	0.0	0.0	43.9

As-Generated Form: Stored: 30.1 Projected: 0.0 Total: 30.1

Final Waste Form: Stored: 43.9 Projected: 0.0 Total: 43.9

WASTE STREAM DESCRIPTION

Waste consists of a wet sludge produced from treating aqueous process wastes, such as ion exchange column effluent, distillates, and caustic scrub solutions generated by Plutonium Recovery Operations (Building 771). Portland cement is added to the waste package for absorption of free liquids. Waste drums may periodically contain surgeons' gloves, glovebox gloves, etc.

Since the fall of 1979, first-stage sluge (IDC 001) and Second stage sludge (IDC 002) have been combined into Content Code 1 - Combined sludge.

Sludge is produced by treating aqueous wastes by the carrier precipitation process. Aqueous wastes are made basic, if necessary, with sodium hydroxide. Radioactive elements such as plutonium and americium are chemically precipitated from the liquid waste. Treatment chemicals include ferric sulfate, calcium chloride, magnesium sulfate, and flocculating agents. The treatment process produces a precipitate of the hydrated oxides of iron, magnesium, aluminum, silicon, etc., which also carries the hydrated oxides of plutonium and americium. The precipitate or slurry is filtered to produce a sludge containing 50 to 70 weight percent water.

Liquid wastes were analyzed for fissile content prior to release from Building 771 and 774, and were retained at Building 771 for further treatment if contaminated with above-discard amounts of plutonium.

WASTE STREAM SOURCE

This record represents the [RH-cert-repack] portion (1.19%) of the MWIR waste stream, [FIRST STAGE SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W216, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W216	Handling:	CH	NMVP #:	N/A	Stream Name:	FIRST STAGE SLUDGE:Direct Ship	Inventory Date:
Local ID:	ID-RFO-001T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code: S3121

AS-GENERATED EPA CODES

APP8, F003, F002, F001, D028, D022, D011, D009, D008, D007, D006, D005, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	3.0	3.0	3.0
Other Inorganic Material:	30.8	0.0	75.5
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	8.3	7.8	8.7
Solidified Inorganic Material:	410.7	285.2	503.9
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	273.8	190.1	335.9
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.3		
Packaging Material Plastic:	33.1		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

211

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.88E-05
Pu-241	6.96E+00
Pu-240	2.61E-01
Pu-239	1.15E+00
Pu-238	4.07E-02
Am-241	2.59E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	502.4	0.0	0.0	0.0	0.0	502.4
Totals	502.4	0.0	0.0	0.0	0.0	502.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	443.7	0.0	0.0	0.0	0.0	443.7
SWB used to overpack 55 gallon drums	112.0	0.0	0.0	0.0	0.0	112.0
Totals	555.6	0.0	0.0	0.0	0.0	555.6

As-Generated Form: Stored: 502.4 Projected: 0.0 Total: 502.4

Final Waste Form: Stored: 555.6 Projected: 0.0 Total: 555.6

WASTE STREAM DESCRIPTION

Waste consists of a wet sludge produced from treating aqueous process wastes, such as ion exchange column effluent, distillates, and caustic scrub solutions generated by Plutonium Recovery Operations (Building 771). Portland cement is added to the waste package for absorption of free liquids. Waste drums may periodically contain surgeons' gloves, glovebox gloves, etc.

Since the fall of 1979, first-stage sluge (IDC 001) and Second stage sludge (IDC 002) have been combined into Content Code 1 - Combined sludge.

Sludge is produced by treating aqueous wastes by the carrier precipitation process. Aqueous wastes are made basic, if necessary, with sodium hydroxide. Radioactive elements such as plutonium and americium are chemically precipitated from the liquid waste. Treatment chemicals include ferric sulfate, calcium chloride, magnesium sulfate, and flocculating agents. The treatment process produces a precipitate of the hydrated oxides of iron, magnesium, aluminum, silicon, etc., which also carries the hydrated oxides of plutonium and americium. The precipitate or slurry is filtered to produce a sludge containing 50 to 70 weight percent water.

Liquid wastes were analyzed for fissile content prior to release from Building 771 and 774, and were retained at Building 771 for further treatment if contaminated with above-discard amounts of plutonium.

WASTE STREAM SOURCE

This record represents the [Direct Ship] portion (19.85%) of the MWIR waste stream, [FIRST STAGE SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W216, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W216	Handling:	CH	NMVP #:	N/A	Stream Name:	FIRST STAGE SLUDGE:CH-uncertifiable	Inventory Date:	
Local ID:	ID-RFO-001T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3121

AS-GENERATED EPA CODES

APP8, F003, F002, F001, D028, D022, D011, D009, D008, D007, D006, D005, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	3.76E-05
Pu-241	1.39E+01
Pu-240	5.23E-01
Pu-239	2.30E+00
Pu-238	8.14E-02
Am-241	5.19E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	509.6	0.0	0.0	0.0	0.0	509.6
Totals	509.6	0.0	0.0	0.0	0.0	509.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	255.0	0.0	0.0	0.0	0.0	255.0
Totals	255.0	0.0	0.0	0.0	0.0	255.0

As-Generated Form: Stored: 509.6 Projected: 0.0 Total: 509.6

Final Waste Form: Stored: 255.0 Projected: 0.0 Total: 255.0

WASTE STREAM DESCRIPTION

Waste consists of a wet sludge produced from treating aqueous process wastes, such as ion exchange column effluent, distillates, and caustic scrub solutions generated by Plutonium Recovery Operations (Building 771). Portland cement is added to the waste package for absorption of free liquids. Waste drums may periodically contain surgeons' gloves, glovebox gloves, etc.

Since the fall of 1979, first-stage sluge (IDC 001) and Second stage sludge (IDC 002) have been combined into Content Code 1 - Combined sludge.

Sludge is produced by treating aqueous wastes by the carrier precipitation process. Aqueous wastes are made basic, if necessary, with sodium hydroxide. Radioactive elements such as plutonium and americium are chemically precipitated from the liquid waste. Treatment chemicals include ferric sulfate, calcium chloride, magnesium sulfate, and flocculating agents. The treatment process produces a precipitate of the hydrated oxides of iron, magnesium, aluminum, silicon, etc., which also carries the hydrated oxides of plutonium and americium. The precipitate or slurry is filtered to produce a sludge containing 50 to 70 weight percent water.

Liquid wastes were analyzed for fissile content prior to release from Building 771 and 774, and were retained at Building 771 for further treatment if contaminated with above-discard amounts of plutonium.

WASTE STREAM SOURCE

This record represents the [CH-uncertifiable] portion (20.14%) of the MWIR waste stream, [FIRST STAGE SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W218, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W218	Handling:	CH	NMVP #:	N/A	Stream Name:	BLDG 374 DRY SLUDGE:Uncertifiable
Local ID:	ID-RFO-007T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal

Inventory Date:

Waste Matrix Code: S3121

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D028, D022, D009, D008, D007, D006, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	5.10E-06
Pu-241	1.89E+00
Pu-240	7.09E-02
Pu-239	3.13E-01
Pu-238	1.10E-02
Am-241	1.55E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	367.4	0.0	0.0	0.0	0.0	367.4
Totals	367.4	0.0	0.0	0.0	0.0	367.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	183.9	0.0	0.0	0.0	0.0	183.9
Totals	183.9	0.0	0.0	0.0	0.0	183.9

As-Generated Form: Stored: 367.4 Projected: 0.0 Total: 367.4

Final Waste Form: Stored: 183.9 Projected: 0.0 Total: 183.9

WASTE STREAM DESCRIPTION	Building 374 solidified sludge consists of immobilized low-level mixed waste materials from decontamination-precipitation and neutralization processes in the Building 374 Liquid Waste Treatment Facility. The wastewater treatment operation includes neutralization, radioactive decontamination (precipitation), filtration, evaporation, spray drying, salt immobilization, and filtrate sludge immobilization. The sludge from the rotary drum vacuum filter has a dry appearance but is still very moist. The dried sludge was transferred from the dryer directly into a 55-gallon drum. The resulting waste consisted of dispersible fines and was assigned IDC 007.
WASTE STREAM SOURCE	This record represents the [Uncertifiable] portion (80%) of the MWIR waste stream, [BLDG 374 DRY SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W218, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W218	Handling:	CH	NMVP #:	111	Stream Name:	BLDG 374 DRY SLUDGE:Direct Ship	Inventory Date:
Local ID:	ID-RFO-007T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code: S3121

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D028, D022, D009, D008, D007, D006, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.5		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

111,211

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	2.55E-06
Pu-241	9.44E-01
Pu-240	3.55E-02
Pu-239	1.56E-01
Pu-238	5.52E-03
Am-241	7.75E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	91.8	0.0	0.0	0.0	0.0	91.8
Totals	91.8	0.0	0.0	0.0	0.0	91.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	81.1	0.0	0.0	0.0	0.0	81.1
SWB used to overpack 55 gallon drums	20.8	0.0	0.0	0.0	0.0	20.8
Totals	101.9	0.0	0.0	0.0	0.0	101.9

As-Generated Form: Stored: 91.8 Projected: 0.0 Total: 91.8

Final Waste Form: Stored: 101.9 Projected: 0.0 Total: 101.9

WASTE STREAM DESCRIPTION	Building 374 solidified sludge consists of immobilized low-level mixed waste materials from decontamination-precipitation and neutralization processes in the Building 374 Liquid Waste Treatment Facility. The wastewater treatment operation includes neutralization, radioactive decontamination (precipitation), filtration, evaporation, spray drying, salt immobilization, and filtrate sludge immobilization. The sludge from the rotary drum vacuum filter has a dry appearance but is still very moist. The dried sludge was transferred from the dryer directly into a 55-gallon drum. The resulting waste consisted of dispersible fines and was assigned IDC 007.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [BLDG 374 DRY SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W218, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W219	Handling:	CH	NMVP #:	N/A	Stream Name:	SOLIDIFIED GRINDING SLUDGE, ETC.:Uncertifiable
Inventory Date:							
Local ID:	ID-BTO-030T	Type:	MTRU	Generator Site:	BT	Final Waste Form:	Inorganic Non-Metal
Waste Matrix Code:	S3120						

AS-GENERATED EPA CODES

F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

M

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	7.6	0.0	0.0	0.0	0.0	7.6
Totals	7.6	0.0	0.0	0.0	0.0	7.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.0	0.0	0.0	0.0	0.0	4.0
Totals	4.0	0.0	0.0	0.0	0.0	4.0

As-Generated Form: Stored: 7.6 Projected: 0.0 Total: 7.6

Final Waste Form: Stored: 4.0 Projected: 0.0 Total: 4.0

WASTE STREAM DESCRIPTION	This waste steam, generated at Bettis Atomic Power Laboratory, consists of solidified grinding sludge and associated filters, rags, etc. The sludge can contain abraded grinding wheel material, which includes diamond dust, aluminum oxide, carborundum, and rubber. The waste is in either powder or cakes and contains not more than 10% of other waste items. There are high levels of fines. In addition the drums may contain free liquids. The estimated organic content is less than 1 lb/ft3. No particle size data are provided, but it is assumed that WIPP-WAC limits for fines would be exceeded. No free liquids should be present. No explosive, pyrophoric, or corrosive material should be in the waste. Both 17c and 6m 55-gallon drums were used for packaging the waste. Fissile content was determined by calculating the weight difference by chemical analysis or by an assay gauge.
WASTE STREAM SOURCE	This record represents the [Uncertifiable] portion (80%) of the MWIR waste stream, [SOLIDIFIED GRINDING SLUDGE, ETC.] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W219, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W219	Handling:	CH	NMVP #:	N/A	Stream Name:	SOLIDIFIED GRINDING SLUDGE, ETC.:RH Direct Ship	Inventory Date:
Local ID:	ID-BTO-030T	Type:	MTRU	Generator Site:	BT	Final Waste Form:	Solidified Inorganics	Waste Matrix Code: S3120

AS-GENERATED EPA CODES

F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.9	0.0	0.0	0.0	0.0	1.9
Totals	1.9	0.0	0.0	0.0	0.0	1.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.9	0.0	0.0	0.0	0.0	1.9
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	2.3	0.0	0.0	0.0	0.0	2.3

As-Generated Form: Stored: 1.9 Projected: 0.0 Total: 1.9

Final Waste Form: Stored: 2.3 Projected: 0.0 Total: 2.3

WASTE STREAM DESCRIPTION	This waste steam, generated at Bettis Atomic Power Laboratory, consists of solidified grinding sludge and associated filters, rags, etc. The sludge can contain abraded grinding wheel material, which includes diamond dust, aluminum oxide, carborundum, and rubber. The waste is in either powder or cakes and contains not more than 10% of other waste items. There are high levels of fines. In addition the drums may contain free liquids. The estimated organic content is less than 1 lb/ft3. No particle size data are provided, but it is assumed that WIPP-WAC limits for fines would be exceeded. No free liquids should be present. No explosive, pyrophoric, or corrosive material should be in the waste. Both 17c and 6m 55-gallon drums were used for packaging the waste. Fissile content was determined by calculating the weight difference by chemical analysis or by an assay gauge.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [SOLIDIFIED GRINDING SLUDGE, ETC.] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W219, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W220	Handling:	CH	NMVP #:	N/A	Stream Name:	RESEARCH GENERATED WASTE NONCOMPACTIBLE :Direct Ship
Inventory Date:							
Local ID:	ID-OFS-111T	Type:	MTRU	Generator Site:	AE	Final Waste Form:	Solidified Inorganics
Waste Matrix Code:	S3121						

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D009, D008, D007, D006, D005, D004, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	3.0	3.0	3.0
Other Inorganic Material:	30.8	0.0	75.4
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	8.3	7.7	8.7
Solidified Inorganic Material:	655.9	455.4	804.7
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	27.6	19.2	33.9
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.5		
Packaging Material Plastic:	33.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

111

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	3.87E-08
U-233	4.25E-04
Pu-242	9.94E-06
Pu-241	3.68E+00
Pu-240	1.44E-01
Pu-239	6.55E-01
Pu-238	2.15E-02
Am-241	6.15E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	110.7	0.0	0.0	0.0	0.0	110.7
Totals	110.7	0.0	0.0	0.0	0.0	110.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	97.8	0.0	0.0	0.0	0.0	97.8
SWB used to overpack 55 gallon drums	25.0	0.0	0.0	0.0	0.0	25.0
Totals	122.8	0.0	0.0	0.0	0.0	122.8

As-Generated Form: Stored: 110.7 Projected: 0.0 Total: 110.7

Final Waste Form: Stored: 122.8 Projected: 0.0 Total: 122.8

WASTE STREAM DESCRIPTION

This waste includes waste generated at ANL-East and solid wet sludge from the Rocky Flats Plant. The ANL-E waste is derived from research activities performed in a laboratory environment. The waste includes concrete and laboratory apparatus. The waste is packaged in 55-gallon drums or in SWBs.

The solid wet sludge is cemented or dewatered sludge precipitated from aqueous waste treatment processes. Soils that are not contaminated with organic chemicals are also included.

Rocky flats waste included in 111 is IDC 007, Building 374 solidified sludge. IDC 007 consists of immobilized low-level mixed waste materials from decontamination-precipitation and neutralization processes in the Building 374 Liquid Waste Treatment Facility. The wastewater treatment operation includes neutralization, radioactive decontamination (precipitation), filtration, evaporation, spray drying, salt immobilization, and filtrate sludge immobilization. The sludge from the rotary drum vacuum filter has a dry appearance but is still very moist. The dried sludge was transferred from the dryer directly into a 55-gallon drum. The sludge was dried, or had portland cement and diatomite added to absorb liquids.

Note: Waste matrix composition listed is for Rocky Flats Waste.

WASTE STREAM SOURCE

This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [RESEARCH GENERATED WASTE NONCOMPACTIBLE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W220, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W220	Handling:	CH	NMVP #:	N/A	Stream Name:	RESEARCH GENERATED WASTE NONCOMPACTIBLE :Cert-repack
Inventory Date:							
Local ID:	ID-OFS-111T	Type:	MTRU	Generator Site:	AE	Final Waste Form:	Solidified Inorganics
Waste Matrix Code:	S3121						

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D009, D008, D007, D006, D005, D004, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	3.4	3.4	3.4
Other Inorganic Material:	34.8	0.0	85.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	9.4	8.7	9.8
Solidified Inorganic Material:	463.2	321.6	568.2
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	308.8	214.4	378.8
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Other/Multiple Sources

TRUCON CODE

111

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	3.87E-08
U-233	4.25E-04
Pu-242	9.94E-06
Pu-241	3.68E+00
Pu-240	1.44E-01
Pu-239	6.55E-01
Pu-238	2.15E-02
Am-241	6.15E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	442.9	0.0	0.0	0.0	0.0	442.9
Totals	442.9	0.0	0.0	0.0	0.0	442.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	443.0	0.0	0.0	0.0	0.0	443.0
Totals	443.0	0.0	0.0	0.0	0.0	443.0

As-Generated Form: Stored: 442.9 Projected: 0.0 Total: 442.9

Final Waste Form: Stored: 443.0 Projected: 0.0 Total: 443.0

WASTE STREAM DESCRIPTION

This waste includes waste generated at ANL-East and solid wet sludge from the Rocky Flats Plant. The ANL-E waste is derived from research activities performed in a laboratory environment. The waste includes concrete and laboratory apparatus. The waste is packaged in 55-gallon drums or in SWBs.

The solid wet sludge is cemented or dewatered sludge precipitated from aqueous waste treatment processes. Soils that are not contaminated with organic chemicals are also included.

Rocky flats waste included in 111 is IDC 007, Building 374 solidified sludge. IDC 007 consists of immobilized low-level mixed waste materials from decontamination-precipitation and neutralization processes in the Building 374 Liquid Waste Treatment Facility. The wastewater treatment operation includes neutralization, radioactive decontamination (precipitation), filtration, evaporation, spray drying, salt immobilization, and filtrate sludge immobilization. The sludge from the rotary drum vacuum filter has a dry appearance but is still very moist. The dried sludge was transferred from the dryer directly into a 55-gallon drum. The sludge was dried, or had portland cement and diatomite added to absorb liquids.

Note: Waste matrix composition listed is for Rocky Flats Waste.

WASTE STREAM SOURCE

This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [RESEARCH GENERATED WASTE NONCOMPACTIBLE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W220, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

WASTE STREAM DESCRIPTION	Solid lab waste consists of cemented or absorbed neutralized aqueous laboratory waste and includes some waste from IDCs 004 and 292. Waste matrix composition listed is for IDC 004 waste, which accounts for most of the waste in this content code.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [SOLID LAB WASTE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W221, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W221	Handling:	CH	NMVP #:	N/A	Stream Name:	SOLID LAB WASTE:Cert-repack	Inventory Date:	
Local ID:	ID-RFO-113T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3113

AS-GENERATED EPA CODES

APP8, F003, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	26.9	0.0	325.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	523.2	310.2	814.2
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	209.3	124.1	325.7
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

113

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	1.09E-05
Pu-242	2.82E-05
Pu-241	1.05E+01
Pu-240	3.93E-01
Pu-239	1.73E+00
Pu-238	6.11E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	11.4	0.0	0.0	0.0	0.0	11.4
Totals	11.4	0.0	0.0	0.0	0.0	11.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	11.6	0.0	0.0	0.0	0.0	11.6
Totals	11.6	0.0	0.0	0.0	0.0	11.6

As-Generated Form: Stored: 11.4 Projected: 0.0 Total: 11.4

Final Waste Form: Stored: 11.6 Projected: 0.0 Total: 11.6

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W221	Handling:	CH	NMVP #:	N/A	Stream Name:	SOLID LAB WASTE:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-113T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3113

AS-GENERATED EPA CODES

APP8, F003, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	23.0	0.0	277.9
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	447.4	265.2	696.2
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	178.9	106.1	278.5
Soils:	0.0	0.0	0.0
Packaging Material Steel:	152.0		
Packaging Material Plastic:	31.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

113

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
U-235	1.09E-05
Pu-242	2.82E-05
Pu-241	1.05E+01
Pu-240	3.93E-01
Pu-239	1.73E+00
Pu-238	6.11E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	3.0	0.0	0.0	0.0	0.0	3.0
Totals	3.0	0.0	0.0	0.0	0.0	3.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.7	0.0	0.0	0.0	0.0	2.7
SWB used to overpack 55 gallon drums	0.9	0.0	0.0	0.0	0.0	0.9
Totals	3.6	0.0	0.0	0.0	0.0	3.6

As-Generated Form: Stored: 3.0 Projected: 0.0 Total: 3.0

Final Waste Form: Stored: 3.6 Projected: 0.0 Total: 3.6

WASTE STREAM DESCRIPTION	Solid lab waste consists of cemented or absorbed neutralized aqueous laboratory waste and includes some waste from IDCs 004 and 292. Waste matrix composition listed is for IDC 004 waste, which accounts for most of the waste in this content code.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [SOLID LAB WASTE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W221, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W222	Handling:	CH	NMVP #:	N/A	Stream Name:	CEMENTED SLUDGE:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-292T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3123

AS-GENERATED EPA CODES

APP8, F003, F002, F001, D008, D006, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.1	0.0	1.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	9.6	0.0	193.1
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.4	0.0	2.9
Rubber:	0.0	0.0	0.0
Plastics:	36.7	7.7	60.2
Solidified Inorganic Material:	152.9	84.7	251.9
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	102.0	56.4	167.9
Soils:	0.0	0.0	0.0
Packaging Material Steel:	148.0		
Packaging Material Plastic:	32.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.43E-04
Pu-241	5.28E+01
Pu-240	1.98E+00
Pu-239	8.74E+00
Pu-238	3.08E-01
Am-241	1.35E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	22.0	0.0	0.0	0.0	0.0	22.0
Totals	22.0	0.0	0.0	0.0	0.0	22.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	19.6	0.0	0.0	0.0	0.0	19.6
SWB used to overpack 55 gallon drums	5.2	0.0	0.0	0.0	0.0	5.2
Totals	24.7	0.0	0.0	0.0	0.0	24.7

As-Generated Form: Stored: 22.0 Projected: 0.0 Total: 22.0

Final Waste Form: Stored: 24.7 Projected: 0.0 Total: 24.7

WASTE STREAM DESCRIPTION	This waste stream, generated at Rocky Flats Plant, consists of sludge from the incinerator off-gas system, recovery building filter plenums, pumps, etc. Portland cement is added to absorb free liquids. The sludge may contain a limited number of surgical gloves. Content Code 292 replaced Code 290 in 1974. Before 1977, sludge was sealed in PVC bags, double-contained in plastic and placed in 1-gallon metal paint cans. Portland cement was added to the bottom and top of the can. After 1977, sludge was placed in 1-gallon PE bottles with layers of portland cement. Each can (or bottle) was assayed and placed in groups of about 25 into prepared 55-gallon drums. Drum preparation was in accordance with pre and post 1972 procedures. Starting in 1982, vermiculite replaced Oil-Dri as the material between the top of the waste material and the drum liner lid.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [CEMENTED SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W222, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W222	Handling:	CH	NMVP #:	N/A	Stream Name:	CEMENTED SLUDGE:Uncertifiable	Inventory Date:
Local ID:	ID-RFO-292T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code: S3123

AS-GENERATED EPA CODES

APP8, F003, F002, F001, D008, D006, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-242	2.85E-04
Pu-241	1.06E+02
Pu-240	3.96E+00
Pu-239	1.75E+01
Pu-238	6.17E-01
Am-241	2.70E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	77.4	0.0	0.0	0.0	0.0	77.4
Totals	77.4	0.0	0.0	0.0	0.0	77.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	39.1	0.0	0.0	0.0	0.0	39.1
Totals	39.1	0.0	0.0	0.0	0.0	39.1

As-Generated Form: Stored: 77.4 Projected: 0.0 Total: 77.4

Final Waste Form: Stored: 39.1 Projected: 0.0 Total: 39.1

WASTE STREAM DESCRIPTION	This waste stream, generated at Rocky Flats Plant, consists of sludge from the incinerator off-gas system, recovery building filter plenums, pumps, etc. Portland cement is added to absorb free liquids. The sludge may contain a limited number of surgical gloves. Content Code 292 replaced Code 290 in 1974. Before 1977, sludge was sealed in PVC bags, double-contained in plastic and placed in 1-gallon metal paint cans. Portland cement was added to the bottom and top of the can. After 1977, sludge was placed in 1-gallon PE bottles with layers of portland cement. Each can (or bottle) was assayed and placed in groups of about 25 into prepared 55-gallon drums. Drum preparation was in accordance with pre and post 1972 procedures. Starting in 1982, vermiculite replaced Oil-Dri as the material between the top of the waste material and the drum liner lid.
WASTE STREAM SOURCE	This record represents the [Uncertifiable] portion (70.46%) of the ' IWIR waste stream, [CEMENTED SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W222, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W222	Handling:	CH	NMVP #:	N/A	Stream Name:	CEMENTED SLUDGE:Cert-repack	Inventory Date:	
Local ID:	ID-RFO-292T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3123

AS-GENERATED EPA CODES

APP8, F003, F002, F001, D008, D006, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.1	0.0	1.1
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	10.9	0.0	219.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.4	0.0	3.3
Rubber:	0.0	0.0	0.0
Plastics:	41.6	8.7	68.3
Solidified Inorganic Material:	173.4	96.0	285.6
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	115.6	64.0	190.4
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	1.43E-04
Pu-241	5.28E+01
Pu-240	1.98E+00
Pu-239	8.74E+00
Pu-238	3.08E-01
Am-241	1.35E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	11.0	0.0	0.0	0.0	0.0	11.0
Totals	11.0	0.0	0.0	0.0	0.0	11.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	10.6	0.0	0.0	0.0	0.0	10.6
Totals	10.6	0.0	0.0	0.0	0.0	10.6

As-Generated Form: Stored: 11.0 Projected: 0.0 Total: 11.0

Final Waste Form: Stored: 10.6 Projected: 0.0 Total: 10.6

WASTE STREAM DESCRIPTION	This waste stream, generated at Rocky Flats Plant, consists of sludge from the incinerator off-gas system, recovery building filter plenums, pumps, etc. Portland cement is added to absorb free liquids. The sludge may contain a limited number of surgical gloves. Content Code 292 replaced Code 290 in 1974. Before 1977, sludge was sealed in PVC bags, double-contained in plastic and placed in 1-gallon metal paint cans. Portland cement was added to the bottom and top of the can. After 1977, sludge was placed in 1-gallon PE bottles with layers of portland cement. Each can (or bottle) was assayed and placed in groups of about 25 into prepared 55-gallon drums. Drum preparation was in accordance with pre and post 1972 procedures. Starting in 1982, vermiculite replaced Oil-Dri as the material between the top of the waste material and the drum liner lid.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (9.54%) of the MWIR waste stream, [CEMENTED SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W222, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W225	Handling:	CH	NMVP #:	121	Stream Name:	BENELEX AND PLEXIGLASS:Cert-repack	Inventory Date:	
Local ID:	ID-RFO-302T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

APP8, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	37.0	0.0	101.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	187.0	0.0	833.0
Rubber:	0.0	0.0	0.0
Plastics:	199.0	15.3	385.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

121, 221

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	4.08E-06
Pu-241	1.51E+00
Pu-240	5.67E-02
Pu-239	2.50E-01
Pu-238	8.82E-03
Am-241	4.10E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	19.0	0.0	0.0	0.0	0.0	19.0
Drum	2.5	0.0	0.0	0.0	0.0	2.5
Totals	21.6	0.0	0.0	0.0	0.0	21.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	21.6	0.0	0.0	0.0	0.0	21.6
Totals	21.6	0.0	0.0	0.0	0.0	21.6

As-Generated Form: Stored: 21.6 Projected: 0.0 Total: 21.6

Final Waste Form: Stored: 21.6 Projected: 0.0 Total: 21.6

WASTE STREAM DESCRIPTION

This waste, generated at Rocky Flats Plant, consists of Benelex, which is used for neutron shielding, and Plexiglas glovebox windows. Lead sheeting (1/8 to 1/4 in. thick) may be attached to some benelex pieces. Benelex was usually coated with fire-retardant paint. In addition to Plexiglas, other types of glass such as leaded-glass may be present in the waste.

The waste may include limited amounts of surgeons' gloves, metal hinges on Benelex gloveport doors, pieces of angle iron attached to larger pieces of Benelex, and rubber gaskets from glovebox windows. Content code 302 replaced content code 464 during 1973.

The majority of waste drums will contain pieces of benelex (gloveport doors, etc.) generated from routine maintenance and renovation projects conducted primarily in 1972. Plexiglas and other types of glass may be found mixed in with the benelex and/or segregated and contained in a limited number of waste drums. Pieces of benelex waste were usually placed directly into prepared 55-gallon drums. Any contaminated Benelex was usually contained in plastic bags or wrapped in plastic sheeting. Plexiglas windows were usually contained in plastic before being placed in a prepared 55-gallon drum. Oil dri may have been added to the waste drums.

The waste boxes were generated during 1973 and 1974 and are believed to contain larger pieces of benelex shielding on angle iron frames that were removed during final fire cleanup operations in building 776. It is believed that the benelex came from the south foundry line in building 776, which was not directly involved in the 1969 fire and was decontaminated and placed back in operation.

The waste matrix composition listed is based on opening and examination of several drums of IDC 302 waste. More than 94% of this waste is in boxes, where a larger percentage of benelex (large pieces) can be expected.

WASTE STREAM SOURCE

This record represents the [Cert-repack] portion (97.14%) of the MWIR waste stream, [BENELEX AND PLEXIGLASS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W225, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W225	Handling:	CH	NMVP #:	121	Stream Name:	BENELEX AND PLEXIGLASS:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-302T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

APP8, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	28.1	0.0	76.6
Vitrified:	0.0	0.0	0.0
Cellulosics:	141.7	0.0	631.2
Rubber:	0.0	0.0	0.0
Plastics:	150.8	11.6	291.7
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	165.9		
Packaging Material Plastic:	28.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

121, 221

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-242	4.08E-06
Pu-241	1.51E+00
Pu-240	5.67E-02
Pu-239	2.50E-01
Pu-238	8.82E-03
Am-241	4.10E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	1.1	0.0	0.0	0.0	0.0	1.1

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 1.1 Projected: 0.0 Total: 1.1

WASTE STREAM DESCRIPTION	This waste, generated at Rocky Flats Plant, consists of Benelex, which is used for neutron shielding, and Plexiglas glovebox windows. Lead sheeting (1/8 to 1/4 in. thick) may be attached to some benelex pieces. Benelex was usually coated with fire-retardant paint. In addition to Plexiglas, other types of glass such as leaded-glass may be present in the waste. The waste may include limited amounts of surgeons' gloves, metal hinges on Benelex gloveport doors, pieces of angle iron attached to larger pieces of Benelex, and rubber gaskets from glovebox windows. Content code 302 replaced content code 464 during 1973. The majority of waste drums will contain pieces of benelex (gloveport doors, etc.) generated from routine maintenance and renovation projects conducted primarily in 1972. Plexiglas and other types of glass may be found mixed in with the benelex and/or segregated and contained in a limited number of waste drums. Pieces of benelex waste were usually placed directly into prepared 55-gallon drums. Any contaminated Benelex was usually contained in plastic bags or wrapped in plastic sheeting. Plexiglas windows were usually contained in plastic before being placed in a prepared 55-gallon drum. Oil dri may have been added to the waste drums. The waste boxes were generated during 1973 and 1974 and are believed to contain larger pieces of benelex shielding on angle iron frames that were removed during final fire cleanup operations in building 776. It is believed that the benelex came from the south foundry line in building 776, which was not directly involved in the 1969 fire and was decontaminated and placed back in operation. The waste matrix composition listed is based on opening and examination of several drums of IDC 302 waste. More than 94% of this waste is in boxes, where a larger percentage of benelex (large pieces) can be expected.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (2.86%) of the MWIR waste stream; [BENELEX AND PLEXIGLASS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W225, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W228	Handling:	CH	NMVP #:	N/A	Stream Name:	SECOND STAGE SLUDGE:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-002T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3121

AS-GENERATED EPA CODES

APP8, F003, F002, F001, D028, D022, D011, D009, D008, D007, D006, D005, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	20.1	0.0	91.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.1	0.0	1.0
Rubber:	0.0	0.0	0.0
Plastics:	2.8	1.9	3.9
Solidified Inorganic Material:	176.6	43.0	217.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	117.7	28.7	144.6
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.4		
Packaging Material Plastic:	33.1		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

211

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-242	1.49E-06
Pu-241	5.52E-01
Pu-240	2.07E-02
Pu-239	9.15E-02
Pu-238	3.23E-03
Am-241	3.70E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	259.3	0.0	0.0	0.0	0.0	259.3
Totals	259.3	0.0	0.0	0.0	0.0	259.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	229.2	0.0	0.0	0.0	0.0	229.2
SWB used to overpack 55 gallon drums	58.1	0.0	0.0	0.0	0.0	58.1
Totals	287.3	0.0	0.0	0.0	0.0	287.3

As-Generated Form: Stored: 259.3 Projected: 0.0 Total: 259.3

Final Waste Form: Stored: 287.3 Projected: 0.0 Total: 287.3

WASTE STREAM DESCRIPTION

Waste consists of a wet sludge produced from treatment of all other plant radioactive and/or chemical contaminated wastes and further treatment of the first-stage effluent. Portland cement was added to the waste package for absorption of free liquids.

Second-stage sludge drums packaged prior to 1973 may contain other waste such as electric motors, bottles of chemical (usually liquid) wastes, mercury and lithium batteries, and small amounts of contaminated mercury in pint bottles. Radioactive sources were also periodically included in second-stage drums through 1979.

Since the fall of 1979, Second stage sludge (IDC 002) have been combined into Content Code 1 - Combined sludge. Content code 2 is no longer used.

Sludge is produced by treating aqueous wastes by the carrier precipitation process. Aqueous wastes are made basic, if necessary, with sodium hydroxide. Radioactive elements such as plutonium and americium are chemically precipitated from the liquid waste. Treatment chemicals include ferric sulfate, calcium chloride, magnesium sulfate, and flocculating agents. The treatment process produces a precipitate of the hydrated oxides of iron, magnesium, aluminum, silicon, etc., which also carries the hydrated oxides of plutonium and americium. The precipitate or slurry is filtered to produce a sludge containing 50 to 70 weight percent water.

Liquid wastes were analyzed for fissile content prior to release from Building 771 and 774, and were retained at Building 771 for further treatment if contaminated with above-discard amounts of plutonium.

WASTE STREAM SOURCE

This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [SECOND STAGE SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W228, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W228	Handling:	CH	NMVP #:	N/A	Stream Name:	SECOND STAGE SLUDGE:CH-uncert-other
Inventory Date:							
Local ID:	ID-RFO-002T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal
Waste Matrix Code:	S3121						

AS-GENERATED EPA CODES

APP8, F003, F002, F001, D028, D022, D011, D009, D008, D007, D006, D005, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	2.98E-06
Pu-241	1.10E+00
Pu-240	4.15E-02
Pu-239	1.83E-01
Pu-238	6.46E-03
Am-241	7.40E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	397.5	0.0	0.0	0.0	0.0	397.5
Totals	397.5	0.0	0.0	0.0	0.0	397.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	198.8	0.0	0.0	0.0	0.0	198.8
Totals	198.8	0.0	0.0	0.0	0.0	198.8

As-Generated Form: Stored: 397.5 Projected: 0.0 Total: 397.5

Final Waste Form: Stored: 198.8 Projected: 0.0 Total: 198.8

WASTE STREAM DESCRIPTION

Waste consists of a wet sludge produced from treatment of all other plant radioactive and/or chemical contaminated wastes and further treatment of the first-stage effluent. Portland cement was added to the waste package for absorption of free liquids.

Second-stage sludge drums packaged prior to 1973 may contain other waste such as electric motors, bottles of chemical (usually liquid) wastes, mercury and lithium batteries, and small amounts of contaminated mercury in pint bottles. Radioactive sources were also periodically included in second-stage drums through 1979.

Since the fall of 1979, Second stage sludge (IDC 002) have been combined into Content Code 1 - Combined sludge. Content code 2 is no longer used.

Sludge is produced by treating aqueous wastes by the carrier precipitation process. Aqueous wastes are made basic, if necessary, with sodium hydroxide. Radioactive elements such as plutonium and americium are chemically precipitated from the liquid waste. Treatment chemicals include ferric sulfate, calcium chloride, magnesium sulfate, and flocculating agents. The treatment process produces a precipitate of the hydrated oxides of iron, magnesium, aluminum, silicon, etc., which also carries the hydrated oxides of plutonium and americium. The precipitate or slurry is filtered to produce a sludge containing 50 to 70 weight percent water.

Liquid wastes were analyzed for fissile content prior to release from Building 771 and 774, and were retained at Building 771 for further treatment if contaminated with above-discard amounts of plutonium.

WASTE STREAM SOURCE

This record represents the [CH-uncert-other] portion (30.65%) of the MWIR waste stream, [SECOND STAGE SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W228, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W228	Handling:	CH	NMVP #:	N/A	Stream Name:	SECOND STAGE SLUDGE:CH-uncert-Hg	Inventory Date:	
Local ID:	ID-RFO-002T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S3121

AS-GENERATED EPA CODES

APP8, F003, F002, F001, D028, D022, D011, D009, D008, D007, D006, D005, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	4.97E-07
Pu-241	1.84E-01
Pu-240	6.92E-03
Pu-239	3.05E-02
Pu-238	1.08E-03
Am-241	1.23E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	10.6	0.0	0.0	0.0	0.0	10.6
Totals	10.6	0.0	0.0	0.0	0.0	10.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	31.8	0.0	0.0	0.0	0.0	31.8
Totals	31.8	0.0	0.0	0.0	0.0	31.8

As-Generated Form: Stored: 10.6 Projected: 0.0 Total: 10.6

Final Waste Form: Stored: 31.8 Projected: 0.0 Total: 31.8

WASTE STREAM DESCRIPTION

Waste consists of a wet sludge produced from treatment of all other plant radioactive and/or chemical contaminated wastes and further treatment of the first-stage effluent. Portland cement was added to the waste package for absorption of free liquids.

Second-stage sludge drums packaged prior to 1973 may contain other waste such as electric motors, bottles of chemical (usually liquid) wastes, mercury and lithium batteries, and small amounts of contaminated mercury in pint bottles. Radioactive sources were also periodically included in second-stage drums through 1979.

Since the fall of 1979, Second stage sludge (IDC 002) have been combined into Content Code 1 - Combined sludge. Content code 2 is no longer used.

Sludge is produced by treating aqueous wastes by the carrier precipitation process. Aqueous wastes are made basic, if necessary, with sodium hydroxide. Radioactive elements such as plutonium and americium are chemically precipitated from the liquid waste. Treatment chemicals include ferric sulfate, calcium chloride, magnesium sulfate, and flocculating agents. The treatment process produces a precipitate of the hydrated oxides of iron, magnesium, aluminum, silicon, etc., which also carries the hydrated oxides of plutonium and americium. The precipitate or slurry is filtered to produce a sludge containing 50 to 70 weight percent water.

Liquid wastes were analyzed for fissile content prior to release from Building 771 and 774, and were retained at Building 771 for further treatment if contaminated with above-discard amounts of plutonium.

WASTE STREAM SOURCE

This record represents the [CH-uncert-Hg] portion (.81%) of the MWIR waste stream, [SECOND STAGE SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk amalg TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W228, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W228	Handling:	CH	NMVP #:	N/A	Stream Name:	SECOND STAGE SLUDGE:CH-cert-repack
Inventory Date:							
Local ID:	ID-RFO-002T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics
Waste Matrix Code:	S3121						

AS-GENERATED EPA CODES

APP8, F003, F002, F001, D028, D022, D011, D009, D008, D007, D006, D005, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	22.7	0.0	103.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.2	0.0	1.1
Rubber:	0.0	0.0	0.0
Plastics:	3.1	2.2	4.4
Solidified Inorganic Material:	199.2	48.5	244.8
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	132.8	32.4	163.2
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

211

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.49E-06
Pu-241	5.52E-01
Pu-240	2.07E-02
Pu-239	9.15E-02
Pu-238	3.23E-03
Am-241	3.70E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	608.7	0.0	0.0	0.0	0.0	608.7
Totals	608.7	0.0	0.0	0.0	0.0	608.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	608.8	0.0	0.0	0.0	0.0	608.8
Totals	608.8	0.0	0.0	0.0	0.0	608.8

As-Generated Form: Stored: 608.7 Projected: 0.0 Total: 608.7

Final Waste Form: Stored: 608.8 Projected: 0.0 Total: 608.8

WASTE STREAM DESCRIPTION

Waste consists of a wet sludge produced from treatment of all other plant radioactive and/or chemical contaminated wastes and further treatment of the first-stage effluent. Portland cement was added to the waste package for absorption of free liquids.

Second-stage sludge drums packaged prior to 1973 may contain other waste such as electric motors, bottles of chemical (usually liquid) wastes, mercury and lithium batteries, and small amounts of contaminated mercury in pint bottles. Radioactive sources were also periodically included in second-stage drums through 1979.

Since the fall of 1979, Second stage sludge (IDC 002) have been combined into Content Code 1 - Combined sludge. Content code 2 is no longer used.

Sludge is produced by treating aqueous wastes by the carrier precipitation process. Aqueous wastes are made basic, if necessary, with sodium hydroxide. Radioactive elements such as plutonium and americium are chemically precipitated from the liquid waste. Treatment chemicals include ferric sulfate, calcium chloride, magnesium sulfate, and flocculating agents. The treatment process produces a precipitate of the hydrated oxides of iron, magnesium, aluminum, silicon, etc., which also carries the hydrated oxides of plutonium and americium. The precipitate or slurry is filtered to produce a sludge containing 50 to 70 weight percent water.

Liquid wastes were analyzed for fissile content prior to release from Building 771 and 774, and were retained at Building 771 for further treatment if contaminated with above-discard amounts of plutonium.

WASTE STREAM SOURCE

This record represents the [CH-cert-repack] portion (46.94%) of the MWIR waste stream, [SECOND STAGE SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W228, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 6.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W228	Handling:	RH	NMVP #:	N/A	Stream Name:	SECOND STAGE SLUDGE:RH-uncert-other	Inventory Date:	
Local ID:	ID-RFO-002T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3121

AS-GENERATED EPA CODES

APP8, F003, F002, F001, D028, D022, D011, D009, D008, D007, D006, D005, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-242	2.98E-06
Pu-241	1.10E+00
Pu-240	4.15E-02
Pu-239	1.83E-01
Pu-238	6.46E-03
Am-241	7.40E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	5.9	0.0	0.0	0.0	0.0	5.9
Totals	5.9	0.0	0.0	0.0	0.0	5.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	4.7	0.0	0.0	0.0	0.0	4.7
Totals	4.7	0.0	0.0	0.0	0.0	4.7

As-Generated Form: Stored: 5.9 Projected: 0.0 Total: 5.9

Final Waste Form: Stored: 4.7 Projected: 0.0 Total: 4.7

WASTE STREAM DESCRIPTION

Waste consists of a wet sludge produced from treatment of all other plant radioactive and/or chemical contaminated wastes and further treatment of the first-stage effluent. Portland cement was added to the waste package for absorption of free liquids.

Second-stage sludge drums packaged prior to 1973 may contain other waste such as electric motors, bottles of chemical (usually liquid) wastes, mercury and lithium batteries, and small amounts of contaminated mercury in pint bottles. Radioactive sources were also periodically included in second-stage drums through 1979.

Since the fall of 1979, Second stage sludge (IDC 002) have been combined into Content Code 1 - Combined sludge. Content code 2 is no longer used.

Sludge is produced by treating aqueous wastes by the carrier precipitation process. Aqueous wastes are made basic, if necessary, with sodium hydroxide. Radioactive elements such as plutonium and americium are chemically precipitated from the liquid waste. Treatment chemicals include ferric sulfate, calcium chloride, magnesium sulfate, and flocculating agents. The treatment process produces a precipitate of the hydrated oxides of iron, magnesium, aluminum, silicon, etc., which also carries the hydrated oxides of plutonium and americium. The precipitate or slurry is filtered to produce a sludge containing 50 to 70 weight percent water.

Liquid wastes were analyzed for fissile content prior to release from Building 771 and 774, and were retained at Building 771 for further treatment if contaminated with above-discard amounts of plutonium.

WASTE STREAM SOURCE

This record represents the [RH-uncert-other] portion (.45%) of the MWIR waste stream, [SECOND STAGE SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W228, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W228	Handling:	RH	NMVP #:	N/A	Stream Name:	SECOND STAGE SLUDGE:RH-uncert-Hg
Inventory Date:							
Local ID:	ID-RFO-002T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal
Waste Matrix Code:	S3121						

AS-GENERATED EPA CODES

APP8, F003, F002, F001, D028, D022, D011, D009, D008, D007, D006, D005, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-242	4.97E-07
Pu-241	1.84E-01
Pu-240	6.92E-03
Pu-239	3.05E-02
Pu-238	1.08E-03
Am-241	1.23E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	1.2	0.0	0.0	0.0	0.0	1.2
Totals	1.2	0.0	0.0	0.0	0.0	1.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 1.2 Projected: 0.0 Total: 1.2

WASTE STREAM DESCRIPTION

M

Waste consists of a wet sludge produced from treatment of all other plant radioactive and/or chemical contaminated wastes and further treatment of the first-stage effluent. Portland cement was added to the waste package for absorption of free liquids.

Second-stage sludge drums packaged prior to 1973 may contain other waste such as electric motors, bottles of chemical (usually liquid) wastes, mercury and lithium batteries, and small amounts of contaminated mercury in pint bottles. Radioactive sources were also periodically included in second-stage drums through 1979.

Since the fall of 1979, Second stage sludge (IDC 002) have been combined into Content Code 1 - Combined sludge. Content code 2 is no longer used.

Sludge is produced by treating aqueous wastes by the carrier precipitation process. Aqueous wastes are made basic, if necessary, with sodium hydroxide. Radioactive elements such as plutonium and americium are chemically precipitated from the liquid waste. Treatment chemicals include ferric sulfate, calcium chloride, magnesium sulfate, and flocculating agents. The treatment process produces a precipitate of the hydrated oxides of iron, magnesium, aluminum, silicon, etc., which also carries the hydrated oxides of plutonium and americium. The precipitate or slurry is filtered to produce a sludge containing 50 to 70 weight percent water.

Liquid wastes were analyzed for fissile content prior to release from Building 771 and 774, and were retained at Building 771 for further treatment if contaminated with above-discard amounts of plutonium.

WASTE STREAM SOURCE

This record represents the [RH-uncert-Hg] portion (.02%) of the MWIR waste stream, [SECOND STAGE SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk amalg TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W228, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W228	Handling:	RH	NMVP #:	N/A	Stream Name:	SECOND STAGE SLUDGE:RH-cert-repack	Inventory Date:
Local ID:	ID-RFO-002T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code: S3121

AS-GENERATED EPA CODES

APP8, F003, F002, F001, D028, D022, D011, D009, D008, D007, D006, D005, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	15.8	0.0	71.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.1	0.0	0.8
Rubber:	0.0	0.0	0.0
Plastics:	2.2	1.5	3.0
Solidified Inorganic Material:	138.9	33.9	170.7
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	92.6	22.6	113.8
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Pollution Control or Waste Treatment Process

TRUCON CODE

211

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	1.49E-06
Pu-241	5.52E-01
Pu-240	2.07E-02
Pu-239	9.15E-02
Pu-238	3.23E-03
Am-241	3.70E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	14.6	0.0	0.0	0.0	0.0	14.6
Totals	14.6	0.0	0.0	0.0	0.0	14.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	21.4	0.0	0.0	0.0	0.0	21.4
Totals	21.4	0.0	0.0	0.0	0.0	21.4

As-Generated Form: Stored: 14.6 Projected: 0.0 Total: 14.6

Final Waste Form: Stored: 21.4 Projected: 0.0 Total: 21.4

WASTE STREAM DESCRIPTION

Waste consists of a wet sludge produced from treatment of all other plant radioactive and/or chemical contaminated wastes and further treatment of the first-stage effluent. Portland cement was added to the waste package for absorption of free liquids.

