



Department of Energy

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

SEP 27 2000



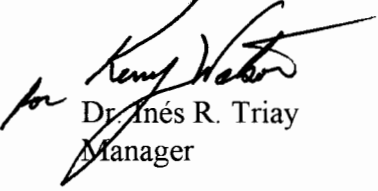
Mr. John Kieling, Manager
Hazardous Waste Permits Program
Hazardous and Radioactive Materials Bureau
New Mexico Environment Department
2044 Galesteo Street
Santa Fe, NM 87502-6110

Dear Mr. Kieling:

The Department of Energy, Carlsbad Area Office, has approved INEEL Waste Stream Profile Form INW276.004, Rev. 1. Enclosed is a copy of the approved form as required by Section B-4(b)(1) of the WIPP's Hazardous Waste Permit No. NM4890139088-TSDF.

Please contact Kerry Watson at 505-234-7357 should you have any questions regarding this matter.

Sincerely,


Dr. Inés R. Triay
Manager

Enclosure



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Mr. John Kieling

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cc w/enclosure:

S. Zappe, NMED

J. Plum, CAO

E. Rose, CAO

K. Watson, CAO

C. Walker, TechLaw

G. Barnes, WID

J. Cotton, WID

L. Stevens, WID

WIPP WASTE STREAM PROFILE FORM

Waste Stream Profile Number: INW276.004
 Generator site name: INEL Technical contact: Dr. Rodney Arbon
 Generator site EPA ID: ID4890008952 Technical contact phone number: (208) 526-1867
 Date site certified by CAD: June 14, 2000
 Title, version number, and date of documents used for WAC certification: See continuation sheet 1 - Heading: WAC Certification

Did your facility generate this waste? Yes No If no, provide the name and EPA ID of the original generator:
Rocky Flats Environmental Technology Site, CO7890010526

Waste Stream Information¹

WIPP ID: IN-W276, IN-W275, IN-W369, IN-W272 Summary Category Group: S5000
 Waste Matrix Code Group: S5126 Waste Stream Name: Graphite
 Description from the WTWBIR: See continuation sheet 1 - Heading: Waste Description

Defense TRU Waste: Yes No Spent Nuclear Fuel: Yes No High Level Waste: Yes No
 Check one: CH RH Number of SWBs 0 Number of Drums 242 Number of Canisters 0
 Data package numbers supporting this waste stream characterization: See Waste Stream Characterization Summary Report, Table 6

List applicable EPA Hazardous Waste Codes:² F001, F002, F005, D008, D029, D040 See continuation sheet 1 - Heading: Hazardous Determination

Applicable TRUCON Content Codes: ID115A, ID215A

Acceptable Knowledge Information¹

[For the following, enter supporting the documentation used (i.e., references and dates)]

Required Program Information

- Map of site: Acceptable Knowledge Document for INEL Stored Transuranic Waste - Rocky Flats Plant Waste, January 1998, INEL-96/0280, Figure 3.1; Drawing 175603 (BBWXT), Rev. 7. 2/24/00.
- Facility mission description: INEL-96/0280, Section 3.1: PLN-579
- Description of operations that generate waste: INEL-96/0280
- Waste identification/categorization schemes: INEL-96/0280, Section 3.3.2
- Types and quantities of waste generated: INEL-96/0280, Section 3.5, Sections 5-26; Inventory report from Transuranic Reporting, Inventory, and Processing System (TRIPS)
- Correlation of waste streams generated from the same building and process, as appropriate: INEL-96/0280, Section 3.2, Sections 5-26
- Waste certification procedures: PLN-579

Required Waste Stream Information

- Area(s) and building(s) from which the waste stream was generated: INEL-96/0280, Section 12, Waste Stream Summary Sheet - Graphite, EDF-1175, Rev. 4
- Waste stream volume and time period of generation: INEL-96/0280, Table 12-1, II K-4 Report
- Waste generating process description for each building: INEL-96/0280, Section 12.1
- Process flow diagrams: INEL-96/0280, Figure 12-1,
- Material inputs or other information identifying chemical/radionuclide content and physical waste form: INEL-96/0280, Section 12; EDF-1242, Default Plutonium Mass Fractions for Rocky Flats Plant Waste, Waste Stream Summary Sheet - Graphite, EDF-1175, Rev. 4

WIPP WASTE STREAM PROFILE FORM

G.E. Dials, "Identification of Defense Waste Streams Generated at Rocky Flats Environmental Technology Site (RFETS)," U.S. Department of Energy, memorandum to Jessie M. Robertson and John M. Wilcinski, May 20, 1997.

- Which Defense Activity generated the waste: (check one)

<input checked="" type="checkbox"/> Weapons activities including defense inertial confinement fusion	<input type="checkbox"/> Naval Reactors development
<input type="checkbox"/> Verification and control technology	<input type="checkbox"/> Defense research and development
<input type="checkbox"/> Defense nuclear waste and material by products management	<input type="checkbox"/> Defense nuclear material production
<input type="checkbox"/> Defense nuclear waste and materials security and safeguards and security investigations	

Supplemental Documentation

INEL 96/280 encompasses several different reference sources. Many of the references used fall into the supplemental documentation category.

- Process design documents: _____
- Standard operating procedures: NA
- Safety Analysis Reports: NA
- Waste packaging logs: NA
- Test plans/research project reports: NA
- Site databases: NA
- Information from site personnel: NA
- Standard industry documents: NA
- Previous analytical data: NA
- Material safety data sheets: NA
- Sampling and analysis data from comparable/surrogate Waste: NA
- Laboratory notebooks: NA

Sampling and Analysis Information

For the following, when applicable, enter procedure title(s), number(s) and date(s)

- Radiography: RWMC Technical Procedure (TPR)-1572, Operating the Real-Time Radioisopic (RTR) System (Rev. 25, Rev. 26, Rev. 27, Rev. 28, Rev. 29)
- Visual Examination: HPEF-OI-6890, Waste Characterization None of the drums reported in this WSPF have visual data, but this is the procedure used to visually examine drums used in establishing miscertification rates., Rev. 4a, 2/11/00
- Headspace Gas Analysis**
 - ACMM-9930, GC/MS for VOCs in Gas (Rev. 3 and Rev. 4), ACMM-9910, Analysis of Gas Samples for VOCs by GC/FID (Rev. 3), ACLP-4.10, Determination of Method Detection Limits for Gas Analysis, Rev. 2; ACLP-4.45, Gas Transfer Manifold Systems, Rev. 1
 - VOCs: _____
 - Flammable: ACMM-9920, Analysis of Gas Samples for Hydrogen and Methane by GC/TCD (Rev. 3)
 - Other gases (specify): N/A
- Homogeneous Solids/Soils/Gravel Sample Analysis**
 - Total metals: N/A for debris
 - PCBs: N/A for debris
 - VOCs: N/A for debris
 - Nonhalogenated VOCs: N/A for debris
 - Semi-VOCs: N/A for debris
 - Other (specify): N/A for debris

Waste Stream Profile Form Certification:

I hereby certify that I have reviewed the information in this Waste Stream Profile Form, and it is complete and accurate to the best of my knowledge. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Thomas Hugh Monk

Thomas Hugh Monk

9/26/2000

Signature of Site Project Manager

Printed Name and Title

Date

NOTE: (1) Use back of sheet or continuation sheets, if required.

(2) If radiography, visual examination, headspace gas analysis, and/or homogeneous solids/soils/gravel sample analysis were used to determine EPA Hazardous Waste Codes, use the appropriate code.

WIPP WASTE STREAM PROFILE FORM**Continuation Sheet 1:****WAC Certification Documents:**

- Program Plan for Certification of INEEL Contact-Handled Stored Transuranic Waste, Rev. 0, March 21, 2000, PLN-579
- TRUPACT-II Authorized Methods for Payload Compliance (TRAMPAC) Plan, PLN-577, 3/14/00
- INEEL TRU Waste Characterization, Certification, And Transportation Quality Program Plan, Rev 4., INEEL-PLN-182, 5/18/00
- Quality Assurance Project Plan for the Transuranic Waste Characterization Program, Rev. 6, PLN-190, 3/17/00

Waste Description:

WIPP-ID	Item Description Code (IDC)	Description
IN-W276	300	Graphite items including molds from plutonium casting operations, spacer and liners used in high temperature furnaces and ovens, electrodes, and pieces and chunks generated during mold cleaning. Generation buildings 371, 559, 707, 771, and 776.
IN-W275	301	Graphite cores. Generation buildings 371, 559, and 707.
IN-W369	303	Broken pieces of graphite mold generated from the mechanical cleaning (scarfing) of graphite molds and cores. Generation buildings 371 and 776.
IN-W272	312	Odd sized and shaped chunks of graphite generated from the mechanical cleaning (scarfing) of graphite molds. Generation buildings 371 and 776.