Second-stage sludge drums packaged prior to 1973 may contain other waste such as electric motors, bottles of chemical (usually liquid) wastes, mercury and lithium batteries, and small amounts of contaminated mercury in pint bottles. Radioactive sources were also periodically included in second-stage drums through 1979.

Since the fall of 1979, Second stage sludge (IDC 002) have been combined into Content Code 1 - Combined sludge. Content code 2 is no longer used.

Sludge is produced by treating aqueous wastes by the carrier precipitation process. Aqueous wastes are made basic, if necessary, with sodium hydroxide. Radioactive elements such as plutonium and americium are chemically precipitated from the liquid waste. Treatment chemicals include ferric sulfate, calcium chloride, magnesium sulfate, and flocculating agents. The treatment process produces a precipitate of the hydrated oxides of iron, magnesium, aluminum, silicon, etc., which also carries the hydrated oxides of plutonium and americium. The precipitate or slurry is filtered to produce a sludge containing 50 to 70 weight percent water.

Liquid wastes were analyzed for fissile content prior to release from Building 771 and 774, and were retained at Building 771 for further treatment if contaminated with above-discard amounts of plutonium.

WASTE STREAM SOURCE

This record represents the [RH-cert-repack] portion (1.13%) of the MWIR waste stream, [SECOND STAGE SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W228, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W230	Handling:	CH	NMVP #:	N/A	Stream Name:	INORGANIC SOLID WASTE:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-122T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5420

AS-GENERATED EPA CODES

APP8, F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	463.1	42.1	1094.6
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	148.9		
Packaging Material Plastic:	32.7		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

122

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-235	7.81E-06
Pu-242	1.37E-04
Pu-241	5.08E+01
Pu-240	1.91E+00
Pu-239	8.41E+00
Pu-238	2.97E-01
Am-241	5.07E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	3.6	0.0	0.0	0.0	0.0	3.6
Totals	3.6	0.0	0.0	0.0	0.0	3.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.3	0.0	0.0	0.0	0.0	3.3
SWB used to overpack 55 gallon drums	0.9	0.0	0.0	0.0	0.0	0.9
Totals	4.3	0.0	0.0	0.0	0.0	4.3

As-Generated Form: Stored: 3.6 Projected: 0.0 Total: 3.6

Final Waste Form: Stored: 4.3 Projected: 0.0 Total: 4.3

WASTE STREAM DESCRIPTION	TRU inorganic solid waste consists of waste such as insulation, firebrick, and concrete. The IDCs packaged and included 122 are 371, 374, 377, and 422. The majority of the waste in this content code is waste generated during maintenance/stripout activities. (i.e. replacement of firebrick or insulation.) Waste matrix composition listed is for IDC 374, which makes up the bulk of the waste in this content code.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [INORGANIC SOLID WASTE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W230, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W230	Handling:	CH	NMVP #:	N/A	Stream Name:	INORGANIC SOLID WASTE:Cert-repack	Inventory Date:	
Local ID:	ID-RFO-122T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5420

AS-GENERATED EPA CODES

APP8, F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	528.8	48.1	1250.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

122

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
U-235	7.81E-06
Pu-242	1.37E-04
Pu-241	5.08E+01
Pu-240	1.91E+00
Pu-239	8.41E+00
Pu-238	2.97E-01
Am-241	5.07E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	14.6	0.0	0.0	0.0	0.0	14.6
Totals	14.6	0.0	0.0	0.0	0.0	14.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	14.8	0.0	0.0	0.0	0.0	14.8
Totals	14.8	0.0	0.0	0.0	0.0	14.8

As-Generated Form: Stored: 14.6 Projected: 0.0 Total: 14.6

Final Waste Form: Stored: 14.8 Projected: 0.0 Total: 14.8

WASTE STREAM DESCRIPTION	TRU inorganic solid waste consists of waste such as insulation, firebrick, and concrete. The IDCs packaged and included 122 are 371, 374, 377, and 422. The majority of the waste in this content code is waste generated during maintenance/stripout activities. (i.e. replacement of firebrick or insulation.) Waste matrix composition listed is for IDC 374, which makes up the bulk of the waste in this content code.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [INORGANIC SOLID WASTE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W230, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

M

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W240	Handling:	CH	NMVP #:	N/A	Stream Name:	GLASS WASTE:Cert-repack	Inventory Date:
Local ID:	ID-RFO-118T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code: S3117

AS-GENERATED EPA CODES

APP8, F001, D009, D008, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.6	0.0	13.1
Vitrified:	0.0	0.0	0.0
Cellulosics:	299.0	51.4	850.0
Rubber:	0.0	0.0	0.0
Plastics:	1.1	0.0	8.7
Solidified Inorganic Material:	32.4	3.8	69.9
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON CODE

118

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-235	3.74E-07
Pu-242	3.88E-05
Pu-241	1.43E+01
Pu-240	5.39E-01
Pu-239	2.38E+00
Pu-238	8.39E-02
Am-241	3.48E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	161.7	0.0	0.0	0.0	0.0	161.7
Drum	5.9	0.0	0.0	0.0	0.0	5.9
Totals	167.6	0.0	0.0	0.0	0.0	167.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	167.6	0.0	0.0	0.0	0.0	167.6
Totals	167.6	0.0	0.0	0.0	0.0	167.6

As-Generated Form: Stored: 167.6 Projected: 0.0 Total: 167.6

Final Waste Form: Stored: 167.6 Projected: 0.0 Total: 167.6

WASTE STREAM DESCRIPTION	TRU glass waste consists of discarded labware, windows, containers or raschig rings from various processes. The IDCs packaged and included in 118 are 440, 441, and 442. Waste matrix composition listed is for IDC 440. For IDCs 441 and 442, the "Other Glass" matrix would be mostly raschig rings.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (99.12%) of the MWIR waste stream, [GLASS WASTE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W240, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W240	Handling:	CH	NMVP #:	N/A	Stream Name:	GLASS WASTE:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-118T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3117

AS-GENERATED EPA CODES

APP8, F001, D009, D008, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.4	0.0	11.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	258.0	44.4	733.4
Rubber:	0.0	0.0	0.0
Plastics:	0.9	0.0	7.5
Solidified Inorganic Material:	28.0	3.3	60.3
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	150.8		
Packaging Material Plastic:	32.2		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

118

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	3.74E-07
Pu-242	3.88E-05
Pu-241	1.43E+01
Pu-240	5.39E-01
Pu-239	2.38E+00
Pu-238	8.39E-02
Am-241	3.48E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.5	0.0	0.0	0.0	0.0	1.5
Totals	1.5	0.0	0.0	0.0	0.0	1.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.5	0.0	0.0	0.0	0.0	1.5
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated Form: Stored: 1.5 Projected: 0.0 Total: 1.5

Final Waste Form: Stored: 1.9 Projected: 0.0 Total: 1.9

WASTE STREAM DESCRIPTION	TRU glass waste consists of discarded labware, windows, containers or raschig rings from various processes. The IDCs packaged and included in 118 are 440, 441, and 442. Waste matrix composition listed is for IDC 440. For IDCs 441 and 442, the "Other Glass" matrix would be mostly raschig rings.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (.88%) of the MWIR waste stream, [GLASS WASTE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W240, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W243	Handling:	CH	NMVP #:	118	Stream Name:	GLASS:CH-Cert-repack	Inventory Date:
Local ID:	ID-RFO-440T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code: S3117

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D008, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	1.6	0.0	13.1
Other Inorganic Material:	299.0	51.4	850.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	1.1	0.0	8.7
Plastics:	32.4	3.8	69.9
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Analytical Laboratory Waste

TRUCON CODE

118

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-238	4.26E-08
U-235	6.17E-07
Pu-242	3.49E-05
Pu-241	1.29E+01
Pu-240	4.85E-01
Pu-239	2.14E+00
Pu-238	7.54E-02
Am-241	1.52E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	41.2	0.0	0.0	0.0	0.0	41.2
Drum	132.9	0.0	0.0	0.0	0.0	132.9
Totals	174.1	0.0	0.0	0.0	0.0	174.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	174.3	0.0	0.0	0.0	0.0	174.3
Totals	174.3	0.0	0.0	0.0	0.0	174.3

As-Generated Form: Stored: 174.1 Projected: 0.0 Total: 174.1

Final Waste Form: Stored: 174.3 Projected: 0.0 Total: 174.3

WASTE STREAM DESCRIPTION

This waste stream, generated at the Rocky Flats Plant, consists of glass sample vials, bottles, lead-taped sample vials, ion exchange columns, dissolver pots, laboratory glassware such as pyrex flasks and beakers, glovebox windows (glass, plexiglass, leaded glass), and crushed and ground glass. The waste includes limited amounts of other noncombustibles such as metals, and limited amounts of combustible wastes. No sludges should be present although some glass vials may contain limited amounts of free liquids. No explosive, pyrophoric, or corrosive materials should be in the waste.

Drums may contain respirable crushed glass fines or free liquids .

The glass may be packaged with some variation depending on if it is whole, broken to pieces, or crushed or ground. Whole or broken glass may be packaged in 1-gallon PE bottles, in 13-inch high by 15.5-inch diameter Fibre-Paks (either loose or inside plastic bags inside the Fibre-Pak), or double -packed in plastic bags, with the outside of the outer bag taped for protection against sharp edges. Glassware such as sample vials may be taped together before packaging. Nonline generated glassware, light bulbs, and fluorescent tubes are usually crushed or ground and placed directly into a prepared 55-gallon drum. Drums were packed according to the usual pre-1972 and post-1972 procedures. Specific information on the box preparation was not available.

Each drum was assayed. Since 1972, the drums were also processed according to inspection and sealing procedures; and, since 1982, vermiculite instead of Oil-Dri was placed on top of the outer sealed PE drum bag. A small number of the drums are lead-lined. Also, Oil-Dri was added to the glass waste if moisture was present.

WASTE STREAM SOURCE

This record represents the [CH-Cert-repack] portion (70.31%) of the MWIR waste stream, [GLASS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W243, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W243	Handling:	CH	NMVP #:	N/A	Stream Name:	GLASS:CH-Uncert	Inventory Date:	
Local ID:	ID-RFO-440T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3117

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D008, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Analytical Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-238	1.70E-07
U-235	2.47E-06
Pu-242	1.39E-04
Pu-241	5.16E+01
Pu-240	1.94E+00
Pu-239	8.54E+00
Pu-238	3.02E-01
Am-241	6.09E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	28.8	0.0	0.0	0.0	0.0	28.8
Totals	28.8	0.0	0.0	0.0	0.0	28.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	7.3	0.0	0.0	0.0	0.0	7.3
Totals	7.3	0.0	0.0	0.0	0.0	7.3

As-Generated Form: Stored: 28.8 Projected: 0.0 Total: 28.8

Final Waste Form: Stored: 7.3 Projected: 0.0 Total: 7.3

WASTE STREAM DESCRIPTION

This waste stream, generated at the Rocky Flats Plant, consists of glass sample vials, bottles, lead-taped sample vials, ion exchange columns, dissolver pots, laboratory glassware such as pyrex flasks and beakers, glovebox windows (glass, plexiglass, leaded glass), and crushed and ground glass. The waste includes limited amounts of other noncombustibles such as metals, and limited amounts of combustible wastes. No sludges should be present although some glass vials may contain limited amounts of free liquids. No explosive, pyrophoric, or corrosive materials should be in the waste.

Drums may contain respirable crushed glass fines or free liquids .

The glass may be packaged with some variation depending on if it is whole, broken to pieces, or crushed or ground. Whole or broken glass may be packaged in 1-gallon PE bottles, in 13-inch high by 15.5-inch diameter Fibre-Paks (either loose or inside plastic bags inside the Fibre-Pak), or double -packed in plastic bags, with the outside of the outer bag taped for protection against sharp edges. Glassware such as sample vials may be taped together before packaging. Nonline generated glassware, light bulbs, and fluorescent tubes are usually crushed or ground and placed directly into a prepared 55-gallon drum. Drums were packed according to the usual pre-1972 and post-1972 procedures. Specific information on the box preparation was not available.

Each drum was assayed. Since 1972, the drums were also processed according to inspection and sealing procedures; and, since 1982, vermiculite instead of Oil-Dri was placed on top of the outer sealed PE drum bag. A small number of the drums are lead-lined. Also, Oil-Dri was added to the glass waste if moisture was present.

WASTE STREAM SOURCE

This record represents the [CH-Uncert] portion (11.69%) of the MWIR waste stream, [GLASS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W243, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W243	Handling:	RH	NMVP #:	118	Stream Name:	GLASS:RH-Cert-repack	Inventory Date:	
Local ID:	ID-RFO-440T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3117

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D008, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	1.1	0.0	9.1
Other Inorganic Material:	208.5	35.9	592.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.8	0.0	6.1
Plastics:	22.6	2.7	48.8
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Analytical Laboratory Waste

TRUCON CODE

118

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-238	4.26E-08
U-235	6.17E-07
Pu-242	3.49E-05
Pu-241	1.29E+01
Pu-240	4.85E-01
Pu-239	2.14E+00
Pu-238	7.54E-02
Am-241	1.52E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	2.5	0.0	0.0	0.0	0.0	2.5
Totals	2.5	0.0	0.0	0.0	0.0	2.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	3.6	0.0	0.0	0.0	0.0	3.6
Totals	3.6	0.0	0.0	0.0	0.0	3.6

As-Generated Form; Stored: 2.5 Projected: 0.0 Total: 2.5

Final Waste Form; Stored: 3.6 Projected: 0.0 Total: 3.6

WASTE STREAM DESCRIPTION

This waste stream, generated at the Rocky Flats Plant, consists of glass sample vials, bottles, lead-taped sample vials, ion exchange columns, dissolver pots, laboratory glassware such as pyrex flasks and beakers, glovebox windows (glass, plexiglass, leaded glass), and crushed and ground glass. The waste includes limited amounts of other noncombustibles such as metals, and limited amounts of combustible wastes. No sludges should be present although some glass vials may contain limited amounts of free liquids. No explosive, pyrophoric, or corrosive materials should be in the waste.

Drums may contain respirable crushed glass fines or free liquids .

The glass may be packaged with some variation depending on if it is whole, broken to pieces, or crushed or ground. Whole or broken glass may be packaged in 1-gallon PE bottles, in 13-inch high by 15.5-inch diameter Fibre-Paks (either loose or inside plastic bags inside the Fibre-Pak), or double -packed in plastic bags, with the outside of the outer bag taped for protection against sharp edges. Glassware such as sample vials may be taped together before packaging. Nonline generated glassware, light bulbs, and fluorescent tubes are usually crushed or ground and placed directly into a prepared 55-gallon drum. Drums were packed according to the usual pre-1972 and post-1972 procedures. Specific information on the box preparation was not available.

Each drum was assayed. Since 1972, the drums were also processed according to inspection and sealing procedures; and, since 1982, vermiculite instead of Oil-Dri was placed on top of the outer sealed PE drum bag. A small number of the drums are lead-lined. Also, Oil-Dri was added to the glass waste if moisture was present.

WASTE STREAM SOURCE

This record represents the [RH-Cert-repack] portion (1%) of the MWIR waste stream, [GLASS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W243, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W243	Handling:	RH	NMVP #:	N/A	Stream Name:	GLASS:RH-Uncert	Inventory Date:	
Local ID:	ID-RFO-440T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3117

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D008, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Analytical Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-238	1.70E-07
U-235	2.47E-06
Pu-242	1.39E-04
Pu-241	5.16E+01
Pu-240	1.94E+00
Pu-239	8.54E+00
Pu-238	3.02E-01
Am-241	6.09E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	1.2	0.0	0.0	0.0	0.0	1.2
Totals	1.2	0.0	0.0	0.0	0.0	1.2

As-Generated Form: Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form: Stored: 1.2 Projected: 0.0 Total: 1.2

WASTE STREAM DESCRIPTION

This waste stream, generated at the Rocky Flats Plant, consists of glass sample vials, bottles, lead-taped sample vials, ion exchange columns, dissolver pots, laboratory glassware such as pyrex flasks and beakers, glovebox windows (glass, plexiglass, leaded glass), and crushed and ground glass. The waste includes limited amounts of other noncombustibles such as metals, and limited amounts of combustible wastes. No sludges should be present although some glass vials may contain limited amounts of free liquids. No explosive, pyrophoric, or corrosive materials should be in the waste.

Drums may contain respirable crushed glass fines or free liquids .

The glass may be packaged with some variation depending on if it is whole, broken to pieces, or crushed or ground. Whole or broken glass may be packaged in 1-gallon PE bottles, in 13-inch high by 15.5-inch diameter Fibre-Paks (either loose or inside plastic bags inside the Fibre-Pak), or double -packed in plastic bags, with the outside of the outer bag taped for protection against sharp edges. Glassware such as sample vials may be taped together before packaging. Nonline generated glassware, light bulbs, and fluorescent tubes are usually crushed or ground and placed directly into a prepared 55-gallon drum. Drums were packed according to the usual pre-1972 and post-1972 procedures. Specific information on the box preparation was not available.

Each drum was assayed. Since 1972, the drums were also processed according to inspection and sealing procedures; and, since 1982, vermiculite instead of Oil-Dri was placed on top of the outer sealed PE drum bag. A small number of the drums are lead-lined. Also, Oil-Dri was added to the glass waste if moisture was present.

WASTE STREAM SOURCE

This record represents the [RH-Uncert] portion (.33%) of the MWIR waste stream, [GLASS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W243, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W243	Handling:	CH	NMVP #:	118	Stream Name:	GLASS:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-440T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3117

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D008, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	1.6	0.0	13.1
Other Inorganic Material:	299.0	51.4	850.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	1.1	0.0	8.7
Plastics:	32.4	3.8	69.9
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Analytical Laboratory Waste

TRUCON CODE

118

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-238	4.26E-08
U-235	6.17E-07
Pu-242	3.49E-05
Pu-241	1.29E+01
Pu-240	4.85E-01
Pu-239	2.14E+00
Pu-238	7.54E-02
Am-241	1.52E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	41.3	0.0	0.0	0.0	0.0	41.3
Totals	41.3	0.0	0.0	0.0	0.0	41.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	36.6	0.0	0.0	0.0	0.0	36.6
SWB used to overpack 55 gallon drums	9.4	0.0	0.0	0.0	0.0	9.4
Totals	46.1	0.0	0.0	0.0	0.0	46.1

As-Generated Form: Stored: 41.3 Projected: 0.0 Total: 41.3

Final Waste Form: Stored: 46.1 Projected: 0.0 Total: 46.1

WASTE STREAM DESCRIPTION

This waste stream, generated at the Rocky Flats Plant, consists of glass sample vials, bottles, lead-taped sample vials, ion exchange columns, dissolver pots, laboratory glassware such as pyrex flasks and beakers, glovebox windows (glass, plexiglass, leaded glass), and crushed and ground glass. The waste includes limited amounts of other noncombustibles such as metals, and limited amounts of combustible wastes. No sludges should be present although some glass vials may contain limited amounts of free liquids. No explosive, pyrophoric, or corrosive materials should be in the waste.

Drums may contain respirable crushed glass fines or free liquids .

The glass may be packaged with some variation depending on if it is whole, broken to pieces, or crushed or ground. Whole or broken glass may be packaged in 1-gallon PE bottles, in 13-inch high by 15.5-inch diameter Fibre-Paks (either loose or inside plastic bags inside the Fibre-Pak), or double -packed in plastic bags, with the outside of the outer bag taped for protection against sharp edges. Glassware such as sample vials may be taped together before packaging. Nonline generated glassware, light bulbs, and fluorescent tubes are usually crushed or ground and placed directly into a prepared 55-gallon drum. Drums were packed according to the usual pre-1972 and post-1972 procedures. Specific information on the box preparation was not available.

Each drum was assayed. Since 1972, the drums were also processed according to inspection and sealing procedures; and, since 1982, vermiculite instead of Oil-Dri was placed on top of the outer sealed PE drum bag. A small number of the drums are lead-lined. Also, Oil-Dri was added to the glass waste if moisture was present.

WASTE STREAM SOURCE

This record represents the [Direct Ship] portion (16.67%) of the MWIR waste stream, [GLASS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W243, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W245	Handling:	CH	NMVP #:	N/A	Stream Name:	UNLEACHED RASHIG RINGS:CH-Uncert
Local ID:	ID-RFO-441T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal

Inventory Date:

Waste Matrix Code: S3117

AS-GENERATED EPA CODES

APP8, F001, D008, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	1.40E-04
Pu-241	5.18E+01
Pu-240	1.95E+00
Pu-239	8.59E+00
Pu-238	3.03E-01
Am-241	2.44E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION

This waste stream, generated at the Rocky Flats Plant, consists of boronated glass rings used to minimize neutron multiplication in liquid storage tanks. Unleached Rashig Rings were used from 1971-79 as a separate stream and then combined with content code 442, Leached Rashig Rings. The rings are about 1.75 inch high and 1.5 inch in diameter, with a 0.25-inch wall thickness. The rings are heat and chemical resistant borosilicate glass with 11.8 - 13.8 weight % B2O3, with an isotopic content of 10B/11B of not less than 0.24. Some of the rings, which had above-discard amounts of plutonium, were leached with nitric acid to recover the plutonium and then rinsed with water and dried. Some of the rings may be contaminated with small amounts of oil.

No sludges or free liquids should be present. No explosive or pyrophoric materials should be in the waste. Trace amounts of nitric acid or organic contaminants may be present.

The rings are triple contained in PE or PVC and placed in a 10-inch high, 15.5-inch diameter Fibre-Pak. Two Fibre-Paks are placed inside a prepared 55-gallon drum according to the standard pre-1972 and post-1972 drum packing procedures. A few of the drums contain broken rashig rings in taped-closed, 4-liter PE bottles with double bags inside the bottles.

Each drum was assayed. Since 1972, the drums were also processed according to inspection and sealing procedures; and, since 1982, vermiculite instead of Oil-Dri was placed on top of the outer sealed PE drum bag. A small number of the drums are lead-lined. Also, Oil-Dri was added to the glass waste if moisture was present.

WASTE STREAM SOURCE

This record represents the [CH-Uncert] portion (.12%) of the MWIR waste stream, [UNLEACHED RASHIG RINGS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W245, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W245	Handling:	RH	NMVP #:	N/A	Stream Name:	UNLEACHED RASHIG RINGS:RH-Cert-repack	Inventory Date:	
Local ID:	ID-RFO-441T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3117

AS-GENERATED EPA CODES

APP8, F001, D008, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	246.2	146.5	309.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	15.8	9.4	24.8
Rubber:	0.0	0.0	0.0
Plastics:	5.5	2.3	9.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

225

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	7.00E-05
Pu-241	2.59E+01
Pu-240	9.74E-01
Pu-239	4.29E+00
Pu-238	1.52E-01
Am-241	1.22E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.3	0.0	0.0	0.0	0.0	1.3
Totals	1.3	0.0	0.0	0.0	0.0	1.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	2.4	0.0	0.0	0.0	0.0	2.4
Totals	2.4	0.0	0.0	0.0	0.0	2.4

As-Generated Form: Stored: 1.3 Projected: 0.0 Total: 1.3

Final Waste Form: Stored: 2.4 Projected: 0.0 Total: 2.4

WASTE STREAM DESCRIPTION

This waste stream, generated at the Rocky Flats Plant, consists of boronated glass rings used to minimize neutron multiplication in liquid storage tanks. Unleached Rashig Rings were used from 1971-79 as a separate stream and then combined with content code 442, Leached Rashig Rings. The rings are about 1.75 inch high and 1.5 inch in diameter, with a 0.25-inch wall thickness. The rings are heat and chemical resistant borosilicate glass with 11.8 - 13.8 weight % B2O3, with an isotopic content of 10B/11B of not less than 0.24. Some of the rings, which had above-discard amounts of plutonium, were leached with nitric acid to recover the plutonium and then rinsed with water and dried. Some of the rings may be contaminated with small amounts of oil.

No sludges or free liquids should be present. No explosive or pyrophoric materials should be in the waste. Trace amounts of nitric acid or organic contaminants may be present.

The rings are triple contained in PE or PVC and placed in a 10-inch high, 15.5-inch diameter Fibre-Pak. Two Fibre-Paks are placed inside a prepared 55-gallon drum according to the standard pre-1972 and post-1972 drum packing procedures. A few of the drums contain broken rashig rings in taped-closed, 4-liter PE bottles with double bags inside the bottles.

Each drum was assayed. Since 1972, the drums were also processed according to inspection and sealing procedures; and, since 1982, vermiculite instead of Oil-Dri was placed on top of the outer sealed PE drum bag. A small number of the drums are lead-lined. Also, Oil-Dri was added to the glass waste if moisture was present.

WASTE STREAM SOURCE

This record represents the [RH-Cert-repack] portion (.8%) of the MWIR waste stream, [UNLEACHED RASHIG RINGS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W245, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W245	Handling:	CH	NMVP #:	N/A	Stream Name:	UNLEACHED RASHIG RINGS:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-441T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3117

AS-GENERATED EPA CODES

APP8, F001, D008, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	313.0	186.2	392.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	20.1	12.0	31.6
Rubber:	0.0	0.0	0.0
Plastics:	7.0	2.9	12.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.3		
Packaging Material Plastic:	33.1		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

225

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	7.00E-05
Pu-241	2.59E+01
Pu-240	9.74E-01
Pu-239	4.29E+00
Pu-238	1.52E-01
Am-241	1.22E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	33.7	0.0	0.0	0.0	0.0	33.7
Totals	33.7	0.0	0.0	0.0	0.0	33.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	30.0	0.0	0.0	0.0	0.0	30.0
SWB used to overpack 55 gallon drums	7.6	0.0	0.0	0.0	0.0	7.6
Totals	37.5	0.0	0.0	0.0	0.0	37.5

As-Generated Form: Stored: 33.7 Projected: 0.0 Total: 33.7

Final Waste Form: Stored: 37.5 Projected: 0.0 Total: 37.5

WASTE STREAM DESCRIPTION

This waste stream, generated at the Rocky Flats Plant, consists of boronated glass rings used to minimize neutron multiplication in liquid storage tanks. Unleached Rashig Rings were used from 1971-79 as a separate stream and then combined with content code 442, Leached Rashig Rings. The rings are about 1.75 inch high and 1.5 inch in diameter, with a 0.25-inch wall thickness. The rings are heat and chemical resistant borosilicate glass with 11.8 - 13.8 weight % B2O3, with an isotopic content of 10B/11B of not less than 0.24. Some of the rings, which had above-discard amounts of plutonium, were leached with nitric acid to recover the plutonium and then rinsed with water and dried. Some of the rings may be contaminated with small amounts of oil.

No sludges or free liquids should be present. No explosive or pyrophoric materials should be in the waste. Trace amounts of nitric acid or organic contaminants may be present.

The rings are triple contained in PE or PVC and placed in a 10-inch high, 15.5-inch diameter Fibre-Pak. Two Fibre-Paks are placed inside a prepared 55-gallon drum according to the standard pre-1972 and post-1972 drum packing procedures. A few of the drums contain broken rashig rings in taped-closed, 4-liter PE bottles with double bags inside the bottles.

Each drum was assayed. Since 1972, the drums were also processed according to inspection and sealing procedures; and, since 1982, vermiculite instead of Oil-Dri was placed on top of the outer sealed PE drum bag. A small number of the drums are lead-lined. Also, Oil-Dri was added to the glass waste if moisture was present.

WASTE STREAM SOURCE

This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [UNLEACHED RASHIG RINGS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W245, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W245	Handling:	CH	NMVP #:	N/A	Stream Name:	UNLEACHED RASHIG RINGS:CH-Cert-repack
Local ID:	ID-RFO-441T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal

Inventory Date:

Waste Matrix Code: S3117

AS-GENERATED EPA CODES

APP8, F001, D008, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	353.0	210.0	443.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	22.7	13.5	35.6
Rubber:	0.0	0.0	0.0
Plastics:	7.9	3.3	13.5
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

225

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	7.00E-05
Pu-241	2.59E+01
Pu-240	9.74E-01
Pu-239	4.29E+00
Pu-238	1.52E-01
Am-241	1.22E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	133.8	0.0	0.0	0.0	0.0	133.8
Totals	133.8	0.0	0.0	0.0	0.0	133.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	133.7	0.0	0.0	0.0	0.0	133.7
Totals	133.7	0.0	0.0	0.0	0.0	133.7

As-Generated Form: Stored: 133.8 Projected: 0.0 Total: 133.8

Final Waste Form: Stored: 133.7 Projected: 0.0 Total: 133.7

WASTE STREAM DESCRIPTION	This waste stream, generated at the Rocky Flats Plant, consists of boronated glass rings used to minimize neutron multiplication in liquid storage tanks. Unleached Rashig Rings were used from 1971-79 as a separate stream and then combined with content code 442, Leached Rashig Rings. The rings are about 1.75 inch high and 1.5 inch in diameter, with a 0.25-inch wall thickness. The rings are heat and chemical resistant borosilicate glass with 11.8 - 13.8 weight % B2O3, with an isotopic content of 10B/11B of not less than 0.24. Some of the rings, which had above-discard amounts of plutonium, were leached with nitric acid to recover the plutonium and then rinsed with water and dried. Some of the rings may be contaminated with small amounts of oil. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in the waste. Trace amounts of nitric acid or organic contaminants may be present. The rings are triple contained in PE or PVC and placed in a 10-inch high, 15.5-inch diameter Fibre-Pak. Two Fibre-Paks are placed inside a prepared 55-gallon drum according to the standard pre-1972 and post-1972 drum packing procedures. A few of the drums contain broken rashig rings in taped-closed, 4-liter PE bottles with double bags inside the bottles. Each drum was assayed. Since 1972, the drums were also processed according to inspection and sealing procedures; and, since 1982, vermiculite instead of Oil-Dri was placed on top of the outer sealed PE drum bag. A small number of the drums are lead-lined. Also, Oil-Dri was added to the glass waste if moisture was present.
WASTE STREAM SOURCE	This record represents the [CH-Cert-repack] portion (79.08%) of the MWIR waste stream, [UNLEACHED RASHIG RINGS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W245, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W247	Handling:	CH	NMVP #:	N/A	Stream Name:	LEACHED RASHIG RINGS:CH-Uncert
Inventory Date:							
Local ID:	ID-RFO-442T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal
Waste Matrix Code:	S3117						

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D028, D008, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	8.23E-07
Pu-242	6.75E-05
Pu-241	2.50E+01
Pu-240	9.39E-01
Pu-239	4.14E+00
Pu-238	1.46E-01
Am-241	1.03E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION

This waste stream, generated at the Rocky Flats Plant, consists of boronated glass rings used to minimize neutron multiplication in liquid storage tanks. Content Code 441, Unleached Rashig Rings, were used from 1971-79 as a separate stream, and then combined with Content Code 442, Leached Rashig Rings. The rings are about 1.75 inch high and 1.5 inch in diameter, with a 0.25-inch wall thickness. The rings are heat and chemical resistant borosilicate glass with 11.8 - 13.8 weight % B2O3, with an isotopic content of 10B/11B of not less than 0.24. Some of the rings, which had above-discard amounts of plutonium, were leached with nitric acid to recover the plutonium and then rinsed with water, and dried. Some of the rings may be contaminated with small amounts of oil.

No sludges or free liquids should be present. No explosive or pyrophoric materials should be in the waste. Trace amounts of nitric acid or organic contaminants may be present.

The rings are triple contained in PE or PVC and placed in a 10-inch high, 15.5-inch diameter Fibre-Pak. Two Fibre-Paks are placed inside a prepared 55-gallon drum according to the standard pre-1972 and post-1972 drum packing procedures. A few of the drums contain broken rashig rings in taped-closed, 4-liter PE bottles with double bags inside the bottles.

Each drum was assayed. Since 1972, the drums were also processed according to inspection and sealing procedures; and, since 1982, vermiculite instead of Oil-Dri was placed on top of the outer sealed PE drum bag. A small number of the drums are lead-lined. Also, Oil-Dri was added to the glass waste if moisture was present.

WASTE STREAM SOURCE

This record represents the [CH-Uncert] portion (.07%) of the MWIR waste stream, [LEACHED RASHIG RINGS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W247, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W247	Handling:	CH	NMVP #:	118	Stream Name:	LEACHED RASHIG RINGS:CH-Cert-repack	Inventory Date:
Local ID:	ID-RFO-442T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code: S3117

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D028, D008, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	197.0	86.3	382.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	23.6	0.0	26.2
Rubber:	0.0	0.0	0.0
Plastics:	10.3	4.4	24.7
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

118, 218

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	4.12E-07
Pu-242	3.38E-05
Pu-241	1.25E+01
Pu-240	4.70E-01
Pu-239	2.07E+00
Pu-238	7.31E-02
Am-241	5.16E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	76.1	0.0	0.0	0.0	0.0	76.1
Drum	97.5	0.0	0.0	0.0	0.0	97.5
Totals	173.6	0.0	0.0	0.0	0.0	173.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	173.7	0.0	0.0	0.0	0.0	173.7
Totals	173.7	0.0	0.0	0.0	0.0	173.7

As-Generated Form: Stored: 173.6 Projected: 0.0 Total: 173.6

Final Waste Form: Stored: 173.7 Projected: 0.0 Total: 173.7

WASTE STREAM DESCRIPTION

This waste stream, generated at the Rocky Flats Plant, consists of boronated glass rings used to minimize neutron multiplication in liquid storage tanks. Content Code 441, Unleached Rashig Rings, were used from 1971-79 as a separate stream, and then combined with Content Code 442, Leached Rashig Rings. The rings are about 1.75 inch high and 1.5 inch in diameter, with a 0.25-inch wall thickness. The rings are heat and chemical resistant borosilicate glass with 11.8 - 13.8 weight % B2O3, with an isotopic content of 10B/11B of not less than 0.24. Some of the rings, which had above-discard amounts of plutonium, were leached with nitric acid to recover the plutonium and then rinsed with water, and dried. Some of the rings may be contaminated with small amounts of oil.

No sludges or free liquids should be present. No explosive or pyrophoric materials should be in the waste. Trace amounts of nitric acid or organic contaminants may be present.

The rings are triple contained in PE or PVC and placed in a 10-inch high, 15.5-inch diameter Fibre-Pak. Two Fibre-Paks are placed inside a prepared 55-gallon drum according to the standard pre-1972 and post-1972 drum packing procedures. A few of the drums contain broken rashig rings in taped-closed, 4-liter PE bottles with double bags inside the bottles.

Each drum was assayed. Since 1972, the drums were also processed according to inspection and sealing procedures; and, since 1982, vermiculite instead of Oil-Dri was placed on top of the outer sealed PE drum bag. A small number of the drums are lead-lined. Also, Oil-Dri was added to the glass waste if moisture was present.

WASTE STREAM SOURCE

This record represents the [CH-Cert-repack] portion (87.07%) of the MWIR waste stream, [LEACHED RASHIG RINGS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W247, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W247	Handling:	RH	NMVP #:	118	Stream Name:	LEACHED RASHIG RINGS:RH-Cert-repack	Inventory Date:	
Local ID:	ID-RFO-442T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3117

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D028, D008, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	137.4	60.2	266.4
Vitrified:	0.0	0.0	0.0
Cellulosics:	16.5	0.0	18.3
Rubber:	0.0	0.0	0.0
Plastics:	7.2	3.0	17.2
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

118, 218

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-235	4.12E-07
Pu-242	3.38E-05
Pu-241	1.25E+01
Pu-240	4.70E-01
Pu-239	2.07E+00
Pu-238	7.31E-02
Am-241	5.16E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.1	0.0	0.0	0.0	0.0	1.1
Totals	1.1	0.0	0.0	0.0	0.0	1.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	2.4	0.0	0.0	0.0	0.0	2.4
Totals	2.4	0.0	0.0	0.0	0.0	2.4

As-Generated Form: Stored: 1.1 Projected: 0.0 Total: 1.1

Final Waste Form: Stored: 2.4 Projected: 0.0 Total: 2.4

WASTE STREAM DESCRIPTION	This waste stream, generated at the Rocky Flats Plant, consists of boronated glass rings used to minimize neutron multiplication in liquid storage tanks. Content Code 441, Unleached Rashig Rings, were used from 1971-79 as a separate stream, and then combined with Content Code 442, Leached Rashig Rings. The rings are about 1.75 inch high and 1.5 inch in diameter, with a 0.25-inch wall thickness. The rings are heat and chemical resistant borosilicate glass with 11.8 - 13.8 weight % B2O3, with *an isotopic content of 10B/11B of not less than 0.24. Some of the rings, which had above-discard amounts of plutonium, were leached with nitric acid to recover the* plutonium and then rinsed with water, and dried. Some of the rings may be contaminated with small amounts of oil. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in the waste. Trace amounts of nitric acid or organic contaminants may be present. The rings are triple contained in PE or PVC and placed in a 10-inch high, 15.5-inch diameter Fibre-Pak. Two Fibre-Paks are placed inside a prepared 55-gallon drum according to the standard pre-1972 and post-1972 drum packing procedures. A few of the drums contain broken rashig rings in taped-closed, 4-liter PE bottles with double bags inside the bottles. Each drum was assayed. Since 1972, the drums were also processed according to inspection and sealing procedures; and, since 1982, vermiculite instead of Oil-Dri was placed on top of the outer sealed PE drum bag. A small number of the drums are lead-lined. Also, Oil-Dri was added to the glass waste if moisture was present.
WASTE STREAM SOURCE	This record represents the [RH-Cert-repack] portion (.49%) of the MWIR waste stream, [LEACHED RASHIG RINGS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W247, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage *data is reported in Section 4 and the generation data is reported in Section 5.* This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W247	Handling:	CH	NMVP #:	118	Stream Name:	LEACHED RASHIG RINGS:Direct Ship	Inventory Date:
Local ID:	ID-RFO-442T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code: S3117

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D028, D008, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	174.2	76.3	337.7
Vitrified:	0.0	0.0	0.0
Cellulosics:	20.9	0.0	23.2
Rubber:	0.0	0.0	0.0
Plastics:	9.1	3.9	21.8
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.7		
Packaging Material Plastic:	33.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

118, 218

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	4.12E-07
Pu-242	3.38E-05
Pu-241	1.25E+01
Pu-240	4.70E-01
Pu-239	2.07E+00
Pu-238	7.31E-02
Am-241	5.16E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	24.6	0.0	0.0	0.0	0.0	24.6
Totals	24.6	0.0	0.0	0.0	0.0	24.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	21.8	0.0	0.0	0.0	0.0	21.8
SWB used to overpack 55 gallon drums	5.7	0.0	0.0	0.0	0.0	5.7
Totals	27.5	0.0	0.0	0.0	0.0	27.5

As-Generated Form: Stored: 24.6 Projected: 0.0 Total: 24.6

Final Waste Form: Stored: 27.5 Projected: 0.0 Total: 27.5

WASTE STREAM DESCRIPTION	This waste stream, generated at the Rocky Flats Plant, consists of boronated glass rings used to minimize neutron multiplication in liquid storage tanks. Content Code 441, Unleached Rashig Rings, were used from 1971-79 as a separate stream, and then combined with Content Code 442, Leached Rashig Rings. The rings are about 1.75 inch high and 1.5 inch in diameter, with a 0.25-inch wall thickness. The rings are heat and chemical resistant borosilicate glass with 11.8 - 13.8 weight % B2O3, with an isotopic content of 10B/11B of not less than 0.24. Some of the rings, which had above-discard amounts of plutonium, were leached with nitric acid to recover the plutonium and then rinsed with water, and dried. Some of the rings may be contaminated with small amounts of oil. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in the waste. Trace amounts of nitric acid or organic contaminants may be present. The rings are triple contained in PE or PVC and placed in a 10-inch high, 15.5-inch diameter Fibre-Pak. Two Fibre-Paks are placed inside a prepared 55-gallon drum according to the standard pre-1972 and post-1972 drum packing procedures. A few of the drums contain broken rashig rings in taped-closed, 4-liter PE bottles with double bags inside the bottles. Each drum was assayed. Since 1972, the drums were also processed according to inspection and sealing procedures; and, since 1982, vermiculite instead of Oil-Dri was placed on top of the outer sealed PE drum bag. A small number of the drums are lead-lined. Also, Oil-Dri was added to the glass waste if moisture was present.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (12.37%) of the MWIR waste stream, [LEACHED RASHIG RINGS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W247, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W249	Handling:	CH	NMVP #:	N/A	Stream Name:	GLASS, FLASKS, SAMPLE VIALS, ETC.:Cert-repack
Local ID:	ID-MDO-810T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Inorganic Non-Metal

Inventory Date:

Waste Matrix Code: S3117

AS-GENERATED EPA CODES

D009

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	1.6	0.0	13.1
Other Inorganic Material:	299.0	51.4	850.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	1.1	0.0	8.7
Plastics:	32.4	3.8	69.9
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Analytical Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	4.28E+00
Pu-238	5.95E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.3	0.0	0.0	0.0	0.0	2.3
Totals	2.3	0.0	0.0	0.0	0.0	2.3

As-Generated Form: Stored: 2.1 Projected: 0.0 Total: 2.1

Final Waste Form: Stored: 2.3 Projected: 0.0 Total: 2.3

WASTE STREAM DESCRIPTION	This waste stream, generated at Mound Laboratory, consists mostly of whole and broken glassware and glass sample vials. The majority of the glass is pyrex. Limited amounts of other noncombustibles, material similar to that in Content Codes 803, 805, 811, and 826 may be present. Even though some of the glassware is broken, fines should not exceed WIPP-WAC limits for repirable or dispersed fines. No inorganic sludges, no explosive, pyrophoric, or corrosive materials should be in the waste. Most of the glassware is broken into pieces about 1 inch in diameter to reduce total volume. The material is packaged into 1 or 2-quart metal cans with lids. Each can is assayed for plutonium content and then placed with up to four other cans into a sleeve bag, which is sealed with tape. Up to five sleeve bags are placed inside a drum. Each drum is lined with a 90-mil drum liner, which is lined with a PE drum bag. Plywood spacers are placed between the rigid liner lid and the drum lid.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (79.91%) of the MWIR waste stream, [GLASS, FLASKS, SAMPLE VIALS, ETC.] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W249, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done. WAste is expected to be non-mixed when cartons of liquid mercury are removed.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W249	Handling:	CH	NMVP #:	N/A	Stream Name:	GLASS, FLASKS, SAMPLE VIALS, ETC.:Direct Ship
Inventory Date:							
Local ID:	ID-MDO-810T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Inorganic Non-Metal
Waste Matrix Code:	S3117						

AS-GENERATED EPA CODES

D009

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	1.2	0.0	9.9
Other Inorganic Material:	226.6	39.0	644.1
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.8	0.0	6.6
Plastics:	24.6	2.9	53.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	165.9		
Packaging Material Plastic:	28.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Analytical Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	4.28E+00
Pu-238	5.95E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	1.1	0.0	0.0	0.0	0.0	1.1

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 1.1 Projected: 0.0 Total: 1.1

WASTE STREAM DESCRIPTION	This waste stream, generated at Mound Laboratory, consists mostly of whole and broken glassware and glass sample vials. The majority of the glass is pyrex. Limited amounts of other noncombustibles, material similar to that in Content Codes 803, 805, 811, and 826 may be present. Even though some of the glassware is broken, fines should not exceed WIPP-WAC limits for repirable or dispersed fines. No inorganic sludges, no explosive, pyrophoric, or corrosive materials should be in the waste. Most of the glassware is broken into pieces about 1 inch in diameter to reduce total volume. The material is packaged into 1 or 2-quart metal cans with lids. Each can is assayed for plutonium content and then placed with up to four other cans into a sleeve bag, which is sealed with tape. Up to five sleeve bags are placed inside a drum. Each drum is lined with a 90-mil drum liner, which is lined with a PE drum bag. Plywood spacers are placed between the rigid liner lid and the drum lid.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [GLASS, FLASKS, SAMPLE VIALS, ETC.] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W249, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done. WAste is expected to be non-mixed when cartons of liquid mercury are removed.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W249	Handling:	CH	NMVP #:	N/A	Stream Name:	GLASS, FLASKS, SAMPLE VIALS, ETC.:Hg	Inventory Date:	
Local ID:	ID-MDO-810T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S3117

AS-GENERATED EPA CODES

D009

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Analytical Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	1.43E+00
Pu-238	1.99E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste stream, generated at Mound Laboratory, consists mostly of whole and broken glassware and glass sample vials. The majority of the glass is pyrex. Limited amounts of other noncombustibles, material similar to that in Content Codes 803, 805, 811, and 826 may be present. Even though some of the glassware is broken, fines should not exceed WIPP-WAC limits for repirable or dispersed fines. No inorganic sludges, no explosive, pyrophoric, or corrosive materials should be in the waste. Most of the glassware is broken into pieces about 1 inch in diameter to reduce total volume. The material is packaged into 1 or 2-quart metal cans with lids. Each can is assayed for plutonium content and then placed with up to four other cans into a sleeve bag, which is sealed with tape. Up to five sleeve bags are placed inside a drum. Each drum is lined with a 90-mil drum liner, which is lined with a PE drum bag. Plywood spacers are placed between the rigid liner lid and the drum lid.
WASTE STREAM SOURCE	This record represents the [Hg] portion (.09%) of the MWIR waste stream, [GLASS, FLASKS, SAMPLE VIALS, ETC.] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk amalg TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W249, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done. WAste is expected to be non-mixed when cartons of liquid mercury are removed.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W250	Handling:	CH	NMVP #:	N/A	Stream Name:	LEADED RUBBER:Direct Ship	Inventory Date:
Local ID:	ID-RFO-123T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code: S5311

AS-GENERATED EPA CODES

APP8, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	226.4	50.1	420.7
Other Inorganic Material:	25.5	4.3	63.9
Vitrified:	0.0	0.0	0.0
Cellulosics:	4.8	1.1	9.0
Rubber:	236.0	52.2	438.7
Plastics:	14.5	3.2	26.9
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.3		
Packaging Material Plastic:	33.1		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

123

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.08E-04
Pu-241	3.99E+01
Pu-240	1.50E+00
Pu-239	6.61E+00
Pu-238	2.33E-01
Am-241	8.02E-04

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	12.7	0.0	0.0	0.0	0.0	12.7
Totals	12.7	0.0	0.0	0.0	0.0	12.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	11.2	0.0	0.0	0.0	0.0	11.2
SWB used to overpack 55 gallon drums	2.8	0.0	0.0	0.0	0.0	2.8
Totals	14.1	0.0	0.0	0.0	0.0	14.1

As-Generated Form: Stored: 12.7 Projected: 0.0 Total: 12.7

Final Waste Form: Stored: 14.1 Projected: 0.0 Total: 14.1

WASTE STREAM DESCRIPTION	TRU leaded rubber waste consists of discarded leaded glovebox gloves and leaded aprons. The IDC packaged and included in 123 is 339.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [LEADED RUBBER] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W250, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W250	Handling:	CH	NMVP #:	N/A	Stream Name:	LEADED RUBBER:Cert-repack	Inventory Date:	
Local ID:	ID-RFO-123T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5311

AS-GENERATED EPA CODES

APP8, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	255.3	56.5	474.5
Other Inorganic Material:	28.8	4.8	72.1
Vitrified:	0.0	0.0	0.0
Cellulosics:	5.4	1.2	10.1
Rubber:	266.2	58.9	494.7
Plastics:	18.3	3.6	30.3
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

123

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	1.08E-04
Pu-241	3.99E+01
Pu-240	1.50E+00
Pu-239	6.61E+00
Pu-238	2.33E-01
Am-241	8.02E-04

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	50.9	0.0	0.0	0.0	0.0	50.9
Totals	50.9	0.0	0.0	0.0	0.0	50.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	51.0	0.0	0.0	0.0	0.0	51.0
Totals	51.0	0.0	0.0	0.0	0.0	51.0

As-Generated Form: Stored: 50.9 Projected: 0.0 Total: 50.9

Final Waste Form: Stored: 51.0 Projected: 0.0 Total: 51.0

WASTE STREAM DESCRIPTION	TRU leaded rubber waste consists of discarded leaded glovebox gloves and leaded aprons. The IDC packaged and included in 123 is 339.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [LEADED RUBBER] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W250, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W252	Handling:	CH	NMVP #:	N/A	Stream Name:	LEADED RUBBER GLOVES AND APRONS:CH-Uncert	Inventory Date:	
Local ID:	ID-RFO-339T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5311

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D028, D022, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	1.18E-02
Pu-241	4.37E+03
Pu-240	1.64E+02
Pu-239	7.25E+02
Pu-238	2.56E+01
Am-241	2.58E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.3	0.0	0.0	0.0	0.0	1.3
Totals	1.3	0.0	0.0	0.0	0.0	1.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 1.3 Projected: 0.0 Total: 1.3

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste comes from the Rocky Flats Plant and consists of leaded rubber gloves and aprons. A limited amount of unleaded gloves, lead bricks, and lead sheeting may also be present. Content Code 463 was replaced by Content Code 339 in 1973. Waste is packaged in standard RFP fashion. Lead linings are present on some drums.
WASTE STREAM SOURCE	This record represents the [CH-Uncert] portion (.79%) of the MWIR waste stream, [LEADED RUBBER GLOVES AND APRONS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W252, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W252	Handling:	RH	NMVP #:	123	Stream Name:	LEADED RUBBER GLOVES AND APRONS:RH-Cert-repack
Inventory Date:							
Local ID:	ID-RFO-339T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible
Waste Matrix Code:	S5311						

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D028, D022, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	13.4	3.6	45.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	2.6	0.0	19.8
Rubber:	286.0	185.5	438.7
Plastics:	8.4	2.3	31.2
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

123, 223

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.18E-04
Pu-241	4.37E+01
Pu-240	1.64E+00
Pu-239	7.25E+00
Pu-238	2.56E-01
Am-241	2.58E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	11.9	0.0	0.0	0.0	0.0	11.9
Totals	11.9	0.0	0.0	0.0	0.0	11.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	17.8	0.0	0.0	0.0	0.0	17.8
Totals	17.8	0.0	0.0	0.0	0.0	17.8

As-Generated Form: Stored: 11.9 Projected: 0.0 Total: 11.9

Final Waste Form: Stored: 17.8 Projected: 0.0 Total: 17.8

WASTE STREAM DESCRIPTION	This waste comes from the Rocky Flats Plant and consists of leaded rubber gloves and aprons. A limited amount of unleaded gloves, lead bricks, and lead sheeting may also be present. Content Code 463 was replaced by Content Code 339 in 1973. Waste is packaged in standard RFP fashion. Lead linings are present on some drums.
WASTE STREAM SOURCE	This record represents the [RH-Cert-repack] portion (7.37%) of the MWIR waste stream, [LEADED RUBBER GLOVES AND APRONS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W252, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W252	Handling:	CH	NMVP #:	123	Stream Name:	LEADED RUBBER GLOVES AND APRONS:CH-Cert-repack	Inventory Date:	
Local ID:	ID-RFO-339T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5311

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D028, D022, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	19.2	5.2	64.5
Vitrified:	0.0	0.0	0.0
Cellulosics:	3.7	0.0	28.4
Rubber:	410.0	266.0	629.0
Plastics:	12.0	3.3	44.8
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

123, 223

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.18E-04
Pu-241	4.37E+01
Pu-240	1.64E+00
Pu-239	7.25E+00
Pu-238	2.56E-01
Am-241	2.58E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	12.7	0.0	0.0	0.0	0.0	12.7
Drum	104.9	0.0	0.0	0.0	0.0	104.9
Totals	117.6	0.0	0.0	0.0	0.0	117.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	117.7	0.0	0.0	0.0	0.0	117.7
Totals	117.7	0.0	0.0	0.0	0.0	117.7

As-Generated Form: Stored: 117.6 Projected: 0.0 Total: 117.6

Final Waste Form: Stored: 117.7 Projected: 0.0 Total: 117.7

WASTE STREAM DESCRIPTION	This waste comes from the Rocky Flats Plant and consists of leaded rubber gloves and aprons. A limited amount of unleaded gloves, lead bricks, and lead sheeting may also be present. Content Code 463 was replaced by Content Code 339 in 1973. Waste is packaged in standard RFP fashion. Lead linings are present on some drums.
WASTE STREAM SOURCE	This record represents the [CH-Cert-repack] portion (73.42%) of the MWIR waste stream, [LEADED RUBBER GLOVES AND APRONS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W252, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W252	Handling:	CH	NMVP #:	123	Stream Name:	LEADED RUBBER GLOVES AND APRONS:CH-Cert
Inventory Date:							
Local ID:	ID-RFO-339T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible
Waste Matrix Code:	S5311						

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D028, D022, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	17.1	4.6	57.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	3.3	0.0	25.2
Rubber:	363.6	235.9	557.7
Plastics:	10.6	2.9	39.7
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.3		
Packaging Material Plastic:	33.1		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

123, 223

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	1.18E-04
Pu-241	4.37E+01
Pu-240	1.64E+00
Pu-239	7.25E+00
Pu-238	2.56E-01
Am-241	2.58E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	29.5	0.0	0.0	0.0	0.0	29.5
Totals	29.5	0.0	0.0	0.0	0.0	29.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	26.2	0.0	0.0	0.0	0.0	26.2
SWB used to overpack 55 gallon drums	6.6	0.0	0.0	0.0	0.0	6.6
Totals	32.8	0.0	0.0	0.0	0.0	32.8

As-Generated Form: Stored: 29.5 Projected: 0.0 Total: 29.5

Final Waste Form: Stored: 32.8 Projected: 0.0 Total: 32.8

WASTE STREAM DESCRIPTION	This waste comes from the Rocky Flats Plant and consists of leaded rubber gloves and aprons. A limited amount of unleaded gloves, lead bricks, and lead sheeting may also be present. Content Code 463 was replaced by Content Code 339 in 1973. Waste is packaged in standard RFP fashion. Lead linings are present on some drums.
WASTE STREAM SOURCE	This record represents the [CH-Direct Ship] portion (18.42%) of the MWIR waste stream, [LEADED RUBBER GLOVES AND APRONS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W252, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W254	Handling:	CH	NMVP #:	N/A	Stream Name:	LEADED RUBBER GLOVES AND APRONS:CH-Uncert
Inventory Date:							
Local ID:	ID-RFO-463T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal
Waste Matrix Code:	S5311						

AS-GENERATED EPA CODES

F002, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	7.07E-03
Pu-241	2.62E+03
Pu-240	9.83E+01
Pu-239	4.33E+02
Pu-238	1.53E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste comes from the Rocky Flats Plan and consists of leaded rubber gloves and aprons. A limited amount of unleaded gloves, lead bricks, and lead sheeting may also be present. Content Code 463 was replaced by Content Code 339 in 1973. Waste is packaged in standard RFP fashion. Lead linings are present on some drums.
WASTE STREAM SOURCE	This record represents the [CH-Uncert] portion (.75%) of the MWIR waste stream, [LEADED RUBBER GLOVES AND APRONS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp].. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W254, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W254	Handling:	RH	NMVP #:	N/A	Stream Name:	LEADED RUBBER GLOVES AND APRONS:RH-Cert-repack	Inventory Date:	
Local ID:	ID-RFO-463T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5311

AS-GENERATED EPA CODES

F002, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	178.1	39.4	330.9
Other Inorganic Material:	20.1	3.3	50.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	3.8	0.8	7.0
Rubber:	185.7	41.1	345.0
Plastics:	11.4	2.5	21.1
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

223

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	7.07E-05
Pu-241	2.62E+01
Pu-240	9.83E-01
Pu-239	4.33E+00
Pu-238	1.53E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	1.2	0.0	0.0	0.0	0.0	1.2
Totals	1.2	0.0	0.0	0.0	0.0	1.2

As-Generated Form: Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form: Stored: 1.2 Projected: 0.0 Total: 1.2

WASTE STREAM DESCRIPTION	This waste comes from the Rocky Flats Plan and consists of leaded rubber gloves and aprons. A limited amount of unleaded gloves, lead bricks, and lead sheeting may also be present. Content Code 463 was replaced by Content Code 339 in 1973. Waste is packaged in standard RFP fashion. Lead linings are present on some drums.
WASTE STREAM SOURCE	This record represents the [RH-Cert-repack] portion (8%) of the MWIR waste stream, [LEADED RUBBER GLOVES AND APRONS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W254, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W254	Handling:	CH	NMVP #:	N/A	Stream Name:	LEADED RUBBER GLOVES AND APRONS:Direct Ship
Local ID:	ID-RFO-463T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible

Inventory Date:

Waste Matrix Code: S5311

AS-GENERATED EPA CODES

F002, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	226.4	50.1	420.7
Other Inorganic Material:	25.5	4.3	63.9
Vitrified:	0.0	0.0	0.0
Cellulosics:	4.8	1.1	9.0
Rubber:	236.0	52.2	438.7
Plastics:	14.5	3.2	26.9
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.3		
Packaging Material Plastic:	33.1		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

223

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	7.07E-05
Pu-241	2.62E+01
Pu-240	9.83E-01
Pu-239	4.33E+00
Pu-238	1.53E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.9	0.0	0.0	0.0	0.0	1.9
Totals	1.9	0.0	0.0	0.0	0.0	1.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.9	0.0	0.0	0.0	0.0	1.9
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	2.3	0.0	0.0	0.0	0.0	2.3

As-Generated Form: Stored: 1.9 Projected: 0.0 Total: 1.9

Final Waste Form: Stored: 2.3 Projected: 0.0 Total: 2.3

WASTE STREAM DESCRIPTION	This waste comes from the Rocky Flats Plan and consists of leaded rubber gloves and aprons. A limited amount of unleaded gloves, lead bricks, and lead sheeting may also be present. Content Code 463 was replaced by Content Code 339 in 1973. Waste is packaged in standard RFP fashion. Lead linings are present on some drums.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [LEADED RUBBER GLOVES AND APRONS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W254, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W254	Handling:	CH	NMVP #:	N/A	Stream Name:	LEADED RUBBER GLOVES AND APRONS:CH-Cert-repack	Inventory Date:	
Local ID:	ID-RFO-463T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5311

AS-GENERATED EPA CODES

F002, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	255.3	56.5	474.5
Other Inorganic Material:	28.8	4.8	72.1
Vitrified:	0.0	0.0	0.0
Cellulosics:	5.4	1.2	10.1
Rubber:	266.2	58.9	494.7
Plastics:	16.3	3.6	30.3
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

223

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	7.07E-05
Pu-241	2.62E+01
Pu-240	9.83E-01
Pu-239	4.33E+00
Pu-238	1.53E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	7.2	0.0	0.0	0.0	0.0	7.2
Totals	7.2	0.0	0.0	0.0	0.0	7.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	7.3	0.0	0.0	0.0	0.0	7.3
Totals	7.3	0.0	0.0	0.0	0.0	7.3

As-Generated Form: Stored: 7.2 Projected: 0.0 Total: 7.2

Final Waste Form: Stored: 7.3 Projected: 0.0 Total: 7.3

WASTE STREAM DESCRIPTION	This waste comes from the Rocky Flats Plan and consists of leaded rubber gloves and aprons. A limited amount of unleaded gloves, lead bricks, and lead sheeting may also be present. Content Code 463 was replaced by Content Code 339 in 1973. Waste is packaged in standard RFP fashion. Lead linings are present on some drums.
WASTE STREAM SOURCE	This record represents the [CH-Cert-repack] portion (71.25%) of the MWIR waste stream, [LEADED RUBBER GLOVES AND APRONS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W254, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W256	Handling:	CH	NMVP #:	N/A	Stream Name:	DRY BOX GLOVES AND O-RINGS:Cert-repack	Inventory Date:	
Local ID:	ID-MDO-802T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Combustible	Waste Matrix Code:	S5311

AS-GENERATED EPA CODES

APP8, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	255.3	56.5	474.5
Other Inorganic Material:	28.8	4.8	72.1
Vitrified:	0.0	0.0	0.0
Cellulosics:	5.4	1.2	10.1
Rubber:	266.2	58.9	494.7
Plastics:	16.3	3.6	30.3
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-240	1.50E+00
Pu-239	7.00E-01
Pu-238	9.84E+01
Am-241	5.35E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	20.6	0.0	0.0	0.0	0.0	20.6
Totals	20.6	0.0	0.0	0.0	0.0	20.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	20.6	0.0	0.0	0.0	0.0	20.6
Totals	20.6	0.0	0.0	0.0	0.0	20.6

As-Generated Form: Stored: 20.6 Projected: 0.0 Total: 20.6

Final Waste Form: Stored: 20.6 Projected: 0.0 Total: 20.6

WASTE STREAM DESCRIPTION	This waste stream is generated at Mound Laboratory and consists of neoprene dry box (glovebox) gloves, neoprene O-rings, and lead-lined gloves. Limited amounts of waste from Mound Content Codes 801, 804, and 812 may be included.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [DRY BOX GLOVES AND O-RINGS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W256, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W256	Handling:	CH	NMVP #:	N/A	Stream Name:	DRY BOX GLOVES AND O-RINGS:Direct Ship
Inventory Date:							
Local ID:	ID-MDO-802T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Combustible
Waste Matrix Code:	S5311						

AS-GENERATED EPA CODES

APP8, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	221.4	49.0	411.4
Other Inorganic Material:	25.0	4.2	62.5
Vitrified:	0.0	0.0	0.0
Cellulosics:	4.7	1.0	8.8
Rubber:	230.8	51.1	428.9
Plastics:	14.1	3.1	26.3
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	150.2		
Packaging Material Plastic:	32.4		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-240	1.50E+00
Pu-239	7.00E-01
Pu-238	9.84E+01
Am-241	5.35E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	5.1	0.0	0.0	0.0	0.0	5.1
Totals	5.1	0.0	0.0	0.0	0.0	5.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.6	0.0	0.0	0.0	0.0	4.6
SWB used to overpack 55 gallon drums	1.4	0.0	0.0	0.0	0.0	1.4
Totals	6.0	0.0	0.0	0.0	0.0	6.0

As-Generated Form: Stored: 5.1 Projected: 0.0 Total: 5.1

Final Waste Form: Stored: 6.0 Projected: 0.0 Total: 6.0

WASTE STREAM DESCRIPTION	This waste stream is generated at Mound Laboratory and consists of neoprene dry box (glovebox) gloves, neoprene O-rings, and lead-lined gloves. Limited amounts of waste from Mound Content Codes 801, 804, and 812 may be included.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [DRY BOX GLOVES AND O-RINGS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W256, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W257	Handling:	CH	NMVP #:	N/A	Stream Name:	SOLIDIFIED FUEL SLUDGE:Uncertifiable	Inventory Date:
Local ID:	ID-CPP-151T	Type:	MTRU	Generator Site:	IN	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code: S5400

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	4.08E-03
Pu-242	2.69E-05
Pu-241	9.95E+00
Pu-240	3.74E-01
Pu-239	1.65E+00
Pu-238	5.82E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste stream was generated at the Idaho Chemical Processing Plant at the INEL, and may include both combustibles and noncombustibles. The waste includes a solidified sludge of acid-dissolved fuel, absorbed into diatomaceous earth. Other materials in the wastes include glass containers, plastics, metal scraps, lead shielding, and lab equipment. The waste is contained in two 30-gallon drums. At least one of the drums may be lead-lined. The sludge is contained glass bottles and sealed inside metal cans. Other materials may include glass containers, plastics, metal, scraps, lead shielding, and miscellaneous laboratory equipment. The surface dose rate is limited to 30 R/hr. The average nuclide content is around 3 grams per package (about 200,000 nCi/g).
WASTE STREAM SOURCE	This record represents the [Uncertifiable] portion (80%) of the MWIR waste stream, [SOLIDIFIED FUEL SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W257, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 6.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W257	Handling:	CH	NMVP #:	N/A	Stream Name:	SOLIDIFIED FUEL SLUDGE:Direct Ship	Inventory Date:	
Local ID:	ID-CPP-151T	Type:	MTRU	Generator Site:	IN	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-235	2.04E-03
Pu-242	1.34E-05
Pu-241	4.97E+00
Pu-240	1.87E-01
Pu-239	8.24E-01
Pu-238	2.91E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION	This waste stream was generated at the Idaho Chemical Processing Plant at the INEL, and may include both combustibles and noncombustibles. The waste includes a solidified sludge of acid-dissolved fuel, absorbed into diatomaceous earth. Other materials in the wastes include glass containers, plastics, metal scraps, lead shielding, and lab equipment. The waste is contained in two 30-gallon drums. At least one of the drums may be lead-lined. The sludge is contained glass bottles and sealed inside metal cans. Other materials may include glass containers, plastics, metal, scraps, lead shielding, and miscellaneous laboratory equipment. The surface dose rate is limited to 30 R/hr. The average nuclide content is around 3 grams per package (about 200,000 nCi/g).
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [SOLIDIFIED FUEL SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W257, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W259	Handling:	CH	NMVP #:	N/A	Stream Name:	ALPHA HOT CELL WASTE:Direct Ship
Local ID:	ID-AEO-104T	Type:	TRU	Generator Site:	AE	Final Waste Form:	Heterogeneous

Inventory Date:

Waste Matrix Code: S5400

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	83.6	0.0	1419.7
Aluminum-base Metal/Alloys:	0.0	0.0	1.4
Other Metals/Alloys:	0.1	0.0	19.7
Other Inorganic Material:	2.1	0.0	20.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	70.3	0.0	160.5
Rubber:	6.3	0.0	14.2
Plastics:	56.4	0.0	129.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	150.0		
Packaging Material Plastic:	32.4		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
U-235	6.09E-05
Pu-240	2.71E-02
Pu-239	2.45E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	8.5	0.0	0.0	0.0	0.0	8.5
Totals	8.5	0.0	0.0	0.0	0.0	8.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	7.7	0.0	0.0	0.0	0.0	7.7
SWB used to overpack 55 gallon drums	2.4	0.0	0.0	0.0	0.0	2.4
Totals	10.1	0.0	0.0	0.0	0.0	10.1

As-Generated Form: Stored: 8.5 Projected: 0.0 Total: 8.5

Final Waste Form: Stored: 10.1 Projected: 0.0 Total: 10.1

WASTE STREAM DESCRIPTION	This waste stream, generated at Argonne National Laboratory-East, contains alpha hot cell waste. Noncombustible and combustible waste are segregated. Combustible wastes include paper, plastic and PVC containers, rubber O-rings and gloves, rags, and Q-tips. Noncombustible wastes include lab equipment, tools, fixtures, glassware, pipe, tubing, fitting, fasteners, firebrick, ferrous and nonferrous metal scraps and parts, and small electric motors. Sodium in the waste is reacted with ethyl alcohol, mixed with pelletized clay, and dried. Nitrates and oxidizing agents are neutralized or reduced, mixed with peletized clay, and dried to ferrous or ferric salts. The average organic content is 5 lb/ft3. The combustible content of some containers exceeds 25 volume percent, including packaging. Fines are within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. Surface contamination and nuclear criticality meet WIPP-WAC limits. Thermal power does not exceed 10 watts per package. Surface dose rates average 5.3 R/hr and are limited to 30 R/hr. The waste is packaged in 17C 30-gallon drums. Individual waste items may be loose, contained in 4-inch diameter by 10-inch high portal cans, or contained in 1-gallon paint cans. Some metal or glass wastes are compacted. Some items may be contained in 7.5-gallon steel buckets and then packged, two buckets per package, in heat-sealed PVC bags. Since 1983, the heat-sealed bags are lined with kraft paper. These buckets of PVC-bagged waste are contained in a 30-gallon drum liner and sealed inside another 20-mil PVC bag in a 30-gallon steel drum. The maximum weight for each drum is 200 lbs, and the maximum dose rate is 30 R/hr.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (14.46%) of the MWIR waste stream, [ALPHA HOT CELL WASTE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W259, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: IN-W259	Handling: CH	NMVP #: N/A	Stream Name: ALPHA HOT CELL WASTE:CH-Uncertifiable		Inventory Date:
Local ID: ID-AEO-104T	Type: TRU	Generator Site: AE	Final Waste Form: Inorganic Non-Metal		Waste Matrix Code: S5400

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	4.06E-04
Pu-240	1.80E-01
Pu-239	1.63E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bin	14.0	0.0	0.0	0.0	0.0	14.0
Drum	2.3	0.0	0.0	0.0	0.0	2.3
Totals	16.3	0.0	0.0	0.0	0.0	16.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.5	0.0	0.0	0.0	0.0	2.5
Totals	2.5	0.0	0.0	0.0	0.0	2.5

As-Generated Form: Stored: 16.3 Projected: 0.0 Total: 16.3

Final Waste Form: Stored: 2.5 Projected: 0.0 Total: 2.5

WASTE STREAM DESCRIPTION	This waste stream, generated at Argonne National Laboratory-East, contains alpha hot cell waste. Noncombustible and combustible waste are segregated. Combustible wastes include paper, plastic and PVC containers, rubber O-rings and gloves, rags, and Q-tips. Noncombustible wastes include lab equipment, tools, fixtures, glassware, pipe, tubing, fitting, fasteners, firebrick, ferrous and nonferrous metal scraps and parts, and small electric motors. Sodium in the waste is reacted with ethyl alcohol, mixed with pelletized clay, and dried. Nitrates and oxidizing agents are neutralized or reduced, mixed with peletized clay, and dried to ferrous or ferric salts. The average organic content is 5 lb/ft3. The combustible content of some containers exceeds 25 volume percent, including packaging. Fines are within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. Surface contamination and nuclear criticality meet WIPP-WAC limits. Thermal power does not exceed 10 watts per package. Surface dose rates average 5.3 R/hr and are limited to 30 R/hr. The waste is packaged in 17C 30-gallon drums. Individual waste items may be loose, contained in 4-inch diameter by 10-inch high portal cans, or contained in 1-gallon paint cans. Some metal or glass wastes are compacted. Some items may be contained in 7.5-gallon steel buckets and then packged, two buckets per package, in heat-sealed PVC bags. Since 1983, the heat-sealed bags are lined with kraft paper. These buckets of PVC-bagged waste are contained in a 30-gallon drum liner and sealed inside another 20-mil PVC bag in a 30-gallon steel drum. The maximum weight for each drum is 200 lbs, and the maximum dose rate is 30 R/hr.
WASTE STREAM SOURCE	This record represents the [CH-Uncertifiable] portion (27.72%) of the MWIR waste stream, [ALPHA HOT CELL WASTE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W259, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W259	Handling:	RH	NMVP #:	N/A	Stream Name:	ALPHA HOT CELL WASTE:RH-Uncertifiable	Inventory Date:	
Local ID:	ID-AEO-104T	Type:	TRU	Generator Site:	AE	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	4.61E-04
Pu-240	2.05E-01
Pu-239	1.85E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bin	3.5	0.0	0.0	0.0	0.0	3.5
Drum	30.5	0.0	0.0	0.0	0.0	30.5
Totals	34.0	0.0	0.0	0.0	0.0	34.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	7.1	0.0	0.0	0.0	0.0	7.1
Totals	7.1	0.0	0.0	0.0	0.0	7.1

As-Generated Form: Stored: 34.0 Projected: 0.0 Total: 34.0

Final Waste Form: Stored: 7.1 Projected: 0.0 Total: 7.1

WASTE STREAM DESCRIPTION	This waste stream, generated at Argonne National Laboratory-East, contains alpha hot cell waste. Noncombustible and combustible waste are segregated. Combustible wastes include paper, plastic and PVC containers, rubber O-rings and gloves, rags, and Q-tips. Noncombustible wastes include lab equipment, tools, fixtures, glassware, pipe, tubing, fitting, fasteners, firebrick, ferrous and nonferrous metal scraps and parts, and small electric motors. Sodium in the waste is reacted with ethyl alcohol, mixed with pelletized clay, and dried. Nitrates and oxidizing agents are neutralized or reduced, mixed with peletized clay, and dried to ferrous or ferric salts. The average organic content is 5 lb/ft3. The combustible content of some containers exceeds 25 volume percent, including packaging. Fines are within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. Surface contamination and nuclear criticality meet WIPP-WAC limits. Thermal power does not exceed 10 watts per package. Surface dose rates average 5.3 R/hr and are limited to 30 R/hr. The waste is packaged in 17C 30-gallon drums. Individual waste items may be loose, contained in 4-inch diameter by 10-inch high portal cans, or contained in 1-gallon paint cans. Some metal or glass wastes are compacted. Some items may be contained in 7.5-gallon steel buckets and then packged, two buckets per package, in heat-sealed PVC bags. Since 1983, the heat-sealed bags are lined with kraft paper. These buckets of PVC-bagged waste are contained in a 30-gallon drum liner and sealed inside another 20-mil PVC bag in a 30-gallon steel drum. The maximum weight for each drum is 200 lbs, and the maximum dose rate is 30 R/hr.
WASTE STREAM SOURCE	This record represents the [RH-Uncertifiable] portion (57.82%) of the MWIR waste stream, [ALPHA HOT CELL WASTE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W259, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W260	Handling:	CH	NMVP #:	N/A	Stream Name:	SOLID BINARY SCRAP POWDER, ETC.:CH-Uncertifiable	Inventory Date:	
Local ID:	ID-BTO-040T	Type:	MTRU	Generator Site:	BT	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5112

AS-GENERATED EPA CODES

APP8, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	15.1	0.0	0.0	0.0	0.0	15.1
Totals	15.1	0.0	0.0	0.0	0.0	15.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 15.1 Projected: 0.0 Total: 15.1

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste stream, generated at Bettis Atomic Power Laboratory, contains solid binary scrap as powder, pellets, or rods. The material is made of ceramic based UO2 and ThO2. Some "kilorods" or fuel rods constructed of fuel pellets within hollow zirconium tubes are also included. The organic content (excluding plywood spacers) is probably less than 1 lb/ft3. Combustibles, including packaging, may exceed 25 volume percent. No sludges or free liquids should be present. No explosive or pyrophoric material should be in this waste. Trace amounts of nitric acid contamination may be present. Binary scrap powder and pellets are packaged in tin plated steel cans. The sizes of these cans are 3-1/4 inch in diameter and 7 inches high or 4-3/8 inches in diameter and 24 inches high. Each can is wrapped in plastic. Three cans are placed in each drum. Kilorods are placed in plastic lined 5-inch diameter pipes placed in either 55- or 100-gallon drums. Between 18-20 rods are placed in each 100-gallon drum and 10-11 rods are placed in each 55-gallon drum. The drums which contain kilorods have 3/4- to 1-inch thick lead shielding. Fissile content for the drums was determined by weight difference calculations, chemical analysis, assay gauge, or by individual fuel rod values.
WASTE STREAM SOURCE	This record represents the [CH-Uncertifiable] portion (40.63%) of the MWIR waste stream, [SOLID BINARY SCRAP POWDER, ETC.] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W260, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W260	Handling:	CH	NMVP #:	N/A	Stream Name:	SOLID BINARY SCRAP POWDER: RH-Direct Ship	Inventory Date:	
Local ID:	ID-BTO-040T	Type:	MTRU	Generator Site:	BT	Final Waste Form:	Lead/Cadmium Metal Waste	Waste Matrix Code:	S5112

AS-GENERATED EPA CODES

APP8, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	212.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	7.2	0.0	0.0	0.0	0.0	7.2
Totals	7.2	0.0	0.0	0.0	0.0	7.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	6.4	0.0	0.0	0.0	0.0	6.4
SWB used to overpack 55 gallon drums	1.9	0.0	0.0	0.0	0.0	1.9
Totals	8.3	0.0	0.0	0.0	0.0	8.3

As-Generated Form: Stored: 7.2 Projected: 0.0 Total: 7.2

Final Waste Form: Stored: 8.3 Projected: 0.0 Total: 8.3

WASTE STREAM DESCRIPTION	This waste stream, generated at Bettis Atomic Power Laboratory, contains solid binary scrap as powder, pellets, or rods. The material is made of ceramic based UO2 and ThO2. Some "kilorods" or fuel rods constructed of fuel pellets within hollow zirconium tubes are also included. The organic content (excluding plywood spacers) is probably less than 1 lb/ft3. Combustibles, including packaging, may exceed 25 volume percent. No sludges or free liquids should be present. No explosive or pyrophoric material should be in this waste. Trace amounts of nitric acid contamination may be present. Binary scrap powder and pellets are packaged in tin plated steel cans. The sizes of these cans are 3-1/4 inch in diameter and 7 inches high or 4-3/8 inches in diameter and 24 inches high. Each can is wrapped in plastic. Three cans are placed in each drum. Kilorods are placed in plastic lined 5-inch diameter pipes placed in either 55- or 100-gallon drums. Between 18-20 rods are placed in each 100-gallon drum and 10-11 rods are placed in each 55-gallon drum. The drums which contain kilorods have 3/4- to 1-inch thick lead shielding. Fissile content for the drums was determined by weight difference calculations, chemical analysis, assay gauge, or by individual fuel rod values.
WASTE STREAM SOURCE	This record represents the [RH-Direct Ship] portion (20%) of the MWIR waste stream, [SOLID BINARY SCRAP POWDER, ETC.] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W260, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W260	Handling:	RH	NMVP #:	N/A	Stream Name:	SOLID BINARY SCRAP POWDER, ETC.:RH-Uncertifiable	Inventory Date:	
Local ID:	ID-BTO-040T	Type:	MTRU	Generator Site:	BT	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5112

AS-GENERATED EPA CODES

APP8, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	6.1	0.0	0.0	0.0	0.0	6.1
Totals	6.1	0.0	0.0	0.0	0.0	6.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	1.2	0.0	0.0	0.0	0.0	1.2
Totals	1.2	0.0	0.0	0.0	0.0	1.2

As-Generated Form: Stored: 6.1 Projected: 0.0 Total: 6.1

Final Waste Form: Stored: 1.2 Projected: 0.0 Total: 1.2

WASTE STREAM DESCRIPTION	This waste stream, generated at Bettis Atomic Power Laboratory, contains solid binary scrap as powder, pellets, or rods. The material is made of ceramic based UO2 and ThO2. Some "kilorods" or fuel rods constructed of fuel pellets within hollow zirconium tubes are also included. The organic content (excluding plywood spacers) is probably less than 1 lb/ft3. Combustibles, including packaging, may exceed 25 volume percent. No sludges or free liquids should be present. No explosive or pyrophoric material should be in this waste. Trace amounts of nitric acid contamination may be present. Binary scrap powder and pellets are packaged in tin plated steel cans. The sizes of these cans are 3-1/4 inch in diameter and 7 inches high or 4-3/8 inches in diameter and 24 inches high. Each can is wrapped in plastic. Three cans are placed in each drum. Kilorods are placed in plastic lined 5-inch diameter pipes placed in either 55- or 100-gallon drums. Between 18-20 rods are placed in each 100-gallon drum and 10-11 rods are placed in each 55-gallon drum. The drums which contain kilorods have 3/4- to 1-inch thick lead shielding. Fissile content for the drums was determined by weight difference calculations, chemical analysis, assay gauge, or by individual fuel rod values.
WASTE STREAM SOURCE	This record represents the [RH-Uncertifiable] portion (17.14%) of the MWIR waste stream, [SOLID BINARY SCRAP POWDER, ETC.] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W260, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W260	Handling:	RH	NMVP #:	N/A	Stream Name:	SOLID BINARY SCRAP POWDER, ETC.:RH-Cert-repack	Inventory Date:	
Local ID:	ID-BTO-040T	Type:	MTRU	Generator Site:	BT	Final Waste Form:	Lead/Cadmium Metal Waste	Waste Matrix Code:	S5112

AS-GENERATED EPA CODES

APP8, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	3.6	0.0	0.0	0.0	0.0	3.6
Totals	3.6	0.0	0.0	0.0	0.0	3.6

As-Generated Form: Stored: 2.1 Projected: 0.0 Total: 2.1

Final Waste Form: Stored: 3.6 Projected: 0.0 Total: 3.6

WASTE STREAM DESCRIPTION	This waste stream, generated at Bettis Atomic Power Laboratory, contains solid binary scrap as powder, pellets, or rods. The material is made of ceramic based UO2 and ThO2. Some "kilorods" or fuel rods constructed of fuel pellets within hollow zirconium tubes are also included. The organic content (excluding plywood spacers) is probably less than 1 lb/ft3. Combustibles, including packaging, may exceed 25 volume percent. No sludges or free liquids should be present. No explosive or pyrophoric material should be in this waste. Trace amounts of nitric acid contamination may be present. Binary scrap powder and pellets are packaged in tin plated steel cans. The sizes of these cans are 3-1/4 inch in diameter and 7 inches high or 4-3/8 inches in diameter and 24 inches high. Each can is wrapped in plastic. Three cans are placed in each drum. Kilorods are placed in plastic lined 5-inch diameter pipes placed in either 55- or 100-gallon drums. Between 18-20 rods are placed in each 100-gallon drum and 10-11 rods are placed in each 55-gallon drum. The drums which contain kilorods have 3/4- to 1-inch thick lead shielding. Fissile content for the drums was determined by weight difference calculations, chemical analysis, assay gauge, or by individual fuel rod values.
WASTE STREAM SOURCE	This record represents the [RH-Cert-repack] portion (5.71%) of the MWIR waste stream, [SOLID BINARY SCRAP POWDER, ETC.] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W260, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W260	Handling:	CH	NMVP #:	N/A	Stream Name:	SOLID BINARY SCRAP POWDER, ETC.:CH-Cert-repack	Inventory Date:	
Local ID:	ID-BTO-040T	Type:	MTRU	Generator Site:	BT	Final Waste Form:	Lead/Cadmium Metal Waste	Waste Matrix Code:	S5112

AS-GENERATED EPA CODES

APP8, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	5.9	0.0	0.0	0.0	0.0	5.9
Totals	5.9	0.0	0.0	0.0	0.0	5.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	6.0	0.0	0.0	0.0	0.0	6.0
Totals	6.0	0.0	0.0	0.0	0.0	6.0

As-Generated Form: Stored: 5.9 Projected: 0.0 Total: 5.9

Final Waste Form: Stored: 6.0 Projected: 0.0 Total: 6.0

WASTE STREAM DESCRIPTION	This waste stream, generated at Bettis Atomic Power Laboratory, contains solid binary scrap as powder, pellets, or rods. The material is made of ceramic based UO2 and ThO2. Some "kilorods" or fuel rods constructed of fuel pellets within hollow zirconium tubes are also included. The organic content (excluding plywood spacers) is probably less than 1 lb/ft3. Combustibles, including packaging, may exceed 25 volume percent. No sludges or free liquids should be present. No explosive or pyrophoric material should be in this waste. Trace amounts of nitric acid contamination may be present. Binary scrap powder and pellets are packaged in tin plated steel cans. The sizes of these cans are 3-1/4 inch in diameter and 7 inches high or 4-3/8 inches in diameter and 24 inches high. Each can is wrapped in plastic. Three cans are placed in each drum. Kilorods are placed in plastic lined 5-inch diameter pipes placed in either 55- or 100-gallon drums. Between 18-20 rods are placed in each 100-gallon drum and 10-11 rods are placed in each 55-gallon drum. The drums which contain kilorods have 3/4- to 1-inch thick lead shielding. Fissile content for the drums was determined by weight difference calculations, chemical analysis, assay gauge, or by individual fuel rod values.
WASTE STREAM SOURCE	This record represents the [CH-Cert-repack] portion (16.52%) of the MWIR waste stream, [SOLID BINARY SCRAP POWDER, ETC.] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W260, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W263	Handling:	CH	NMVP #:	N/A	Stream Name:	CONTAMINATED SOIL	Inventory Date:
Local ID:	ID-MDO-842T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Solidified Inorganics	Waste Matrix Code: S4100

AS-GENERATED EPA CODES

D011, D010, D009, D008, D007, D006, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.1	0.0	0.1
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	6.4	4.6	33.9
Vitrified:	0.0	0.0	0.0
Cellulosics:	19.0	0.0	19.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	613.0	457.4	671.5
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-242	9.44E-08
Pu-241	9.87E-03
Pu-240	1.08E-04
Pu-239	6.79E-02
Pu-238	1.46E+00
Pu-236	1.26E-05

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	38.0	0.0	0.0	0.0	0.0	38.0
Totals	38.0	0.0	0.0	0.0	0.0	38.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	14.4	0.0	0.0	0.0	0.0	14.4
Totals	14.4	0.0	0.0	0.0	0.0	14.4

As-Generated Form: Stored: 38.0 Projected: 0.0 Total: 38.0

Final Waste Form: Stored: 14.4 Projected: 0.0 Total: 14.4

WASTE STREAM DESCRIPTION	This waste, generated at Mound Laboratories, consists of soil, including small rocks and pebbles, generated from cleanup of a leak. All soil waste was dry when packaged. A few waste boxes also include picks, shovels, metal cans, rubber gloves, booties, respirators, plastic, and possibly an air hammer and chisel. Soils waste was packaged in small, plastic lined plywood boxes (42 x 20 x 39 inch) other waste was then placed on top of the soil before the box was sealed. Four of the small boxes were then packaged in a standard larger waste box (4 x 4 x 7 feet) lined with fiberglass-reinforced polyester. Assay was performed using radiochemical analysis on core samples taken from the contaminated area.
WASTE STREAM SOURCE	This waste stream was generated at Plutonium Processing - Waste Disposal Area: Plutonium Processing.. The generating process is: Cleanup of a leak.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W265	Handling:	CH	NMVP #:	121	Stream Name:	BLACKTOP, CONCRETE, DIRT, AND SAND:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-374T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5420

AS-GENERATED EPA CODES

APP8, F004, F003, F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	387.3	7.5	1249.7
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	10.4
Rubber:	0.0	0.0	0.0
Plastics:	20.8	10.4	20.8
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	42.5	8.3	124.9
Packaging Material Steel:	150.3		
Packaging Material Plastic:	32.3		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

121

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	4.98E-07
Pu-242	1.67E-05
Pu-241	6.19E+00
Pu-240	2.33E-01
Pu-239	1.02E+00
Pu-238	3.62E-02
Am-241	9.64E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	6.8	0.0	0.0	0.0	0.0	6.8
Totals	6.8	0.0	0.0	0.0	0.0	6.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	6.0	0.0	0.0	0.0	0.0	6.0
SWB used to overpack 55 gallon drums	1.9	0.0	0.0	0.0	0.0	1.9
Totals	7.9	0.0	0.0	0.0	0.0	7.9

As-Generated Form: Stored: 6.8 Projected: 0.0 Total: 6.8

Final Waste Form: Stored: 7.9 Projected: 0.0 Total: 7.9

WASTE STREAM DESCRIPTION	This waste contains blacktop, concrete, reinforced concrete, cinderblocks, bricks, dirt, and sand. Limited amounts of waste may be damp. A limited amount may contain combustibles such as coveralls and gloves. The waste is generated from cleanup of spills and leaks, process changes, maintenance, and D&D operations. Portland cement is added to containers that contain wet or damp waste. Waste is packaged in standard RFP fasion in drums and boxes. Sometimes the waste is bagged before being placed in the containers.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (12.84%) of the MWIR waste stream, [BLACKTOP, CONCRETE, DIRT, AND SAND] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W265, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W265	Handling:	CH	NMVP #:	N/A	Stream Name:	BLACKTOP, CONCRETE, DIRT, AND SAND:Uncertifiable	Inventory Date:	
Local ID:	ID-RFO-374T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5420

AS-GENERATED EPA CODES

APP8, F004, F003, F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-235	4.98E-05
Pu-242	1.67E-03
Pu-241	6.19E+02
Pu-240	2.33E+01
Pu-239	1.02E+02
Pu-238	3.62E+00
Am-241	9.64E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	19.0	0.0	0.0	0.0	0.0	19.0
Drum	27.3	0.0	0.0	0.0	0.0	27.3
Totals	46.4	0.0	0.0	0.0	0.0	46.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated Form: Stored: 46.4 Projected: 0.0 Total: 46.4

Final Waste Form: Stored: 0.6 Projected: 0.0 Total: 0.6

WASTE STREAM DESCRIPTION	This waste contains blacktop, concrete, reinforced concrete, cinderblocks, bricks, dirt, and sand. Limited amounts of waste may be damp. A limited amount may contain combustibles such as coveralls and gloves. The waste is generated from cleanup of spills and leaks, process changes, maintenance, and D&D operations. Portland cement is added to containers that contain wet or damp waste. Waste is packaged in standard RFP fasion in drums and boxes. Sometimes the waste is bagged before being placed in the containers.
WASTE STREAM SOURCE	This record represents the [Uncertifiable] portion (67.16%) of the MWIR waste stream, [BLACKTOP, CONCRETE, DIRT, AND SAND] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W265, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W267	Handling:	CH	NMVP #:	N/A	Stream Name:	GRIT:Direct Ship	Inventory Date:
Local ID:	ID-RFO-372TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code: S3112

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	165.9		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	7.02E-04
Pu-241	2.60E+02
Pu-240	9.76E+00
Pu-239	4.30E+01
Pu-238	1.52E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	1.1	0.0	0.0	0.0	0.0	1.1

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 1.1 Projected: 0.0 Total: 1.1

WASTE STREAM DESCRIPTION	This waste stream, generated at the Rocky Flats Plant, consists of grit such as aluminum oxide and iron fines and pellets used in grit-blasting operations and spent silica gel desiccant. The only organic material is the packaging, which averages about 5 lb/ft3, excluding the drum liner. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. The material is contained in 55-gallon drums. Inside the drums, the grit may be contained in PVC or PE bags in Vollrath stainless steel cans, or in 1-gallon PE bottles inside PVC and PE bags. Silica gel is placed directly into the prepared drums. Drums were prepared and inspected according to pre- and post-1972 procedures.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [GRIT] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W267, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W267	Handling:	CH	NMVP #:	N/A	Stream Name:	GRIT:Uncertifiable
Local ID:	ID-RFO-372TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal

Inventory Date:

Waste Matrix Code: S3112

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.40E-03
Pu-241	5.19E+02
Pu-240	1.95E+01
Pu-239	8.60E+01
Pu-238	3.04E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	2.3	0.0	0.0	0.0	0.0	2.3
Totals	2.3	0.0	0.0	0.0	0.0	2.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.2	0.0	0.0	0.0	0.0	1.2
Totals	1.2	0.0	0.0	0.0	0.0	1.2

As-Generated Form: Stored: 2.3 Projected: 0.0 Total: 2.3

Final Waste Form: Stored: 1.2 Projected: 0.0 Total: 1.2

WASTE STREAM DESCRIPTION	This waste stream, generated at the Rocky Flats Plant, consists of grit such as aluminum oxide and iron fines and pellets used in grit-blasting operations and spent silica gel desiccant. The only organic material is the packaging, which averages about 5 lb/ft3, excluding the drum liner. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. The material is contained in 55-gallon drums. Inside the drums, the grit may be contained in PVC or PE bags in Vollrath stainless steel cans, or in 1-gallon PE bottles inside PVC and PE bags. Silica gel is placed directly into the prepared drums. Drums were prepared and inspected according to pre- and post-1972 procedures.
WASTE STREAM SOURCE	This record represents the [Uncertifiable] portion (80%) of the MWIR waste stream, [GRIT] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W267, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W269	Handling:	CH	NMVP #:	N/A	Stream Name:	LABORATORY WASTE:Direct Ship
Local ID:	ID-INL-150T	Type:	MTRU	Generator Site:	IN	Final Waste Form:	Combustible

Inventory Date:

Waste Matrix Code: S5440

AS-GENERATED EPA CODES

D008, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	150.2		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-238	6.25E-05
U-235	1.02E-02
Pu-242	2.07E-05
Pu-241	2.23E-01
Pu-240	6.07E+00
Pu-239	5.86E+01
Pu-238	6.67E+00
Am-241	5.71E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	5.1	0.0	0.0	0.0	0.0	5.1
Totals	5.1	0.0	0.0	0.0	0.0	5.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.6	0.0	0.0	0.0	0.0	4.6
SWB used to overpack 55 gallon drums	1.4	0.0	0.0	0.0	0.0	1.4
Totals	6.0	0.0	0.0	0.0	0.0	6.0

As-Generated Form: Stored: 5.1 Projected: 0.0 Total: 5.1

Final Waste Form: Stored: 6.0 Projected: 0.0 Total: 6.0

WASTE STREAM DESCRIPTION	This waste stream, generated at Idaho National Engineering Laboratory, contains laboratory waste form ANL-W including fluxwire, fission counters, HEDL samples, analytical samples dissolved and absorbed on Oil-Dri, glassware, vials, miscellaneous waste from gloveboxes, dissolved pellets absorbed on Oil-Dri, enriched and normal U3O8 pellets, aluminum foil and capsules, TREAT waste capsules, chlorinated ion exchange resins, Pu sources, and irradiated Ge caps. Lab waste from ICPP includes kimwipes, trash, glassware, dissolved samples absorbed in Oil-Dri, analytical samples, gloves, etc. The organic content is usually less than 14 lb/ft3. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. Absorbents were added if moisture was detected in any wastes. No explosive or pyrophoric materials should be in this waste. Depending on when the wastes were packaged, the individual waste items may be contained in plastic, metal, or glass containers. Some of the containers are 2R containers. The containers are placed inside 55-gallon drums lined with two plastic liners. Some of the containers are wrapped in plastic, and others are placed directly into the drums. Oil-Dri absorbent is added if moisture is present.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [LABORATORY WASTE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W269, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W269	Handling:	CH	NMVP #:	N/A	Stream Name:	LABORATORY WASTE:Cert-repack	Inventory Date:	
Local ID:	ID-INL-150T	Type:	MTRU	Generator Site:	IN	Final Waste Form:	Combustible	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

D008, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-238	6.25E-05
U-235	1.02E-02
Pu-242	2.07E-05
Pu-241	2.23E-01
Pu-240	6.07E+00
Pu-239	5.86E+01
Pu-238	6.67E+00
Am-241	5.71E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	17.0	0.0	0.0	0.0	0.0	17.0
RH Insert	3.8	0.0	0.0	0.0	0.0	3.8
Totals	20.8	0.0	0.0	0.0	0.0	20.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	20.8	0.0	0.0	0.0	0.0	20.8
Totals	20.8	0.0	0.0	0.0	0.0	20.8