Hazardous Determination:

Ongoing characterization and acceptable knowledge activities are summarized in the attached Waste Stream Characterization Summary Report and the Acceptable Knowledge Waste Stream Summary Sheet. This waste stream consists of graphite waste generated at Rocky Flats outside of the plutonium casting operations in Building 707 in addition to Building 707 graphite mold drums that have been identified through RTR or visual examination to contain lead. This waste stream comprises approximately 20% of the total graphite waste in storage at the INEEL.

None of the acceptable knowledge for the graphite waste defined in the waste stream profile form indicates that the waste has contacted spent solvents. However, the INEEL does not have a statement from Rocky Flats that this graphite waste never contacted spent solvents. Without a definitive statement from the generator, the INEEL is taking the conservative approach of adding solvent codes based on headspace gas data (See Table 2). F001 and F002 have been added due to the detection of 1,1,1-trichloroethane, trichloroethylene, and methylene chloride in the waste stream. F005 has been added because of the potential presence of toluene. The actual source of the spent solvents has not been identified.

WIPP WASTE STREAM PROFILE FORM

Two toxicity codes have also been assigned to this waste stream based on headspace gas results. The toxicity codes for trichloroethylene (D040) and 1,1-dichloroethylene (D029) have also been added to the waste stream based on headspace gas results. (See Table 2)

Continuation Sheet 2:

Hazardous Determination (Continued):

In addition to the spent solvent codes added based on headspace gas concentrations, a small number of graphite drums (2 have been identified through RTR examination) also contain lead. The D008 code has been added to this WSPF. Any graphite waste, including that generated in Building 707, will be assigned to this WSPF if lead is detected during the characterization process.

Reconciliation with Data Quality Objectives

I certify by signature (below) that sufficient data have been collected to determine the following Program-required waste parameters:

Check	Reconciliation Parameter
✓	Waste Matrix Code as reported in WWIS.
✓	Waste Material Parameter Weights for individual containers as reported in WWIS.
✓	The waste matrix code identified is consistent with the type of sampling and analysis used to characterize the waste.
✓	The TRU activity reported in WWIS demonstrates that the waste is TRU waste and not low-level radioactive waste.
✓	The potential flammability of TRU waste headspace gases.
✓	Mean concentrations, upper 90% confidence limit (UCL ₉₀) values for the mean concentration standard deviations, and the number of samples collected for each VOC in the headspace gas of each container were calculated and compared with the program required quantitation limits, as reported in Waste Stream Characterization Summary Table 2, and additional EPA codes were assigned as required.
N/A	Mean concentrations, UCL ₉₀ for the mean concentrations, standard deviations, number of samples collected for metals were calculated and compared with the program required quantitation limits and regulatory thresholds, as reported in Waste Stream Characterization Summary Table 3, and EPA codes were assigned as required.
N/A	Mean concentrations, UCL ₉₀ for the mean concentrations, standard deviations, number of samples collected for total VOCs were calculated and compared with the program required quantitation limits and regulatory thresholds, as reported in Waste Stream Characterization Summary Table 4, and EPA codes were assigned as required.
N/A	Mean concentrations, UCL ₉₀ for the mean concentrations, standard deviations, number of samples collected for total SVOCs were calculated and compared with the program required quantitation limits and regulatory thresholds, as reported in Waste Stream Characterization Summary Table 5, and EPA codes were assigned as required.
✓	Waste stream evaluated to determine if it exhibits toxicity characteristic (TC) under 40 CFR Part 261, Subpart C and TC codes assigned as appropriate.
N/A	Sufficient number of samples were taken to meet statistical sampling requirements, as documented on Summary Data Report Table 1.
✓	Only validated data were used in the above calculations, as documented through the site data review and validation forms and process.
✓	Waste containers were selected randomly for sampling, as documented in site procedures.
✓	Sufficient number of waste containers have been visually examined to determine the UCL ₉₀ for the misclassification rate is less than 14%.
✓	All TICs were appropriately identified and reported in accordance with the requirements of Section B3-1 of the WAP prior to submittal of a waste stream profile form for a waste stream or waste stream lot.
✓	The overall completeness, comparability, and representativeness QAOs were met for each of the analytical and testing procedures as specified in the WAP Sections B3-2 through B3-9 prior to submittal of a waste stream profile form for a waste stream or waste stream lot.
✓	The PRLs for all analyses were met.