As-Generated Form: Stored: 20.8 Projected: 0.0 Total: 20.8

Final Waste Form: Stored: 20.8 Projected: 0.0 Total: 20.8

WASTE STREAM DESCRIPTION	This waste stream, generated at Idaho National Engineering Laboratory, contains laboratory waste form ANL-W including fluxwire, fission counters, HEDL samples, analytical samples dissolved and absorbed on Oil-Dri, glassware, vials, miscellaneous waste from gloveboxes, dissolved pellets absorbed on Oil-Dri, enriched and normal U3O8 pellets, aluminum foil and capsules, TREAT waste capsules, chlorinated ion exchange resins, Pu sources, and irradiated Ge caps. Lab waste from ICPP includes kimwipes, trash, glassware, dissolved samples absorbed in Oil-Dri, analytical samples, gloves, etc. The organic content is usually less than 14 lb/ft3. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. Absorbents were added if moisture was detected in any wastes. No explosive or pyrophoric materials should be in this waste. Depending on when the wastes were packaged, the individual waste items may be contained in plastic, metal, or glass containers. Some of the containers are 2R containers. The containers are placed inside 55-gallon drums lined with two plastic liners. Some of the containers are wrapped in plastic, and others are placed directly into the drums. Oil-Dri absorbent is added if moisture is present.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [LABORATORY WASTE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W269, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W271	Handling:	CH	NMVP #:	N/A	Stream Name:	CONTAMINATED MERCURY OR GRAPHITE CRUCIBL:Direct Ship
Inventory Date:							
Local ID:	ID-MDO-814T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Graphite
Waste Matrix Code:	S3110						

AS-GENERATED EPA CODES

D009

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	291.9	1.5	536.8
Aluminum-base Metal/Alloys:	12.3	12.3	26.8
Other Metals/Alloys:	6.5	6.5	32.7
Other Inorganic Material:	22.3	0.0	570.6
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	3.4	0.0	3.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	174.1		
Packaging Material Plastic:	26.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-240	3.75E+01
Pu-239	1.62E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.9 Projected: 0.0 Total: 0.9

WASTE STREAM DESCRIPTION	This waste stream was generated at Mound Laboratory. The waste consists of graphite crucibles and electrodes. Cartons of mercury may be included in some waste drums, but they should be easily removeable and are not included in the waste constituents. The Waste matrix composition listed is taken from item description code (IDC) 300, a similar waste type. Organic content should be less than 14 lb/ft3. The waste is noncombustible, but if pulverized and well mixed it will burn. Fines should not exceed WIPP-WAC limits. No sludges or free liquids should be present. The Oil-Dri should meet WIPP immobilization standards. No explosive or pyrophoric materials should be in this waste. The material is contained in 55-gallon drums. Inside the drums, graphite waste is packaged in 1-gallon plastic coated cardboard cartons and/or 1/2-gallon metal cans, contained inside plastic bags. Each metal can may be sealed inside another roll-seam can. The drums are lined with 90-mil drum liners.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (99.9%) of the MWIR waste stream, [CONTAMINATED MERCURY OR GRAPHITE CRUCIBL] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W271, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done. Waste expected to be non-mixed after cartons of liquid mercury are removed.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W271	Handling:	CH	NMVP #:	N/A	Stream Name:	CONTAMINATED MERCURY OR GRAPHITE CRUCIBL:Mercury	Inventory Date:	
Local ID:	ID-MDO-814T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S3110

AS-GENERATED EPA CODES

D009

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-240	1.25E+01
Pu-239	5.41E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste stream was generated at Mound Laboratory. The waste consists of graphite crucibles and electrodes. Cartons of mercury may be included in some waste drums, but they should be easily removeable and are not included in the waste constituents. The Waste matrix composition listed is taken from item description code (IDC) 300, a similar waste type. Organic content should be less than 14 lb/ft3. The waste is noncombustible, but if pulverized and well mixed it will burn. Fines should not exceed WIPP-WAC limits. No sludges or free liquids should be present. The Oil-Dri should meet WIPP immobilization standards. No explosive or pyrophoric materials should be in this waste. The material is contained in 55-gallon drums. Inside the drums, graphite waste is packaged in 1-gallon plastic coated cardboard cartons and/or 1/2-gallon metal cans, contained inside plastic bags. Each metal can may be sealed inside another roll-seam can. The drums are lined with 90-mil drum liners.
WASTE STREAM SOURCE	This record represents the [Mercury] portion (.1%) of the MWIR waste stream, [CONTAMINATED MERCURY OR GRAPHITE CRUCIBL] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk amalg TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W271, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done. Waste expected to be non-mixed after cartons of liquid mercury are removed.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W272	Handling:	CH	NMVP #:	N/A	Stream Name:	COARSE GRAPHITE:Direct Ship	Inventory Date:
Local ID:	ID-RFO-312T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Graphite	Waste Matrix Code: S5126

AS-GENERATED EPA CODES

APP8, F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	131.3	113.8	148.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	29.4	22.6	36.1
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	174.1		
Packaging Material Plastic:	26.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	3.89E-04
Pu-241	1.44E+02
Pu-240	5.42E+00
Pu-239	2.39E+01
Pu-238	8.43E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.9 Projected: 0.0 Total: 0.9

WASTE STREAM DESCRIPTION	After the casting of plutonium in production foundry operations, Item Description Code (IDC 300) was mechanically cleansed, generating IDC 310, graphite scarfings, and IDC 312, coarse graphite. This waste stream represents the coarse graphite portion that was generated.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [COARSE GRAPHITE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W272, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W272	Handling:	CH	NMVP #:	N/A	Stream Name:	COARSE GRAPHITE:Cert-repack	Inventory Date:	
Local ID:	ID-RFO-312T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Graphite	Waste Matrix Code:	S5126

AS-GENERATED EPA CODES

APP8, F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	187.0	162.0	211.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	41.8	32.2	51.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	3.89E-04
Pu-241	1.44E+02
Pu-240	5.42E+00
Pu-239	2.39E+01
Pu-238	8.43E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.5	0.0	0.0	0.0	0.0	1.5
Totals	1.5	0.0	0.0	0.0	0.0	1.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.7	0.0	0.0	0.0	0.0	1.7
Totals	1.7	0.0	0.0	0.0	0.0	1.7

As-Generated Form: Stored: 1.5 Projected: 0.0 Total: 1.5

Final Waste Form: Stored: 1.7 Projected: 0.0 Total: 1.7

WASTE STREAM DESCRIPTION	After the casting of plutonium in production foundry operations, Item Description Code (IDC 300) was mechanically cleansed, generating IDC 310, graphite scarfings, and IDC 312, coarse graphite. This waste stream represents the coarse graphite portion that was generated.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [COARSE GRAPHITE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W272, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the ava''ability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W275	Handling:	CH	NMVP #:	N/A	Stream Name:	GRAPHITE CORES:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-301T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Graphite	Waste Matrix Code:	S5126

AS-GENERATED EPA CODES

F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.2	0.2	0.2
Other Inorganic Material:	267.2	267.2	267.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	6.9	6.9	6.9
Rubber:	0.0	0.0	0.0
Plastics:	10.7	10.7	10.7
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	153.2		
Packaging Material Plastic:	31.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	7.65E-05
Pu-241	2.83E+01
Pu-240	1.06E+00
Pu-239	4.69E+00
Pu-238	1.66E-01
Am-241	5.41E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.3	0.0	0.0	0.0	0.0	1.3
Totals	1.3	0.0	0.0	0.0	0.0	1.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.2	0.0	0.0	0.0	0.0	1.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	1.7	0.0	0.0	0.0	0.0	1.7

As-Generated Form: Stored: 1.3 Projected: 0.0 Total: 1.3

Final Waste Form: Stored: 1.7 Projected: 0.0 Total: 1.7

WASTE STREAM DESCRIPTION	This waste stream, generated at the Rocky Flats Plant, is similar to graphite molds, Content Code 300. A graphite core is part of the shaped graphite mold used to cast plutonium metal. Some graphite molds are also included in this content code. This content code has not been used since 1977. The graphite has been broken into pieces, and some of the graphite has been scarfed or wire brushed to remove any above-discard deposits of plutonium. The graphite cores are almost pure carbon and should be inert in storage. The waste is noncombustible, but if pulverized and well mixed it will burn. Fines are not packaged with the waste. Although breakage and fines may result after packaging, levels of fines, should not exceed WIPP-WAC limits. The waste is packaged with no free liquids, sludges, explosives, compressed gases, pyrophoric or corrosive materials. Graphite core pieces may be packed directly into prepared 55-gallon drums or else first packed inside Fibre-Paks. The Fibre-Paks are 13 inches high by 15.5 inches in diameter. Sealed Fibre-Paks are sealed inside single (PVC) or double (PVC and PE) bags. Two Fibre-Paks are placed in each prepared 55-gallon drum. Drums were packed according to the usual pre-1972 and post-1972 procedures. Each drum was assayed. Since 1972, the drums were also processed according to inspection and sealing procedures. Oil-Dri was placed on top of the outer sealed PE drum bag.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [GRAPHITE CORES] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W275, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W275	Handling:	CH	NMVP #:	N/A	Stream Name:	GRAPHITE CORES:Cert-repack	Inventory Date:	
Local ID:	ID-RFO-301T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Graphite	Waste Matrix Code:	S5126

AS-GENERATED EPA CODES

F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.3	0.3	0.3
Other Inorganic Material:	316.0	316.0	316.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	8.2	8.2	8.2
Rubber:	0.0	0.0	0.0
Plastics:	12.6	12.6	12.6
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-242	7.65E-05
Pu-241	2.83E+01
Pu-240	1.06E+00
Pu-239	4.69E+00
Pu-238	1.66E-01
Am-241	5.41E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	5.1	0.0	0.0	0.0	0.0	5.1
Totals	5.1	0.0	0.0	0.0	0.0	5.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	5.2	0.0	0.0	0.0	0.0	5.2
Totals	5.2	0.0	0.0	0.0	0.0	5.2

As-Generated Form: Stored: 5.1 Projected: 0.0 Total: 5.1

Final Waste Form: Stored: 5.2 Projected: 0.0 Total: 5.2

WASTE STREAM DESCRIPTION	This waste stream, generated at the Rocky Flats Plant, is similar to graphite molds, Content Code 300. A graphite core is part of the shaped graphite mold used to cast plutonium metal. Some graphite molds are also included in this content code. This content code has not been used since 1977. The graphite has been broken into pieces, and some of the graphite has been scarfed or wire brushed to remove any above-discard deposits of plutonium. The graphite cores are almost pure carbon and should be inert in storage. The waste is noncombustible, but if pulverized and well mixed it will burn. Fines are not packaged with the waste. Although breakage and fines may result after packaging, levels of fines, should not exceed WIPP-WAC limits. The waste is packaged with no free liquids, sludges, explosives, compressed gases, pyrophoric or corrosive materials. Graphite core pieces may be packed directly into prepared 55-gallon drums or else first packed inside Fibre-Paks. The Fibre-Paks are 13 inches high by 15.5 inches in diameter. Sealed Fibre-Paks are sealed inside single (PVC) or double (PVC and PE) bags. Two Fibre-Paks are placed in each prepared 55-gallon drum. Drums were packed according to the usual pre-1972 and post-1972 procedures. Each drum was assayed. Since 1972, the drums were also processed according to inspection and sealing procedures. Oil-Dri was placed on top of the outer sealed PE drum bag.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [GRAPHITE CORES] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W275, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W276	Handling:	CH	NMVP #:	115	Stream Name:	GRAPHITE:Direct Ship
Local ID:	ID-RFO-300T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Graphite

Inventory Date:

Waste Matrix Code: S5126

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D028, D022

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	270.4	137.4	415.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	5.9	0.0	8.7
Rubber:	0.0	0.0	0.0
Plastics:	6.6	2.9	9.7
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.3		
Packaging Material Plastic:	33.1		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

115, 215

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	6.25E-05
Pu-241	2.31E+01
Pu-240	8.70E-01
Pu-239	3.83E+00
Pu-238	1.35E-01
Am-241	1.45E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	78.4	0.0	0.0	0.0	0.0	78.4
Totals	78.4	0.0	0.0	0.0	0.0	78.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	69.3	0.0	0.0	0.0	0.0	69.3
SWB used to overpack 55 gallon drums	17.5	0.0	0.0	0.0	0.0	17.5
Totals	86.7	0.0	0.0	0.0	0.0	86.7

As-Generated Form: Stored: 78.4 Projected: 0.0 Total: 78.4

Final Waste Form: Stored: 86.7 Projected: 0.0 Total: 86.7

WASTE STREAM DESCRIPTION	This waste stream, generated at the Rocky Flats Plant, consists of graphite molds used in casting plutonium metal. The waste may also include small amounts of surgical gloves. The graphite is in the form of broken mold pieces. Some of the graphite has been scarfed or wire-brushed to remove above-discard deposits of plutonium. The graphite molds are almost pure carbon and should be inert in storage. The waste is noncombustible, but if pulverized and well mixed it will burn. Fines are not packaged with the waste. Although breakage and fines may result after packaging, levels of fines should not exceed WIPP-WAC limits. The waste is packaged with no free liquids, sludges, explosives, compressed gases, pyrophoric or corrosive materials. Graphite pieces may be packed directly into prepared 55-gallon drums or else first packed inside Fibre-Paks. The Fibre-Paks are 13 inches high by 15.5 inches in diameter. Sealed Fibre-Paks are sealed inside single (PVC) or double (PVC and PE) bags. Two Fibre-Paks are placed in each prepared 55-gallon drum. Drums were packed according to the usual pre-1972 and post-1972 procedures. Each drum was assayed. Since 1972, the drums were also processed according to inspection and sealing procedures; and, since 1982, vermiculite instead of Oil-Dri was placed on top of the outer sealed PE drum bag.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [GRAPHITE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W276, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W276	Handling:	CH	NMVP #:	115	Stream Name:	GRAPHITE:Cert-repack	Inventory Date:	
Local ID:	ID-RFO-300T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Graphite	Waste Matrix Code:	S5126

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D028, D022

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	*0.0*	*0.0*	*0.0*
Other Inorganic Material:	305.0	155.0	468.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	6.7	0.0	9.8
Rubber:	0.0	0.0	0.0
Plastics:	7.4	3.3	10.9
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

115, 215

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-242	6.25E-05
Pu-241	2.31E+01
Pu-240	8.70E-01
Pu-239	3.83E+00
Pu-238	1.35E-01
Am-241	1.45E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	313.3	0.0	0.0	0.0	0.0	313.3
Totals	313.3	0.0	0.0	0.0	0.0	313.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	313.5	0.0	0.0	0.0	0.0	313.5
Totals	313.5	0.0	0.0	0.0	0.0	313.5

As-Generated Form: Stored: 313.3 Projected: 0.0 Total: 313.3

Final Waste Form: Stored: 313.5 Projected: 0.0 Total: 313.5

WASTE STREAM DESCRIPTION	This waste stream, generated at the Rocky Flats Plant, consists of graphite molds used in casting plutonium metal. The waste may also include small amounts of surgical gloves. The graphite is in the form of broken mold pieces. Some of the graphite has been scarfed or wire-brushed to remove above-discard deposits of plutonium. The graphite molds are almost pure carbon and should be inert in storage. The waste is noncombustible, but if pulverized and well mixed it will burn. Fines are not packaged with the waste. Although breakage and fines may result after packaging, levels of fines should not exceed WIPP-WAC limits. The waste is packaged with no free liquids, sludges, explosives, compressed gases, pyrophoric or corrosive materials. Graphite pieces may be packed directly into prepared 55-gallon drums or else first packed inside Fibre-Paks. The Fibre-Paks are 13 inches high by 15.5 inches in diameter. Sealed Fibre-Paks are sealed inside single (PVC) or double (PVC and PE) bags. Two Fibre-Paks are placed in each prepared 55-gallon drum. Drums were packed according to the usual pre-1972 and post-1972 procedures. Each drum was assayed. Since 1972, the drums were also processed according to inspection and sealing procedures; and, since 1982, vermiculite instead of Oil-Dri was placed on top of the outer sealed PE drum bag.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [GRAPHITE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W276, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W278	Handling:	CH	NMVP #:	N/A	Stream Name:	LOW SPECIFIC ACTIVITY METAL, GLASS, ETC.:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-950T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5100

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	174.1		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-242	3.15E-06
Pu-241	1.17E+00
Pu-240	4.38E-02
Pu-239	1.93E-01
Pu-238	6.81E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.9 Projected: 0.0 Total: 0.9

WASTE STREAM DESCRIPTION	This waste stream, generated at Rocky Flats Plant, contains primarily nonline generated noncombustible waste from maintenance and renovation. Items in this waste include electrical conduit, water and steam pipes, tools, control panels, electronic instrumentation, light bulbs, windows, office equipment (typewriters, chairs, desks, filing cabinets, etc.), lead shielding, and structural metal. Limited amounts of combustible wastes such as paper, rags, etc. are also included. Most of this waste is contaminated with less that 100 ncl/g TRU. The organic content is less than 14 lb/ft3 for drums and less than 6 lb/ft3 for boxes. Fines should not be present in excessive amounts. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. This waste stream is packaged in drums and in boxes. Depending on size and contamination levels of individual items, the waste is single or double contained in plastics or placed directly into prepared waste drums or boxes. Drums and boxes were prepared according to standard pre and post-1972 procedures. Oil-Dri absorbent is added to many of the containers. Each drum is assayed. Boxes are surveyed for the calculation of fissile contents.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (1.82%) of the MWIR waste stream, [LOW SPECIFIC ACTIVITY METAL, GLASS, ETC.] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W278, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W278	Handling:	CH	NMVP #:	N/A	Stream Name:	LOW SPECIFIC ACTIVITY METAL, GLASS, ETC.:Uncertifiable	Inventory Date:	
Local ID:	ID-RFO-950T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5100

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.05E-05
Pu-241	3.88E+00
Pu-240	1.46E-01
Pu-239	6.43E-01
Pu-238	2.27E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	12.7	0.0	0.0	0.0	0.0	12.7
Drum	1.1	0.0	0.0	0.0	0.0	1.1
Totals	13.7	0.0	0.0	0.0	0.0	13.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.2	0.0	0.0	0.0	0.0	4.2
Totals	4.2	0.0	0.0	0.0	0.0	4.2

As-Generated Form: Stored: 13.7 Projected: 0.0 Total: 13.7

Final Waste Form: Stored: 4.2 Projected: 0.0 Total: 4.2

WASTE STREAM DESCRIPTION	This waste stream, generated at Rocky Flats Plant, contains primarily nonline generated noncombustible waste from maintenance and renovation. Items in this waste include electrical conduit, water and steam pipes, tools, control panels, electronic instrumentation, light bulbs, windows, office equipment (typewriters, chairs, desks, filing cabinets, etc.), lead shielding, and structural metal. Limited amounts of combustible wastes such as paper, rags, etc. are also included. Most of this waste is contaminated with less that 100 nci/g TRU. The organic content is less than 14 lb/ft3 for drums and less than 6 lb/ft3 for boxes. Fines should not be present in excessive amounts. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. This waste stream is packaged in drums and in boxes. Depending on size and contamination levels of individual items, the waste is single or double contained in plastics or placed directly into prepared waste drums or boxes. Drums and boxes were prepared according to standard pre and post-1972 procedures. Oil-Dri absorbent is added to many of the containers. Each drum is assayed. Boxes are surveyed for the calculation of fissile contents.
WASTE STREAM SOURCE	This record represents the [Uncertifiable] portion (98.18%) of the MWIR waste stream, [LOW SPECIFIC ACTIVITY METAL, GLASS, ETC.] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W278, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W280	Handling:	CH	NMVP #:	N/A	Stream Name:	METAL, EQUIPMENT, PIPES, VALVES, ETC.:Cert-repack
Inventory Date:							
Local ID:	ID-MDO-803T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Uncategorized Metal
Waste Matrix Code:	S5112						

AS-GENERATED EPA CODES

APPB, D009

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	415.6	2.2	764.4
Aluminum-base Metal/Alloys:	17.5	17.5	38.2
Other Metals/Alloys:	9.2	9.2	46.6
Other Inorganic Material:	31.7	0.0	812.5
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	4.8	0.0	4.8
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	6.97E-06
Pu-241	7.29E-01
Pu-240	8.00E-03
Pu-239	4.51E+00
Pu-238	6.75E+02
Pu-236	9.34E-04
Am-241	9.19E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	28.2	0.0	0.0	0.0	0.0	28.2
Totals	28.2	0.0	0.0	0.0	0.0	28.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	28.5	0.0	0.0	0.0	0.0	28.5
Totals	28.5	0.0	0.0	0.0	0.0	28.5

As-Generated Form: Stored: 28.2 Projected: 0.0 Total: 28.2

Final Waste Form: Stored: 28.5 Projected: 0.0 Total: 28.5

WASTE STREAM DESCRIPTION	This waste comes from Mound Laboratory and consists of stainless steel, carbon steel, and small amounts of aluminum-metal wastes in the form of valves, piping, wrenches, nuts, bolts, stainless steel tubing, spatulas, pans, hotplates, ringstands, etc. Limited amounts of combustible and noncombustible wastes are also present from Content Codes 810, 811, 812, 813, 814, 826, and 832. Content Code 832 is liquid mercury. Content Code 812 is spent ion-exchange resin. Most of the waste is metal waste that is primarily from D&D operations. Some of the metals were leached with nitric acid, ultrasonically cleaned, and dried to remove above-discard amounts of plutonium. Waste is packaged in 1-gallon, plastic coated cardboard cartons which are in turn placed in two layers of PE bags and then put into a 55-gallon drum. Some large metal waste is taped on the rough edges and sealed in two layers of plastic and then placed into a 55-gallon drum. Drums have drum rigid liners and a drum bag. Each carton is individually assayed. Contaminated elemental mercury from Content Code 832 must be segregated. The specific locations, by drum, of waste cartons from Content Code 832,mercury, are known. Therefore, the waste drums containing mercury will be easily identified and the mercury will be removed.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (79.98%) of the MWIR waste stream, [METAL, EQUIPMENT, PIPES, VALVES, ETC.] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W280, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done. Waste stream is anticipated to be non-mixed after containers of mercury are removed.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W280	Handling:	CH	NMVP #:	N/A	Stream Name:	METAL, EQUIPMENT, PIPES, VALVES, ETC.:Direct Ship	Inventory Date:	
Local ID:	ID-MDO-803T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5112

AS-GENERATED EPA CODES

APP8, D009

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	362.6	1.9	667.0
Aluminum-base Metal/Alloys:	15.3	15.3	33.3
Other Metals/Alloys:	8.0	8.0	40.7
Other Inorganic Material:	27.7	0.0	709.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	4.2	0.0	4.2
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	149.4		
Packaging Material Plastic:	32.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	6.97E-06
Pu-241	7.29E-01
Pu-240	8.00E-03
Pu-239	4.51E+00
Pu-238	6.75E+02
Pu-236	9.34E-04
Am-241	9.19E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	7.0	0.0	0.0	0.0	0.0	7.0
Totals	7.0	0.0	0.0	0.0	0.0	7.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	6.4	0.0	0.0	0.0	0.0	6.4
SWB used to overpack 55 gallon drums	1.9	0.0	0.0	0.0	0.0	1.9
Totals	8.3	0.0	0.0	0.0	0.0	8.3

As-Generated Form: Stored: 7.0 Projected: 0.0 Total: 7.0

Final Waste Form: Stored: 8.3 Projected: 0.0 Total: 8.3

WASTE STREAM DESCRIPTION	This waste comes from Mound Laboratory and consists of stainless steel, carbon steel, and small amounts of aluminum-metal wastes in the form of valves, piping, wrenches, nuts, bolts, stainless steel tubing, spatulas, pans, hotplates, ringstands, etc. Limited amounts of combustible and noncombustible wastes are also present from Content Codes 810, 811, 812, 813, 814, 826, and 832. Content Code 832 is liquid mercury. Content Code 812 is spent ion-exchange resin. Most of the waste is metal waste that is primarily from D&D operations. Some of the metals were leached with nitric acid, ultrasonically cleaned, and dried to remove above-discard amounts of plutonium. Waste is packaged in 1-gallon, plastic coated cardboard cartons which are in turn placed in two layers of PE bags and then put into a 55-gallon drum. Some large metal waste is taped on the rough edges and sealed in two layers of plastic and then placed into a 55-gallon drum. Drums have drum rigid liners and a drum bag. Each carton is individually assayed. Contaminated elemental mercury from Content Code 832 must be segregated. The specific locations, by drum, of waste cartons from Content Code 832,mercury, are known. Therefore, the waste drums containing mercury will be easily identified and the mercury will be removed.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [METAL, EQUIPMENT, PIPES, VALVES, ETC.] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W280, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done. Waste stream is anticipated to be non-mixed after containers of mercury are removed.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W280	Handling:	CH	NMVP #:	N/A	Stream Name:	METAL, EQUIPMENT, PIPES, VALVES, ETC.:Mercury	Inventory Date:	
Local ID:	ID-MDO-803T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5112

AS-GENERATED EPA CODES

APP8, D009

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-242	2.32E-06
Pu-241	2.43E-01
Pu-240	2.67E-03
Pu-239	1.50E+00
Pu-238	2.25E+02
Pu-236	3.11E-04
Am-241	3.06E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste comes from Mound Laboratory and consists of stainless steel, carbon steel, and small amounts of aluminum-metal wastes in the form of valves, piping, wrenches, nuts, bolts, stainless steel tubing, spatulas, pans, hotplates, ringstands, etc. Limited amounts of combustible and noncombustible wastes are also present from Content Codes 810, 811, 812, 813, 814, 826, and 832. Content Code 832 is liquid mercury. Content Code 812 is spent ion-exchange resin. Most of the waste is metal waste that is primarily from D&D operations. Some of the metals were leached with nitric acid, ultrasonically cleaned, and dried to remove above-discard amounts of plutonium. Waste is packaged in 1-gallon, plastic coated cardboard cartons which are in turn placed in two layers of PE bags and then put into a 55-gallon drum. Some large metal waste is taped on the rough edges and sealed in two layers of plastic and then placed into a 55-gallon drum. Drums have drum rigid liners and a drum bag. Each carton is individually assayed. Contaminated elemental mercury from Content Code 832 must be segregated. The specific locations, by drum, of waste cartons from Content Code 832,mercury, are known. Therefore, the waste drums containing mercury will be easily identified and the mercury will be removed.
WASTE STREAM SOURCE	This record represents the [Mercury] portion (.02%) of the MWIR waste stream, [METAL, EQUIPMENT, PIPES, VALVES, ETC.] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk amalg TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W280, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done. Waste stream is anticipated to be non-mixed after containers of mercury are removed.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W281	Handling:	CH	NMVP #:	N/A	Stream Name:	NONCOMBUSTIBLE EQUIPMENT BOXES:Cert-repack
Inventory Date:							
Local ID:	ID-MDO-824T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Heterogeneous
Waste Matrix Code:	S5400						

AS-GENERATED EPA CODES

APP8, D011, D010, D009, D008, D007, D006, D005

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	682.0	2.2	764.4
Aluminum-base Metal/Alloys:	28.7	17.5	38.2
Other Metals/Alloys:	15.1	9.2	46.6
Other Inorganic Material:	24.9	0.0	812.5
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	4.8	0.0	4.8
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	3.35E-08
Pu-241	3.50E-03
Pu-240	3.84E-05
Pu-239	7.38E-02
Pu-238	1.53E+01
Pu-236	4.49E-06

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	317.0	0.0	0.0	0.0	0.0	317.0
Totals	317.0	0.0	0.0	0.0	0.0	317.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	317.8	0.0	0.0	0.0	0.0	317.8
Totals	317.8	0.0	0.0	0.0	0.0	317.8

As-Generated Form: Stored: 317.0 Projected: 0.0 Total: 317.0

Final Waste Form: Stored: 317.8 Projected: 0.0 Total: 317.8

WASTE STREAM DESCRIPTION

This waste stream, generated at Mound Laboratory, consists of large, noncombustible wastes such as tanks (stainless steel and tantalum), piping, ducting, conduit, electric motors, pumps, metallurgical presses, lathes, dissolvers, evaporators, furnaces, ladders, vacuum sweepers, 24 x 24 x 12 inch HEPA filters, fume hoods, gloveboxes, plexiglass glovebox windows, and floor tile. Limited amounts of combustible wastes (plastic tanks, fiberglass gloveboxes, plastic contamination control tents, etc.) are also included.

The boxes filled with HEPA filters and cartons of resins may both contain excessive fines. Organic material in the waste may vary from negligible to in excess of 6 lb/ft3. Combustibles may exceed 25 volume percent in some boxes. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. Some emptied cylinders with opened valves and punctured aerosol cans are included in the waste.

All of this waste is packaged in standard or oversized boxes. Each item is generally wiped with wet rags and single or double contained in plastic. Open ends or openings are sealed. Oils or other liquids are drained from any equipment prior to packaging. Florco absorbent is added to each box for residual liquids. Polyurethane foam is added if necessary to help stabilize large equipment.

Some boxes contain smaller plywood boxes, cartons, cans, or drums of waste items. All plywood boxes are coated with fiberglass-reinforced polyester (FRP). Oversized boxes are not lined with plastic or cardboard liners.

WASTE STREAM SOURCE

This record represents the [Cert-repack] portion (85.64%) of the MWIR waste stream, [NONCOMBUSTIBLE EQUIPMENT BOXES] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W281, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W281	Handling:	CH	NMVP #:	N/A	Stream Name:	NONCOMBUSTIBLE EQUIPMENT BOXES:Uncertifiable
Inventory Date:							
Local ID:	ID-MDO-824T	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Inorganic Non-Metal
Waste Matrix Code:	S5400						

AS-GENERATED EPA CODES

APP8, D011, D010, D009, D008, D007, D006, D005

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	3.35E-06
Pu-241	3.50E-01
Pu-240	3.84E-03
Pu-239	7.38E+00
Pu-238	1.53E+03
Pu-236	4.49E-04

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	53.9	0.0	0.0	0.0	0.0	53.9
Totals	53.9	0.0	0.0	0.0	0.0	53.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated Form: Stored: 53.9 Projected: 0.0 Total: 53.9

Final Waste Form: Stored: 0.6 Projected: 0.0 Total: 0.6

WASTE STREAM DESCRIPTION

This waste stream, generated at Mound Laboratory, consists of large, noncombustible wastes such as tanks (stainless steel and tantalum), piping, ducting, conduit, electric motors, pumps, metallurgical presses, lathes, dissolvers, evaporators, furnaces, ladders, vacuum sweepers, 24 x 24 x 12 inch HEPA filters, fume hoods, gloveboxes, plexiglass glovebox windows, and floor tile. Limited amounts of combustible wastes (plastic tanks, fiberglass gloveboxes, plastic contamination control tents, etc.) are also included.

The boxes filled with HEPA filters and cartons of resins may both contain excessive fines. Organic material in the waste may vary from negligible to in excess of 6 lb/ft3. Combustibles may exceed 25 volume percent in some boxes. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. Some emptied cylinders with opened valves and punctured aerosol cans are included in the waste.

All of this waste is packaged in standard or oversized boxes. Each item is generally wiped with wet rags and single or double contained in plastic. Open ends or openings are sealed. Oils or other liquids are drained from any equipment prior to packaging. Florco absorbent is added to each box for residual liquids. Polyurethane foam is added if necessary to help stabilize large equipment.

Some boxes contain smaller plywood boxes, cartons, cans, or drums of waste items. All plywood boxes are coated with fiberglass-reinforced polyester (FRP). Oversized boxes are not lined with plastic or cardboard liners.

WASTE STREAM SOURCE

This record represents the [Uncertifiable] portion (14.36%) of the MWIR waste stream, [NONCOMBUSTIBLE EQUIPMENT BOXES] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W281, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W283	Handling:	CH	NMVP #:	N/A	Stream Name:	AMERICIUM PROCESS RESIDUE:CH-Cert-repack	Inventory Date:	
Local ID:	ID-RFO-241T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5420

AS-GENERATED EPA CODES

F003, F002, D008, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	159.0	159.0	159.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	129.0	129.0	129.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	13.5	13.5	13.5
Rubber:	0.0	0.0	0.0
Plastics:	81.9	81.9	81.9
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

225

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.33E-04
Pu-241	4.91E+01
Pu-240	1.85E+00
Pu-239	8.14E+00
Pu-238	2.87E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION

This waste stream, generated at the Rocky Flats Plant, consists of piping, flanges, valves, tools, equipment, PVC piping, glassware (flasks, broken ion exchange columns, etc.), glass filters, PE bottles, leaded glovebox gloves, paper, and plastics. Wastes were shipped only in 1972 and 1973, from renovation of the americium recovery line. Some of the containers are lead-lined.

Organic material in the waste may vary from negligible to 100 percent organic. Dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. Some dried residue of 7 N nitric acid, hydrochloric acid, and ammonium thiocyanate may be present.

Smaller waste items are single and double contained in PE or PVC bags. Most of the bagged waste was placed in 13-inch high by 15.5-inch diameter Fibre-Paks. Larger items are placed directly inside 55-gallon drums. Fibre-Paks are usually wrapped with lead tape. Two Fibre-Paks fit in each drum. Most drums were lead shielded with 1/16- to 1/8-inch thick lead sheeting. Each drum was assayed.

The waste matrix composition listed is based on drum sampling. No glassware or glass filters were contained in the sampled containers.

WASTE STREAM SOURCE

This record represents the [CH-Cert-repack] portion (4.26%) of the MWIR waste stream, [AMERICIUM PROCESS RESIDUE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W283, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS

Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS

All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W283	Handling:	CH	NMVP #:	N/A	Stream Name:	AMERICIUM PROCESS RESIDUE:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-241T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5420

AS-GENERATED EPA CODES

F003, F002, D008, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	97.2	97.2	97.2
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	78.9	78.9	78.9
Vitrified:	0.0	0.0	0.0
Cellulosics:	8.3	8.3	8.3
Rubber:	0.0	0.0	0.0
Plastics:	50.1	50.1	50.1
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	23.5		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

225

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.33E-04
Pu-241	4.91E+01
Pu-240	1.85E+00
Pu-239	8.14E+00
Pu-238	2.87E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION	This waste stream, generated at the Rocky Flats Plant, consists of piping, flanges, valves, tools, equipment, PVC piping, glassware (flasks, broken ion exchange columns, etc.), glass filters, PE bottles, leaded glovebox gloves, paper, and plastics. Wastes were shipped only in 1972 and 1973, from renovation of the americium recovery line. Some of the containers are lead-lined. Organic material in the waste may vary from negligible to 100 percent organic. Dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. Some dried residue of 7 N nitric acid, hydrochloric acid, and ammonium thiocyanate may be present. Smaller waste items are single and double contained in PE or PVC bags. Most of the bagged waste was placed in 13-inch high by 15.5-inch diameter Fibre-Paks. Larger items are placed directly inside 55-gallon drums. Fibre-Paks are usually wrapped with lead tape. Two Fibre-Paks fit in each drum. Most drums were lead shielded with 1/16- to 1/8-inch thick lead sheeting. Each drum was assayed. The waste matrix composition listed is based on drum sampling. No glassware or glass filters were contained in the sampled containers.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [AMERICIUM PROCESS RESIDUE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W283, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W283	Handling:	CH	NMVP #:	N/A	Stream Name:	AMERICIUM PROCESS RESIDUE:CH-Uncertifiable	Inventory Date:	
Local ID:	ID-RFO-241T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5420

AS-GENERATED EPA CODES

F003, F002, D008, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	4.43E-04
Pu-241	1.64E+02
Pu-240	6.16E+00
Pu-239	2.71E+01
Pu-238	9.58E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste stream, generated at the Rocky Flats Plant, consists of piping, flanges, valves, tools, equipment, PVC piping, glassware (flasks, broken ion exchange columns, etc.), glass filters, PE bottles, leaded glovebox gloves, paper, and plastics. Wastes were shipped only in 1972 and 1973, from renovation of the americium recovery line. Some of the containers are lead-lined. Organic material in the waste may vary from negligible to 100 percent organic. Dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. Some dried residue of 7 N nitric acid, hydrochloric acid, and ammonium thiocyanate may be present. Smaller waste items are single and double contained in PE or PVC bags. Most of the bagged waste was placed in 13-inch high by 15.5-inch diameter Fibre-Paks. Larger items are placed directly inside 55-gallon drums. Fibre-Paks are usually wrapped with lead tape. Two Fibre-Paks fit in each drum. Most drums were lead shielded with 1/16- to 1/8-inch thick lead sheeting. Each drum was assayed. The waste matrix composition listed is based on drum sampling. No glassware or glass filters were contained in the sampled containers.
WASTE STREAM SOURCE	This record represents the [CH-Uncertifiable] portion (3.74%) of the MWIR waste stream, [AMERICIUM PROCESS RESIDUE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W283, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W283	Handling:	RH	NMVP #:	N/A	Stream Name:	AMERICIUM PROCESS RESIDUE:RH-Cert-repack	Inventory Date:	
Local ID:	ID-RFO-241T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5420

AS-GENERATED EPA CODES

F003, F002, D008, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	111.5	111.5	111.5
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	90.4	90.4	90.4
Vitrified:	0.0	0.0	0.0
Cellulosics:	9.5	9.5	9.5
Rubber:	0.0	0.0	0.0
Plastics:	57.4	57.4	57.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

225

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.33E-04
Pu-241	4.91E+01
Pu-240	1.85E+00
Pu-239	8.14E+00
Pu-238	2.87E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	1.2	0.0	0.0	0.0	0.0	1.2
Totals	1.2	0.0	0.0	0.0	0.0	1.2

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 1.2 Projected: 0.0 Total: 1.2

WASTE STREAM DESCRIPTION	This waste stream, generated at the Rocky Flats Plant, consists of piping, flanges, valves, tools, equipment, PVC piping, glassware (flasks, broken ion exchange columns, etc.), glass filters, PE bottles, leaded glovebox gloves, paper, and plastics. Wastes were shipped only in 1972 and 1973, from renovation of the americium recovery line. Some of the containers are lead-lined. Organic material in the waste may vary from negligible to 100 percent organic. Dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. Some dried residue of 7 N nitric acid, hydrochloric acid, and ammonium thiocyanate may be present. Smaller waste items are single and double contained in PE or PVC bags. Most of the bagged waste was placed in 13-inch high by 15.5-inch diameter Fibre-Paks. Larger items are placed directly inside 55-gallon drums. Fibre-Paks are usually wrapped with lead tape. Two Fibre-Paks fit in each drum. Most drums were lead shielded with 1/16- to 1/8-inch thick lead sheeting. Each drum was assayed. The waste matrix composition listed is based on drum sampling. No glassware or glass filters were contained in the sampled containers.
WASTE STREAM SOURCE	This record represents the [RH-Cert-repack] portion (72%) of the MWIR waste stream, [AMERICIUM PROCESS RESIDUE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W283, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W285	Handling:	CH	NMVP #:	N/A	Stream Name:	NONCOMBUSTIBLE SOLIDS:Cert-repack	Inventory Date:	
Local ID:	ID-BCO-201T	Type:	MTRU	Generator Site:	BC	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5100

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	96.2	0.0	1634.6
Aluminum-base Metal/Alloys:	0.0	0.0	1.6
Other Metals/Alloys:	0.1	0.0	22.7
Other Inorganic Material:	2.4	0.0	24.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	80.9	0.0	184.8
Rubber:	7.3	0.0	16.4
Plastics:	64.9	0.0	149.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-235	9.70E-05
Pu-239	2.86E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bin	56.0	0.0	0.0	0.0	0.0	56.0
Drum	7.0	0.0	0.0	0.0	0.0	7.0
Totals	63.0	0.0	0.0	0.0	0.0	63.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	63.0	0.0	0.0	0.0	0.0	63.0
Totals	63.0	0.0	0.0	0.0	0.0	63.0

As-Generated Form: Stored: 63.0 Projected: 0.0 Total: 63.0

Final Waste Form: Stored: 63.0 Projected: 0.0 Total: 63.0

WASTE STREAM DESCRIPTION	This waste stream, generated at Battelle Columbus Laboratories, contains noncombustible items such as tools, crucibles, piping, valves, pieces of equipment, lead bricks, plexiglass, and filters. The organic content is minimal. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. Prior to packaging, each waste item is given a smear test and then triple contained in either nylon reinforced plastic sheeting or PE bags. The waste is placed in 55-gallon drums fitted with 90-mil liners, or else placed in M-III bins. Some drums which do not meet INEL packaging criteria are also overpacked in bins.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (97.01%) of the MWIR waste stream, [NONCOMBUSTIBLE SOLIDS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W285, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W285	Handling:	CH	NMVP #:	N/A	Stream Name:	NONCOMBUSTIBLE SOLIDS:Direct Ship
Local ID:	ID-BCO-201T	Type:	MTRU	Generator Site:	BC	Final Waste Form:	Heterogeneous

Inventory Date:

Waste Matrix Code: S5100

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	85.3	0.0	1449.4
Aluminum-base Metal/Alloys:	0.0	0.0	1.4
Other Metals/Alloys:	0.1	0.0	20.1
Other Inorganic Material:	2.1	0.0	21.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	71.7	0.0	163.9
Rubber:	6.5	0.0	14.5
Plastics:	57.5	0.0	132.1
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.3		
Packaging Material Plastic:	33.1		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	9.70E-05
Pu-239	2.86E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.9	0.0	0.0	0.0	0.0	1.9
Totals	1.9	0.0	0.0	0.0	0.0	1.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.9	0.0	0.0	0.0	0.0	1.9
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	2.3	0.0	0.0	0.0	0.0	2.3

As-Generated Form: Stored: 1.9 Projected: 0.0 Total: 1.9

Final Waste Form: Stored: 2.3 Projected: 0.0 Total: 2.3

WASTE STREAM DESCRIPTION	This waste stream, generated at Battelle Columbus Laboratories, contains noncombustible items such as tools, crucibles, piping, valves, pieces of equipment, lead bricks, plexiglass, and filters. The organic content is minimal. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. Prior to packaging, each waste item is given a smear test and then triple contained in either nylon reinforced plastic sheeting or PE bags. The waste is placed in 55-gallon drums fitted with 90-mil liners, or else placed in M-III bins. Some drums which do not meet INEL packaging criteria are also overpacked in bins.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (2.99%) of the MWIR waste stream, [NONCOMBUSTIBLE SOLIDS] after processing. The proposed processing sequence is {SWEPP:segpk TRANS:trans WIPP:disp}. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W285, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W287	Handling:	CH	NMVP #:	N/A	Stream Name:	CUT UP GLOVEBOXES	Inventory Date:	
Local ID:	ID-AEO-101T	Type:	MTRU	Generator Site:	AE	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5112

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	213.2	44.2	368.4
Aluminum-base Metal/Alloys:	34.2	27.4	73.7
Other Metals/Alloys:	15.8	12.6	44.2
Other Inorganic Material:	38.9	0.0	141.1
Vitrified:	0.0	0.0	0.0
Cellulosics:	56.8	23.7	115.0
Rubber:	0.6	0.3	2.4
Plastics:	5.7	2.4	24.2
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-238	5.91E-05
U-235	1.24E-08
Pu-241	2.86E-01
Pu-240	3.07E+00
Pu-239	2.58E-01
Np-237	7.88E-04
Am-241	1.99E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bin	196.0	0.0	0.0	0.0	0.0	196.0
Box	15.9	0.0	0.0	0.0	0.0	15.9
Totals	211.9	0.0	0.0	0.0	0.0	211.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	212.0	0.0	0.0	0.0	0.0	212.0
Totals	212.0	0.0	0.0	0.0	0.0	212.0

As-Generated Form: Stored: 211.9 Projected: 0.0 Total: 211.9

Final Waste Form: Stored: 212.0 Projected: 0.0 Total: 212.0

WASTE STREAM DESCRIPTION	This waste stream, generated at Argonne National Laboratory-East, contains glovebox sections and associated equipment from decontamination and decommissioning operations. The waste is predominantly noncombustible. The organic content is around 3 lb/ft3. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. This waste is contained in M-III bins with half or full-sized plywood box liners. Miscellaneous items such as machines, tools, glassware, piping, filters, and cinderblock are contained in 20-mil PVC bags, heat sealed, and placed in the plywood liners. Gloveboxes are dismantled, wrapped in one or more layers of PE, and placed in the liners.
WASTE STREAM SOURCE	This waste stream was generated at Plutonium Lab and Plutonium Fabrication Bldgs.: Various. The generating process is: Decontamination and Decommissioning.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W289	Handling:	CH	NMVP #:	N/A	Stream Name:	DECONTAMINATION AND DECOMMISSIONING WAST
Inventory Date:							
Local ID:	ID-OFS-121T	Type:	MTRU	Generator Site:	AE	Final Waste Form:	Heterogeneous
Waste Matrix Code:	S5440						

AS-GENERATED EPA CODES

APP8, F002, F001, D009, D008, D007, D006, D005, D004

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	415.6	2.2	764.4
Aluminum-base Metal/Alloys:	17.5	17.5	38.2
Other Metals/Alloys:	9.2	9.2	46.6
Other Inorganic Material:	31.7	0.0	812.5
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	4.8	0.0	4.8
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

121

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	5.89E+00
Am-241	4.66E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	0.0	0.0	0.0	0.0	0.0	0.0
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	25.4	0.0	0.0	0.0	0.0	25.4
Totals	25.4	0.0	0.0	0.0	0.0	25.4

As-Generated Form: Stored: 0.0 Projected: 0.0 Total: 0.0

Final Waste Form: Stored: 25.4 Projected: 0.0 Total: 25.4

WASTE STREAM DESCRIPTION	This waste, generated at Argonne National Laboratory-East and Rocky Flats. The ANL-East waste is derived from decontamination and disposal of facilities and ancillary systems. The composition of the waste is unknown. The waste generated at Rocky Flats contains mainly Benelex which is a dense, laminated, lignocellulose hardboard made from wood chips and particles (Masonite Corp., Type 402). The Benelex is generally 2 inches thick. Some of the Benelex has lead shielding attached to it. Metal hinges and angle iron strongbacks are also present. Plexiglass is the other major constituent in the waste. The plexiglass thickness ranges from 2 to 4 inches. Both the Benelex and the plexiglass are combustible. The wase is packaged in standard RFP drums and boxes. Waste matrix composition listed is based on the opening and examination of several drums of IDC 302 waste. More than 94% ofthis waste is in boxes, where a larger percentage of benelex (large pieces) can be expected.
WASTE STREAM SOURCE	This waste stream was generated at Argonne National Laboratory-East; Unknown; Rocky Flats Plant, Various: Various. The generating process is: Argonne National Laboratory-East - Unknown and Rocky Flats Plant - Various.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W291	Handling:	CH	NMVP #:	N/A	Stream Name:	GENERAL PLANT WASTE:Direct Ship	Inventory Date:	
Local ID:	ID-AEO-100T	Type:	MTRU	Generator Site:	AE	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

F003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	58.8	0.0	999.3
Aluminum-base Metal/Alloys:	0.0	0.0	1.0
Other Metals/Alloys:	0.1	0.0	13.9
Other Inorganic Material:	1.5	0.0	14.7
Vitrified:	0.0	0.0	0.0
Cellulosics:	49.5	0.0	113.0
Rubber:	4.5	0.0	10.0
Plastics:	39.7	0.0	91.1
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	23.5		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
U-238	9.63E-07
U-235	2.44E-07
Pu-240	9.72E-01
Pu-239	2.17E-01
Np-237	7.16E-05
Am-241	5.22E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION	This waste steam, generated at Argonne National Laboratory-East, contains combustible and noncombustible items such as paper, rags, rubber gloves, plastic bottles, glassware, small tools, balances, and empty metal cans. The waste is usually separated into combustible and noncombustible streams. Prior to 1981, small amounts of absorbed organic wastes are included. Waste packaged prior to 1982 may contain of potentially unstable materials. Since the waste is packaged in bins, all of the bins may require opening and handling to meet TRAMPAC limits, such as vented container requirements. The organic content will exceed 6 lb/ft3 for combustible-containing bins. The levels of dispersible fines should be within WIPP-WAC limits. No free liquids should be present. There may be small amounts of sludges. The waste contains contaminated gas cylinders which are empty and have open valves. Aerosol cans may also be included. Prior to 1981, potentially unstable material such as nitrated organic resins, and ether-based scintillation fluids were also included. Wastes are packaged in 3- and 5-gallon cans and the 55-gallon drums are segregated into combustible and noncombustible streams and placed in M-III bins.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (.01%) of the MWIR waste stream, [GENERAL PLANT WASTE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W291, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W291	Handling:	CH	NMVP #:	N/A	Stream Name:	GENERAL PLANT WASTE:Uncert-comb
Inventory Date:							
Local ID:	ID-AEO-100T	Type:	MTRU	Generator Site:	AE	Final Waste Form:	Inorganic Non-Metal
Waste Matrix Code:	S5440						

AS-GENERATED EPA CODES

F003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-238	9.83E-05
U-235	2.44E-05
Pu-240	9.72E+01
Pu-239	2.17E+01
Np-237	7.16E-03
Am-241	5.22E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bin	123.6	0.0	0.0	0.0	0.0	123.6
Totals	123.6	0.0	0.0	0.0	0.0	123.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.5	0.0	0.0	0.0	0.0	1.5
Totals	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated Form: Stored: 123.6 Projected: 0.0 Total: 123.6

Final Waste Form: Stored: 1.5 Projected: 0.0 Total: 1.5

WASTE STREAM DESCRIPTION	This waste steam, generated at Argonne National Laboratory-East, contains combustible and noncombustible items such as paper, rags, rubber gloves, plastic bottles, glassware, small tools, balances, and empty metal cans. The waste is usually separated into combustible and noncombustible streams. Prior to 1981, small amounts of absorbed organic wastes are included. Waste packaged prior to 1982 may contain of potentially unstable materials. Since the waste is packaged in bins, all of the bins may require opening and handling to meet TRAMPAC limits, such as vented container requirements. The organic content will exceed 6 lb/ft3 for combustible-containing bins. The levels of dispersible fines should be within WIPP-WAC limits. No free liquids should be present. There may be small amounts of sludges. The waste contains contaminated gas cylinders which are empty and have open valves. Aerosol cans may also be included. Prior to 1981, potentially unstable material such as nitrated organic resins, and ether-based scintillation fluids were also included. Wastes are packaged in 3- and 5-gallon cans and the 55-gallon drums are segregated into combustible and noncombustible streams and placed in M-III bins.
WASTE STREAM SOURCE	This record represents the [Uncert-comb] portion (17.63%) of the MWIR waste stream, [GENERAL PLANT WASTE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W291, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W291	Handling:	CH	NMVP #:	N/A	Stream Name:	GENERAL PLANT WASTE:Cert-repack	Inventory Date:	
Local ID:	ID-AEO-100T	Type:	MTRU	Generator Site:	AE	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

F003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	96.2	0.0	1634.6
Aluminum-base Metal/Alloys:	0.0	0.0	1.6
Other Metals/Alloys:	0.1	0.0	22.7
Other Inorganic Material:	2.4	0.0	24.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	80.9	0.0	184.8
Rubber:	7.3	0.0	16.4
Plastics:	64.9	0.0	149.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
U-238	9.63E-07
U-235	2.44E-07
Pu-240	9.72E-01
Pu-239	2.17E-01
Np-237	7.16E-05
Am-241	5.22E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bin	630.0	0.0	0.0	0.0	0.0	630.0
Box	3.2	0.0	0.0	0.0	0.0	3.2
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	633.4	0.0	0.0	0.0	0.0	633.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	634.4	0.0	0.0	0.0	0.0	634.4
Totals	634.4	0.0	0.0	0.0	0.0	634.4

As-Generated Form: Stored: 633.4 Projected: 0.0 Total: 633.4

Final Waste Form: Stored: 634.4 Projected: 0.0 Total: 634.4

WASTE STREAM DESCRIPTION

This waste steam, generated at Argonne National Laboratory-East, contains combustible and noncombustible items such as paper, rags, rubber gloves, plastic bottles, glassware, small tools, balances, and empty metal cans. The waste is usually separated into combustible and noncombustible streams. Prior to 1981, small amounts of absorbed organic wastes are included.

Waste packaged prior to 1982 may contain of potentially unstable materials. Since the waste is packaged in bins, all of the bins may require opening and handling to meet TRAMPAC limits, such as vented container requirements. The organic content will exceed 6 lb/ft3 for combustible-containing bins. The levels of dispersible fines should be within WIPP-WAC limits. No free liquids should be present. There may be small amounts of sludges. The waste contains contaminated gas cylinders which are empty and have open valves. Aerosol cans may also be included. Prior to 1981, potentially unstable material such as nitrated organic resins, and ether-based scintillation fluids were also included.

Wastes are packaged in 3- and 5-gallon cans and the 55-gallon drums are segregated into combustible and noncombustible streams and placed in M-III bins.

WASTE STREAM SOURCE

This record represents the [Cert-repack] portion (82.36%) of the MWIR waste stream, [GENERAL PLANT WASTE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W291, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS

Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS

N/A

FINAL FORM COMMENTS

All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W294	Handling:	CH	NMVP #:	N/A	Stream Name:	LEACHED NONSPECIAL SOURCE METAL:CH-Uncert
Local ID:	ID-RFO-481T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal

Inventory Date:

Waste Matrix Code: S5110

AS-GENERATED EPA CODES

APP8, F005, F002, F001, D022, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	6.72E-06
Pu-242	1.71E-04
Pu-241	6.34E+01
Pu-240	2.38E+00
Pu-239	1.05E+01
Pu-238	3.70E-01
Am-241	2.50E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

WASTE STREAM DESCRIPTION	This waste comes from the Rocky Flats Plant. It consists of the smaller pieces of the waste described under Content Code 480 that have been washed with hot water to recover plutonium. The waste is packaged in standard RFP fashion. Sharp metal edges are taped before packaging. Some lead-lined containers are included.
WASTE STREAM SOURCE	This record represents the [CH-Uncert] portion (.2%) of the MWIR waste stream, [LEACHED NONSPECIAL SOURCE METAL] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W294, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W294	Handling:	CH	NMVP #:	N/A	Stream Name:	LEACHED NONSPECIAL SOURCE METAL:CH-Cert-repack
Inventory Date:							
Local ID:	ID-RFO-481T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal
Waste Matrix Code:	S5110						

AS-GENERATED EPA CODES

APP8, F005, F002, F001, D022, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	162.0	0.0	339.0
Aluminum-base Metal/Alloys:	9.6	0.0	48.1
Other Metals/Alloys:	122.0	0.0	477.0
Other Inorganic Material:	31.7	13.1	54.6
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.2
Rubber:	0.0	0.0	0.0
Plastics:	16.4	4.4	39.3
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

217

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-235	2.02E-06
Pu-242	5.14E-05
Pu-241	1.90E+01
Pu-240	7.14E-01
Pu-239	3.15E+00
Pu-238	1.11E-01
Am-241	7.51E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	294.8	0.0	0.0	0.0	0.0	294.8
Drum	111.5	0.0	0.0	0.0	0.0	111.5
Totals	406.3	0.0	0.0	0.0	0.0	406.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	406.8	0.0	0.0	0.0	0.0	406.8
Totals	406.8	0.0	0.0	0.0	0.0	406.8

As-Generated Form: Stored: 406.3 Projected: 0.0 Total: 406.3

Final Waste Form: Stored: 406.8 Projected: 0.0 Total: 406.8

WASTE STREAM DESCRIPTION	This waste comes from the Rocky Flats Plant. It consists of the smaller pieces of the waste described under Content Code 480 that have been washed with hot water to recover plutonium. *The waste is packaged in standard RFP fashion. Sharp metal edges are taped before packaging. Some lead-lined containers are included.*
WASTE STREAM SOURCE	This record represents the [CH-Cert-repack] portion (91.76%) of the MWIR waste stream, [LEACHED NONSPECIAL SOURCE METAL] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W294, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	*N/A*
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W294	Handling:	RH	NMVP #:	N/A	Stream Name:	LEACHED NONSPECIAL SOURCE METAL:RH-Cert-repack	Inventory Date:	
Local ID:	ID-RFO-481T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5110

AS-GENERATED EPA CODES

APP8, F005, F002, F001, D022, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	113.0	0.0	236.4
Aluminum-base Metal/Alloys:	6.7	0.0	33.5
Other Metals/Alloys:	85.1	0.0	332.7
Other Inorganic Material:	22.1	9.1	38.1
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.2
Rubber:	0.0	0.0	0.0
Plastics:	11.4	3.0	27.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

217

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	2.02E-06
Pu-242	5.14E-05
Pu-241	1.90E+01
Pu-240	7.14E-01
Pu-239	3.15E+00
Pu-238	1.11E-01
Am-241	7.51E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	5.9	0.0	0.0	0.0	0.0	5.9
Totals	5.9	0.0	0.0	0.0	0.0	5.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	9.5	0.0	0.0	0.0	0.0	9.5
Totals	9.5	0.0	0.0	0.0	0.0	9.5

As-Generated Form: Stored: 5.9 Projected: 0.0 Total: 5.9

Final Waste Form: Stored: 9.5 Projected: 0.0 Total: 9.5

WASTE STREAM DESCRIPTION	This waste comes from the Rocky Flats Plant. It consists of the smaller pieces of the waste described under Content Code 480 that have been washed with hot water to recover plutonium. The waste is packaged in standard RFP fashion. Sharp metal edges are taped before packaging. Some lead-lined containers are included.
WASTE STREAM SOURCE	This record represents the [RH-Cert-repack] portion (1.34%) of the MWIR waste stream, [LEACHED NONSPECIAL SOURCE METAL] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W294, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W294	Handling:	CH	NMVP #:	N/A	Stream Name:	LEACHED NONSPECIAL SOURCE METAL:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-481T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5110

AS-GENERATED EPA CODES

APP8, F005, F002, F001, D022, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	142.7	0.0	298.7
Aluminum-base Metal/Alloys:	8.5	0.0	42.4
Other Metals/Alloys:	107.5	0.0	420.3
Other Inorganic Material:	27.9	11.5	48.1
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.2
Rubber:	0.0	0.0	0.0
Plastics:	14.4	3.8	34.6
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	148.1		
Packaging Material Plastic:	32.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

217

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	2.02E-06
Pu-242	5.14E-05
Pu-241	1.90E+01
Pu-240	7.14E-01
Pu-239	3.15E+00
Pu-238	1.11E-01
Am-241	7.51E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	30.1	0.0	0.0	0.0	0.0	30.1
Totals	30.1	0.0	0.0	0.0	0.0	30.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	26.4	0.0	0.0	0.0	0.0	26.4
SWB used to overpack 55 gallon drums	7.1	0.0	0.0	0.0	0.0	7.1
Totals	33.5	0.0	0.0	0.0	0.0	33.5

As-Generated Form: Stored: 30.1 Projected: 0.0 Total: 30.1

Final Waste Form: Stored: 33.5 Projected: 0.0 Total: 33.5

WASTE STREAM DESCRIPTION	This waste comes from the Rocky Flats Plant. It consists of the smaller pieces of the waste described under Content Code 480 that have been washed with hot water to recover plutonium. The waste is packaged in standard RFP fashion. Sharp metal edges are taped before packaging. Some lead-lined containers are included.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (6.7%) of the MWIR waste stream, [LEACHED NONSPECIAL SOURCE METAL] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W294, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W296	Handling:	CH	NMVP #:	117	Stream Name:	NONSPECIAL SOURCE METAL:CH-Cert-repack	Inventory Date:	
Local ID:	ID-RFO-480T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5112

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D028, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	58.7	0.0	266.0
Aluminum-base Metal/Alloys:	3.9	0.0	32.8
Other Metals/Alloys:	160.0	0.0	538.0
Other Inorganic Material:	18.8	0.0	59.5
Vitrified:	0.0	0.0	0.0
Cellulosics:	3.9	0.0	16.4
Rubber:	1.8	0.0	9.8
Plastics:	26.3	4.4	49.2
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

117. 217

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
U-235	1.12E-07
Pu-242	1.19E-05
Pu-241	4.40E+00
Pu-240	1.65E-01
Pu-239	7.29E-01
Pu-238	2.57E-02
Np-237	3.07E-06
Am-241	2.54E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	3449.0	0.0	0.0	0.0	0.0	3449.0
Totals	3449.0	0.0	0.0	0.0	0.0	3449.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3450.3	0.0	0.0	0.0	0.0	3450.3
Totals	3450.3	0.0	0.0	0.0	0.0	3450.3

As-Generated Form: Stored: 3449.0 Projected: 0.0 Total: 3449.0

Final Waste Form: Stored: 3450.3 Projected: 0.0 Total: 3450.3

WASTE STREAM DESCRIPTION	The waste comes from the Rocky Flats Plant. It consists of nonline-and line-generated wastes. The waste may be in the form of gloveboxes, glovebox windows, furnaces, lathes, drill presses, ducting, piping, angle iron, tanks, downdraft tables, part carriers, respirator filters, ultrasonic cleaners, control panels, electronic instrumentation , vacuum sweepers, pumps, motors, railing, stairs, metal racks and trays, hotplates, empty metal produce and paint cans, carts, power tools (saws, drills, etc.), hand tools (wrenches, hammers, saws, chisels, gauges, etc.), chairs, desks, tables, typewriters, filing cabinets, crushed 55-gallon drums, etc. The waste may also include limited amounts of combustible wastes. The waste is packaged in standard RFP fashion. Sharp metal edges are taped before packaging. Some lead lined containers are included.
WASTE STREAM SOURCE	This record represents the [CH-Cert-repack] portion (65.8%) of the MWIR waste stream, [NONSPECIAL SOURCE METAL] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W296, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W296	Handling:	CH	NMVP #:	N/A	Stream Name:	NONSPECIAL SOURCE METAL:CH-Uncert	Inventory Date:	
Local ID:	ID-RFO-480T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5112

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D028, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	3.72E-07
Pu-242	3.97E-05
Pu-241	1.47E+01
Pu-240	5.51E-01
Pu-239	2.43E+00
Pu-238	8.58E-02
Np-237	1.02E-05
Am-241	8.45E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	1578.7	0.0	0.0	0.0	0.0	1578.7
Drum	155.2	0.0	0.0	0.0	0.0	155.2
Totals	1733.8	0.0	0.0	0.0	0.0	1733.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	520.2	0.0	0.0	0.0	0.0	520.2
Totals	520.2	0.0	0.0	0.0	0.0	520.2

As-Generated Form: Stored: 1733.8 Projected: 0.0 Total: 1733.8

Final Waste Form: Stored: 520.2 Projected: 0.0 Total: 520.2

WASTE STREAM DESCRIPTION	The waste comes from the Rocky Flats Plant. It consists of nonline-and line-generated wastes. The waste may be in the form of gloveboxes, glovebox windows, furnaces, lathes, drill presses, ducting, piping, angle iron, tanks, downdraft tables, part carriers, respirator filters, ultrasonic cleaners, control panels, electronic instrumentation , vacuum sweepers, pumps, motors, railing, stairs, metal racks and trays, hotplates, empty metal produce and paint cans, carts, power tools (saws, drills, etc.), hand tools (wrenches, hammers, saws, chisels, gauges, etc.), chairs, desks, tables, typewriters, filing cabinets, crushed 55-gallon drums, etc. The waste may also include limited amounts of combustible wastes. The waste is packaged in standard RFP fashion. Sharp metal edges are taped before packaging. Some lead lined containers are included.
WASTE STREAM SOURCE	This record represents the [CH-Uncert] portion (33.06%) of the MWIR waste stream, [NONSPECIAL SOURCE METAL] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W296, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W296	Handling:	RH	NMVP #:	117	Stream Name:	NONSPECIAL SOURCE METAL:RH-Cert-repack	Inventory Date:	
Local ID:	ID-RFO-480T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5112

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D028, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	40.9	0.0	185.5
Aluminum-base Metal/Alloys:	2.7	0.0	22.9
Other Metals/Alloys:	111.6	0.0	375.2
Other Inorganic Material:	13.1	0.0	41.5
Vitrified:	0.0	0.0	0.0
Cellulosics:	2.7	0.0	11.4
Rubber:	1.2	0.0	6.8
Plastics:	18.3	3.0	34.3
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

117, 217

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	1.12E-07
Pu-242	1.19E-05
Pu-241	4.40E+00
Pu-240	1.65E-01
Pu-239	7.29E-01
Pu-238	2.57E-02
Np-237	3.07E-06
Am-241	2.54E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	8.7	0.0	0.0	0.0	0.0	8.7
Totals	8.7	0.0	0.0	0.0	0.0	8.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	13.1	0.0	0.0	0.0	0.0	13.1
Totals	13.1	0.0	0.0	0.0	0.0	13.1

As-Generated Form: Stored: 8.7 Projected: 0.0 Total: 8.7

Final Waste Form: Stored: 13.1 Projected: 0.0 Total: 13.1

WASTE STREAM DESCRIPTION	The waste comes from the Rocky Flats Plant. It consists of nonline-and line-generated wastes. The waste may be in the form of gloveboxes, glovebox windows, furnaces, lathes, drill presses, ducting, piping, angle iron, tanks, downdraft tables, part carriers, respirator filters, ultrasonic cleaners, control panels, electronic instrumentation , vacuum sweepers, pumps, motors, railing, stairs, metal racks and trays, hotplates, empty metal produce and paint cans, carts, power tools (saws, drills, etc.), hand tools (wrenches, hammers, saws, chisels, gauges, etc.), chairs, desks, tables, typewriters, filing cabinets, crushed 55-gallon drums, etc. The waste may also include limited amounts of combustible wastes. The waste is packaged in standard RFP fashion. Sharp metal edges are taped before packaging. Some lead lined containers are included.
WASTE STREAM SOURCE	This record represents the [RH-Cert-repack] portion (.16%) of the MWIR waste stream, [NONSPECIAL SOURCE METAL] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W296, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W296	Handling:	RH	NMVP #:	N/A	Stream Name:	NONSPECIAL SOURCE METAL:RH-Uncert	Inventory Date:	
Local ID:	ID-RFO-480T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5112

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D028, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	3.72E-07
Pu-242	3.97E-05
Pu-241	1.47E+01
Pu-240	5.51E-01
Pu-239	2.43E+00
Pu-238	8.58E-02
Np-237	1.02E-05
Am-241	8.45E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	8.7	0.0	0.0	0.0	0.0	8.7
Totals	8.7	0.0	0.0	0.0	0.0	8.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	4.7	0.0	0.0	0.0	0.0	4.7
Totals	4.7	0.0	0.0	0.0	0.0	4.7

As-Generated Form: Stored: 8.7 Projected: 0.0 Total: 8.7

Final Waste Form: Stored: 4.7 Projected: 0.0 Total: 4.7

WASTE STREAM DESCRIPTION	The waste comes from the Rocky Flats Plant. It consists of nonline-and line-generated wastes. The waste may be in the form of gloveboxes, glovebox windows, furnaces, lathes, drill presses, ducting, piping, angle iron, tanks, downdraft tables, part carriers, respirator filters, ultrasonic cleaners, control panels, electronic instrumentation , vacuum sweepers, pumps, motors, railing, stairs, metal racks and trays, hotplates, empty metal produce and paint cans, carts, power tools (saws, drills, etc.), hand tools (wrenches, hammers, saws, chisels, gauges, etc.), chairs, desks, tables, typewriters, filing cabinets, crushed 55-gallon drums, etc. The waste may also include limited amounts of combustible wastes. The waste is packaged in standard RFP fashion. Sharp metal edges are taped before packaging. Some lead lined containers are included.
WASTE STREAM SOURCE	This record represents the [RH-Uncert] portion (.16%) of the MWIR waste stream, [NONSPECIAL SOURCE METAL] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W296, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W296	Handling:	CH	NMVP #:	117	Stream Name:	NONSPECIAL SOURCE METAL:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-480T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5112

AS-GENERATED EPA CODES

APP8, F005, F003, F002, F001, D029, D028, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	51.9	0.0	235.1
Aluminum-base Metal/Alloys:	3.4	0.0	29.0
Other Metals/Alloys:	141.4	0.0	475.5
Other Inorganic Material:	16.6	0.0	52.6
Vitrified:	0.0	0.0	0.0
Cellulosics:	3.4	0.0	14.5
Rubber:	1.6	0.0	8.7
Plastics:	23.2	3.9	43.5
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.7		
Packaging Material Plastic:	33.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

117, 217

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-235	1.12E-07
Pu-242	1.19E-05
Pu-241	4.40E+00
Pu-240	1.65E-01
Pu-239	7.29E-01
Pu-238	2.57E-02
Np-237	3.07E-06
Am-241	2.54E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	43.2	0.0	0.0	0.0	0.0	43.2
Totals	43.2	0.0	0.0	0.0	0.0	43.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	38.1	0.0	0.0	0.0	0.0	38.1
SWB used to overpack 55 gallon drums	9.9	0.0	0.0	0.0	0.0	9.9
Totals	48.0	0.0	0.0	0.0	0.0	48.0

As-Generated Form: Stored: 43.2 Projected: 0.0 Total: 43.2

Final Waste Form: Stored: 48.0 Projected: 0.0 Total: 48.0

WASTE STREAM DESCRIPTION	The waste comes from the Rocky Flats Plant. It consists of nonline-and line-generated wastes. The waste may be in the form of gloveboxes, glovebox windows, furnaces, lathes, drill presses, ducting, piping, angle iron, tanks, downdraft tables, part carriers, respirator filters, ultrasonic cleaners, control panels, electronic instrumentation , vacuum sweepers, pumps, motors, railing, stairs, metal racks and trays, hotplates, empty metal produce and paint cans, carts, power tools (saws, drills, etc.), hand tools (wrenches, hammers, saws, chisels, gauges, etc.), chairs, desks, tables, typewriters, filing cabinets, crushed 55-gallon drums, etc. The waste may also include limited amounts of combustible wastes. The waste is packaged in standard RFP fashion. Sharp metal edges are taped before packaging. Some lead lined containers are included.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (.82%) of the MWIR waste stream, [NONSPECIAL SOURCE METAL] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W296, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W298	Handling:	CH	NMVP #:	117	Stream Name:	TANTALUM:CH-Cert-repack	Inventory Date:	
Local ID:	ID-RFO-320T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5112

AS-GENERATED EPA CODES

APP8, F002, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	185.0	0.0	393.0
Aluminum-base Metal/Alloys:	6.3	0.0	22.9
Other Metals/Alloys:	40.7	0.0	200.0
Other Inorganic Material:	20.9	0.0	49.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	13.7	0.0	61.2
Rubber:	1.4	0.0	9.2
Plastics:	13.6	0.0	20.1
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

117, 217

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.97E-04
Pu-241	7.28E+01
Pu-240	2.73E+00
Pu-239	1.20E+01
Pu-238	4.25E-01
Am-241	1.20E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	6.3	0.0	0.0	0.0	0.0	6.3
Drum	48.3	0.0	0.0	0.0	0.0	48.3
Totals	54.7	0.0	0.0	0.0	0.0	54.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	54.7	0.0	0.0	0.0	0.0	54.7
Totals	54.7	0.0	0.0	0.0	0.0	54.7

As-Generated Form: Stored: 54.7 Projected: 0.0 Total: 54.7

Final Waste Form: Stored: 54.7 Projected: 0.0 Total: 54.7

WASTE STREAM DESCRIPTION	This waste comes from the Rocky Flats Plant. It consists of used tantalum crucibles, funnels, funnel inserts, and pour-rods. The waste is packaged in standard RFP fashion. Sharp metal edges are taped before packaging. Other metals may include tungsten, platinum, and lead. Some lead-lined containers are included.
WASTE STREAM SOURCE	This record represents the [CH-Cert-repack] portion (73.21%) of the MWIR waste stream, [TANTALUM] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W298, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W298	Handling:	RH	NMVP #:	117	Stream Name:	TANTALUM:RH-Cert-repack	Inventory Date:	
Local ID:	ID-RFO-320T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5112

AS-GENERATED EPA CODES

APP8, F002, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	129.0	0.0	274.1
Aluminum-base Metal/Alloys:	4.4	0.0	15.9
Other Metals/Alloys:	28.4	0.0	139.5
Other Inorganic Material:	14.6	0.0	34.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	9.6	0.0	42.7
Rubber:	1.0	0.0	6.4
Plastics:	9.5	0.0	14.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

117, 217

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.97E-04
Pu-241	7.28E+01
Pu-240	2.73E+00
Pu-239	1.20E+01
Pu-238	4.25E-01
Am-241	1.20E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	5.5	0.0	0.0	0.0	0.0	5.5
Totals	5.5	0.0	0.0	0.0	0.0	5.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	8.3	0.0	0.0	0.0	0.0	8.3
Totals	8.3	0.0	0.0	0.0	0.0	8.3

As-Generated Form: Stored: 5.5 Projected: 0.0 Total: 5.5

Final Waste Form: Stored: 8.3 Projected: 0.0 Total: 8.3

WASTE STREAM DESCRIPTION	This waste comes from the Rocky Flats Plant. It consists of used tantalum crucibles, funnels, funnel inserts, and pour-rods. The waste is packaged in standard RFP fashion. Sharp metal edges are taped before packaging. Other metals may include tungsten, platinum, and lead. Some lead-lined containers are included.
WASTE STREAM SOURCE	This record represents the [RH-Cert-repack] portion (7.32%) of the MWIR waste stream, [TANTALUM] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W298, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W298	Handling:	CH	NMVP #:	117	Stream Name:	TANTALUM:Direct Ship	Inventory Date:
Local ID:	ID-RFO-320T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code: S5112

AS-GENERATED EPA CODES

APP8, F002, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	162.6	0.0	345.5
Aluminum-base Metal/Alloys:	5.5	0.0	20.1
Other Metals/Alloys:	35.8	0.0	175.8
Other Inorganic Material:	18.4	0.0	43.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	12.0	0.0	53.8
Rubber:	1.2	0.0	8.1
Plastics:	12.0	0.0	17.7
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	148.4		
Packaging Material Plastic:	32.8		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

117, 217

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.97E-04
Pu-241	7.28E+01
Pu-240	2.73E+00
Pu-239	1.20E+01
Pu-238	4.25E-01
Am-241	1.20E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	13.6	0.0	0.0	0.0	0.0	13.6
Totals	13.6	0.0	0.0	0.0	0.0	13.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	12.1	0.0	0.0	0.0	0.0	12.1
SWB used to overpack 55 gallon drums	3.3	0.0	0.0	0.0	0.0	3.3
Totals	15.4	0.0	0.0	0.0	0.0	15.4

As-Generated Form: Stored: 13.6 Projected: 0.0 Total: 13.6

Final Waste Form: Stored: 15.4 Projected: 0.0 Total: 15.4

WASTE STREAM DESCRIPTION	This waste comes from the Rocky Flats Plant. It consists of used tantalum crucibles, funnels, funnel inserts, and pour-rods. The waste is packaged in standard RFP fashion. Sharp metal edges are taped before packaging. Other metals may include tungsten, platinum, and lead. Some lead-lined containers are included.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (18.3%) of the MWIR waste stream, [TANTALUM] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W298, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W298	Handling:	CH	NMVP #:	N/A	Stream Name:	TANTALUM:CH-Uncert	Inventory Date:
Local ID:	ID-RFO-320T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code: S5112

AS-GENERATED EPA CODES

APP8, F002, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	6.55E-04
Pu-241	2.43E+02
Pu-240	9.11E+00
Pu-239	4.02E+01
Pu-238	1.42E+00
Am-241	4.01E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

WASTE STREAM DESCRIPTION	This waste comes from the Rocky Flats Plant. It consists of used tantalum crucibles, funnels, funnel inserts, and pour-rods. The waste is packaged in standard RFP fashion. Sharp metal edges are taped before packaging. Other metals may include tungsten, platinum, and lead. Some lead-lined containers are included.
WASTE STREAM SOURCE	This record represents the [CH-Uncert] portion (1.17%) of the MWIR waste stream, [TANTALUM] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W298, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W300	Handling:	CH	NMVP #:	N/A	Stream Name:	METAL WASTE;Cert-repack
Local ID:	ID-RFO-117T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal

Inventory Date:

Waste Matrix Code: S5112

AS-GENERATED EPA CODES

APP8, F002, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	256.1	256.1	256.1
Aluminum-base Metal/Alloys:	27.8	27.8	27.8
Other Metals/Alloys:	24.7	24.7	24.7
Other Inorganic Material:	29.3	2.3	29.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	7.4	0.0	45.3
Rubber:	0.0	0.0	0.0
Plastics:	15.1	0.0	67.6
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

117

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-238	4.45E-10
U-235	3.58E-07
Pu-242	2.87E-05
Pu-241	1.06E+01
Pu-240	3.99E-01
Pu-239	1.76E+00
Pu-238	6.21E-02
Am-241	1.22E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	1493.1	0.0	0.0	0.0	0.0	1493.1
Drum	16.3	0.0	0.0	0.0	0.0	16.3
Totals	1509.4	0.0	0.0	0.0	0.0	1509.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1509.5	0.0	0.0	0.0	0.0	1509.5
Totals	1509.5	0.0	0.0	0.0	0.0	1509.5

As-Generated Form: Stored: 1509.4 Projected: 0.0 Total: 1509.4

Final Waste Form: Stored: 1509.5 Projected: 0.0 Total: 1509.5

WASTE STREAM DESCRIPTION	TRU metal waste consists of discarded metal. The IDCs packaged and included in 117 are 320, 321, 480, and 488.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (99.73%) of the MWIR waste stream, [METAL WASTE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W300, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W300	Handling:	CH	NMVP #:	N/A	Stream Name:	METAL WASTE:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-117T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5112

AS-GENERATED EPA CODES

APP8, F002, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	227.2	227.2	227.2
Aluminum-base Metal/Alloys:	24.7	24.7	24.7
Other Metals/Alloys:	21.9	21.9	21.9
Other Inorganic Material:	26.0	2.0	26.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	6.6	0.0	40.2
Rubber:	0.0	0.0	0.0
Plastics:	13.4	0.0	60.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.3		
Packaging Material Plastic:	33.1		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

117

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-238	4.45E-10
U-235	3.58E-07
Pu-242	2.87E-05
Pu-241	1.06E+01
Pu-240	3.99E-01
Pu-239	1.76E+00
Pu-238	6.21E-02
Am-241	1.22E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	4.0	0.0	0.0	0.0	0.0	4.0
Totals	4.0	0.0	0.0	0.0	0.0	4.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.7	0.0	0.0	0.0	0.0	3.7
SWB used to overpack 55 gallon drums	0.9	0.0	0.0	0.0	0.0	0.9
Totals	4.7	0.0	0.0	0.0	0.0	4.7

As-Generated Form: Stored: 4.0 Projected: 0.0 Total: 4.0

Final Waste Form: Stored: 4.7 Projected: 0.0 Total: 4.7

WASTE STREAM DESCRIPTION	TRU metal waste consists of discarded metal. The IDCs packaged and included in 117 are 320, 321, 480, and 488.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (.27%) of the MWIR waste stream, [METAL WASTE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W300, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W302	Handling:	CH	NMVP #:	N/A	Stream Name:	NONCOMPRESSIBLE, NONCOMBUSTIBLE:Direct Ship
Inventory Date:							
Local ID:	ID-BTO-020T	Type:	MTRU	Generator Site:	BT	Final Waste Form:	Heterogeneous
Waste Matrix Code:	S5420						

AS-GENERATED EPA CODES

F002, F001, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	85.3	0.0	1449.4
Aluminum-base Metal/Alloys:	0.0	0.0	1.4
Other Metals/Alloys:	0.1	0.0	20.1
Other Inorganic Material:	2.1	0.0	21.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	71.7	0.0	163.9
Rubber:	6.5	0.0	14.5
Plastics:	57.5	0.0	132.1
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.3		
Packaging Material Plastic:	33.1		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-233	1.33E-01
PU-239	1.42E-01
Am-241	7.87E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	21.2	0.0	0.0	0.0	0.0	21.2
Totals	21.2	0.0	0.0	0.0	0.0	21.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	18.7	0.0	0.0	0.0	0.0	18.7
SWB used to overpack 55 gallon drums	4.7	0.0	0.0	0.0	0.0	4.7
Totals	23.4	0.0	0.0	0.0	0.0	23.4

As-Generated Form: Stored: 21.2 Projected: 0.0 Total: 21.2

Final Waste Form: Stored: 23.4 Projected: 0.0 Total: 23.4

WASTE STREAM DESCRIPTION	This waste stream, generated at Bettis Atomic Power Laboratory, contains noncompressible and noncombustible items such as absolute filters, solidified chemical waste, contaminated metal equipment, furnace brick, and highly contaminated glovebox equipment. Metal scrap could include bars, sheet, fixtures, small equipment tools, etc. made of carbon steel, stainless steel, inconnel, aluminum, copper, brass, and zirconium. Chemical wastes include spent chemical solutions and associated solids from the isotope and isotopic dilution analysis of nuclear fuel specimens. The residues were neutralized before being either mixed with absorbent material or solidified. The organic content is less than 14 lb/ft3. Although there may be some particulate material in the waste from absolute filters, the levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in the waste. Trace amounts of nitric acid or organic contaminants may be present. Individual waste items are separately packaged in plastic wrapping. Depending on size, some wrapped items are placed in (a) 3-1/4-inch diameter by 7-inches high screw-top, tin-plated steel cans, placed inside roll-seamed juice cans, or (b) larger 4-3/8-inch diameter by 20 to 24-inch high tin-plated steel cans. Chemical solutions are neutralized to a pH between 6-8 and mixed with "absorbal" in PE bottles or solidified in metal cans (which are wrapped in plastic). These items are then placed inside prepared 55-gallon drums lined with 90-mil liners. Each drum was assayed by calculated weight differences, chemical analysis, or using an assay gauge.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [NONCOMPRESSIBLE, NONCOMBUSTIBLE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W302, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W302	Handling:	CH	NMVP #:	N/A	Stream Name:	NONCOMPRESSIBLE, NONCOMBUSTIBLE:Cert-repack	Inventory Date:	
Local ID:	ID-BTO-020T	Type:	MTRU	Generator Site:	BT	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5420

AS-GENERATED EPA CODES

F002, F001, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	96.2	0.0	1634.6
Aluminum-base Metal/Alloys:	0.0	0.0	1.6
Other Metals/Alloys:	0.1	0.0	22.7
Other Inorganic Material:	2.4	0.0	24.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	80.9	0.0	184.8
Rubber:	7.3	0.0	16.4
Plastics:	64.9	0.0	149.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-233	1.33E-01
PU-239	1.42E-01
Am-241	7.87E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	84.8	0.0	0.0	0.0	0.0	84.8
Totals	84.8	0.0	0.0	0.0	0.0	84.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	84.9	0.0	0.0	0.0	0.0	84.9
Totals	84.9	0.0	0.0	0.0	0.0	84.9

As-Generated Form: Stored: 84.8 Projected: 0.0 Total: 84.8

Final Waste Form: Stored: 84.9 Projected: 0.0 Total: 84.9

WASTE STREAM DESCRIPTION	This waste stream, generated at Bettis Atomic Power Laboratory, contains noncompressible and noncombustible items such as absolute filters, solidified chemical waste, contaminated metal equipment, furnace brick, and highly contaminated glovebox equipment. Metal scrap could include bars, sheet, fixtures, small equipment tools, etc. made of carbon steel, stainless steel, inconnel, aluminum, copper, brass, and zirconium. Chemical wastes include spent chemical solutions and associated solids from the isotope and isotopic dilution analysis of nuclear fuel specimens. The residues were neutralized before being either mixed with absorbent material or solidified. The organic content is less than 14 lb/ft3. Although there may be some particulate material in the waste from absolute filters, the levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in the waste. Trace amounts of nitric acid or organic contaminants may be present. Individual waste items are separately packaged in plastic wrapping. Depending on size, some wrapped items are placed in (a) 3-1/4-inch diameter by 7-inches high screw-top, tin-plated steel cans, placed inside roll-seamed juice cans, or (b) larger 4-3/8-inch diameter by 20 to 24-inch high tin-plated steel cans. Chemical solutions are neutralized to a pH between 6-8 and mixed with "absorbal" in PE bottles or solidified in metal cans (which are wrapped in plastic). These items are then placed inside prepared 55-gallon drums lined with 90-mil liners. Each drum was assayed by calculated weight differences, chemical analysis, or using an assay gauge.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [NONCOMPRESSIBLE, NONCOMBUSTIBLE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W302, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W304	Handling:	CH	NMVP #:	N/A	Stream Name:	NONCOMBUSTIBLE EQUIPMENT DRUMS:Direct Ship	Inventory Date:	
Local ID:	ID-MDO-825TN	Type:	TRU	Generator Site:	MD	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5112

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	213.5	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	39.0	0.0	0.0
Other Inorganic Material:	83.6	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	30.2	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	1.8	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	148.5		
Packaging Material Plastic:	32.8		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.69E-06
Pu-241	1.78E-01
Pu-240	6.53E-02
Pu-239	3.09E-01
Pu-238	5.79E+01
Pu-236	2.25E-04

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	7.6	0.0	0.0	0.0	0.0	7.6
Totals	7.6	0.0	0.0	0.0	0.0	7.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	6.9	0.0	0.0	0.0	0.0	6.9
SWB used to overpack 55 gallon drums	1.9	0.0	0.0	0.0	0.0	1.9
Totals	8.8	0.0	0.0	0.0	0.0	8.8

As-Generated Form: Stored: 7.6 Projected: 0.0 Total: 7.6

Final Waste Form: Stored: 8.8 Projected: 0.0 Total: 8.8

WASTE STREAM DESCRIPTION	This waste stream, generated at Mound Laboratory, is similar to content code 824 except that the waste items are smaller and can fit inside drums. The stream consists of noncombustible wastes such as small tanks, piping, small valves, tools, hot plates, presses, grinders, metallurgical polishers, ringstands, concrete, floor tile, sheet metal, electric motors, pumps, metallurgical presses, dissolvers, ladders, vacuum sweeper filters, sweeper hose, and glass. Limited amounts of combustible wastes such as plastic tanks are also included. The organic content is less than 14 lb/ft3. Respirable fines should be within limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. Some emptied cylinders and fire extinguishers with opened valves are included in the waste. The waste stream is packaged in drums except for one standard sized box, which should be correctly labeled content code 824. Some items are wiped down prior to packaging. Each item is generally single or double contained in plastic. Florco absorbent is added to the bottom of each drum. Plywood spacers are added between the drum liner and the drum lid. Each barrel is assayed.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (11.42%) of the MWIR waste stream, [NONCOMBUSTIBLE EQUIPMENT DRUMS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W304, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W304	Handling:	CH	NMVP #:	N/A	Stream Name:	NONCOMBUSTIBLE EQUIPMENT DRUMS:Cert-repack
Inventory Date:							
Local ID:	ID-MDO-825TN	Type:	TRU	Generator Site:	MD	Final Waste Form:	Uncategorized Metal
Waste Matrix Code:	S5112						

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	243.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	44.4	0.0	0.0
Other Inorganic Material:	95.1	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	34.4	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	2.1	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-242	1.69E-06
Pu-241	1.78E-01
Pu-240	6.53E-02
Pu-239	3.09E-01
Pu-238	5.79E+01
Pu-236	2.25E-04

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	28.5	0.0	0.0	0.0	0.0	28.5
Drum	30.3	0.0	0.0	0.0	0.0	30.3
Totals	58.8	0.0	0.0	0.0	0.0	58.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	59.1	0.0	0.0	0.0	0.0	59.1
Totals	59.1	0.0	0.0	0.0	0.0	59.1

As-Generated Form: Stored: 58.8 Projected: 0.0 Total: 58.8

Final Waste Form: Stored: 59.1 Projected: 0.0 Total: 59.1

WASTE STREAM DESCRIPTION	This waste stream, generated at Mound Laboratory, is similar to content code 824 except that the waste items are smaller and can fit inside drums. The stream consists of noncombustible wastes such as small tanks, piping, small valves, tools, hot plates, presses, grinders, metallurgical polishers, ringstands, concrete, floor tile, sheet metal, electric motors, pumps, metallurgical presses, dissolvers, ladders, vacuum sweeper filters, sweeper hose, and glass. Limited amounts of combustible wastes such as plastic tanks are also included. The organic content is less than 14 lb/ft3. Respirable fines should be within limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. Some emptied cylinders and fire extinguishers with opened valves are included in the waste. The waste stream is packaged in drums except for one standard sized box, which should be correctly labeled content code 824. Some items are wiped down prior to packaging. Each item is generally single or double contained in plastic. Florco absorbent is added to the bottom of each drum. Plywood spacers are added between the drum liner and the drum lid. Each barrel is assayed.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (88.58%) of the MWIR waste stream, [NONCOMBUSTIBLE EQUIPMENT DRUMS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W304, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W305	Handling:	CH	NMVP #:	N/A	Stream Name:	PLASTIC, TYGON, MANIPULATOR BOOTS, ETC.:Cert-repack
Inventory Date:							
Local ID:	ID-MDO-804TN	Type:	TRU	Generator Site:	MD	Final Waste Form:	Combustible
Waste Matrix Code:	S5440						

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	55.3	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	6.0	0.0	0.0
Other Inorganic Material:	12.5	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	31.3	0.0	0.0
Rubber:	39.9	0.0	0.0
Plastics:	95.9	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-238	1.02E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	37.3	0.0	0.0	0.0	0.0	37.3
Totals	37.3	0.0	0.0	0.0	0.0	37.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	37.4	0.0	0.0	0.0	0.0	37.4
Totals	37.4	0.0	0.0	0.0	0.0	37.4

As-Generated Form: Stored: 37.3 Projected: 0.0 Total: 37.3

Final Waste Form: Stored: 37.4 Projected: 0.0 Total: 37.4

WASTE STREAM DESCRIPTION	This waste stream is from Mound Laboratory and consists of various types of plastics (PVC, PE tygon, etc.) in the form of tubing, piping, sample vials, gaskets, manipulator, boots, etc. Limited amounts of other combustible wastes from content codes 801, and 802 may also be included. One drum contains content code 832, liquid mercury chich can be easily removed and is not included in the waste matrix composition. The wastes are primarily from D&D activities at the plutonium processing and research buildings. Waste was shipped only in 1977. Limited amounts of waste may be damp. The average waste organic material content usually exceeds 14 lb/ft3 for drums. Levels of fines from glove box cleaning should be within compressed gases, pyrophoric, toxic, or corrosive materials. Combustibles were packed into 1 gallon plastic coated cardboard cartons. Each carton was labeled, assayed and bagged into a sleeve bag which holds 5 cartons. Up to eight sleeve bags were placed in each drum. Drums were prepared according to post-1972 procedures.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [PLASTIC, TYGON, MANIPULATOR BOOTS, ETC.] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W305, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W305	Handling:	CH	NMVP #:	N/A	Stream Name:	PLASTIC, TYGON, MANIPULATOR BOOTS, ETC.:Direct Ship	Inventory Date:	
Local ID:	ID-MDO-804TN	Type:	TRU	Generator Site:	MD	Final Waste Form:	Combustible	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	48.4	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	5.3	0.0	0.0
Other Inorganic Material:	11.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	27.4	0.0	0.0
Rubber:	34.9	0.0	0.0
Plastics:	84.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	148.9		
Packaging Material Plastic:	32.7		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-238	1.02E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	9.3	0.0	0.0	0.0	0.0	9.3
Totals	9.3	0.0	0.0	0.0	0.0	9.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	8.3	0.0	0.0	0.0	0.0	8.3
SWB used to overpack 55 gallon drums	2.4	0.0	0.0	0.0	0.0	2.4
Totals	10.7	0.0	0.0	0.0	0.0	10.7

As-Generated Form: Stored: 9.3 Projected: 0.0 Total: 9.3

Final Waste Form: Stored: 10.7 Projected: 0.0 Total: 10.7

WASTE STREAM DESCRIPTION	This waste stream is from Mound Laboratory and consists of various types of plastics (PVC, PE tygon, etc.) in the form of tubing, piping, sample vials, gaskets, manipulator, boots, etc. Limited amounts of other combustible wastes from content codes 801, and 802 may also be included. One drum contains content code 832, liquid mercury chich can be easily removed and is not included in the waste matrix composition.. The wastes are primarily from D&D activities at the plutonium processing and research buildings. Waste was shipped only in 1977. Limited amounts of waste may be damp. The average waste organic material content usually exceeds 14 lb/ft3 for drums. Levels of fines from glove box cleaning should be within compressed gases, pyrophoric, toxic, or corrosive materials. Combustibles were packed into 1 gallon plastic coated cardboard cartons. Each carton was labeled, assayed and bagged into a sleeve bag which holds 5 cartons. Up to eight sleeve bags were placed in each drum. Drums were prepared according to post-1972 procedures.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [PLASTIC, TYGON, MANIPULATOR BOOTS, ETC.] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W305, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W306	Handling:	CH	NMVP #:	N/A	Stream Name:	PRE-73 DRUMS:CH-Uncert	Inventory Date:	
Local ID:	ID-RFO-9999T	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S9000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1246.6	0.0	0.0	0.0	0.0	1246.6
Totals	1246.6	0.0	0.0	0.0	0.0	1246.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	187.2	0.0	0.0	0.0	0.0	187.2
Totals	187.2	0.0	0.0	0.0	0.0	187.2

As-Generated Form: Stored: 1246.6 Projected: 0.0 Total: 1246.6

Final Waste Form: Stored: 187.2 Projected: 0.0 Total: 187.2

WASTE STREAM DESCRIPTION	This is not an official Item Description Code (IDC). It was created to represent IDC zero (0) wastes which were generated prior to 1973, but were not adequately tracked to presently identify specific waste streams. As the mission at Rocky Flats changed very little during the years of operation, it is expected that waste streams generated after 1973 are similar to the pre-1973 waste streams.
WASTE STREAM SOURCE	This record represents the [CH-Uncert] portion (27.63%) of the MWIR waste stream, [PRE-73 DRUMS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W306, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	This waste is from two early retrieval projects (IDC 000) or was received prior to 1973 (IDC 9999) when waste tracking on a container basis started. It is expected that when the waste is retrieved and examined, it can be properly assigned to an existing IDC.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W306	Handling:	CH	NMVP #:	N/A	Stream Name:	PRE-73 DRUMS:CH-Cert-repack	Inventory Date:	
Local ID:	ID-RFO-9999T	Type:	TRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S9000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	96.2	0.0	1634.6
Aluminum-base Metal/Alloys:	0.0	0.0	1.6
Other Metals/Alloys:	0.1	0.0	22.7
Other Inorganic Material:	2.4	0.0	24.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	80.9	0.0	184.8
Rubber:	7.3	0.0	16.4
Plastics:	64.9	0.0	149.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	2361.3	0.0	0.0	0.0	0.0	2361.3
Totals	2361.3	0.0	0.0	0.0	0.0	2361.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2361.2	0.0	0.0	0.0	0.0	2361.2
Totals	2361.2	0.0	0.0	0.0	0.0	2361.2

As-Generated Form: Stored: 2361.3 Projected: 0.0 Total: 2361.3

Final Waste Form: Stored: 2361.2 Projected: 0.0 Total: 2361.2

WASTE STREAM DESCRIPTION	This is not an official Item Description Code (IDC). It was created to represent IDC zero (0) wastes which were generated prior to 1973, but were not adequately tracked to presently identify specific waste streams. As the mission at Rocky Flats changed very little during the years of operation, it is expected that waste streams generated after 1973 are similar to the pre-1973 waste streams.
WASTE STREAM SOURCE	This record represents the [CH-Cert-repack] portion (52.33%) of the MWIR waste stream, [PRE-73 DRUMS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W306, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	This waste is from two early retrieval projects (IDC 000) or was received prior to 1973 (IDC 9999) when waste tracking on a container basis started. It is expected that when the waste is retrieved and examined, it can be properly assigned to an existing IDC.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W306	Handling:	RH	NMVP #:	N/A	Stream Name:	PRE-73 DRUMS:RH-Uncert	Inventory Date:	
Local ID:	ID-RFO-9999T	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S9000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	1.2	0.0	0.0	0.0	0.0	1.2
Totals	1.2	0.0	0.0	0.0	0.0	1.2