Check (✓) indicates that data are sufficient to determine the waste parameters and that the waste parameters have been reported in the listed document or database. NA indicates that parameter not applicable to the waste stream.

Thomas Hugh Monk
Signature of Site Project Manager

Thomas Hugh Monk
Printed Name

9/26/2000
Date

Table 1. Solid sampling summary.

Determination of Number of Containers to Sample (S3000, S4000)	
Preliminary Estimates of Mean, Variance, and Coefficient of Variation:	
Attach a table(s) that correlates container identification numbers to data packages, if different from containers used for characterization.	
Description of Source Data	<u>N/A</u>
Samples Randomly Selected from Waste Stream (yes/no)?	<u>N/A</u>
Treatment of less-than-detectable measurements:	<u>N/A</u>
Analytes that are listed as spent solvents and therefore are not included in the calculation to determine the number of containers to sample: <u>N/A</u>	
Selected coefficient of variation and associated analyte: <u>N/A</u>	
Total Calculated number of containers to sample: <u>N/A</u>	
Attach preliminary estimates: <u>N/A</u>	
Sampling Results	
Samples Randomly Selected from Waste Stream (yes/no)? <u>N/A</u>	
Analytes that are listed as spent solvents and therefore are not included in the UCL ₉₀ estimate calculation to determine the toxicity characteristic: <u>N/A</u>	
Largest Coefficient of Variation and associated analyte: <u>N/A</u>	
Comparison of largest coefficient of variation with coefficient of variation selected from preliminary estimate <u>N/A</u>	
Treatment of less-than-detectable measurements: <u>N/A</u>	
Transformations applied to data and justification: <u>N/A</u>	

Table 2. Headspace gas summary data.

Analyte	Number of samples	Number of samples above MDL ^a	Mean (ppmv)	Standard deviation (ppmv)	Upper 90% confidence limit (ppmv)	PRQL (ppmv)	EPA Code
1,1,1-Trichloroethane	21	19	21.8	38.2	53.5	10	F001, F002
1,1,2,2-Tetrachloroethane	21	0	0.112	0.175	^b	10	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	21	0	0.056	0.086	^b	10	N/A
1,1-Dichloroethane	21	0	0.064	0.098	^b	10	N/A
1,1-Dichloroethylene	21	2	5.12	20.9	50.7	10	D029
1,2,4-Trimethylbenzene	21	2	0.184	0.499	1.27	10	N/A
1,2-Dichloroethane	21	0	0.087	0.130	^b	10	N/A
1,3,5-Trimethylbenzene	21	2	0.105	0.224	0.593	10	N/A
Acetone	21	19	5.46	5.38	7.10	100	N/A
Benzene	21	3	0.073	0.101	0.184	10	N/A
Bromoform	21	0	0.071	0.109	^b	10	N/A
Butanol	21	-	0.237	0.419	0.465	100	N/A
Carbon Tetrachloride	21	10	0.138	0.304	0.271	10	N/A
Chlorobenzene	21	0	0.056	0.086	^b	10	N/A
Chloroform	21	10	0.249	0.369	0.411	10	N/A
Cis-1,2-Dichloroethylene	21	0	0.063	0.096	^b	10	N/A
Cyclohexane	21	8	0.119	0.142	0.190	10	N/A
Ethyl Benzene	21	1	0.219	0.548	^b	10	N/A
Ethyl Ether	21	0	0.181	0.280	^b	10	N/A
Methanol	21	0	2.60	0.240	^b	100	N/A
Methyl Ethyl Ketone	21	15	0.49	0.436	0.642	100	N/A
Methyl Isobutyl Ketone	21	0	0.138	0.212	^b	100	N/A
Methylene Chloride	21	6	1.35	3.59	3.51	10	F001/F002 ^d
Tetrachloroethylene	21	2	0.193	0.469	1.21	10	N/A
Toluene	21	12	0.527	1.27	1.03	10	F005 ^e
Trichloroethylene	21	7	19.1	66.5	55.3	10	F001,F002,D040
m&p-Xylene	21	1	0.451	1.71	^b	10	N/A
o-Xylene	21	1	0.181	0.562	^b	10	N/A

Did the data verify the Acceptable Knowledge? Yes ___ No

If no, describe the basis for assigning the EPA Hazardous Waste Codes.

- When a measurement is reported as below detection, one-half the analysis method detection limit (MDL) is used. Note that the MDL for a given analyte may vary from sample to sample.
- The mean and standard deviation presented are the mean and standard deviation of the method detection limits (after dividing by 2) since all measurements (or all but one) are below detection. Therefore, there are no degrees of freedom associated with the t statistic and the upper 90% confidence limit cannot be calculated.
- Hazardous waste codes have been added based on the calculated 90% upper confidence levels.
- During lot reconciliation of INW276.004.03, the UCL₉₀ for methylene chloride was calculated to be 14.4. This WSPF is being revised to include methylene chloride as a potential chemical constituent in this waste stream.
- During lot reconciliation of INW276.004.03, the UCL₉₀ for toluene was calculated to be 7.96. This WSPF is being revised to include toluene as a potential chemical constituent in the waste stream and to add the associated EPA code of F005 to the waste stream.

Table 2B. Headspace gas summary data - tentatively identified compounds.

Tentatively Identified Compound	Maximum Observed Estimated Concentrations (ppmv)	# Samples Containing TIC
2,3-Butanediol	0.75	1
Hexamethylcyclotrisiloxane	0.17	1
Did the Data verify the Acceptable Knowledge	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
If no, describe the basis for assigning the EPA Hazardous Waste Codes: N/A		

Table 3. Metals summary data. - Not applicable to debris

ANALYTE	# Samples	Mean (mg/kg)	SD (mg/kg)	UCL₉₀ (mg/kg)	RTL (mg/kg)	EPA Code ^a (D004-11)
Arsenic	N/A	N/A	N/A	N/A	100	N/A
Barium	N/A	N/A	N/A	N/A	2000	N/A
Cadmium	N/A	N/A	N/A	N/A	20	N/A
Chromium	N/A	N/A	N/A	N/A	100	N/A
Lead	N/A	N/A	N/A	N/A	100	N/A
Mercury	N/A	N/A	N/A	N/A	4	N/A
Selenium	N/A	N/A	N/A	N/A	20	N/A
Silver	N/A	N/A	N/A	N/A	100	N/A
Antimony	N/A	N/A	N/A	N/A	N/A	N/A
Beryllium	N/A	N/A	N/A	N/A	N/A	N/A
Nickel	N/A	N/A	N/A	N/A	N/A	N/A
Thalium	N/A	N/A	N/A	N/A	N/A	N/A
Vanadium	N/A	N/A	N/A	N/A	N/A	N/A
Zinc	N/A	N/A	N/A	N/A	N/A	N/A

Did the data verify the Acceptable Knowledge? Yes N/A No _____

If no, describe the basis for assigning the EPA Hazardous Waste Codes. N/A

NOTES:

^a No entry indicates no associated EPA Code assigned to the waste stream.

Table 4A. Total VOC summary data. – Not applicable to debris

ANALYTE	# Samples	Mean (mg/kg)	SD (mg/kg)	UCL ₉₀ (mg/kg)	RTL (mg/kg)	EPA Code ^a (D018-40.43)
1,1-Dichloroethylene	N/A	N/A	N/A	N/A	14	N/A
1,2-Dichloroethane	N/A	N/A	N/A	N/A	10	N/A
1,4-Dichlorobenzene	N/A	N/A	N/A	N/A	150	N/A
Benzene	N/A	N/A	N/A	N/A	10	N/A
Carbon Tetrachloride	N/A	N/A	N/A	N/A	10	N/A
Methyl ethyl ketone	N/A	N/A	N/A	N/A	2000	N/A
Chloroform	N/A	N/A	N/A	N/A	120	N/A
Chlorobenzene	N/A	N/A	N/A	N/A	4000	N/A
Pyridine	N/A	N/A	N/A	N/A	100	N/A
Tetrachloroethylene	N/A	N/A	N/A	N/A	14	N/A
Trichloroethylene	N/A	N/A	N/A	N/A	10	N/A
Vinyl chloride	N/A	N/A	N/A	N/A	4	N/A