As-Generated Form: Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form: Stored: 1.2 Projected: 0.0 Total: 1.2

WASTE STREAM DESCRIPTION	This is not an official Item Description Code (IDC). It was created to represent IDC zero (0) wastes which were generated prior to 1973, but were not adequately tracked to presently identify specific waste streams. As the mission at Rocky Flats changed very little during the years of operation, it is expected that waste streams generated after 1973 are similar to the pre-1973 waste streams.
WASTE STREAM SOURCE	This record represents the [RH-Uncert] portion (.02%) of the MWIR waste stream, [PRE-73 DRUMS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W306, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	This waste is from two early retrieval projects (IDC 000) or was received prior to 1973 (IDC 9999) when waste tracking on a container basis started. It is expected that when the waste is retrieved and examined, it can be properly assigned to an existing IDC.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W306	Handling:	RH	NMVP #:	N/A	Stream Name:	PRE-73 DRUMS:RH-Cert-repack	Inventory Date:
Local ID:	ID-RFO-9999T	Type:	TRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code: S9000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	67.5	0.0	1148.1
Aluminum-base Metal/Alloys:	0.0	0.0	1.1
Other Metals/Alloys:	0.1	0.0	15.9
Other Inorganic Material:	1.7	0.0	16.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	56.7	0.0	129.6
Rubber:	5.1	0.0	11.5
Plastics:	45.5	0.0	104.5
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	2.4	0.0	0.0	0.0	0.0	2.4
Totals	2.4	0.0	0.0	0.0	0.0	2.4

As-Generated Form: Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form: Stored: 2.4 Projected: 0.0 Total: 2.4

WASTE STREAM DESCRIPTION	This is not an official Item Description Code (IDC). It was created to represent IDC zero (0) wastes which were generated prior to 1973, but were not adequately tracked to presently identify specific waste streams. As the mission at Rocky Flats changed very little during the years of operation, it is expected that waste streams generated after 1973 are similar to the pre-1973 waste streams.
WASTE STREAM SOURCE	This record represents the [RH-Cert-repack] portion (.02%) of the MWIR waste stream, [PRE-73 DRUMS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W306, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	This waste is from two early retrieval projects (IDC 000) or was received prior to 1973 (IDC 9999) when waste tracking on a container basis started. It is expected that when the waste is retrieved and examined, it can be properly assigned to an existing IDC.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W306	Handling:	CH	NMVP #:	N/A	Stream Name:	PRE-73 DRUMS:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-9999T	Type:	TRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S9000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	96.2	0.0	1634.6
Aluminum-base Metal/Alloys:	0.0	0.0	1.6
Other Metals/Alloys:	0.1	0.0	22.7
Other Inorganic Material:	2.4	0.0	24.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	80.9	0.0	184.8
Rubber:	7.3	0.0	16.4
Plastics:	64.9	0.0	149.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	902.3	0.0	0.0	0.0	0.0	902.3
Totals	902.3	0.0	0.0	0.0	0.0	902.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	797.1	0.0	0.0	0.0	0.0	797.1
SWB used to overpack 55 gallon drums	201.8	0.0	0.0	0.0	0.0	201.8
Totals	*998.8*	*0.0*	*0.0*	*0.0*	*0.0*	*998.8*

As-Generated Form: Stored: 902.3 Projected: 0.0 Total: 902.3

Final Waste Form: Stored: 998.8 Projected: 0.0 Total: 998.8

WASTE STREAM DESCRIPTION	This is not an official Item Description Code (IDC). It was created to represent IDC zero (0) wastes which were generated prior to 1973, but were not adequately tracked to presently identify specific waste streams. As the mission at Rocky Flats changed very little during the years of operation, it is expected that waste streams generated after 1973 are similar to the pre-1973 waste streams.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [PRE-73 DRUMS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W306, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	This waste is from two early retrieval projects (IDC 000) or was received prior to 1973 (IDC 9999) when waste tracking on a container basis started. It is expected that when the waste is retrieved and examined, it can be properly assigned to an existing IDC.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W308	Handling:	CH	NMVP #:	N/A	Stream Name:	NOT RECORDED - UNKNOWN:CH-Uncertifiable
Inventory Date:							
Local ID:	ID-RFO-000T	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal
Waste Matrix Code:	S9000						

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	4.03E-06
Pu-241	1.49E+00
Pu-240	5.60E-02
Pu-239	2.44E+00
Pu-238	3.23E-01
Am-241	5.67E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bin	252.0	0.0	0.0	0.0	0.0	252.0
Drum	3104.1	0.0	0.0	0.0	0.0	3104.1
Totals	3356.1	0.0	0.0	0.0	0.0	3356.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	503.6	0.0	0.0	0.0	0.0	503.6
Totals	503.6	0.0	0.0	0.0	0.0	503.6

As-Generated Form: Stored: 3356.1 Projected: 0.0 Total: 3356.1

Final Waste Form: Stored: 503.6 Projected: 0.0 Total: 503.6

WASTE STREAM DESCRIPTION	This waste stream was received prior to 1973. As container specific information was not entered into the database prior to 1973, these wastes are uncategorized. It is expected to be similar to other Rocky Flats wastes received since 1973.
WASTE STREAM SOURCE	This record represents the [CH-Uncertifiable] portion (81.07%) of the MWIR waste stream, [NOT RECORDED - UNKNOWN] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W308, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	This waste is from two early retrieval projects (IDC 000) or was received prior to 1973 (IDC 9999) when waste tracking on a container basis started. It is expected that when the waste is retrieved and examined, it can be properly assigned to an existing IDC.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W308	Handling:	RH	NMVP #:	N/A	Stream Name:	NOT RECORDED - UNKNOWN:RH-Uncertifiable
Inventory Date:							
Local ID:	ID-RFO-000T	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal
Waste Matrix Code:	S9000						

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	4.03E-06
Pu-241	1.49E+00
Pu-240	5.60E-02
Pu-239	2.44E+00
Pu-238	3.23E-01
Am-241	5.67E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.5	0.0	0.0	0.0	0.0	1.5
Totals	1.5	0.0	0.0	0.0	0.0	1.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	1.2	0.0	0.0	0.0	0.0	1.2
Totals	1.2	0.0	0.0	0.0	0.0	1.2

As-Generated Form: Stored: 1.5 Projected: 0.0 Total: 1.5

Final Waste Form: Stored: 1.2 Projected: 0.0 Total: 1.2

WASTE STREAM DESCRIPTION	This waste stream was received prior to 1973. As container specific information was not entered into the database prior to 1973, these wastes are uncategorized. It is expected to be similar to other Rocky Flats wastes received since 1973.
WASTE STREAM SOURCE	This record represents the [RH-Uncertifiable] portion (.04%) of the MWIR waste stream, [NOT RECORDED - UNKNOWN] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W308, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	This waste is from two early retrieval projects (IDC 000) or was received prior to 1973 (IDC 9999) when waste tracking on a container basis started. It is expected that when the waste is retrieved and examined, it can be properly assigned to an existing IDC.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W308	Handling:	CH	NMVP #:	N/A	Stream Name:	NOT RECORDED - UNKNOWN:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-000T	Type:	TRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S9000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.3		
Packaging Material Plastic:	33.1		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-242	6.04E-07
Pu-241	2.24E-01
Pu-240	8.40E-03
Pu-239	3.66E-01
Pu-238	4.85E-02
Am-241	8.51E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	782.1	0.0	0.0	0.0	0.0	782.1
Totals	782.1	0.0	0.0	0.0	0.0	782.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	690.6	0.0	0.0	0.0	0.0	690.6
SWB used to overpack 55 gallon drums	174.4	0.0	0.0	0.0	0.0	174.4
Totals	864.9	0.0	0.0	0.0	0.0	864.9

As-Generated Form: Stored: 782.1 Projected: 0.0 Total: 782.1

Final Waste Form: Stored: 864.9 Projected: 0.0 Total: 864.9

WASTE STREAM DESCRIPTION	This waste stream was received prior to 1973. As container specific information was not entered into the database prior to 1973, these wastes are uncategorized. It is expected to be similar to other Rocky Flats wastes received since 1973.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (18.89%) of the M.WIR waste stream, [NOT RECORDED - UNKNOWN] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W308, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	This waste is from two early retrieval projects (IDC 000) or was received prior to 1973 (IDC 9999) when waste tracking on a container basis started. It is expected that when the waste is retrieved and examined, it can be properly assigned to an existing IDC.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W309	Handling:	CH	NMVP #:	N/A	Stream Name:	ORGANIC SETUPS, OIL SOLIDS:Uncert	Inventory Date:	
Local ID:	ID-RFO-003T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3114

AS-GENERATED EPA CODES

APP8, F004, F002, F001, D011, D005

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.35E-05
Pu-241	5.01E+00
Pu-240	1.88E-01
Pu-239	8.30E-01
Pu-238	2.93E-02
Am-241	1.04E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	216.7	0.0	0.0	0.0	0.0	216.7
Totals	216.7	0.0	0.0	0.0	0.0	216.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	108.6	0.0	0.0	0.0	0.0	108.6
Totals	108.6	0.0	0.0	0.0	0.0	108.6

As-Generated Form: Stored: 216.7 Projected: 0.0 Total: 216.7

Final Waste Form: Stored: 108.6 Projected: 0.0 Total: 108.6

WASTE STREAM DESCRIPTION	Organic setups are produced from treatment of liquid organic wastes generated by various plutonium and nonplutonium operations. The organic wastes are mixed with calcium silicate to form a grease of paste-like material. Small amounts of oil-dri absorbent are usually mixed with the waste. Organic wastes such as degreasing agents (primarily trichloroethane), lathe coolant (machining oil and carbon tetrachloride), and hydraulic oils are generated primarily by plutonium fabrication operations. Other organic wastes include carbon tetrachloride; trichloroethylene; hydraulic, gearbox, and spindle oils; and trace concentrations of miscellaneous organic laboratory wastes. (organophosphates, nitrobenzene, etc.) In addition, unknown volumes of oil containing polychlorinated biphenyls (PCB) were processed with other organic wastes until 1979. Degreasing solvents generated by Building 444 operations are contaminated with beryllium. The PCB-contaminated wastes will be treated to meet WIPP-WAC.
WASTE STREAM SOURCE	This record represents the [Uncert] portion (38.07%) of the MWIR waste stream, [ORGANIC SETUPS, OIL SOLIDS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W309, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W309	Handling:	CH	NMVP #:	N/A	Stream Name:	ORGANIC SETUPS, OIL SOLIDS:Cert-repack	Inventory Date:	
Local ID:	ID-RFO-003T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Organics	Waste Matrix Code:	S3114

AS-GENERATED EPA CODES

APP8, F004, F002, F001, D011, D005

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	11.3	0.0	40.6
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	10.6	0.0	25.7
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	882.0	692.0	1072.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON CODE

212

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	6.78E-06
Pu-241	2.51E+00
Pu-240	9.42E-02
Pu-239	4.15E-01
Pu-238	1.47E-02
Am-241	5.18E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	19.0	0.0	0.0	0.0	0.0	19.0
Drum	333.7	0.0	0.0	0.0	0.0	333.7
Totals	352.7	0.0	0.0	0.0	0.0	352.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	352.8	0.0	0.0	0.0	0.0	352.8
Totals	352.8	0.0	0.0	0.0	0.0	352.8

As-Generated Form: Stored: 352.7 Projected: 0.0 Total: 352.7

Final Waste Form: Stored: 352.8 Projected: 0.0 Total: 352.8

WASTE STREAM DESCRIPTION	Organic setups are produced from treatment of liquid organic wastes generated by various plutonium and nonplutonium operations. The organic wastes are mixed with calcium silicate to form a grease of paste-like material. Small amounts of oil-dri absorbent are usually mixed with the waste. Organic wastes such as degreasing agents (primarily trichloroethane), lathe coolant (machining oil and carbon tetrachloride), and hydraulic oils are generated primarily by plutonium fabrication operations. Other organic wastes include carbon tetrachloride; trichloroethylene; hydraulic, gearbox, and spindle oils; and trace concentrations of miscellaneous organic laboratory wastes. (organophosphates, nitrobenzene, etc.) Degreasing solvents generated by Building 444 operations are contaminated with beryllium.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (61.93%) of the MWIR waste stream, [ORGANIC SETUPS, OIL SOLIDS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W309, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W311	Handling:	CH	NMVP #:	N/A	Stream Name:	MOLTEN SALTS - 30% UNPULVERIZED:Cert-repack	Inventory Date:	
Local ID:	ID-RFO-409T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Salt Waste	Waste Matrix Code:	S3141

AS-GENERATED EPA CODES

APP8, F001, D028

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	28.8	0.0	57.7
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	117.0	22.9	212.0
Other Inorganic Material:	49.8	47.5	52.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	13.1	0.0	26.2
Rubber:	0.0	0.0	0.0
Plastics:	10.2	6.6	13.8
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	5.90E-04
Pu-241	2.18E+02
Pu-240	8.21E+00
Pu-239	3.62E+01
Pu-238	1.28E+00
Am-241	1.13E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	5.3	0.0	0.0	0.0	0.0	5.3
Totals	5.3	0.0	0.0	0.0	0.0	5.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	5.4	0.0	0.0	0.0	0.0	5.4
Totals	5.4	0.0	0.0	0.0	0.0	5.4

As-Generated Form: Stored: 5.3 Projected: 0.0 Total: 5.3

Final Waste Form: Stored: 5.4 Projected: 0.0 Total: 5.4

WASTE STREAM DESCRIPTION	This waste was generated at Rocky Flats Plant in a molten salt extraction process to remove americium from plutonium metal. The salt is a sodium/potassium/magnesium chloride, with some entrained magnesium and various americium and plutonium compounds.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [MOLTEN SALTS - 30% UNPULVERIZED] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W311, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W311	Handling:	CH	NMVP #:	N/A	Stream Name:	MOLTEN SALTS - 30% UNPULVERIZED:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-409T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Salt Waste	Waste Matrix Code:	S3141

AS-GENERATED EPA CODES

APP8, F001, D028

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	24.4	0.0	48.8
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	98.9	19.4	179.3
Other Inorganic Material:	42.1	40.2	44.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	11.1	0.0	22.2
Rubber:	0.0	0.0	0.0
Plastics:	8.6	5.6	11.7
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	153.2		
Packaging Material Plastic:	31.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	5.90E-04
Pu-241	2.18E+02
Pu-240	8.21E+00
Pu-239	3.62E+01
Pu-238	1.28E+00
Am-241	1.13E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.3	0.0	0.0	0.0	0.0	1.3
Totals	1.3	0.0	0.0	0.0	0.0	1.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.2	0.0	0.0	0.0	0.0	1.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	1.7	0.0	0.0	0.0	0.0	1.7

As-Generated Form: Stored: 1.3 Projected: 0.0 Total: 1.3

Final Waste Form: Stored: 1.7 Projected: 0.0 Total: 1.7

WASTE STREAM DESCRIPTION	This waste was generated at Rocky Flats Plant in a molten salt extraction process to remove americium from plutonium metal. The salt is a sodium/potassium/magnesium chloride, with some entrained magnesium and various americium and plutonium compounds.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [MOLTEN SALTS - 30% UNPULVERIZED] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W311, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W312	Handling:	CH	NMVP #:	N/A	Stream Name:	CERTIFIED TRU PYROCHEMICAL SALT WASTE:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-124TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Salt Waste	Waste Matrix Code:	S3141

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	172.8	40.0	441.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	165.9		
Packaging Material Plastic:	28.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

124

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	7.95E-04
Pu-241	2.94E+02
Pu-240	1.10E+01
Pu-239	4.87E+01
Pu-238	1.72E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	1.1	0.0	0.0	0.0	0.0	1.1

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 1.1 Projected: 0.0 Total: 1.1

WASTE STREAM DESCRIPTION	Pyrochemical salt consists of used chloride salts from pyrochemical processes such as electrorefining, molten salt extraction or direct oxide reduction. Very little additional information is available about this content code. This content code includes IDC 411.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [CERTIFIED TRU PYROCHEMICAL SALT WASTE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W312, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W312	Handling:	CH	NMVP #:	N/A	Stream Name:	CERTIFIED TRU PYROCHEMICAL SALT WASTE:Cert-repack
Inventory Date:							
Local ID:	ID-RFO-124TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Salt Waste
Waste Matrix Code:	S3141						

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	228.0	52.8	582.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

124

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	7.95E-04
Pu-241	2.94E+02
Pu-240	1.10E+01
Pu-239	4.87E+01
Pu-238	1.72E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	2.5	0.0	0.0	0.0	0.0	2.5
Totals	2.5	0.0	0.0	0.0	0.0	2.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.7	0.0	0.0	0.0	0.0	2.7
Totals	2.7	0.0	0.0	0.0	0.0	2.7

As-Generated Form: Stored: 2.5 Projected: 0.0 Total: 2.5

Final Waste Form: Stored: 2.7 Projected: 0.0 Total: 2.7

WASTE STREAM DESCRIPTION	Pyrochemical salt consists of used chloride salts from pyrochemical processes such as electrorefining, molten salt extraction or direct oxide reduction. Very little additional information is available about this content code. This content code includes IDC 411.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [CERTIFIED TRU PYROCHEMICAL SALT WASTE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W312, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W314	Handling:	CH	NMVP #:	N/A	Stream Name:	DIRECT OXIDE REDUCTION SALT:Cert-repack
Inventory Date:							
Local ID:	ID-RFO-414T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Salt Waste
Waste Matrix Code:	S3140						

AS-GENERATED EPA CODES

APP8, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	22.1	22.1	22.1
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	149.0	149.0	149.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	35.0	35.0	35.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	6.86E-04
Pu-241	2.54E+02
Pu-240	9.55E+00
Pu-239	4.21E+01
Pu-238	1.49E+00
Am-241	8.42E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0
Totals	1.0	0.0	0.0	0.0	0.0	1.0

As-Generated Form: Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form: Stored: 1.0 Projected: 0.0 Total: 1.0

WASTE STREAM DESCRIPTION	This waste, generated at the Rocky Flats Plant, consists of chunks of salt generated in a direct oxide reduction process to reduce calcined plutonium to plutonium metal. The salt consists of calcium chloride with calcium oxide and calcium metal, as well as various plutonium compounds, entrained in the salt.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [DIRECT OXIDE REDUCTION SALT] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W314, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W314	Handling:	CH	NMVP #:	N/A	Stream Name:	DIRECT OXIDE REDUCTION SALT:Direct Ship
Inventory Date:							
Local ID:	ID-RFO-414T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Salt Waste
Waste Matrix Code:	S3140						

AS-GENERATED EPA CODES

APP8, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	13.5	13.5	13.5
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	*90.8*	*90.8*	*90.8*
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	21.3	21.3	21.3
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	23.5		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-242	6.86E-04
Pu-241	2.54E+02
Pu-240	9.55E+00
Pu-239	4.21E+01
Pu-238	1.49E+00
Am-241	8.42E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION	This waste, generated at the Rocky Flats Plant, consists of chunks of salt generated in a direct oxide reduction process to reduce calcined plutonium to plutonium metal. The salt consists of calcium chloride with calcium oxide and calcium metal, as well as various plutonium compounds, entrained in the salt.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [DIRECT OXIDE REDUCTION SALT] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W314, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W315	Handling:	CH	NMVP #:	N/A	Stream Name:	EVAPORATOR SALTS	Inventory Date:
Local ID:	ID-RFO-005T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code: S3143

AS-GENERATED EPA CODES

D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	1.34E-05
Pu-241	4.97E+00
Pu-240	1.87E-01
Pu-239	8.24E-01
Pu-238	2.91E-02
Am-241	6.48E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

WASTE STREAM DESCRIPTION	Waste is generated at Rocky Flats Plant from aqueous waste treatment in building 774. Waste consists of a salt residue generated from concentrating and drying liquid waste from the solar evaporation ponds. The approximate chemical makeup of the salt is 60% sodium nitrate, 30% potassium nitrate, and 10% miscellaneous. Limited amounts of other wastes such as surgeons' gloves, paper, rags, and metal may be found in the waste drums. Portland cement was added to damp or wet salt when necessary. The majority or salt drums in storage at the INEL should be contaminated with <10 nCi/g TRU. Salt waste is no longer shipped to the INEL. Since 1972, drums have been inspected for free liquids, proper packaging, and use of the proper content code. After inspection, approximately 1 to 2 quarts of Oil-Dri was placed on top of the outer sealed polyethylene drum bag.
WASTE STREAM SOURCE	This waste stream was generated at Building 774: Aqueous Waste Treatment.. The generating process is: Concentrating and drying liquid waste.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W317	Handling:	CH	NMVP #:	N/A	Stream Name:	LEACHED AND CEMENTED RESIN:CH-Uncert
Inventory Date:							
Local ID:	ID-RFO-432T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal
Waste Matrix Code:	S3211						

AS-GENERATED EPA CODES

APP8, F002, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	*0.0*	*0.0*	*0.0*
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-242	3.39E-04
Pu-241	1.26E+02
Pu-240	4.72E+00
Pu-239	2.08E+01
Pu-238	7.35E-01
Am-241	5.46E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste, generated at the Rocky Flats Plant, consists of anion and cation exchange resins used in the purification and recovery of plutonium and americium, respectively. The resins are leached and cemented before disposal.
WASTE STREAM SOURCE	This record represents the [CH-Uncert] portion (.46%) of the MWIR waste stream, [LEACHED AND CEMENTED RESIN] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W317, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W317	Handling:	RH	NMVP #:	N/A	Stream Name:	LEACHED AND CEMENTED RESIN:RH-Cert-repack
Local ID:	ID-RFO-432T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Organics

Inventory Date:

Waste Matrix Code: S3211

AS-GENERATED EPA CODES

APP8, F002, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

226

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	1.70E-04
Pu-241	6.28E+01
Pu-240	2.36E+00
Pu-239	1.04E+01
Pu-238	3.67E-01
Am-241	2.73E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	3.6	0.0	0.0	0.0	0.0	3.6
Totals	3.6	0.0	0.0	0.0	0.0	3.6

As-Generated Form: Stored: 2.1 Projected: 0.0 Total: 2.1

Final Waste Form: Stored: 3.6 Projected: 0.0 Total: 3.6

WASTE STREAM DESCRIPTION	This waste, generated at the Rocky Flats Plant, consists of anion and cation exchange resins used in the purification and recovery of plutonium and americium, respectively. The resins are leached and cemented before disposal.
WASTE STREAM SOURCE	This record represents the [RH-Cert-repack] portion (4%) of the MWIR waste stream, [LEACHED AND CEMENTED RESIN] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W317, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W317	Handling:	CH	NMVP #:	N/A	Stream Name:	LEACHED AND CEMENTED RESIN:CH-Cert-repack	Inventory Date:	
Local ID:	ID-RFO-432T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Organics	Waste Matrix Code:	S3211

AS-GENERATED EPA CODES

APP8, F002, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON CODE

226

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.70E-04
Pu-241	6.28E+01
Pu-240	2.36E+00
Pu-239	1.04E+01
Pu-238	3.67E-01
Am-241	2.73E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	38.8	0.0	0.0	0.0	0.0	38.8
Totals	38.8	0.0	0.0	0.0	0.0	38.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	39.1	0.0	0.0	0.0	0.0	39.1
Totals	39.1	0.0	0.0	0.0	0.0	39.1

As-Generated Form: Stored: 38.8 Projected: 0.0 Total: 38.8

Final Waste Form: Stored: 39.1 Projected: 0.0 Total: 39.1

WASTE STREAM DESCRIPTION	This waste, generated at the Rocky Flats Plant, consists of anion and cation exchange resins used in the purification and recovery of plutonium and americium, respectively. The resins are leached and cemented before disposal.
WASTE STREAM SOURCE	This record represents the [CH-Cert-repack] portion (75.54%) of the MWIR waste stream, [LEACHED AND CEMENTED RESIN] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W317, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W317	Handling:	CH	NMVP #:	N/A	Stream Name:	LEACHED AND CEMENTED RESIN:Direct Ship
Inventory Date:							
Local ID:	ID-RFO-432T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Organics
Waste Matrix Code:	S3211						

AS-GENERATED EPA CODES

APP8, F002, F001, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON CODE

226

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.70E-04
Pu-241	6.28E+01
Pu-240	2.36E+00
Pu-239	1.04E+01
Pu-238	3.67E-01
Am-241	2.73E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	10.4	0.0	0.0	0.0	0.0	10.4
Totals	10.4	0.0	0.0	0.0	0.0	10.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	9.2	0.0	0.0	0.0	0.0	9.2
SWB used to overpack 55 gallon drums	2.4	0.0	0.0	0.0	0.0	2.4
Totals	11.5	0.0	0.0	0.0	0.0	11.5

As-Generated Form: Stored: 10.4 Projected: 0.0 Total: 10.4

Final Waste Form: Stored: 11.5 Projected: 0.0 Total: 11.5

WASTE STREAM DESCRIPTION	This waste, generated at the Rocky Flats Plant, consists of anion and cation exchange resins used in the purification and recovery of plutonium and americium, respectively. The resins are leached and cemented before disposal.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [LEACHED AND CEMENTED RESIN] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W317, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W319	Handling:	CH	NMVP #:	N/A	Stream Name:	LEACHED RESIN:Uncertifiable
Local ID:	ID-RFO-431T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal

Inventory Date:

Waste Matrix Code: S3211

AS-GENERATED EPA CODES

D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	2.92E-02
Pu-241	1.08E+04
Pu-240	4.06E+02
Pu-239	1.79E+03
Pu-238	6.31E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste, generated at the Rocky Flats Plant, consists of anionic and cationic exchange resins used in the purification and recovery of plutonium and americium, respectively. It is believed that the resins were Content Code 430 resins tthat were processed by leaching to recover plutonium. Content code was used during 1972 only.
WASTE STREAM SOURCE	This record represents the [Uncertifiable] portion (80%) of the MWIR waste stream, [LEACHED RESIN] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W319, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W319	Handling:	CH	NMVP #:	N/A	Stream Name:	LEACHED RESIN:Direct Ship
Inventory Date:							
Local ID:	ID-RFO-431T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Organics
Waste Matrix Code:	S3211						

AS-GENERATED EPA CODES

D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-242	2.92E-04
Pu-241	1.08E+02
Pu-240	4.06E+00
Pu-239	1.79E+01
Pu-238	6.31E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION	This waste, generated at the Rocky Flats Plant, consists of anionic and cationic exchange resins used in the purification and recovery of plutonium and americium, respectively. It is believed that the resins were Content Code 430 resins tthat were processed by leaching to recover plutonium. Content code was used during 1972 only.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MW.R waste stream, [LEACHED RESIN] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W319, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 6.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W321	Handling:	CH	NMVP #:	N/A	Stream Name:	UNLEACHED ION COLUMN RESIN:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-430T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Organics	Waste Matrix Code:	S3211

AS-GENERATED EPA CODES

D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	160.3		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	5.90E-04
Pu-241	2.18E+02
Pu-240	8.21E+00
Pu-239	3.62E+01
Pu-238	1.28E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	1.3	0.0	0.0	0.0	0.0	1.3

As-Generated Form: Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form: Stored: 1.3 Projected: 0.0 Total: 1.3

WASTE STREAM DESCRIPTION	This waste, generated at the Rocky Flats Plant, consists of anionic and cationic exchange resins used in the purification and recovery of plutonium and americium, respectively. The anionic resins were DOWEX 1-X4 and the cationic resins were DOWEX 50W-X8, both being polystyrene-divinylbenzene copolymers.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [UNLEACHED ION COLUMN RESIN] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W321, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W321	Handling:	CH	NMVP #:	N/A	Stream Name:	UNLEACHED ION COLUMN RESIN:Uncertifiable	Inventory Date:	
Local ID:	ID-RFO-430T	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3211

AS-GENERATED EPA CODES

D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	5.90E-02
Pu-241	2.18E+04
Pu-240	8.21E+02
Pu-239	3.62E+03
Pu-238	1.28E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	3.4	0.0	0.0	0.0	0.0	3.4
Totals	3.4	0.0	0.0	0.0	0.0	3.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 3.4 Projected: 0.0 Total: 3.4

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste, generated at the Rocky Flats Plant, consists of anionic and cationic exchange resins used in the purification and recovery of plutonium and americium, respectively. The anionic resins were DOWEX 1-X4 and the cationic resins were DOWEX 50W-X8, both being polystyrene-divinylbenzene copolymers.
WASTE STREAM SOURCE	This record represents the [Uncertifiable] portion (80%) of the MWIR waste stream, [UNLEACHED ION COLUMN RESIN] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated mixed waste stream, IN-W321, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated mixed waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W322	Handling:	CH	NMVP #:	N/A	Stream Name:	SAMPLE FUEL:Direct Ship	Inventory Date:	
Local ID:	ID-TRA-154TN	Type:	TRU	Generator Site:	IN	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5121

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	174.1		
Packaging Material Plastic:	26.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-235	3.96E-04
Pu-240	3.03E+00
Pu-239	1.46E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.9 Projected: 0.0 Total: 0.9

WASTE STREAM DESCRIPTION	This waste stream was generated at the INEL. These wastes include actinide neutron sources, a radium needle, small vials of fuel, and metal containers of experimental fuel capsules. The organic content is less than 14 lb/ft3. Combustibles, including packaging, may exceed 25 volume percent. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. These wastes are packaged three different ways, depending on when the packaging was done. Pu-Be sources packaged in 1975 were placed in a carbon steel pipe, which was cemented and encapsulated into the center of a 55-gallon drum. In 1978, Pu-Be sources were packaged in four 55-gallon drums. Wastes packed in 1980 were wrapped plastic, placed in paraffin lined 15-gallon drums, and then placed in 55-gallon drums.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [SAMPLE FUEL] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W322, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W322	Handling:	CH	NMVP #:	N/A	Stream Name:	SAMPLE FUEL:Cert-repack
Local ID:	ID-TRA-154TN	Type:	TRU	Generator Site:	IN	Final Waste Form:	Inorganic Non-Metal

Inventory Date:

Waste Matrix Code: S5121

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-235	3.96E-04
Pu-240	3.03E+00
Pu-239	1.46E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.5	0.0	0.0	0.0	0.0	1.5
Totals	1.5	0.0	0.0	0.0	0.0	1.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.7	0.0	0.0	0.0	0.0	1.7
Totals	1.7	0.0	0.0	0.0	0.0	1.7

As-Generated Form: Stored: 1.5 Projected: 0.0 Total: 1.5

Final Waste Form: Stored: 1.7 Projected: 0.0 Total: 1.7

WASTE STREAM DESCRIPTION	This waste stream was generated at the INEL. These wastes include actinide neutron sources, a radium needle, small vials of fuel, and metal containers of experimental fuel capsules. The organic content is less than 14 lb/ft3. Combustibles, including packaging, may exceed 25 volume percent. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. These wastes are packaged three different ways, depending on when the packaging was done. Pu-Be sources packaged in 1975 were placed in a carbon steel pipe, which was cemented and encapsulated into the center of a 55-gallon drum. In 1978, Pu-Be sources were packaged in four 55-gallon drums. Wastes packed in 1980 were wrapped plastic, placed in paraffin lined 15-gallon drums, and then placed in 55-gallon drums.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [SAMPLE FUEL] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W322, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W323	Handling:	CH	NMVP #:	N/A	Stream Name:	COMBUSTIBLE LAB WASTE:Direct Ship	Inventory Date:	
Local ID:	ID-INL-153TN	Type:	TRU	Generator Site:	AW	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	25.8	0.0	44.4
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.8	0.0	7.4
Vitrified:	0.0	0.0	0.0
Cellulosics:	149.7	43.3	251.4
Rubber:	1.7	1.1	5.1
Plastics:	15.0	3.3	40.2
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	174.1		
Packaging Material Plastic:	26.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
U-235	1.54E-04
Pu-241	4.67E+00
Pu-239	4.01E-01
Pu-238	2.18E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.9 Projected: 0.0 Total: 0.9

WASTE STREAM DESCRIPTION	This waste stream was generated at the Argonne National Laboratory-West at the INEL. Most of the waste is organic and combustible materials including paper, wood, PVC and plastic containers and items, rubber gaskets and gloves, leather, rags, towels, Q-tips, tubing, filter media, abrasive media, and metal pieces. Small residuals of moderators and fuel are trapped on the filters. One of the 28 total drums of Content Code 153 waste is stored at the Transuranic Storage Area (TSA) for contact-handled waste. The other 27 drums are stored at the intermediate level transuranic storage facility (ILTSF) for remote handled waste. The organic content may exceed 14 lb/ft3. Combustibles, including packaging, may exceed 25 volume percent. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. Individual waste items may be loose or plastic bagged. Combustibles and noncombustibles are segregated to separate waste cans. Each can is weighed and assayed. The inner waste cans are loaded into an outer waste drum, along with a lead shield plug. Assays are done for each can and for the drums. The waste stream is non-mixed, because the lead is shielding only and not considered part of waste stream.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [COMBUSTIBLE LAB WASTE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W323, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W323	Handling:	CH	NMVP #:	N/A	Stream Name:	COMBUSTIBLE LAB WASTE:Uncertifiable	Inventory Date:	
Local ID:	ID-INL-153TN	Type:	TRU	Generator Site:	AW	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (g/g)	
U-235	8.44E-05
Pu-241	5.36E-08
Pu-239	7.67E-06
Pu-238	1.51E-07

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Insert	1.5	0.0	0.0	0.0	0.0	1.5
Totals	1.5	0.0	0.0	0.0	0.0	1.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 1.5 Projected: 0.0 Total: 1.5

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION

This waste stream was generated at the Argonne National Laboratory-West at the INEL. Most of the waste is organic and combustible materials including paper, wood, PVC and plastic containers and items, rubber gaskets and gloves, leather, rags, towels, Q-tips, tubing, filter media, abrasive media, and metal pieces. Small residuals of moderators and fuel are trapped on the filters. One of the 28 total drums of Content Code 153 waste is stored at the Transuranic Storage Area (TSA) for contact-handled waste. The other 27 drums are stored at the intermediate level transuranic storage facility (ILTSF) for remote handled waste.

The organic content may exceed 14 lb/ft3. Combustibles, including packaging, may exceed 25 volume percent. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste.

Individual waste items may be loose or plastic bagged. Combustibles and noncombustibles are segregated to separate waste cans. Each can is weighed and assayed. The inner waste cans are loaded into an outer waste drum, along with a lead shield plug. Assays are done for each can and for the drums.

The waste stream is non-mixed, because the lead is shielding only and not considered part of waste stream.

WASTE STREAM SOURCE

This record represents the [Uncertifiable] portion (80%) of the MWIR waste stream, [COMBUSTIBLE LAB WASTE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W323, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W325	Handling:	CH	NMVP #:	N/A	Stream Name:	CLASSIFIED PARTS:Cert-repack	Inventory Date:
Local ID:	ID-MDO-815T	Type:	TRU	Generator Site:	MD	Final Waste Form:	Heterogeneous	Waste Matrix Code: S9000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.3	0.0	17.9
Other Inorganic Material:	11.1	0.0	17.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	63.0	63.0	706.7
Rubber:	19.3	19.3	194.4
Plastics:	191.8	158.7	706.7
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Source Information Not Compiled

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-238	3.23E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

WASTE STREAM DESCRIPTION	There is no content information for this waste stream, which was generated at Mound Laboratory. It is thought that there may be classified parts in this waste.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [CLASSIFIED PARTS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W325, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W325	Handling:	CH	NMVP #:	N/A	Stream Name:	CLASSIFIED PARTS:Direct Ship	Inventory Date:	
Local ID:	ID-MDO-815T	Type:	TRU	Generator Site:	MD	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S9000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.2	0.0	10.9
Other Inorganic Material:	6.8	0.0	10.6
Vitrified:	0.0	0.0	0.0
Cellulosics:	38.5	38.5	432.0
Rubber:	11.8	11.8	118.8
Plastics:	117.3	97.0	432.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	23.5		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Source Information Not Compiled

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-238	3.23E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION	There is no content information for this waste stream, which was generated at Mound Laboratory. It is thought that there may be classified parts in this waste.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [CLASSIFIED PARTS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W325, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W327	Handling:	CH	NMVP #:	N/A	Stream Name:	LOW SPECIFIC ACTIVITY (< 100 nCi/g) COMB:Cert-repack	Inventory Date:	
Local ID:	ID-MDO-847T	Type:	TRU	Generator Site:	MD	Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.3	0.0	17.9
Other Inorganic Material:	11.1	0.0	17.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	63.0	63.0	706.7
Rubber:	19.3	19.3	194.4
Plastics:	191.8	158.7	706.7
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-238	2.23E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	3.4	0.0	0.0	0.0	0.0	3.4
Totals	3.4	0.0	0.0	0.0	0.0	3.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.5	0.0	0.0	0.0	0.0	3.5
Totals	3.5	0.0	0.0	0.0	0.0	3.5

As-Generated Form: Stored: 3.4 Projected: 0.0 Total: 3.4

Final Waste Form: Stored: 3.5 Projected: 0.0 Total: 3.5

WASTE STREAM DESCRIPTION	This waste stream is from Mound Laboratory and consists of nonline generated combustible wastes such as plastic sheeting, paper, reagents, gloves (rubber,cloth), plastic bottles, wood, paper suits, and shoe covers. About 75% of the waste is compacted. The waste may be either dry or damp. The average waste organic material content usually exceeds 14 lb/ft3 for drums. Levels of fines should be within WIPP-WAC limits. There should be no sludges, free liquids, explosives, compressed gases, pyrophoric, toxic, or corrosive materials. Combustibles were packed into plastic bags which were sealed and compacted inside prepared drums. The compaction ratio is about 4:1. About 25% of the waste is not compacted, due to the presence of noncompactible items such as wood. Drums were prepared according to post-1972 procedures. Prior to January 1982, drums were scanned for gamma radiation and assayed if readings above background levels were detected. After 1982, all drums were assayed.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [LOW SPECIFIC ACTIVITY (< 100 nCi/g) COMB] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W327, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W327	Handling:	CH	NMVP #:	N/A	Stream Name:	LOW SPECIFIC ACTIVITY (< 100 nCi/g) COMB:Direct Ship
Inventory Date:							
Local ID:	ID-MDO-847T	Type:	TRU	Generator Site:	MD	Final Waste Form:	Combustible
Waste Matrix Code:	S5300						

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.2	0.0	14.2
Other Inorganic Material:	8.9	0.0	13.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	50.2	50.2	562.8
Rubber:	15.4	15.4	154.8
Plastics:	152.8	126.4	562.8
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	160.3		
Packaging Material Plastic:	29.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-238	2.23E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	1.3	0.0	0.0	0.0	0.0	1.3

As-Generated Form: Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form: Stored: 1.3 Projected: 0.0 Total: 1.3

WASTE STREAM DESCRIPTION	This waste stream is from Mound Laboratory and consists of nonline generated combustible wastes such as plastic sheeting, paper, reagents, gloves (rubber,cloth), plastic bottles, wood, paper suits, and shoe covers. About 75% of the waste is compacted. The waste may be either dry or damp. The average waste organic material content usually exceeds 14 lb/ft3 for drums. Levels of fines should be within WIPP-WAC limits. There should be no sludges, free liquids, explosives, compressed gases, pyrophoric, toxic, or corrosive materials. Combustibles were packed into plastic bags which were sealed and compacted inside prepared drums. The compaction ratio is about 4:1. About 25% of the waste is not compacted, due to the presence of noncompactible items such as wood. Drums were prepared according to post-1972 procedures. Prior to January 1982, drums were scanned for gamma radiation and assayed if readings above background levels were detected. After 1982, all drums were assayed.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [LOW SPECIFIC ACTIVITY (< 100 nCi/g) COMB] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W327, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W329	Handling:	CH	NMVP #:	N/A	Stream Name:	LOW SPECIFIC ACTIVITY (< 100 nCi/g) NONC:Direct Ship
Inventory Date:							
Local ID:	ID-MDO-848T	Type:	TRU	Generator Site:	MD	Final Waste Form:	Heterogeneous
Waste Matrix Code:	S5100						

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	291.9	1.5	536.8
Aluminum-base Metal/Alloys:	12.3	12.3	26.8
Other Metals/Alloys:	6.5	6.5	32.7
Other Inorganic Material:	22.3	0.0	570.6
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	3.4	0.0	3.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	174.1		
Packaging Material Plastic:	26.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-239	5.34E-02
Pu-238	1.22E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.9 Projected: 0.0 Total: 0.9

WASTE STREAM DESCRIPTION	This waste stream, generated at Mound Laboratory, consists of nonline generated noncombustible wastes such as tools, pipe, equipment, metal, glass, concrete, plaster, bricks, and dirt. Limited amounts of combustible wastes such as paper, rags, etc. are also included. Fines which may be present include soil, plaster, and concrete chips. The organic content is less than 14 lb/ft3. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. This waste stream is packaged in drums. Depending on size and contamination levels of individual items, the waste is contained in one or two plastic bags or placed directly into prepared waste drums. Each drum is lined with a 90-mil liner and a plastic bag. Florco absorbent is added to the bottom of the drum if dampness is suspected. Plywood spacers are added as needed on top of the liner lid. Each barrel is assayed by a drum counter or by portable gamma detecting instruments.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [LOW SPECIFIC ACTIVITY (< 100 nCi/g) NONC] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W329, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 6.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W329	Handling:	CH	NMVP #:	N/A	Stream Name:	LOW SPECIFIC ACTIVITY (< 100 nCi/g) NONC:Uncertifiable	Inventory Date:	
Local ID:	ID-MDO-848T	Type:	TRU	Generator Site:	MD	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5100

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

RCRA CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	3.56E-01
Pu-238	8.15E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.1	0.0	0.0	0.0	0.0	1.1
Totals	1.1	0.0	0.0	0.0	0.0	1.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 1.1 Projected: 0.0 Total: 1.1

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste stream, generated at Mound Laboratory, consists of nonline generated noncombustible wastes such as tools, pipe, equipment, metal, glass, concrete, plaster, bricks, and dirt. Limited amounts of combustible wastes such as paper, rags, etc. are also included. Fines which may be present include soil, plaster, and concrete chips. The organic content is less than 14 lb/ft3. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. This waste stream is packaged in drums. Depending on size and contamination levels of individual items, the waste is contained in one or two plastic bags or placed directly into prepared waste drums. Each drum is lined with a 90-mil liner and a plastic bag. Florco absorbent is added to the bottom of the drum if dampness is suspected. Plywood spacers are added as needed on top of the liner lid. Each barrel is assayed by a drum counter or by portable gamma detecting instruments.
WASTE STREAM SOURCE	This record represents the [Uncertifiable] portion (80%) of the MWIR waste stream, [LOW SPECIFIC ACTIVITY (< 100 nCi/g) NONC] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W329, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W330	Handling:	CH	NMVP #:	N/A	Stream Name:	RAGS, PAPER, WOOD, ETC.:Cert-repack
Local ID:	ID-MDO-801T	Type:	TRU	Generator Site:	MD	Final Waste Form:	Combustible

Inventory Date:

Waste Matrix Code: S5300

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.3	0.0	17.9
Other Inorganic Material:	11.1	0.0	17.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	63.0	63.0	706.7
Rubber:	19.3	19.3	194.4
Plastics:	191.8	158.7	706.7
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	2.36E-07
Pu-241	2.47E-02
Pu-240	2.71E-04
Pu-239	5.18E-04
Pu-238	6.46E+01
Pu-236	3.16E-05

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	5.9	0.0	0.0	0.0	0.0	5.9
Totals	5.9	0.0	0.0	0.0	0.0	5.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	6.0	0.0	0.0	0.0	0.0	6.0
Totals	6.0	0.0	0.0	0.0	0.0	6.0

As-Generated Form: Stored: 5.9 Projected: 0.0 Total: 5.9

Final Waste Form: Stored: 6.0 Projected: 0.0 Total: 6.0

WASTE STREAM DESCRIPTION	This waste stream is from Mound Laboratory and consists of line-generated cloth rags and Kimwipes, and limited amounts of wood and cardboard tubes. Limited amounts some other combustible wastes (gloves, plastic, etc, Content Codes 802, 804, and 812) may also be present. These wastes are from D&D activities at the Plutonium Processing and Research buildings. Waste was shipped only in 1977. Presence of hazardous materials in the waste stream is not known. Limited amounts of waste may be damp. The average waste organic material content usually exceeds 14 lb/ft3 for drums. Combustibles in the waste exceed 25 volume percent. Levels of fines from glovebox cleaning should be within WIPP-WAC limits. There should be no sludges, free liquids, explosives, compressed gases, pyrophoric, toxic, or corrosive materials. Combustibles were packed into 1-gal plastic coated cardboard cartons. Each carton was labeled, assayed and bagged into a sleeve bag which holds 5 cartons. Up to eight sleeve bags were placed in each drum. Drums were prepared according to post-1972 procedures.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (60%) of the MWIR waste stream, [RAGS, PAPER, WOOD, ETC.] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W330, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W330	Handling:	CH	NMVP #:	N/A	Stream Name:	RAGS, PAPER, WOOD, ETC.:Direct Ship	Inventory Date:
Local ID:	ID-MDO-801T	Type:	TRU	Generator Site:	MD	Final Waste Form:	Combustible	Waste Matrix Code: S5300

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.3	0.0	15.4
Other Inorganic Material:	9.6	0.0	14.9
Vitrified:	0.0	0.0	0.0
Cellulosics:	54.3	54.3	609.4
Rubber:	16.7	16.7	167.6
Plastics:	165.4	136.8	609.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	150.8		
Packaging Material Plastic:	32.2		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	2.36E-07
Pu-241	2.47E-02
Pu-240	2.71E-04
Pu-239	5.18E-04
Pu-238	6.46E+01
Pu-236	3.16E-05

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.5	0.0	0.0	0.0	0.0	1.5
Totals	1.5	0.0	0.0	0.0	0.0	1.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.5	0.0	0.0	0.0	0.0	1.5
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated Form: Stored: 1.5 Projected: 0.0 Total: 1.5

Final Waste Form: Stored: 1.9 Projected: 0.0 Total: 1.9

WASTE STREAM DESCRIPTION	This waste stream is from Mound Laboratory and consists of line-generated cloth rags and Kimwipes, and limited amounts of wood and cardboard tubes. Limited amounts some other combustible wastes (gloves, plastic, etc, Content Codes 802, 804, and 812) may also be present. These wastes are from D&D activities at the Plutonium Processing and Research buildings. Waste was shipped only in 1977. Presence of hazardous materials in the waste stream is not known. Limited amounts of waste may be damp. The average waste organic material content usually exceeds 14 lb/ft3 for drums. Combustibles in the waste exceed 25 volume percent. Levels of fines from glovebox cleaning should be within WIPP-WAC limits. There should be no sludges, free liquids, explosives, compressed gases, pyrophoric, toxic, or corrosive materials. Combustibles were packed into 1-gal plastic coated cardboard cartons. Each carton was labeled, assayed and bagged into a sleeve bag which holds 5 cartons. Up to eight sleeve bags were placed in each drum. Drums were prepared according to post-1972 procedures.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [RAGS, PAPER, WOOD, ETC.] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W330, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W332	Handling:	CH	NMVP #:	N/A	Stream Name:	SOLIDIFIED SOLUTIONS:Direct Ship
Inventory Date:							
Local ID:	ID-BCO-204T	Type:	TRU	Generator Site:	BC	Final Waste Form:	Solidified Inorganics
Waste Matrix Code:	S3113						