ANALYTE	# Samples	Mean (mg/kg)
1,1,1-Trichloroethane	N/A	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	N/A	N/A
1,1,2-Trichloroethane	N/A	N/A
Acetone	N/A	N/A
Butanol	N/A	N/A
Carbon disulfide	N/A	N/A
Ethyl benzene	N/A	N/A
Ethyl ether	N/A	N/A
m-Xylene	N/A	N/A
Methanol	N/A	N/A
Methylene chloride	N/A	N/A
o-Xylene	N/A	N/A
Ortho-Dichlorobenzene	N/A	N/A
p-Xylene	N/A	N/A
Toluene	N/A	N/A
Butanol	N/A	N/A
Ethyl ether	N/A	N/A
Formaldehyde	N/A	N/A
Hydrazine	N/A	N/A
Isobutanol	N/A	N/A
Methanol	N/A	N/A

^a No entry indicates no associated EPA Code assigned to the waste stream.

Table 4A. (continued)

ANALYTE	# Samples	Mean (mg/kg)	SD (mg/kg)	UCL ₉₀ (mg/kg)	PRQL (mg/kg)	EPA Code ^a (F001-5)
Benzene	N/A	N/A	N/A	N/A	10	N/A
Carbon tetrachloride	N/A	N/A	N/A	N/A	10	N/A
Methyl ethyl ketone	N/A	N/A	N/A	N/A	100	N/A
Chlorobenzene	N/A	N/A	N/A	N/A	10	N/A
Pyridine	N/A	N/A	N/A	N/A	100	N/A
Tetrachloroethylene	N/A	N/A	N/A	N/A	10	N/A
Trichloroethylene	N/A	N/A	N/A	N/A	10	N/A
1,1,1-Trichloroethane	N/A	N/A	N/A	N/A	10	N/A
1,1,2-Trichloro-1,2,2-Trifluoroethane	N/A	N/A	N/A	N/A	10	N/A
1,1,2-Trichloroethane	N/A	N/A	N/A	N/A	10	N/A
Acetone	N/A	N/A	N/A	N/A	100	N/A
Butanol	N/A	N/A	N/A	N/A	100	N/A
Carbon disulfide	N/A	N/A	N/A	N/A	10	N/A
Ethyl benzene	N/A	N/A	N/A	N/A	10	N/A
Ethyl ether	N/A	N/A	N/A	N/A	100	N/A
m-Xylene	N/A	N/A	N/A	N/A	10	N/A
Methanol	N/A	N/A	N/A	N/A	100	N/A
Methylene chloride	N/A	N/A	N/A	N/A	10	N/A
o-Xylene	N/A	N/A	N/A	N/A	10	N/A
Ortho-Dichlorobenzene	N/A	N/A	N/A	N/A	10	N/A
p-Xylene	N/A	N/A	N/A	N/A	10	N/A
Toluene	N/A	N/A	N/A	N/A	10	N/A

Did the data verify the Acceptable Knowledge? Yes N/A No _____

If no, describe the basis for assigning the EPA Hazardous Waste Codes. N/A

NOTES:

^a No entry indicates no associated EPA Code assigned to the waste stream.

Table 4B. Total VOC summary data – tentatively identified compounds. – Not applicable for debris

Tentatively Identified Compound	Maximum Observed Estimated Concentrations (ppmv)	# Samples Containing TIC
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
Did the Data verify the Acceptable Knowledge Yes <u> </u> N/A <u> </u> No <u> </u>		
If no, describe the basis for assigning the EPA Hazardous Waste Codes: N/A		

Table 5A. Total SVOC summary data. – Not applicable for debris

ANALYTE	# Samples	Mean (mg/kg)	SD (mg/kg)	UCL ₉₀ (mg/kg)	RTL (mg/kg)	EPA Code ^a (D027-38)
1,4-Dichlorobenzene	N/A	N/A	N/A	N/A	150	N/A
2,4-Dinitrotoluene	N/A	N/A	N/A	N/A	2.6	N/A
Cresols	N/A	N/A	N/A	N/A	4000	N/A
Hexachlorobenzene	N/A	N/A	N/A	N/A	2.6	N/A
Hexachloroethane	N/A	N/A	N/A	N/A	60	N/A
Nitrobenzene	N/A	N/A	N/A	N/A	40	N/A
Pentachlorophenol	N/A	N/A	N/A	N/A	2000	N/A
Pyridine	N/A	N/A	N/A	N/A	100	N/A