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	241.0	105.8	323.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	243.9	105.8	323.3
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	23.5		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-239	7.79E-02
Pu-238	1.07E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION	This waste comes from Battelle Columbus Labs. It is a turco soap decontamination solution (used to decontaminate glove boxes from a Pu lab) which is solidified in plaster-of-paris.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWLT waste stream, [SOLIDIFIED SOLUTIONS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W332, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W332	Handling:	CH	NMVP #:	N/A	Stream Name:	SOLIDIFIED SOLUTIONS:Cert-repack	Inventory Date:
Local ID:	ID-BCO-204T	Type:	TRU	Generator Site:	BC	Final Waste Form:	Solidified Inorganics	Waste Matrix Code: S3113

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	394.2	173.1	528.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	399.0	173.1	528.8
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-239	7.79E-02
Pu-238	1.07E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 0.8 Projected: 0.0 Total: 0.8

WASTE STREAM DESCRIPTION	This waste comes from Battelle Columbus Labs. It is a turco soap decontamination solution (used to decontaminate glove boxes from a Pu lab) which is solidified in plaster-of-paris.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [SOLIDIFIED SOLUTIONS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W332, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W334	Handling:	CH	NMVP #:	N/A	Stream Name:	PAPER, METALS, GLASS:Direct Ship	Inventory Date:
Local ID:	ID-BCO-203T	Type:	TRU	Generator Site:	BC	Final Waste Form:	Heterogeneous	Waste Matrix Code: S5420

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	79.3	0.0	1347.6
Aluminum-base Metal/Alloys:	0.0	0.0	1.3
Other Metals/Alloys:	0.1	0.0	18.7
Other Inorganic Material:	2.0	0.0	19.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	66.7	0.0	152.3
Rubber:	6.0	0.0	13.5
Plastics:	53.5	0.0	122.8
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	*0.0*	*0.0*	*0.0*
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	156.3		
Packaging Material Plastic:	30.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	4.82E-04
Pu-239	9.32E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.1	0.0	0.0	0.0	0.0	1.1
Totals	1.1	0.0	0.0	0.0	0.0	1.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated Form: Stored: 1.1 Projected: 0.0 Total: 1.1

Final Waste Form: Stored: 1.5 Projected: 0.0 Total: 1.5

WASTE STREAM DESCRIPTION	This waste stream, generated at Battelle Columbus Laboratories, contains a mixture of combustible and noncombustible items in roughly equal proportions. Combustible items include paper and paper products. Noncombustibles are primarily metal and some glass. The organic content is about 9 lb/ft3 in drums and about 5 lb/ft3 in bins. Combustibles, including packaging, may exceed 25 volume percent. The levels of dispersible fines should be within WIPP-WAC limts. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. Prior to packaging, each waste item is given a smear test and then triple contained in either nylon reinforced plastic sheeting or PE bags. The waste is placed in 55-gallon drums fitted with 90-mil liners, or else placed in M-III bins. Some drums which do not meet INEL packaging criteria are also overpacked in bins.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [PAPER, METALS, GLASS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W334, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W334	Handling:	CH	NMVP #:	N/A	Stream Name:	PAPER, METALS, GLASS:Cert-repack	Inventory Date:
Local ID:	ID-BCO-203T	Type:	TRU	Generator Site:	BC	Final Waste Form:	Heterogeneous	Waste Matrix Code: S5420

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	96.2	0.0	1634.6
Aluminum-base Metal/Alloys:	0.0	0.0	1.6
Other Metals/Alloys:	0.1	0.0	22.7
Other Inorganic Material:	2.4	0.0	24.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	80.9	0.0	184.8
Rubber:	7.3	0.0	16.4
Plastics:	64.9	0.0	149.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
U-235	4.82E-04
Pu-239	9.32E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	4.5	0.0	0.0	0.0	0.0	4.5
Totals	4.5	0.0	0.0	0.0	0.0	4.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.6	0.0	0.0	0.0	0.0	4.6
Totals	4.6	0.0	0.0	0.0	0.0	4.6

As-Generated Form: Stored: 4.5 Projected: 0.0 Total: 4.5

Final Waste Form: Stored: 4.6 Projected: 0.0 Total: 4.6

WASTE STREAM DESCRIPTION	This waste stream, generated at Battelle Columbus Laboratories, contains a mixture of combustible and noncombustible items in roughly equal proportions. Combustible items include paper and paper products. Noncombustibles are primarily metal and some glass. The organic content is about 9 lb/ft3 in drums and about 5 lb/ft3 in bins. Combustibles, including packaging, may exceed 25 volume percent. The levels of dispersible fines should be within WIPP-WAC limts. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. Prior to packaging, each waste item is given a smear test and then triple contained in either nylon reinforced plastic sheeting or PE bags. The waste is placed in 55-gallon drums fitted with 90-mil liners, or else placed in M-III bins. Some drums which do not meet INEL packaging criteria are also overpacked in bins.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [PAPER, METALS, GLASS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W334, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W336	Handling:	CH	NMVP #:	N/A	Stream Name:	COMBUSTIBLE SOLIDS:Cert-repack	Inventory Date:
Local ID:	ID-BCO-202T	Type:	TRU	Generator Site:	BC	Final Waste Form:	Combustible	Waste Matrix Code: S5300

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	2.9	0.0	7.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	575.6	105.8	961.5
Rubber:	55.2	55.2	163.5
Plastics:	165.6	105.8	288.5
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	1.48E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bin	3.5	0.0	0.0	0.0	0.0	3.5
Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	3.9	0.0	0.0	0.0	0.0	3.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.2	0.0	0.0	0.0	0.0	4.2
Totals	4.2	0.0	0.0	0.0	0.0	4.2

As-Generated Form: Stored: 3.9 Projected: 0.0 Total: 3.9

Final Waste Form: Stored: 4.2 Projected: 0.0 Total: 4.2

WASTE STREAM DESCRIPTION	This waste stream, generated at Battelle Columbus Laboratories, contains such combustible items as wood, plastic suits, nylon reinforced plastic tent structures, shoe covers, rubber golves, and air hose. The waste is from decontamination and deactivation of the plutonium laboratory. The average wastes organic material content may range from 6 lb/ft3 (including the plywood liner) for bins to 8 lb/ft3 (excluding the 90-mil liner) for drums. No significant levels of fines should be present. The waste is packaged with no free liquids, sludges, explosives, compressed gases, pyrophoric or corrosive materials. Each waste item is given a smear test and then triple-wrapped in nylon reinforced plastic or triple-bagged in PE bags. The items are then placed inside 55-gallon drums with 90-mil liners, or in type M-III bins with non-removable plywood liners. Type M-III bins have also been used to overpack 17H drums that do not meet INEL packaging criteria.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (96.66%) of the MWIR waste stream, [COMBUSTIBLE SOLIDS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W336, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W336	Handling:	CH	NMVP #:	N/A	Stream Name:	COMBUSTIBLE SOLIDS:Direct Ship	Inventory Date:
Local ID:	ID-BCO-202T	Type:	TRU	Generator Site:	BC	Final Waste Form:	Combustible	Waste Matrix Code: S5300

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.8	0.0	4.4
Vitrified:	0.0	0.0	0.0
Cellulosics:	351.9	64.7	587.8
Rubber:	33.7	33.7	99.9
Plastics:	101.2	64.7	176.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	23.5		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-239	1.48E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION	This waste stream, generated at Battelle Columbus Laboratories, contains such combustible items as wood, plastic suits, nylon reinforced plastic tent structures, shoe covers, rubber golves, and air hose. The waste is from decontamination and deactivation of the plutonium laboratory. The average wastes organic material content may range from 6 lb/ft3 (including the plywood liner) for bins to 8 lb/ft3 (excluding the 90-mil liner) for drums. No significant levels of fines should be present. The waste is packaged with no free liquids, sludges, explosives, compressed gases, pyrophoric or corrosive materials. Each waste item is given a smear test and then triple-wrapped in nylon reinforced plastic or triple-bagged in PE bags. The items are then placed inside 55-gallon drums with 90-mil liners, or in type M-III bins with non-removable plywood liners. Type M-III bins have also been used to overpack 17H drums that do not meet INEL packaging criteria.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (3.34%) of the MWIR waste stream, [COMBUSTIBLE SOLIDS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W336, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W337	Handling:	CH	NMVP #:	N/A	Stream Name:	AMERICIUM SOURCES:Cert-repack	Inventory Date:
Local ID:	ID-TAN-200T	Type:	TRU	Generator Site:	IN	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code: S5121

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Source Information Not Compiled

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste was generated at the Idaho National Engineering Laboratory. It consists of an americium neutron source. No other wastes were included in the drum. The waste was placed in a carbon steel pipe which was centered in the 55-gallon drum. Cement was added to fill the annular space between the pipe and drum and encapsulate the pipe containing the source.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [AMERICIUM SOURCES] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W337, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W337	Handling:	CH	NMVP #:	N/A	Stream Name:	AMERICIUM SOURCES:Direct Ship	Inventory Date:	
Local ID:	ID-TAN-200T	Type:	TRU	Generator Site:	IN	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5121

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	23.5		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Source Information Not Compiled

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION	This waste was generated at the Idaho National Engineering Laboratory. It consists of an americium neutron source. No other wastes were included in the drum. The waste was placed in a carbon steel pipe which was centered in the 55-gallon drum. Cement was added to fill the annular space between the pipe and drum and encapsulate the pipe containing the source.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [AMERICIUM SOURCES] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W337, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W338	Handling:	CH	NMVP #:	N/A	Stream Name:	ANL-W ACL COLD-LINE ABSORBED LIQUID, MIS:Direct Ship
Inventory Date:							
Local ID:	ID-ANL-163T	Type:	TRU	Generator Site:	AW	Final Waste Form:	Heterogeneous
Waste Matrix Code:	S5400						

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	174.1		
Packaging Material Plastic:	26.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Source Information Not Compiled

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	1.17E-04
Pu-239	4.67E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.9 Projected: 0.0 Total: 0.9

WASTE STREAM DESCRIPTION	This waste stream was generated at ANL-W. Analytical chemistry laboratory cold-line sample analysis absorbed liquid wastes includes absorbed liquids, miscellaneous hardware and polyethylene. It is a solidified liquid.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [ANL-W ACL COLD-LINE ABSORBED LIQUID, MIS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W338, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W338	Handling:	CH	NMVP #:	N/A	Stream Name:	ANL-W ACL COLD-LINE ABSORBED LIQUID, MIS:Cert-repack	Inventory Date:	
Local ID:	ID-ANL-163T	Type:	TRU	Generator Site:	AW	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Source Information Not Compiled

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-235	1.17E-04
Pu-239	4.67E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.1	0.0	0.0	0.0	0.0	1.1
Totals	1.1	0.0	0.0	0.0	0.0	1.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0
Totals	1.0	0.0	0.0	0.0	0.0	1.0

As-Generated Form: Stored: 1.1 Projected: 0.0 Total: 1.1

Final Waste Form: Stored: 1.0 Projected: 0.0 Total: 1.0

WASTE STREAM DESCRIPTION	This waste stream was generated at ANL-W. Analytical chemistry laboratory cold-line sample analysis absorbed liquid wastes includes absorbed liquids, miscellaneous hardware and polyethylene. It is a solidified liquid.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [ANL-W ACL COLD-LINE ABSORBED LIQUID, MIS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W338, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W339	Handling:	CH	NMVP #:	N/A	Stream Name:	ANL-W FMF EFL Zr-U FUEL CASTING ALLOYS R:Direct Ship
Inventory Date:							
Local ID:	ID-ANL-162T	Type:	TRU	Generator Site:	IN	Final Waste Form:	Heterogeneous
Waste Matrix Code:	S5120						

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	148.9		
Packaging Material Plastic:	32.7		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Source Information Not Compiled

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	8.30E-04
Pu-240	4.49E-02
Pu-239	1.10E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.7	0.0	0.0	0.0	0.0	1.7
Totals	1.7	0.0	0.0	0.0	0.0	1.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.7	0.0	0.0	0.0	0.0	1.7
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated Form: Stored: 1.7 Projected: 0.0 Total: 1.7

Final Waste Form: Stored: 2.1 Projected: 0.0 Total: 2.1

WASTE STREAM DESCRIPTION	This waste stream was generated at ANL-W. It consists of solid zirconium, uranium, and plutonium fuel casting metal alloy wastes. The waste is a solid with small amounts of glass powder from broken glass molds.The waste is created when the metal is heated in a crucible and then pressurized into the glass molds. The glass molds are broken to remove the fuel pins, and the remaining molds, crucibles, and residues constitute the waste.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [ANL-W FMF EFL Zr-U FUEL CASTING ALLOYS R] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W339, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W339	Handling:	CH	NMVP #:	N/A	Stream Name:	ANL-W FMF EFL Zr-U FUEL CASTING ALLOYS R:Cert-repack
Inventory Date:							
Local ID:	ID-ANL-162T	Type:	TRU	Generator Site:	IN	Final Waste Form:	Heterogeneous
Waste Matrix Code:	S5120						

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Source Information Not Compiled

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
U-235	8.30E-04
Pu-240	4.49E-02
Pu-239	1.10E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	7.0	0.0	0.0	0.0	0.0	7.0
Totals	7.0	0.0	0.0	0.0	0.0	7.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	7.1	0.0	0.0	0.0	0.0	7.1
Totals	7.1	0.0	0.0	0.0	0.0	7.1

As-Generated Form: Stored: 7.0 Projected: 0.0 Total: 7.0

Final Waste Form: Stored: 7.1 Projected: 0.0 Total: 7.1

WASTE STREAM DESCRIPTION	This waste stream was generated at ANL-W. It consists of solid zirconium, uranium, and plutonium fuel casting metal alloy wastes. The waste is a solid with small amounts of glass powder from broken glass molds.The waste is created when the metal is heated in a crucible and then pressurized into the glass molds. The glass molds are broken to remove the fuel pins, and the remaining molds, crucibles, and residues constitute the waste.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [ANL-W FMF EFL Zr-U FUEL CASTING ALLOYS R] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W339, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W341	Handling:	CH	NMVP #:	N/A	Stream Name:	ANL-W HFEF ANALYTICAL CHEMISTRY AND META:Cert-repack	Inventory Date:	
Local ID:	ID-ANL-160T	Type:	TRU	Generator Site:	IN	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Source Information Not Compiled

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	1.33E-03
Pu-239	9.39E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Insert	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This wastestream, which was generated at ANL-W was generated during analytical chemistry and metallography operations. Item Description Code (IDC) 153 was replaced by IDC 160, ANL-W HFEF Analytical Chemistry and Metallographic Combsutibles. The waste package contains lead as shielding.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [ANL-W HFEF ANALYTICAL CHEMISTRY AND META] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W341, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W341	Handling:	CH	NMVP #:	N/A	Stream Name:	ANL-W HFEF ANALYTICAL CHEMISTRY AND META:Direct Ship
Inventory Date:							
Local ID:	ID-ANL-160T	Type:	TRU	Generator Site:	IN	Final Waste Form:	Heterogeneous
Waste Matrix Code:	S5440						

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	23.5		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Source Information Not Compiled

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-235	1.33E-03
Pu-239	9.39E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Insert	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION	This wastestream, which was generated at ANL-W was generated during analytical chemistry and metallography operations. Item Description Code (IDC) 153 was replaced by IDC 160, ANL-W HFEF Analytical Chemistry and Metallographic Combsutibles. The waste package contains lead as shielding.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [ANL-W HFEF ANALYTICAL CHEMISTRY AND META] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W341, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W342	Handling:	CH	NMVP #:	N/A	Stream Name:	MISCELLANEOUS SOURCES:Direct Ship
Inventory Date:							
Local ID:	ID-INL-157T	Type:	TRU	Generator Site:	IN	Final Waste Form:	Uncategorized Metal
Waste Matrix Code:	S3100						

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	23.5		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Source Information Not Compiled

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-239	6.46E-02
Cf-252	5.58E-02
Am-241	7.47E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION	There is no descriptive or constituent information available for this waste, which was generated at ANL-W. Based on engineering judgment, the waste was assigned to "Inorganic Homogeneous Solids." The waste is assumed to be metallic but of a size that is too small to qualify as debris.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [MISCELLANEOUS SOURCES] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W342, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W342	Handling:	CH	NMVP #:	N/A	Stream Name:	MISCELLANEOUS SOURCES:Cert-repack	Inventory Date:	
Local ID:	ID-INL-157T	Type:	TRU	Generator Site:	IN	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S3100

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Source Information Not Compiled

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-239	6.46E-02
Cf-252	5.58E-02
Am-241	7.47E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

WASTE STREAM DESCRIPTION	There is no descriptive or constituent information available for this waste, which was generated at ANL-W. Based on engineering judgment, the waste was assigned to "Inorganic Homogeneous Solids." The waste is assumed to be metallic but of a size that is too small to qualify as debris.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [MISCELLANEOUS SOURCES] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W342, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W345	Handling:	CH	NMVP #:	N/A	Stream Name:	SCRAP:Cert-repack	Inventory Date:	
Local ID:	ID-INL-155T	Type:	TRU	Generator Site:	IN	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	96.2	0.0	1634.6
Aluminum-base Metal/Alloys:	0.0	0.0	1.6
Other Metals/Alloys:	0.1	0.0	22.7
Other Inorganic Material:	2.4	0.0	24.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	80.9	0.0	184.8
Rubber:	7.3	0.0	16.4
Plastics:	64.9	0.0	149.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: Unknown

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
U-235	1.79E-05
Th-232	3.91E-05
Pu-240	8.59E-01
Pu-239	1.35E+00
Pu-238	1.67E+00
Am-241	5.96E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	12.7	0.0	0.0	0.0	0.0	12.7
Drum	1.5	0.0	0.0	0.0	0.0	1.5
Totals	14.2	0.0	0.0	0.0	0.0	14.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	14.4	0.0	0.0	0.0	0.0	14.4
Totals	14.4	0.0	0.0	0.0	0.0	14.4

As-Generated Form: Stored: 14.2 Projected: 0.0 Total: 14.2

Final Waste Form: Stored: 14.4 Projected: 0.0 Total: 14.4

WASTE STREAM DESCRIPTION	This waste stream, generated at Idaho National Engineering Laboratory, consists of a plastic glovebox, a hydraulic pump containing oil, vacuum pumps, centrifuges, tools, and experimental fuel capsules. The presence of hazardous materials is not known, but some absorbed oil is likely. The contains free liquids. Organic content of the box may exceed 6 lb/ft3. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present, except for the hydraulic pump oil in the box. No explosive or pyrophoric materials should be in this waste. The waste was placed directly into prepared drums or boxes, or packaged in 1-gallon cans which were placed in prepared drums. The waste was generated in 1975 and 1979. Some of the waste is double wrapped in plastic. It is not known if the box is fiberglass-reinforced polyester (FRP) coated.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (97.38%) of the MWIR waste stream, [SCRAP] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W345, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W345	Handling:	CH	NMVP #:	N/A	Stream Name:	SCRAP:Direct Ship
Local ID:	ID-INL-155T	Type:	TRU	Generator Site:	IN	Final Waste Form:	Heterogeneous

Inventory Date:

Waste Matrix Code: S5440

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	67.6	0.0	1148.0
Aluminum-base Metal/Alloys:	0.0	0.0	1.1
Other Metals/Alloys:	0.1	0.0	15.9
Other Inorganic Material:	1.7	0.0	16.9
Vitrified:	0.0	0.0	0.0
Cellulosics:	56.8	0.0	129.8
Rubber:	5.1	0.0	11.5
Plastics:	45.6	0.0	104.6
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	174.1		
Packaging Material Plastic:	26.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: Unknown

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-235	1.79E-05
Th-232	3.91E-05
Pu-240	8.59E-01
Pu-239	1.35E+00
Pu-238	1.67E+00
Am-241	5.96E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.9 Projected: 0.0 Total: 0.9

WASTE STREAM DESCRIPTION	This waste stream, generated at Idaho National Engineering Laboratory, consists of a plastic glovebox, a hydraulic pump containing oil, vacuum pumps, centrifuges, tools, and experimental fuel capsules. The presence of hazardous materials is not known, but some absorbed oil is likely. The contains free liquids. Organic content of the box may exceed 6 lb/ft3. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present, except for the hydraulic pump oil in the box. No explosive or pyrophoric materials should be in this waste. The waste was placed directly into prepared drums or boxes, or packaged in 1-gallon cans which were placed in prepared drums. The waste was generated in 1975 and 1979. Some of the waste is double wrapped in plastic. It is not known if the box is fiberglass-reinforced polyester (FRP) coated.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (2.62%) of the MWIR waste stream, [SCRAP] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W345, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W347	Handling:	CH	NMVP #:	N/A	Stream Name:	ABSORBED LIQUIDS:Cert-repack	Inventory Date:
Local ID:	ID-AEO-102T	Type:	TRU	Generator Site:	AE	Final Waste Form:	Solidified Inorganics	Waste Matrix Code: S3113

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	101.0	101.0	101.0
Vitrified:	*0.0*	*0.0*	*0.0*
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	216.3	168.3	259.6
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-238	6.35E-06
U-235	5.97E-07
Th-232	1.86E-07
Pu-240	2.24E+00
Pu-239	1.22E+00
Am-241	3.58E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bin	*42.0*	*0.0*	*0.0*	*0.0*	*0.0*	*42.0*
Drum	9.5	0.0	0.0	0.0	0.0	9.5
Totals	51.5	0.0	0.0	0.0	0.0	51.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	51.8	0.0	0.0	0.0	0.0	51.8
Totals	51.8	0.0	0.0	0.0	0.0	51.8

As-Generated Form: Stored: 51.5 Projected: 0.0 Total: 51.5

Final Waste Form: Stored: 51.8 Projected: 0.0 Total: 51.8

WASTE STREAM DESCRIPTION	This waste comes from Argonne National Laboratory-East. It consists of liquids adjusted to pH 10 using NaOH which are then absorbed in vermiculite.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (95.11%) of the MWIR waste stream, [ABSORBED LIQUIDS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W347, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W347	Handling:	CH	NMVP #:	N/A	Stream Name:	ABSORBED LIQUIDS:Direct Ship	Inventory Date:
Local ID:	ID-AEO-102T	Type:	TRU	Generator Site:	AE	Final Waste Form:	Solidified Inorganics	Waste Matrix Code: S3113

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	85.4	85.4	85.4
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	182.9	142.3	219.5
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	153.2		
Packaging Material Plastic:	31.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-238	6.35E-06
U-235	5.97E-07
Th-232	1.86E-07
Pu-240	2.24E+00
Pu-239	1.22E+00
Am-241	3.58E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	2.8	0.0	0.0	0.0	0.0	2.8
Totals	2.8	0.0	0.0	0.0	0.0	2.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.5	0.0	0.0	0.0	0.0	2.5
SWB used to overpack 55 gallon drums	0.9	0.0	0.0	0.0	0.0	0.9
Totals	3.4	0.0	0.0	0.0	0.0	3.4

As-Generated Form: Stored: 2.8 Projected: 0.0 Total: 2.8

Final Waste Form: Stored: 3.4 Projected: 0.0 Total: 3.4

WASTE STREAM DESCRIPTION	This waste comes from Argonne National Laboratory-East. It consists of liquids adjusted to pH 10 using NaOH which are then absorbed in vermiculite.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (4.89%) of the MWIR waste stream, [ABSORBED LIQUIDS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W347, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W348	Handling:	CH	NMVP #:	N/A	Stream Name:	SAND, SLAG, AND CRUCIBLE HEELS:Direct Ship
Inventory Date:							
Local ID:	ID-RFO-393TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics
Waste Matrix Code:	S3117						

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.3		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	6.67E-04
Pu-241	2.47E+02
Pu-240	9.28E+00
Pu-239	4.09E+01
Pu-238	1.44E+00
Am-241	1.26E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.9	0.0	0.0	0.0	0.0	1.9
Totals	1.9	0.0	0.0	0.0	0.0	1.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.9	0.0	0.0	0.0	0.0	1.9
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	2.3	0.0	0.0	0.0	0.0	2.3

As-Generated Form: Stored: 1.9 Projected: 0.0 Total: 1.9

Final Waste Form: Stored: 2.3 Projected: 0.0 Total: 2.3

WASTE STREAM DESCRIPTION	This waste consists of insoluble residue or "heel" generated from processing magnesium oxide sand and pulverized slag and magnesium oxide crucibles to remove above-discard amounts of plutonium. Respirable fines are thought to exceed the WIPP-WAC limits. The waste stream handling and packaging is as follows: the dried heels were placed into 1/2 and 1-gallon PE bottles. Each bottle was double -bagged out the glovebox in PVC and PE bags. Each bottle was assayed and then placed in prepared 55-gallon drums, about 15-30 bottles per drum. Prior to 1972, the drums were lined with one or two PE bags, which were sealed with tape. Some of these drums may have cardboard liners inside the inner drum bag. After 1972, 90-mil sealed rigid liners were used in addition to one or two PE bags. Since 1972, drums were inspected (and corrected where needed for free liquids, proper packaging, and proper content code. One to two quarts of Oil-dri was placed on the outer sealed PE drum bag. Starting in february 1982, 3-12 lb of vermiculite was used to fill the space between the outer drum bag and the rigid liner.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [SAND, SLAG, AND CRUCIBLE HEELS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W348, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W348	Handling:	CH	NMVP #:	N/A	Stream Name:	SAND, SLAG, AND CRUCIBLE HEELS:Uncertifiable	Inventory Date:	
Local ID:	ID-RFO-393TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3117

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.33E-03
Pu-241	4.94E+02
Pu-240	1.86E+01
Pu-239	8.18E+01
Pu-238	2.89E+00
Am-241	2.51E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	8.1	0.0	0.0	0.0	0.0	8.1
Totals	8.1	0.0	0.0	0.0	0.0	8.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.2	0.0	0.0	0.0	0.0	4.2
Totals	4.2	0.0	0.0	0.0	0.0	4.2

As-Generated Form: Stored: 8.1 Projected: 0.0 Total: 8.1

Final Waste Form: Stored: 4.2 Projected: 0.0 Total: 4.2

WASTE STREAM DESCRIPTION	This waste consists of insoluble residue or "heel" generated from processing magnesium oxide sand and pulverized slag and magnesium oxide crucibles to remove above-discard amounts of plutonium. Respirable fines are thought to exceed the WIPP-WAC limits. The waste stream handling and packaging is as follows: the dried heels were placed into 1/2 and 1-gallon PE bottles. Each bottle was double -bagged out the glovebox in PVC and PE bags. Each bottle was assayed and then placed in prepared 55-gallon drums, about 15-30 bottles per drum. Prior to 1972, the drums were lined with one or two PE bags, which were sealed with tape. Some of these drums may have cardboard liners inside the inner drum bag. After 1972, 90-mil sealed rigid liners were used in addition to one or two PE bags. Since 1972, drums were inspected (and corrected where needed for free liquids, proper packaging, and proper content code. One to two quarts of Oil-dri was placed on the outer sealed PE drum bag. Starting in february 1982, 3-12 lb of vermiculite was used to fill the space between the outer drum bag and the rigid liner.
WASTE STREAM SOURCE	This record represents the [Uncertifiable] portion (80%) of the MWIR waste stream, [SAND, SLAG, AND CRUCIBLE HEELS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W348, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W349	Handling:	RH	NMVP #:	N/A	Stream Name:	REMOTE-HANDLED WASTE:RH-Uncertifiable
Inventory Date:							
Local ID:	ID-AEO-107T	Type:	TRU	Generator Site:	AE	Final Waste Form:	Inorganic Non-Metal
Waste Matrix Code:	S9000						

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Source Information Not Compiled

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-240	4.03E-01
Pu-239	6.29E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	5.1	0.0	0.0	0.0	0.0	5.1
Totals	5.1	0.0	0.0	0.0	0.0	5.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	1.2	0.0	0.0	0.0	0.0	1.2
Totals	1.2	0.0	0.0	0.0	0.0	1.2

As-Generated Form: Stored: 5.1 Projected: 0.0 Total: 5.1

Final Waste Form: Stored: 1.2 Projected: 0.0 Total: 1.2

WASTE STREAM DESCRIPTION	There is no descriptive or constituent information available for this waste, which was generated at ANL-E.
WASTE STREAM SOURCE	This record represents the [RH-Uncertifiable] portion (80%) of the MWIR waste stream, [REMOTE-HANDLED WASTE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W349, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W349	Handling:	RH	NMVP #:	N/A	Stream Name:	REMOTE-HANDLED WASTE:RH-Certifiable
Inventory Date:							
Local ID:	ID-AEO-107T	Type:	TRU	Generator Site:	AE	Final Waste Form:	Heterogeneous
Waste Matrix Code:	S9000						

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Source Information Not Compiled

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-240	6.05E-02
Pu-239	9.42E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.3	0.0	0.0	0.0	0.0	1.3
Totals	1.3	0.0	0.0	0.0	0.0	1.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	3.6	0.0	0.0	0.0	0.0	3.6
Totals	3.6	0.0	0.0	0.0	0.0	3.6

As-Generated Form: Stored: 1.3 Projected: 0.0 Total: 1.3

Final Waste Form: Stored: 3.6 Projected: 0.0 Total: 3.6

WASTE STREAM DESCRIPTION	There is no descriptive or constituent information available for this waste, which was generated at ANL-E.
WASTE STREAM SOURCE	This record represents the [RH-Certifiable] portion (20%) of the MWIR waste stream, [REMOTE-HANDLED WASTE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W349, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W350	Handling:	CH	NMVP #:	N/A	Stream Name:	SPECIAL SOURCE MATERIAL:Direct Ship
Local ID:	ID-AEO-106T	Type:	TRU	Generator Site:	AE	Final Waste Form:	Heterogeneous

Inventory Date:

Waste Matrix Code: S9000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	23.5		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Source Information Not Compiled

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-240	1.76E+02
Pu-239	5.74E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION	There is no descriptive or constituent information available for this waste, which was generated at ANL-E.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [SPECIAL SOURCE MATERIAL] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W350, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W350	Handling:	CH	NMVP #:	N/A	Stream Name:	SPECIAL SOURCE MATERIAL: Cert-repack	Inventory Date:	
Local ID:	ID-AEO-106T	Type:	TRU	Generator Site:	AE	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S9000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Source Information Not Compiled

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-240	1.76E+02
Pu-239	5.74E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	There is no descriptive or constituent information available for this waste, which was generated at ANL-E.
WASTE STREAM SOURCE	This record represents the [Certifiable-repack] portion (80%) of the MWIR waste stream, [SPECIAL SOURCE MATERIAL] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It *currently exists only as the unsegregated waste stream, IN-W350, reported in the DOE National Core Mixed and TRU Waste Data Requirements.* The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W351	Handling:	CH	NMVP #:	N/A	Stream Name:	EMPTY BOTTLES:Direct Ship	Inventory Date:
Local ID:	ID-AEO-105T	Type:	TRU	Generator Site:	AE	Final Waste Form:	Heterogeneous	Waste Matrix Code: S3113

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	3.4	0.0	10.1
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	3.4	0.0	13.5
Vitrified:	0.0	0.0	0.0
Cellulosics:	202.1	37.5	303.9
Rubber:	2.3	1.0	6.1
Plastics:	25.3	2.0	42.6
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	174.1		
Packaging Material Plastic:	26.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-240	6.01E+00
Pu-239	1.75E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.9 Projected: 0.0 Total: 0.9

WASTE STREAM DESCRIPTION	This waste stream, generated at Argonne National Laboratory-East, consists of PE and glass bottles used to transport liquid wastes. The organic content is around 5 lb/ft3. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present, except for small quantities of wet vermiculite. No explosive or pyrophoric materials should be in the waste. The bottles have the tops removed and are filled with vermiculite. The bottles are placed with more vermiculite in 55-gallon drums fitted with 90-mil liners. The drums are shipped in M-III bins. After receipt of the bins at INEL-RWMC, the drums are removed from the bins for storage. The bins may be reused.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [EMPTY BOTTLES] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W351, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W351	Handling:	CH	NMVP #:	N/A	Stream Name:	EMPTY BOTTLES: Cert-repack
Inventory Date:							
Local ID:	ID-AEO-105T	Type:	TRU	Generator Site:	AE	Final Waste Form:	Heterogeneous
Waste Matrix Code:	S3113						

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	4.8	0.0	14.4
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	4.8	0.0	19.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	287.7	53.4	432.7
Rubber:	3.3	1.4	8.7
Plastics:	36.0	2.9	60.6
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-240	6.01E+00
Pu-239	1.75E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.1	0.0	0.0	0.0	0.0	1.1
Totals	1.1	0.0	0.0	0.0	0.0	1.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.2	0.0	0.0	0.0	0.0	1.2
Totals	1.2	0.0	0.0	0.0	0.0	1.2

As-Generated Form: Stored: 1.1 Projected: 0.0 Total: 1.1

Final Waste Form: Stored: 1.2 Projected: 0.0 Total: 1.2

WASTE STREAM DESCRIPTION	This waste stream, generated at Argonne National Laboratory-East, consists of PE and glass bottles used to transport liquid wastes. The organic content is around 5 lb/ft3. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present, except for small quantities of wet vermiculite. No explosive or pyrophoric materials should be in the waste. The bottles have the tops removed and are filled with vermiculite. The bottles are placed with more vermiculite in 55-gallon drums fitted with 90-mil liners. The drums are shipped in M-III bins. After receipt of the bins at INEL-RWMC, the drums are removed from the bins for storage. The bins may be reused.
WASTE STREAM SOURCE	This record represents the [Certifiable-repack] portion (80%) of the MWIR waste stream; [EMPTY BOTTLES] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W351, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W353	Handling:	CH	NMVP #:	N/A	Stream Name:	SOLIDIFIED SOLUTIONS:Direct Ship
Inventory Date:							
Local ID:	ID-BTO-050TN	Type:	TRU	Generator Site:	BT	Final Waste Form:	Solidified Inorganics
Waste Matrix Code:	S3113						

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	281.8	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	2.6	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	23.5		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Source Information Not Compiled

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-239	1.20E-01
Np-237	3.33E-04

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION	This waste stream is from Bettis Atomic Power Laboratory. It consists of a single drum of TRU. No more information is available, but the waste is thought to be solidified inorganic solutions.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [SOLIDIFIED SOLUTIONS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W353, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W353	Handling:	CH	NMVP #:	N/A	Stream Name:	SOLIDIFIED SOLUTIONS:Cert-repack	Inventory Date:
Local ID:	ID-BTO-050TN	Type:	TRU	Generator Site:	BT	Final Waste Form:	Solidified Inorganics	Waste Matrix Code: S3113

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	461.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	4.2	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Source Information Not Compiled

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-239	1.20E-01
Np-237	3.33E-04

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste stream is from Bettis Atomic Power Laboratory. It consists of a single drum of TRU. No more information is available, but the waste is thought to be solidified inorganic solutions.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [SOLIDIFIED SOLUTIONS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W353, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W354	Handling:	CH	NMVP #:	N/A	Stream Name:	GIBSON SALTS:Cert-repack	Inventory Date:	
Local ID:	ID-RFO-412TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Salt Waste	Waste Matrix Code:	S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	298.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

224

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	9.41E-05
Pu-241	3.48E+01
Pu-240	1.31E+00
Pu-239	5.77E+00
Pu-238	2.04E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste, generated at Rocky Flats Plant, consists of a halide salt mixture of CaCl2 and KCl used in an experimental pyroredox research and development project.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [GIBSON SALTS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W354, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W354	Handling:	CH	NMVP #:	N/A	Stream Name:	GIBSON SALTS:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-412TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Salt Waste	Waste Matrix Code:	S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	182.2	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	23.5		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

224

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	9.41E-05
Pu-241	3.48E+01
Pu-240	1.31E+00
Pu-239	5.77E+00
Pu-238	2.04E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION	This waste, generated at Rocky Flats Plant, consists of a halide salt mixture of CaCl2 and KCl used in an experimental pyroredox research and development project.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [GIBSON SALTS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W354, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W355	Handling:	CH	NMVP #:	124	Stream Name:	ELECTROREFINING SALT:Cert-repack	Inventory Date:	
Local ID:	ID-RFO-411TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Salt Waste	Waste Matrix Code:	S3141

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	336.7	6.7	442.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

124, 224

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	4.75E-04
Pu-241	1.76E+02
Pu-240	6.60E+00
Pu-239	2.91E+01
Pu-238	1.03E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.1	0.0	0.0	0.0	0.0	1.1
Totals	1.1	0.0	0.0	0.0	0.0	1.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0
Totals	1.0	0.0	0.0	0.0	0.0	1.0

As-Generated Form: Stored: 1.1 Projected: 0.0 Total: 1.1

Final Waste Form: Stored: 1.0 Projected: 0.0 Total: 1.0

WASTE STREAM DESCRIPTION	This waste, generated at the Rocky Flats Plant, consists of fused halide salt mixtures of CaCl2, NaCl, KCl and MgCl2 from electrorefining processes. The waste was generated from cleanup of spent salts.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [ELECTROREFINING SALT] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W355, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W355	Handling:	CH	NMVP #:	124	Stream Name:	ELECTROREFINING SALT:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-411TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Salt Waste	Waste Matrix Code:	S3141

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	236.0	4.7	310.1
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	174.1		
Packaging Material Plastic:	26.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

124, 224

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-242	4.75E-04
Pu-241	1.76E+02
Pu-240	6.60E+00
Pu-239	2.91E+01
Pu-238	1.03E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.9 Projected: 0.0 Total: 0.9

WASTE STREAM DESCRIPTION	This waste, generated at the Rocky Flats Plant, consists of fused halide salt mixtures of $CaCl_2$, NaCl, KCl and $MgCl_2$ from electrorefining processes. The waste was generated from cleanup of spent salts.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [ELECTROREFINING SALT] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W355, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W356	Handling:	CH	NMVP #:	N/A	Stream Name:	MOLTEN SALTS - 30% PULVERIZED:Cert-repack	Inventory Date:	
Local ID:	ID-RFO-410TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Salt Waste	Waste Matrix Code:	S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	452.0	120.0	625.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

224

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	4.75E-05
Pu-241	1.76E+01
Pu-240	6.60E-01
Pu-239	2.91E+00
Pu-238	1.03E-01
Am-241	1.52E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	3.6	0.0	0.0	0.0	0.0	3.6
Totals	3.6	0.0	0.0	0.0	0.0	3.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.7	0.0	0.0	0.0	0.0	3.7
Totals	3.7	0.0	0.0	0.0	0.0	3.7

As-Generated Form: Stored: 3.6 Projected: 0.0 Total: 3.6

Final Waste Form: Stored: 3.7 Projected: 0.0 Total: 3.7

WASTE STREAM DESCRIPTION	This waste, generated at the Rocky Flats Plant, consists of a fused halide salt mixture of NaCl, KCl, and MgCl2, used to pyrochemically remove americium from plutonium metal. The waste was generated from cleanup of spent salts. Some of the containers are lead lined.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [MOLTEN SALTS - 30% PULVERIZED] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W356, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W356	Handling:	CH	NMVP #:	N/A	Stream Name:	MOLTEN SALTS - 30% PULVERIZED:Direct Ship
Local ID:	ID-RFO-410TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Salt Waste

Inventory Date:

Waste Matrix Code: S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	360.0	95.6	497.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	160.3		
Packaging Material Plastic:	29.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery
Effluents

TRUCON CODE

224

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	4.75E-05
Pu-241	1.76E+01
Pu-240	6.60E-01
Pu-239	2.91E+00
Pu-238	1.03E-01
Am-241	1.52E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.1	0.0	0.0	0.0	0.0	1.1
Totals	1.1	0.0	0.0	0.0	0.0	1.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	1.3	0.0	0.0	0.0	0.0	1.3

As-Generated Form: Stored: 1.1 Projected: 0.0 Total: 1.1

Final Waste Form: Stored: 1.3 Projected: 0.0 Total: 1.3

WASTE STREAM DESCRIPTION	This waste, generated at the Rocky Flats Plant, consists of a fused halide salt mixture of NaCl, KCl, and MgCl2, used to pyrochemically remove americium from plutonium metal. The waste was generated from cleanup of spent salts. Some of the containers are lead lined.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [MOLTEN SALTS - 30% PULVERIZED] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W356, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W357	Handling:	CH	NMVP #:	N/A	Stream Name:	FLUID BED ASH:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-425TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	7.13E-06
Pu-241	2.64E+00
Pu-240	9.91E-02
Pu-239	4.37E-01
Pu-238	1.54E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION	This waste , generated at the Rocky Flats Plant,consists of ash generated from the experimental pilot and demonstration fluid bed incinerator plants. Combustibles used for experiments were contaminated with low levels of Pu. Ash is packaged in standard RFP drums. Drums were assayed and fissile quantities calculated.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [FLUID BED ASH] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W357, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W357	Handling:	CH	NMVP #:	N/A	Stream Name:	FLUID BED ASH:Uncertifiable	Inventory Date:	
Local ID:	ID-RFO-425TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-242	1.43E-05
Pu-241	5.28E+00
Pu-240	1.98E-01
Pu-239	8.74E-01
Pu-238	3.08E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste , generated at the Rocky Flats Plant,consists of ash generated from the experimental pilot and demonstration fluid bed incinerator plants. Combustibles used for experiments were contaminated with low levels of Pu. Ash is packaged in standard RFP drums. Drums were assayed and fissile quantities calculated.
WASTE STREAM SOURCE	This record represents the [Uncertifiable] portion (80%) of the MWIR waste stream, [FLUID BED ASH] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W357, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W358	Handling:	CH	NMVP #:	N/A	Stream Name:	PU NEUTRON SOURCES:RH Direct Ship	Inventory Date:
Local ID:	ID-INL-152TN	Type:	TRU	Generator Site:	IN	Final Waste Form:	Uncategorized Metal	Waste Matrix Code: S5420

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	67.6	0.0	1148.0
Aluminum-base Metal/Alloys:	0.0	0.0	1.1
Other Metals/Alloys:	0.1	0.0	15.9
Other Inorganic Material:	1.7	0.0	16.9
Vitrified:	0.0	0.0	0.0
Cellulosics:	56.8	0.0	129.8
Rubber:	5.1	0.0	11.5
Plastics:	45.6	0.0	104.6
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	174.1		
Packaging Material Plastic:	26.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-240	5.81E+00
Pu-239	3.02E+00
Pu-238	6.65E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.9 Projected: 0.0 Total: 0.9

WASTE STREAM DESCRIPTION	This waste stream was generated at Argonne National Laboratory-West at the INEL. These wastes consist of noncombustible materials including Pu-Be neutron sources (small fuel samples, small sections of moderator, a pu standard, and pu foil), tools, hot cell operating equipment, various containers, and ferrous and nonferrous metals. Some combustible materials may include paper, plastic and PVC containers, rags, Q-tips, string mop heads, and an electrical plug strip and cord. The organic content is less than 14 lb/ft3. Combustibles, including packaging, may exceed 25 volume percent. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. These wastes are packaged three different ways, depending on when the packaging was done. Pu-Be sources packaged in 1975 were placed in a carbon steel pipe, which was cemented and encapsulated into the center of a 55-gallon drum. In 1978, Pu-Be sources were packaged in four 55-gallon drums. Wastes packed in 1980 were wrapped plastic, placed in paraffin lined 15 gallon drums, and then placed in 55-gallon drums. Some individual items may be unbagged.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (7.51%) of the MWIR waste stream, [PU NEUTRON SOURCES] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W358, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W358	Handling:	CH	NMVP #:	N/A	Stream Name:	PU NEUTRON SOURCES:CH-Cert-repack
Inventory Date:							
Local ID:	ID-INL-152TN	Type:	TRU	Generator Site:	IN	Final Waste Form:	Uncategorized Metal
Waste Matrix Code:	S5420						

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	96.2	0.0	1634.6
Aluminum-base Metal/Alloys:	0.0	0.0	1.6
Other Metals/Alloys:	0.1	0.0	22.7
Other Inorganic Material:	2.4	0.0	24.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	80.9	0.0	184.8
Rubber:	7.3	0.0	16.4
Plastics:	64.9	0.0	149.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-240	5.81E+00
Pu-239	3.02E+00
Pu-238	6.65E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bin	3.5	0.0	0.0	0.0	0.0	3.5
Totals	3.5	0.0	0.0	0.0	0.0	3.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.3	0.0	0.0	0.0	0.0	3.3
Totals	3.3	0.0	0.0	0.0	0.0	3.3

As-Generated Form: Stored: 3.5 Projected: 0.0 Total: 3.5

Final Waste Form: Stored: 3.3 Projected: 0.0 Total: 3.3

WASTE STREAM DESCRIPTION

This waste stream was generated at Argonne National Laboratory-West at the INEL. These wastes consist of noncombustible materials including Pu-Be neutron sources (small fuel samples, small sections of moderator, a pu standard, and pu foil), tools, hot cell operating equipment, various containers, and ferrous and nonferrous metals. Some combustible materials may include paper, plastic and PVC containers, rags, Q-tips, string mop heads, and an electrical plug strip and cord.

The organic content is less than 14 lb/ft3. Combustibles, including packaging, may exceed 25 volume percent. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste.

These wastes are packaged three different ways, depending on when the packaging was done. Pu-Be sources packaged in 1975 were placed in a carbon steel pipe, which was cemented and encapsulated into the center of a 55-gallon drum. In 1978, Pu-Be sources were packaged in four 55-gallon drums. Wastes packed in 1980 were wrapped plastic, placed in paraffin lined 15 gallon drums, and then placed in 55-gallon drums. Some individual items may be unbagged.

WASTE STREAM SOURCE

This record represents the [CH-Cert-repack] portion (58.84%) of the MWIR waste stream, [PU NEUTRON SOURCES] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W358, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5.

This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.

MANAGEMENT COMMENTS Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.

ACCEPTANCE COMMENTS N/A

FINAL FORM COMMENTS All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W358	Handling:	CH	NMVP #:	N/A	Stream Name:	PU NEUTRON SOURCES:CH-Uncertifiable	Inventory Date:	
Local ID:	ID-INL-152TN	Type:	TRU	Generator Site:	IN	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5420

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-240	1.93E+01
Pu-239	1.01E+01
Pu-238	2.21E+03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste stream was generated at Argonne National Laboratory-West at the INEL. These wastes consist of noncombustible materials including Pu-Be neutron sources (small fuel samples, small sections of moderator, a pu standard, and pu foil), tools, hot cell operating equipment, various containers, and ferrous and nonferrous metals. Some combustible materials may include paper, plastic and PVC containers, rags, Q-tips, string mop heads, and an electrical plug strip and cord. The organic content is less than 14 lb/ft3. Combustibles, including packaging, may exceed 25 volume percent. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. These wastes are packaged three different ways, depending on when the packaging was done. Pu-Be sources packaged in 1975 were placed in a carbon steel pipe, which was cemented and encapsulated into the center of a 55-gallon drum. In 1978, Pu-Be sources were packaged in four 55-gallon drums. Wastes packed in 1980 were wrapped plastic, placed in paraffin lined 15 gallon drums, and then placed in 55-gallon drums. Some individual items may be unbagged.
WASTE STREAM SOURCE	This record represents the [CH-Uncertifiable] portion (3.59%) of the MWIR waste stream, [PU NEUTRON SOURCES] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W358, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W358	Handling:	RH	NMVP #:	N/A	Stream Name:	PU NEUTRON SOURCES:RH-Cert-repack	Inventory Date:
Local ID:	ID-INL-152TN	Type:	TRU	Generator Site:	IN	Final Waste Form:	Uncategorized Metal	Waste Matrix Code: S5420

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	67.4	0.0	1146.1
Aluminum-base Metal/Alloys:	0.0	0.0	1.1
Other Metals/Alloys:	0.1	0.0	15.9
Other Inorganic Material:	1.7	0.0	16.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	56.7	0.0	129.6
Rubber:	5.1	0.0	11.5
Plastics:	45.5	0.0	104.5
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-240	5.81E+00
Pu-239	3.02E+00
Pu-238	6.65E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.3	0.0	0.0	0.0	0.0	1.3
RH Insert	0.2	0.0	0.0	0.0	0.0	0.2
Totals	1.5	0.0	0.0	0.0	0.0	1.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	2.4	0.0	0.0	0.0	0.0	2.4
Totals	2.4	0.0	0.0	0.0	0.0	2.4

As-Generated Form: Stored: 1.5 Projected: 0.0 Total: 1.5

Final Waste Form: Stored: 2.4 Projected: 0.0 Total: 2.4

WASTE STREAM DESCRIPTION	This waste stream was generated at Argonne National Laboratory-West at the INEL. These wastes consist of noncombustible materials including Pu-Be neutron sources (small fuel samples, small sections of moderator, a pu standard, and pu foil), tools, hot cell operating equipment, various containers, and ferrous and nonferrous metals. Some combustible materials may include paper, plastic and PVC containers, rags, Q-tips, string mop heads, and an electrical plug strip and cord. The organic content is less than 14 lb/ft3. Combustibles, including packaging, may exceed 25 volume percent. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. These wastes are packaged three different ways, depending on when the packaging was done. Pu-Be sources packaged in 1975 were placed in a carbon steel pipe, which was cemented and encapsulated into the center of a 55-gallon drum. In 1978, Pu-Be sources were packaged in four 55-gallon drums. Wastes packed in 1980 were wrapped plastic, placed in paraffin lined 15 gallon drums, and then placed in 55-gallon drums. Some individual items may be unbagged.
WASTE STREAM SOURCE	This record represents the [RH-Cert-repack] portion (30.06%) of the MWIR waste stream, [PU NEUTRON SOURCES] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W358, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W359	Handling:	CH	NMVP #:	N/A	Stream Name:	NEUTRON SOURCES	Inventory Date:
Local ID:	ID-BTO-015TN	Type:	TRU	Generator Site:	BT	Final Waste Form:	Uncategorized Metal	Waste Matrix Code: S9000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Source Information Not Compiled

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-238	1.41E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 0.8 Projected: 0.0 Total: 0.8

WASTE STREAM DESCRIPTION	There is no descriptive or constituent information available for this waste, which was generated at Bettis Atomic Power Laboratory.
WASTE STREAM SOURCE	This waste stream was generated at UNK: UNK. The generating process is: UNK
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W360	Handling:	CH	NMVP #:	N/A	Stream Name:	MISCELLANEOUS SOURCES:RH Direct Ship	Inventory Date:	
Local ID:	ID-BTO-012TN	Type:	TRU	Generator Site:	BT	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S9000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	23.5		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Source Information Not Compiled

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION	There is no descriptive or constituent information available for this waste, which was generated at Bettis Atomic Power Laboratory.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [MISCELLANEOUS SOURCES] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W360, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W360	Handling:	CH	NMVP #:	N/A	Stream Name:	MISCELLANEOUS SOURCES:Cert-repack
Inventory Date:							
Local ID:	ID-BTO-012TN	Type:	TRU	Generator Site:	BT	Final Waste Form:	Uncategorized Metal
Waste Matrix Code:	S9000						

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Source Information Not Compiled

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	There is no descriptive or constituent information available for this waste, which was generated at Bettis Atomic Power Laboratory.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [MISCELLANEOUS SOURCES] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W360, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W361	Handling:	CH	NMVP #:	N/A	Stream Name:	SOOT:Direct Ship	Inventory Date:
Local ID:	ID-RFO-422TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code: S3111

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	156.3		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	2.48E-04
Pu-241	9.18E+01
Pu-240	3.45E+00
Pu-239	1.52E+01
Pu-238	5.37E-01
Am-241	6.57E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.1	0.0	0.0	0.0	0.0	1.1
Totals	1.1	0.0	0.0	0.0	0.0	1.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated Form: Stored: 1.1 Projected: 0.0 Total: 1.1

Final Waste Form: Stored: 1.5 Projected: 0.0 Total: 1.5

WASTE STREAM DESCRIPTION	This waste, generated at the Rocky Flats Plant, consists of flyash generated from periodic cleaning of the Pu recovery incinerator off-gas system. Ash is packaged in 1- and 2-quart PE bottles and then in standard RFP fashion in drums. Drums will hold up to 50 bottles depending on Pu content. Bottles are individually assayed and fissile quantities calculated.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [SOOT] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W361, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years..
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W361	Handling:	CH	NMVP #:	N/A	Stream Name:	SOOT:Uncertifiable	Inventory Date:	
Local ID:	ID-RFO-422TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3111

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-242	4.96E-04
Pu-241	1.84E+02
Pu-240	6.90E+00
Pu-239	3.04E+01
Pu-238	1.07E+00
Am-241	1.31E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	4.0	0.0	0.0	0.0	0.0	4.0
Totals	4.0	0.0	0.0	0.0	0.0	4.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated Form: Stored: 4.0 Projected: 0.0 Total: 4.0

Final Waste Form: Stored: 2.1 Projected: 0.0 Total: 2.1

WASTE STREAM DESCRIPTION	This waste, generated at the Rocky Flats Plant, consists of flyash generated from periodic cleaning of the Pu recovery incinerator off-gas system. Ash is packaged in 1- and 2-quart PE bottles and then in standard RFP fashion in drums. Drums will hold up to 50 bottles depending on Pu content. Bottles are individually assayed and fissile quantities calculated.
WASTE STREAM SOURCE	This record represents the [Uncertifiable] portion (80%) of the MWIR waste stream, [SOOT] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W361, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W362	Handling:	CH	NMVP #:	N/A	Stream Name:	ASH HEELS:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-421TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	152.4		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-242	7.88E-04
Pu-241	2.92E+02
Pu-240	1.10E+01
Pu-239	4.83E+01
Pu-238	1.71E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	4.2	0.0	0.0	0.0	0.0	4.2
Totals	4.2	0.0	0.0	0.0	0.0	4.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.0	0.0	0.0	0.0	0.0	4.0
SWB used to overpack 55 gallon drums	1.4	0.0	0.0	0.0	0.0	1.4
Totals	5.4	0.0	0.0	0.0	0.0	5.4

As-Generated Form: Stored: 4.2 Projected: 0.0 Total: 4.2

Final Waste Form: Stored: 5.4 Projected: 0.0 Total: 5.4

WASTE STREAM DESCRIPTION	This waste, generated at the Rocky Flats Plant, consists of ash heels generated from the recovery of Pu from incinerator ash. Ash is packaged in 0.5-and 1-gallon PE bottles and then in standard RFP fashion in drums. Drums will hold up to 25 bottles depending on Pu content. Bottles are individually assayed and fissile quantities calculated.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [ASH HEELS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W362, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W362	Handling:	CH	NMVP #:	N/A	Stream Name:	ASH HEELS:Uncertifiable	Inventory Date:	
Local ID:	ID-RFO-421TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.58E-03
Pu-241	5.83E+02
Pu-240	2.19E+01
Pu-239	9.66E+01
Pu-238	3.41E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	17.2	0.0	0.0	0.0	0.0	17.2
Totals	17.2	0.0	0.0	0.0	0.0	17.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	8.7	0.0	0.0	0.0	0.0	8.7
Totals	8.7	0.0	0.0	0.0	0.0	8.7

As-Generated Form: Stored: 17.2 Projected: 0.0 Total: 17.2

Final Waste Form: Stored: 8.7 Projected: 0.0 Total: 8.7

WASTE STREAM DESCRIPTION	This waste, generated at the Rocky Flats Plant, consists of ash heels generated from the recovery of Pu from incinerator ash. Ash is packaged in 0.5-and 1-gallon PE bottles and then in standard RFP fashion in drums. Drums will hold up to 25 bottles depending on Pu content. Bottles are individually assayed and fissile quantities calculated.
WASTE STREAM SOURCE	This record represents the [Uncertifiable] portion (80%) of the MWIR waste stream, [ASH HEELS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W362, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W363	Handling:	CH	NMVP #:	N/A	Stream Name:	VIRGIN INCINERATOR ASH:Direct Ship	Inventory Date:
Local ID:	ID-RFO-420TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code: S3111

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	174.1		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	3.18E-04
Pu-241	1.18E+02
Pu-240	4.42E+00
Pu-239	1.95E+01
Pu-238	6.88E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 0.9 Projected: 0.0 Total: 0.9

WASTE STREAM DESCRIPTION	This waste, generated at the Rocky Flats Plant, consists of ash generated in the Pu recovery incinerator. Ash is packaged in 0.5- and 1-gallon PE bottles and then in standard RFP fashion in drums. Drums will hold up to 25 bottles depending on Pu content. Bottles are individually assayed and fissile quantities calculated.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [VIRGIN INCINERATOR ASH] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W363, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W363	Handling:	CH	NMVP #:	N/A	Stream Name:	VIRGIN INCINERATOR ASH:Uncertifiable
Inventory Date:							
Local ID:	ID-RFO-420TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal
Waste Matrix Code:	S3111						

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-242	6.36E-04
Pu-241	2.35E+02
Pu-240	8.85E+00
Pu-239	3.90E+01
Pu-238	1.38E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.7	0.0	0.0	0.0	0.0	1.7
Totals	1.7	0.0	0.0	0.0	0.0	1.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0
Totals	1.0	0.0	0.0	0.0	0.0	1.0

As-Generated Form: Stored: 1.7 Projected: 0.0 Total: 1.7

Final Waste Form: Stored: 1.0 Projected: 0.0 Total: 1.0

WASTE STREAM DESCRIPTION	This waste, generated at the Rocky Flats Plant, consists of ash generated in the Pu recovery incinerator. Ash is packaged in 0.5- and 1-gallon PE bottles and then in standard RFP fashion in drums. Drums will hold up to 25 bottles depending on Pu content. Bottles are individually assayed and fissile quantities calculated.
WASTE STREAM SOURCE	This record represents the [Uncertifiable] portion (80%) of the MWIR waste stream, [VIRGIN INCINERATOR ASH] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W363, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W364	Handling:	CH	NMVP #:	N/A	Stream Name:	SAND, SLAG AND CRUCIBLES:Direct Ship	Inventory Date:
Local ID:	ID-RFO-392TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code: S3117

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-242	7.89E-04
Pu-241	2.92E+02
Pu-240	1.10E+01
Pu-239	4.84E+01
Pu-238	1.71E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.9 Projected: 0.0 Total: 0.9

WASTE STREAM DESCRIPTION	Specific information is not available for this content code. The waste stream is thought to be similar to content code 391, crucibles and sand. The operation which generated the waste is unknown. The waste packaging and handling procedures are unknown, although the waste form is thought to similar to content code 391.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [SAND, SLAG AND CRUCIBLES] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W364, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W364	Handling:	CH	NMVP #:	N/A	Stream Name:	SAND, SLAG AND CRUCIBLES:CH-Uncert	Inventory Date:
Local ID:	ID-RFO-392TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code: S3117

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	1.58E-03
Pu-241	5.84E+02
Pu-240	2.19E+01
Pu-239	9.67E+01
Pu-238	3.42E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.1	0.0	0.0	0.0	0.0	1.1
Totals	1.1	0.0	0.0	0.0	0.0	1.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated Form: Stored: 1.1 Projected: 0.0 Total: 1.1

Final Waste Form: Stored: 0.6 Projected: 0.0 Total: 0.6

WASTE STREAM DESCRIPTION	Specific information is not available for this content code. The waste stream is thought to be similar to content code 391, crucibles and sand. The operation which generated the waste is unknown. The waste packaging and handling procedures are unknown, although the waste form is thought to similar to content code 391.
WASTE STREAM SOURCE	This record represents the [CH-Uncert] portion (72%) of the MWIR waste stream, [SAND, SLAG AND CRUCIBLES] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W364, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W364	Handling:	RH	NMVP #:	N/A	Stream Name:	SAND, SLAG AND CRUCIBLES:RH-Uncert	Inventory Date:
Local ID:	ID-RFO-392TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code: S3117

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	1.58E-03
Pu-241	5.84E+02
Pu-240	2.19E+01
Pu-239	9.67E+01
Pu-238	3.42E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	1.2	0.0	0.0	0.0	0.0	1.2
Totals	1.2	0.0	0.0	0.0	0.0	1.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 1.2 Projected: 0.0 Total: 1.2

WASTE STREAM DESCRIPTION	Specific information is not available for this content code. The waste stream is thought to be similar to content code 391, crucibles and sand. The operation which generated the waste is unknown. The waste packaging and handling procedures are unknown, although the waste form is thought to similar to content code 391.
WASTE STREAM SOURCE	This record represents the [RH-Uncert] portion (8%) of the MWIR waste stream, [SAND, SLAG AND CRUCIBLES] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W364, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W365	Handling:	CH	NMVP #:	N/A	Stream Name:	CRUCIBLES AND SAND:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-391TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3117

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	2.17E-04
Pu-241	8.03E+01
Pu-240	3.02E+00
Pu-239	1.33E+01
Pu-238	4.70E-01
Am-241	6.68E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.1	0.0	0.0	0.0	0.0	1.1
Totals	1.1	0.0	0.0	0.0	0.0	1.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	1.3	0.0	0.0	0.0	0.0	1.3

As-Generated Form: Stored: 1.1 Projected: 0.0 Total: 1.1

Final Waste Form: Stored: 1.3 Projected: 0.0 Total: 1.3

WASTE STREAM DESCRIPTION	This waste consists of broken magnesium oxide crucibles and limited amounts of magnesium oxide sand, used in a molten salt cleanup project when reducing plutonium tetrafluoride to plutonium metal. Above-discard levels of plutonium were recovered from these crucibles by nitric acid leaching. The waste stream handling and packaging is as follows: the crucibles were placed into 1-gallon PE bottles. Each bottle was double-bagged out the glovebox in PVC and PE bags. Each bottle was assayed and the placed in prepared 55-gallon drums, about 12-16 bottles per drum. Some of the drums were lead-lined. Prior to 1972, the drums were lined with one or two PE bags, which were sealed with tape. Some of the drums may have cardboard liners inside of the inner liner. After 1972, 90-mil sealed rigid liners were used in addition to one or two PE bags. Since 1972, drums were inspected (and corrected where needed) for free liquids, proper packaging, and proper content code. One to two quarts of Oil-dri was placed on the outer sealed PE drum bag. Starting in February 1982, 3-12 lb of vermiculite was used to fill the space between the outer drum bag and the rigid liner.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [CRUCIBLES AND SAND] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W365, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W365	Handling:	CH	NMVP #:	N/A	Stream Name:	CRUCIBLES AND SAND:CH-Uncert	Inventory Date:
Local ID:	ID-RFO-391TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code: S3117

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	7.23E-04
Pu-241	2.68E+02
Pu-240	1.01E+01
Pu-239	4.43E+01
Pu-238	1.57E+00
Am-241	2.22E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	3.2	0.0	0.0	0.0	0.0	3.2
Totals	3.2	0.0	0.0	0.0	0.0	3.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0
Totals	1.0	0.0	0.0	0.0	0.0	1.0

As-Generated Form: Stored: 3.2 Projected: 0.0 Total: 3.2

Final Waste Form: Stored: 1.0 Projected: 0.0 Total: 1.0

WASTE STREAM DESCRIPTION	This waste consists of broken magnesium oxide crucibles and limited amounts of magnesium oxide sand, used in a molten salt cleanup project when reducing plutonium tetrafluoride to plutonium metal. Above-discard levels of plutonium were recovered from these crucibles by nitric acid leaching. The waste stream handling and packaging is as follows: the crucibles were placed into 1-gallon PE bottles. Each bottle was double-bagged out the glovebox in PVC and PE bags. Each bottle was assayed and the placed in prepared 55 gallon drums, about 12-16 bottles per drum. Some of the drums were lead-lined. Prior to 1972, the drums were lined with one or two PE bags, which were sealed with tape. Some of the drums may have cardboard liners inside of the inner liner. After 1972, 90-mil sealed rigid liners were used in addition to one or two PE bags. Since 1972, drums were inspected (and corrected where needed) for free liquids, proper packaging, and proper content code. One to two quarts of Oil-dri was placed on the outer sealed PE drum bag. Starting in February 1982, 3-12 lb of vermiculite was used to fill the space between the outer drum bag and the rigid liner.
WASTE STREAM SOURCE	This record represents the [CH-Uncert] portion (72%) of the MWIR waste stream, [CRUCIBLES AND SAND] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W365, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W365	Handling:	RH	NMVP #:	N/A	Stream Name:	CRUCIBLES AND SAND:RH-Uncert	Inventory Date:
Local ID:	ID-RFO-391TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code: S3117

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-242	7.23E-04
Pu-241	2.68E+02
Pu-240	1.01E+01
Pu-239	4.43E+01
Pu-238	1.57E+00
Am-241	2.22E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	1.2	0.0	0.0	0.0	0.0	1.2
Totals	1.2	0.0	0.0	0.0	0.0	1.2

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 1.2 Projected: 0.0 Total: 1.2

WASTE STREAM DESCRIPTION	This waste consists of broken magnesium oxide crucibles and limited amounts of magnesium oxide sand, used in a molten salt cleanup project when reducing plutonium tetrafluoride to plutonium metal. Above-discard levels of plutonium were recovered from these crucibles by nitric acid leaching. The waste stream handling and packaging is as follows: the crucibles were placed into 1-gallon PE bottles. Each bottle was double-bagged out the glovebox in PVC and PE bags. Each bottle was assayed and the placed in prepared 55 gallon drums, about 12-16 bottles per drum. Some of the drums were lead-lined. Prior to 1972, the drums were lined with one or two PE bags, which were sealed with tape. Some of the drums may have cardboard liners inside of the inner liner. After 1972, 90-mil sealed rigid liners were used in addition to one or two PE bags. Since 1972, drums were inspected (and corrected where needed) for free liquids, proper packaging, and proper content code. One to two quarts of Oil-dri was placed on the outer sealed PE drum bag. Starting in February 1982, 3-12 lb of vermiculite was used to fill the space between the outer drum bag and the rigid liner.
WASTE STREAM SOURCE	This record represents the [RH-Uncert] portion (8%) of the MWIR waste stream, [CRUCIBLES AND SAND] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W365,.reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W366	Handling:	CH	NMVP #:	N/A	Stream Name:	LECO CRUCIBLES:Cert-repack	Inventory Date:
Local ID:	ID-RFO-370TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code: S3117

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	293.0	48.1	1149.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Analytical Laboratory Waste

TRUCON CODE

222

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.18E-04
Pu-241	4.37E+01
Pu-240	1.64E+00
Pu-239	7.23E+00
Pu-238	2.56E-01
Am-241	1.52E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.9	0.0	0.0	0.0	0.0	1.9
Totals	1.9	0.0	0.0	0.0	0.0	1.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated Form: Stored: 1.9 Projected: 0.0 Total: 1.9

Final Waste Form: Stored: 2.1 Projected: 0.0 Total: 2.1

WASTE STREAM DESCRIPTION	This waste stream includes blank LECO crucibles and caps used for sample analysis. The crucibles are 1 inch high by 1 inch diameter, made of fired silica based ceramic. The crucibles were used to calibrate the LECO anlayzer, and contain fused amounts of accelerating metals (iron, tin, copper, titanium, stainless steel, etc.) used for blank calibration. The crucibles should be unbroken except for those generated prior to 1975, which were broken before packaging. Even when broken, there should be minimal respirable or dispersable fines which would not exceed the WIPP-WAC. The waste stream handling and packaging is as follows: blank crucibles and caps were placed into 1-gallon metal paint cans, about 150-200 per can. The can lid was placed and sealed with tape. each paint can was double-bagged out the glovebox in PVC or PE-PVC bags and placed in prepared 55-gallon drums, about 20-25 cans per drum. Prior to 1972, 90-mil sealed rigid liners were used in addition to the two PE bags. Since 1972, drums were inspected (and corrected where needed) for free liquids, proper packaging, and proper content code. One to two quarts of Oil-dri was placed on the outer sealed PE drum bag. Starting in February 1982, 3-12 lb of vermiculite was used to fill the space between the outer drum bag and the rigid liner.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [LECO CRUCIBLES] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W366, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 6.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W366	Handling:	CH	NMVP #:	N/A	Stream Name:	LECO CRUCIBLES:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-370TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3117

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	222.0	36.4	870.7
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	165.9		
Packaging Material Plastic:	28.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Analytical Laboratory Waste

TRUCON CODE

222

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-242	1.18E-04
Pu-241	4.37E+01
Pu-240	1.64E+00
Pu-239	7.23E+00
Pu-238	2.56E-01
Am-241	1.52E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	1.1	0.0	0.0	0.0	0.0	1.1

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 1.1 Projected: 0.0 Total: 1.1

WASTE STREAM DESCRIPTION	This waste stream includes blank LECO crucibles and caps used for sample analysis. The crucibles are 1 inch high by 1 inch diameter, made of fired silica based ceramic. The crucibles were used to calibrate the LECO anlayzer, and contain fused amounts of accelerating metals (iron, tin, copper, titanium, stainless steel, etc.) used for blank calibration. The crucibles should be unbroken except for those generated prior to 1975, which were broken before packaging. Even when broken, there should be minimal respirable or dispersable fines which would not exceed the WIPP-WAC. The waste stream handling and packaging is as follows: blank crucibles and caps were placed into 1-gallon metal paint cans, about 150-200 per can. The can lid was placed and sealed with tape. each paint can was double-bagged out the glovebox in PVC or PE-PVC bags and placed in prepared 55-gallon drums, about 20-25 cans per drum. Prior to 1972, 90-mil sealed rigid liners were used in addition to the two PE bags. Since 1972, drums were inspected (and corrected where needed) for free liquids, proper packaging, and proper content code. One to two quarts of Oil-dri was placed on the outer sealed PE drum bag. Starting in February 1982, 3-12 lb of vermiculite was used to fill the space between the outer drum bag and the rigid liner.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [LECO CRUCIBLES] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W366, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W367	Handling:	CH	NMVP #:	N/A	Stream Name:	GRAPHITE HEELS:Uncertifiable	Inventory Date:	
Local ID:	ID-RFO-311TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3110

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	2.42E-02
Pu-241	8.97E+03
Pu-240	3.37E+02
Pu-239	1.49E+03
Pu-238	5.25E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	3.2	0.0	0.0	0.0	0.0	3.2
Totals	3.2	0.0	0.0	0.0	0.0	3.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 3.2 Projected: 0.0 Total: 3.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste stream was generated at the Rocky Flats Plant. Graphite heels are the remaining insoluble residue generated from leaching graphite scarfings with hot nitric acid. The 6 waste drums contain fines. This box may contain graphite molds and other foundry supplies from a cleanup after a fire in Building 776. The graphite heels are residues of dried filter cake. The waste is almost entirely carbon powder granules. The waste should be inert in storage, but it is essentially 100% combustible. The waste is packaged with no free liquids, sludges, explosives, compressed gases, pyrophoric, hazardous or corrosive materials. Graphite heels are collected into 1-gal PE bottles. Each bottle is sealed inside PVC and PE bags, and then assayed. About 15-20 bottles will fit into a drum. Drums and the box were packed according to the usual pre-1972 and post 1972 procedures. Since 1972, the drums were also processed according to inspection and sealing procedures, and, since 1982 vermiculite instead of Oil-Dri was placed on top of the outer sealed PE drum bag. Assay method for the box is unknown.
WASTE STREAM SOURCE	This record represents the [Uncertifiable] portion (5.73%) of the MWIR waste stream, [GRAPHITE HEELS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W367, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W367	Handling:	CH	NMVP #:	N/A	Stream Name:	GRAPHITE HEELS:Direct Ship	Inventory Date:
Local ID:	ID-RFO-311TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Graphite	Waste Matrix Code: S3110

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	147.3		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	2.42E-04
Pu-241	8.97E+01
Pu-240	3.37E+00
Pu-239	1.49E+01
Pu-238	5.25E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.3	0.0	0.0	0.0	0.0	1.3
Totals	1.3	0.0	0.0	0.0	0.0	1.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.7	0.0	0.0	0.0	0.0	3.7
SWB used to overpack 55 gallon drums	0.9	0.0	0.0	0.0	0.0	0.9
Totals	4.7	0.0	0.0	0.0	0.0	4.7

As-Generated Form: Stored: 1.3 Projected: 0.0 Total: 1.3

Final Waste Form: Stored: 4.7 Projected: 0.0 Total: 4.7

WASTE STREAM DESCRIPTION	This waste stream was generated at the Rocky Flats Plant. Graphite heels are the remaining insoluble residue generated from leaching graphite scarfings with hot nitric acid. The 6 waste drums contain fines. This box may contain graphite molds and other foundry supplies from a cleanup after a fire in Building 776. The graphite heels are residues of dried filter cake. The waste is almost entirely carbon powder granules. The waste should be inert in storage, but it is essentially 100% combustible. The waste is packaged with no free liquids, sludges, explosvies, compressed gases, pyrophoric, hazardous or corrosive materials. Graphite heels are collected into 1-gal PE bottles. Each bottle is sealed inside PVC and PE bags, and then assayed. About 15-20 bottles will fit into a drum. Drums and the box were packed according to the usual pre-1972 and post 1972 procedures. Since 1972, the drums were also processed according to inspection and sealing procedures, and, since 1982 vermiculite instead of Oil-Dri was placed on top of the outer sealed PE drum bag. Assay method for the box is unknown.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (94.27%) of the MWIR waste stream, [GRAPHITE HEELS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W367, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W368	Handling:	CH	NMVP #:	N/A	Stream Name:	GRAPHITE SCARFINGS:Uncertifiable	Inventory Date:	
Local ID:	ID-RFO-310TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3110

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-242	6.22E-03
Pu-241	2.30E+03
Pu-240	8.64E+01
Pu-239	3.81E+02
Pu-238	1.35E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	2.8	0.0	0.0	0.0	0.0	2.8
Totals	2.8	0.0	0.0	0.0	0.0	2.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 2.8 Projected: 0.0 Total: 2.8

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste stream was generated at the Rocky Flats Plant. Graphite scarfings are the pieces of graphite waste generated from scarfing or scraping graphite molds to remove adhered plutonium. The scarfings were not leached with nitric acid to recover plutonium, because the plutonium content was not at above-discard levels. Scarfings which had above-discard plutonium levels were leached and then identified as content code 311. This waste is almost entirely carbon powder and granules. The waste should be inert in storage, but it is essentially 100% combustible. The waste is packaged with no free liquids, sludges, explosives, compressed gases, pyrophoric or corrosive materials. Scarfings are collected into 1-gallon PE bottles. Each bottle is sealed inside PVC and PE bags, and then assayed. About 15-20 bottles will fit into a drum. Drums were packed according to the usual pre-1972 and post 1972 procedures. Since 1972, the drums were also processed according to inspection and sealing procedures, and, since 1982, vermiculite instead of Oil-dri was placed on top of the outer sealed PE drum bag.
WASTE STREAM SOURCE	This record represents the [Uncertifiable] portion (80%) of the MWIR waste stream, [GRAPHITE SCARFINGS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W368, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W368	Handling:	CH	NMVP #:	N/A	Stream Name:	GRAPHITE SCARFINGS:Direct Ship	Inventory Date:
Local ID:	ID-RFO-310TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Graphite	Waste Matrix Code: S3110

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	165.9		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-242	6.22E-05
Pu-241	2.30E+01
Pu-240	8.64E-01
Pu-239	3.81E+00
Pu-238	1.35E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	*1.1*	*0.0*	*0.0*	*0.0*	*0.0*	*1.1*

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 1.1 Projected: 0.0 Total: 1.1

WASTE STREAM DESCRIPTION	This waste stream was generated at the Rocky Flats Plant. Graphite scarfings are the pieces of graphite waste generated from scarfing or scraping graphite molds to remove adhered plutonium. The scarfings were not leached with nitric acid to recover plutonium, because the plutonium content was not at above-discard levels. Scarfings which had above-discard plutonium levels were leached and then identified as content code 311. This waste is almost entirely carbon powder and granules. The waste should be inert in storage, but it is essentially 100% combustible. The waste is packaged with no free liquids, sludges, explosives, compressed gases, pyrophoric or corrosive materials. Scarfings are collected into 1-gallon PE bottles. Each bottle is sealed inside PVC and PE bags, and then assayed. About 15-20 bottles will fit into a drum. Drums were packed according to the usual pre-1972 and post 1972 procedures. Since 1972, the drums were also processed according to inspection and sealing procedures, and, since 1982, vermiculite instead of Oil-dri was placed on top of the outer sealed PE drum bag.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [GRAPHITE SCARFINGS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W368, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W369	Handling:	CH	NMVP #:	115	Stream Name:	SCARFED GRAPHITE CHUNKS:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-303TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Graphite	Waste Matrix Code:	S5126

AS-GENERATED EPA CODES

APP6

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	293.3	32.2	349.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	154.7		
Packaging Material Plastic:	31.3		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

115

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	1.11E-04
Pu-241	4.12E+01
Pu-240	1.55E+00
Pu-239	6.83E+00
Pu-238	2.41E-01
Am-241	1.51E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	2.5	0.0	0.0	0.0	0.0	2.5
Totals	2.5	0.0	0.0	0.0	0.0	2.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.3	0.0	0.0	0.0	0.0	2.3
SWB used to overpack 55 gallon drums	0.9	0.0	0.0	0.0	0.0	0.9
Totals	3.2	0.0	0.0	0.0	0.0	3.2

As-Generated Form: Stored: 2.5 Projected: 0.0 Total: 2.5

Final Waste Form: Stored: 3.2 Projected: 0.0 Total: 3.2

WASTE STREAM DESCRIPTION	After the casting of plutonium in production foundry operations, Item Description Code (IDC) 300 and 301 wastes were mechanically cleaned using a hand-held rotary type sanding tool to grind off contamination, generating scarfed graphite chunks. The mechanical cleaning (scarfing) of the mold surface removed most of the mold coating and plutonium contamination.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [SCARFED GRAPHITE CHUNKS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W369, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegre,ated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W369	Handling:	CH	NMVP #:	115	Stream Name:	SCARFED GRAPHITE CHUNKS:Cert-repack	Inventory Date:	
Local ID:	ID-RFO-303TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Graphite	Waste Matrix Code:	S5126

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	351.0	38.5	418.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

115

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-242	1.11E-04
Pu-241	4.12E+01
Pu-240	1.55E+00
Pu-239	6.83E+00
Pu-238	2.41E-01
Am-241	1.51E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	9.8	0.0	0.0	0.0	0.0	9.8
Totals	9.8	0.0	0.0	0.0	0.0	9.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	10.0	0.0	0.0	0.0	0.0	10.0
Totals	10.0	0.0	0.0	0.0	0.0	10.0

As-Generated Form: Stored: 9.8 Projected: 0.0 Total: 9.8

Final Waste Form: Stored: 10.0 Projected: 0.0 Total: 10.0

WASTE STREAM DESCRIPTION	After the casting of plutonium in production foundry operations, Item Description Code (IDC) 300 and 301 wastes were mechanically cleaned using a hand-held rotary type sanding tool to grind off contamination, generating scarfed gr phite chunks. The mechanical cleaning (scarfing) of the mold surface removed most of the mold coating and plutonium contamination.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [SCARFED GRAPHITE CHUNKS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W369, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total Inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W370	Handling:	CH	NMVP #:	N/A	Stream Name:	GRAPHITE WASTE:Direct Ship	Inventory Date:
Local ID:	ID-RFO-115TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Graphite	Waste Matrix Code: S5126

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	308.0	33.8	366.7
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	148.7		
Packaging Material Plastic:	32.7		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

115

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-235	1.18E-06
Pu-242	1.36E-04
Pu-241	5.05E+01
Pu-240	1.90E+00
Pu-239	8.36E+00
Pu-238	2.95E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	13.4	0.0	0.0	0.0	0.0	13.4
Totals	13.4	0.0	0.0	0.0	0.0	13.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	11.9	0.0	0.0	0.0	0.0	11.9
SWB used to overpack 55 gallon drums	3.3	0.0	0.0	0.0	0.0	3.3
Totals	15.2	0.0	0.0	0.0	0.0	15.2

As-Generated Form: Stored: 13.4 Projected: 0.0 Total: 13.4

Final Waste Form: Stored: 15.2 Projected: 0.0 Total: 15.2

WASTE STREAM DESCRIPTION	TRU (for WIPP) graphite waste consists of discarded graphite molds, laboratory equipment and furnace equipment (whole pieces) from plutonium casting of laboratory operations. The IDCs packaged and included in 115 are 300 and 303.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [GRAPHITE WASTE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W370, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W370	Handling:	CH	NMVP #:	N/A	Stream Name:	GRAPHITE WASTE:Cert-repack	Inventory Date:
Local ID:	ID-RFO-115TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Graphite	Waste Matrix Code: S5126

AS-GENERATED EPA CODES

APP8

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	351.0	38.5	418.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

115

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
U-235	1.18E-06
Pu-242	1.36E-04
Pu-241	5.05E+01
Pu-240	1.90E+00
Pu-239	8.36E+00
Pu-238	2.95E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	53.4	0.0	0.0	0.0	0.0	53.4
Totals	53.4	0.0	0.0	0.0	0.0	53.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	53.5	0.0	0.0	0.0	0.0	53.5
Totals	53.5	0.0	0.0	0.0	0.0	53.5

As-Generated Form: Stored: 53.4 Projected: 0.0 Total: 53.4

Final Waste Form: Stored: 53.5 Projected: 0.0 Total: 53.5

WASTE STREAM DESCRIPTION	TRU (for WIPP) graphite waste consists of discarded graphite molds, laboratory equipment and furnace equipment (whole pieces) from plutonium casting of laboratory operations. The IDCs packaged and included in 115 are 300 and 303.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [GRAPHITE WASTE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W370, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W371	Handling:	CH	NMVP #:	N/A	Stream Name:	ZINC MAGNESIUM ALLOY METAL:Cert-repack	Inventory Date:	
Local ID:	ID-RFO-416TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	615.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

217

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-242	7.62E-04
Pu-241	2.82E+02
Pu-240	1.06E+01
Pu-239	4.67E+01
Pu-238	1.65E+00
Am-241	5.02E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste come from the Rocky Flats Plant. It consists of one lead-lined drum of small billets of zinc-magnesium alloy metal used in a research and development salt cleanup project. The billets are individually packaged in a produce can and sealed with a roll seam. Each can is contained in two plastic bags and then placed in a stainless steel can. Approximately 50 stainless steel cans are loaded in a single drum.
WASTE STREAM SOURCE	This record represents the [Cert-repack] portion (80%) of the MWIR waste stream, [ZINC MAGNESIUM ALLOY METAL] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W371, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W371	Handling:	CH	NMVP #:	N/A	Stream Name:	ZINC MAGNESIUM ALLOY METAL:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-416TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	376.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	23.5		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

217

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Pu-242	7.62E-04
Pu-241	2.82E+02
Pu-240	1.06E+01
Pu-239	4.67E+01
Pu-238	1.65E+00
Am-241	5.02E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION	This waste come from the Rocky Flats Plant. It consists of one lead-lined drum of small billets of zinc-magnesium alloy metal used in a research and development salt cleanup project. The billets are individually packaged in a produce can and sealed with a roll seam. Each can is contained in two plastic bags and then placed in a stainless steel can. Approximately 50 stainless steel cans are loaded in a single drum.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [ZINC MAGNESIUM ALLOY METAL] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W371, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W372	Handling:	CH	NMVP #:	N/A	Stream Name:	MET SAMPLES FISSILE:Direct Ship	Inventory Date:	
Local ID:	ID-BTO-081TN	Type:	TRU	Generator Site:	BT	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S3100

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	160.3		
Packaging Material Plastic:	29.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Source Information Not Compiled

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	1.3	0.0	0.0	0.0	0.0	1.3

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 1.3 Projected: 0.0 Total: 1.3

WASTE STREAM DESCRIPTION	There is no descriptive or constituent information available for this waste, which was generated at Bettis Atomic Power Laboratory.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [MET SAMPLES FISSILE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W372, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W372	Handling:	RH	NMVP #:	N/A	Stream Name:	MET SAMPLES FISSILE:RH-Cert-repack	Inventory Date:
Local ID:	ID-BTO-081TN	Type:	TRU	Generator Site:	BT	Final Waste Form:	Uncategorized Metal	Waste Matrix Code: S3100

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Source Information Not Compiled

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	3.0	0.0	0.0	0.0	0.0	3.0
Totals	3.0	0.0	0.0	0.0	0.0	3.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	4.7	0.0	0.0	0.0	0.0	4.7
Totals	4.7	0.0	0.0	0.0	0.0	4.7

As-Generated Form: Stored: 3.0 Projected: 0.0 Total: 3.0

Final Waste Form: Stored: 4.7 Projected: 0.0 Total: 4.7

WASTE STREAM DESCRIPTION	There is no descriptive or constituent information available for this waste, which was generated at Bettis Atomic Power Laboratory.
WASTE STREAM SOURCE	This record represents the [RH-Cert-repack] portion (80%) of the MWIR waste stream, [MET SAMPLES FISSILE] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W372, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W373	Handling:	CH	NMVP #:	N/A	Stream Name:	INSULATION HEELS:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-361TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3110

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.2		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	8.92E-04
Pu-241	3.30E+02
Pu-240	1.24E+01
Pu-239	5.46E+01
Pu-238	1.93E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.7	0.0	0.0	0.0	0.0	0.7

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.7 Projected: 0.0 Total: 0.7

WASTE STREAM DESCRIPTION	This waste stream, generated at the Rocky Flats Plant, consists of insoluble residue (heel) of filter media and insulation from HF and HNO3 washing procedures to recover plutonium. This single drum of this waste was received in 1972. There is a likelihood of excessive fines. This waste is inorganic. The organic material, excluding the 90 mil drum liner, is less than 20 lb (2.7 lb/ft3). Significant amounts of fines may be present. No sludges or free liquids should be present. No explosive pyrophoric, or corrosive materials should be in this waste, except for some residual amounts of nitric acid. There is only one drum of this waste. The waste is packaged in vollrath stainless steel cans and/or 1/2- or 1-gallon PE bottles. Depending on when the waste was generated, the drum was packed according to the usual pre-1972 and post 1972 procedures. The drum was assayed.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [INSULATION HEELS] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W373, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W373	Handling:	CH	NMVP #:	N/A	Stream Name:	INSULATION HEELS:Uncertifiable	Inventory Date:
Local ID:	ID-RFO-361TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code: S3110

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	1.78E-03
Pu-241	6.60E+02
Pu-240	2.48E+01
Pu-239	1.09E+02
Pu-238	3.86E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste stream, generated at the Rocky Flats Plant, consists of insoluble residue (heel) of filter media and insulation from HF and HNO3 washing procedures to recover plutonium. This single drum of this waste was received in 1972. There is a likelikhood of excessive fines. This waste is inorganic. The organic material, excluding the 90 mil drum liner, is less than 20 lb (2.7 lb/ft3). Significant amounts of fines may be present. No sludges or free liquids should be present. No explosive pyrophoric, or corrosive materials should be in this waste, except for some residual amounts of nitric acid. There is only one drum of this waste. The waste is packaged in vollrath stainless steel cans and/or 1/2- or 1-gallon PE bottles. Depending on when the waste was generated, the drum was packed according to the usual pre-1972 and post 1972 procedures. The drum was assayed.
WASTE STREAM SOURCE	This record represents the [Uncertifiable] portion (80%) of the MWIR waste stream, [INSULATION HEELS] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W373, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W374	Handling:	CH	NMVP #:	N/A	Stream Name:	CONCRETE, ASPHALT, ETC.:Uncertifiable	Inventory Date:	
Local ID:	ID-RFO-960TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5420

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	1.25E-04
Pu-241	4.64E+01
Pu-240	1.74E+00
Pu-239	7.69E+00
Pu-238	2.71E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	7.8	0.0	0.0	0.0	0.0	7.8
Totals	7.8	0.0	0.0	0.0	0.0	7.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated Form: Stored: 7.8 Projected: 0.0 Total: 7.8

Final Waste Form: Stored: 2.1 Projected: 0.0 Total: 2.1

WASTE STREAM DESCRIPTION	This waste, generated at the Rocky Flats Plant, is primarily concrete and asphalt with limited amounts of dirt and combustibles. The code was replaced by 374 in 1973. Content code 374 is considered under the soils, asphalt, and sands waste stream. The major source for this waste is concrete from removal of six reinforced-concrete aqueous treatment tanks. Other sources include concrete from cutouts for doorways, and asphalt from a spill. Information about the waste is not complete. The waste is packaged in standard RFP drums and boxes.
WASTE STREAM SOURCE	This record represents the [Uncertifiable] portion (80%) of the MWIR waste stream, [CONCRETE, ASPHALT, ETC.] after processing. The proposed processing sequence is [SWEPP:segpk IWPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W374, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W374	Handling:	CH	NMVP #:	N/A	Stream Name:	CONCRETE, ASPHALT, ETC.:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-960TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5420

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	276.3	7.7	767.7
Vitrified:	0.0	0.0	0.0
Cellulosics:	10.6	10.6	10.6
Rubber:	0.0	0.0	0.0
Plastics:	10.6	10.6	10.6
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	57.5	8.5	767.7
Packaging Material Steel:	147.3		
Packaging Material Plastic:	33.1		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-242	3.14E-05
Pu-241	1.16E+01
Pu-240	4.36E-01
Pu-239	1.92E+00
Pu-238	6.79E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	1.9	0.0	0.0	0.0	0.0	1.9
Totals	1.9	0.0	0.0	0.0	0.0	1.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.9	0.0	0.0	0.0	0.0	1.9
SWB used to overpack 55 gallon drums	0.5	0.0	0.0	0.0	0.0	0.5
Totals	2.3	0.0	0.0	0.0	0.0	2.3

As-Generated Form: Stored: 1.9 Projected: 0.0 Total: 1.9

Final Waste Form: Stored: 2.3 Projected: 0.0 Total: 2.3

WASTE STREAM DESCRIPTION	This waste, generated at the Rocky Flats Plant, is primarily concrete and asphalt with limited amounts of dirt and combustibles. The code was replaced by 374 in 1973. Content code 374 is considered under the soils, asphalt, and sands waste stream. The major source for this waste is concrete from removal of six reinforced-concrete aqueous treatment tanks. Other sources include concrete from cutouts for doorways, and asphalt from a spill. Information about the waste is not complete. The waste is packaged in standard RFP drums and boxes.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [CONCRETE, ASPHALT, ETC.] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W374, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W375	Handling:	CH	NMVP #:	N/A	Stream Name:	SLUDGE:Direct Ship	Inventory Date:	
Local ID:	ID-RFO-995TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3122

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	148.1		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (	Ci/m3)
Pu-242	3.70E-06
Pu-241	1.37E+00
Pu-240	5.15E-02
Pu-239	2.27E-01
Pu-238	8.02E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	3.8	0.0	0.0	0.0	0.0	3.8
Totals	3.8	0.0	0.0	0.0	0.0	3.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.5	0.0	0.0	0.0	0.0	3.5
SWB used to overpack 55 gallon drums	0.9	0.0	0.0	0.0	0.0	0.9
Totals	4.5	0.0	0.0	0.0	0.0	4.5

As-Generated Form: Stored: 3.8 Projected: 0.0 Total: 3.8

Final Waste Form: Stored: 4.5 Projected: 0.0 Total: 4.5

WASTE STREAM DESCRIPTION	This waste stream, generated at the Rocky Flats Plant, is sewage sludge from cleaning stabilization ponds. This waste also contains a limited number of drums containing sludge generated by plutonium recovery operations. The sludge may be moist or dry, and may consist of fines, chunks or pieces of dried cake. Shipment of sewer sludge to the INEL stopped in 1976. There are high levels of fines. In addition the drums may contain free liquids. The sewage sludge should contain less than 10 nCi/g TRU elements. The portion of the waste that is suspected to be TRU is addressed by this waste stream. Organic content in the sludge is not known. No free liquids should be present. No explosive, pyrophoric, or corrosive materials should be in the waste. Sewer sludge was placed directly into prepared 55-gallon drums until 1974. Drums were prepared according to pre and post-1972 procedures. Portland cement was added to the bottom and top of the inner bag. If the sludge was moist, portland cement was also added in layers with the sludge. Since 1974, packaging was changed to 4 x 4 x 7 ft fiberglass-reinforced polyester (FRP) coated plywood boxes due to the pressure buildup in the drums. Each box was lined with a PE bag and a cardboard liner. About 90 lb of portland cement was added to the bottom and top of each box. Fissile content of the sewage was determined by radiochemical analysis of sludge samples.
WASTE STREAM SOURCE	This record represents the [Direct Ship] portion (20%) of the MWIR waste stream, [SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W375, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	IN-W375	Handling:	CH	NMVP #:	N/A	Stream Name:	SLUDGE:Uncertifiable	Inventory Date:
Local ID:	ID-RFO-995TN	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code: S3122

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2500.0	2500.0	2500.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	7.41E-06
Pu-241	2.74E+00
Pu-240	1.03E-01
Pu-239	4.54E-01
Pu-238	1.60E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum	15.5	0.0	0.0	0.0	0.0	15.5
Totals	15.5	0.0	0.0	0.0	0.0	15.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	7.9	0.0	0.0	0.0	0.0	7.9
Totals	7.9	0.0	0.0	0.0	0.0	7.9

As-Generated Form: Stored: 15.5 Projected: 0.0 Total: 15.5

Final Waste Form: Stored: 7.9 Projected: 0.0 Total: 7.9

WASTE STREAM DESCRIPTION	This waste stream, generated at the Rocky Flats Plant, is sewage sludge from cleaning stabilization ponds. This waste also contains a limited number of drums containing sludge generated by plutonium recovery operations. The sludge may be moist or dry, and may consist of fines, chunks or pieces of dried cake. Shipment of sewer sludge to the INEL stopped in 1976. There are high levels of fines. In addition the drums may contain free liquids. The sewage sludge should contain less than 10 nCi/g TRU elements. The portion of the waste that is suspected to be TRU is addressed by this waste stream. Organic content in the sludge is not known. No free liquids should be present. No explosive, pyrophoric, or corrosive materials should be in the waste. Sewer sludge was placed directly into prepared 55-gallon drums until 1974. Drums were prepared according to pre and post-1972 procedures. Portland cement was added to the bottom and top of the inner bag. If the sludge was moist, portland cement was also added in layers with the sludge. Since 1974, packaging was changed to 4 x 4 x 7 ft fiberglass-reinforced polyester (FRP) coated plywood boxes due to the pressure buildup in the drums. Each box was lined with a PE bag and a cardboard liner. About 90 lb of portland cement was added to the bottom and top of each box. Fissile content of the sewage was determined by radiochemical analysis of sludge samples.
WASTE STREAM SOURCE	This record represents the [Uncertifiable] portion (80%) of the MWIR waste stream, [SLUDGE] after processing. The proposed processing sequence is [SWEPP:segpk WPF:segpk size incin vitrf TRANS:trans WIPP:disp]. This waste will be segregated during future characterization and processing activities. It currently exists only as the unsegregated waste stream, IN-W375, reported in the DOE National Core Mixed and TRU Waste Data Requirements. The storage data is reported in Section 4 and the generation data is reported in Section 5. This record is subject to redefinition based on changes in the availability/utilization of INEL's treatment resources. It is not recognized as an INEL waste stream. It represents a proposed approach to the processing of the unsegregated waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
MANAGEMENT COMMENTS	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.