ANALYTE	# Samples	Mean (mg/kg)
2,4-Dinitrophenol	N/A	N/A
Aroclor 1016	N/A	N/A
Aroclor 1221	N/A	N/A
Arocol 1232	N/A	N/A
Aroclor 1242	N/A	N/A
Aroclor 1248	N/A	N/A
Aroclor 1254	N/A	N/A
Aroclor 1260	N/A	N/A
Ortho-Dichlorobenzene	N/A	N/A

ANALYTE	# Samples	Mean (mg/kg)	SD (mg/kg)	UCL ₉₀ (mg/kg)	PRQL (mg/kg)	EPA Code ^a (F004)
Cresols	N/A	N/A	N/A	N/A	40	N/A
Nitrobenzene	N/A	N/A	N/A	N/A	40	N/A

Did the data verify the Acceptable Knowledge? Yes N/A No _____

If no, describe the basis for assigning the EPA Hazardous Waste Codes. N/A

NOTES:

^a No entry indicates no associated EPA Code assigned to the waste stream.

Table 5B. Total SVOC Summary data – tentatively identified compounds. – Not applicable for debris.

Tentatively Identified Compound	Maximum Observed Estimated Concentrations (ppmv)	# Samples Containing TIC
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
Did the Data verify the Acceptable Knowledge Yes <u> N/A </u> No <u> </u> If no, describe the basis for assigning the EPA Hazardous Waste Codes: N/A		

Table 6. Correlation of container identification numbers to data package.

Container Number	Barcode	Headspace Gas Data Package ^(a)	RTR Data Package	RA Data Package	Visual Examination Data Package	PRF Headspace Gas Sampling Data Package
IDRF000108187	013648	ECL00013	RTR000023	SAS000018	N/A	PRF000010
IDRF000108793	007117	ECL00039	RTR000031	SAS000025	N/A	PRF000026
IDRF001101708	032954	ECL00016	RTR000025	SAS000020	N/A	PRF000011
IDRF001101709	032888	ECL00039	RTR000024	SAS000019	N/A	PRF000026
IDRF001101710	032948	ECL00039	RTR000024	SAS000019	N/A	PRF000026
IDRF001211089	032621	ECL00027	RTR000036	SAS000030	N/A	PRF000018
IDRF002500150	007635	ECL00039	RTR000028	SAS000023	N/A	PRF000026
IDRF002500151	019233	ECL00039	RTR000034	SAS000028	N/A	PRF000026
IDRF002500154	018426	ECL00039	RTR000030	SAS000024	N/A	PRF000026
IDRF002500205	007592	ECL00039	RTR000029	SAS000024	N/A	PRF000026
IDRF002500493	018603	ECL00039	RTR000030	SAS000025	N/A	PRF000026
IDRF002500494	018709	ECL00039	RTR000034	SAS000028	N/A	PRF000026
IDRF002500495	018896	ECL00039	RTR000037	SAS000032	N/A	PRF000026
IDRF002600172	023907	ECL00039	RTR000043	SAS000051	N/A	PRF000026
IDRF003201059	017498	ECL00039	RTR000037	SAS000030	N/A	PRF000026
IDRF003201201	021058	ECL00039	RTR000033	SAS000027	N/A	PRF000026
IDRF003201214	016790	ECL00006	RTR000012	SAS000002	N/A	PRF000003
IDRF003201222	021019	ECL00039	RTR000025	SAS000020	N/A	PRF000026
IDRF003201227	020960	ECL00039	RTR000033	SAS000027	N/A	PRF000026
IDRF003201666	006616	ECL00036	RTR000077	SAS000072	N/A	PRF000025
IDRF03201244A	010223	ECL00036	RTR000078	SAS000072	N/A	PRF000025

a. An ECL Gas Data Package is composed of three separate reports. For example, ECL00013 contains ECL00013M, ECL00013G, and ECL00013C.

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ATTACHMENT 2 - NTP/SHIPPING COORDINATION DATA REVIEW CHECKLIST

Waste Stream Profile Form Number: INW 276-007

Item	Criteria	Acceptable	Comments
1.0	Data included in the Site Waste Characterization Summary Report is consistent with the container data supplied to the WWIS.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2.0	EPA Hazardous Waste Codes are limited to those included in Permit Module II.C.4.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3.0	Waste Streams which are categorized as homogeneous solids or soil/gravel waste have been sampled and analyzed for totals analyses.	Yes <input type="checkbox"/> No <input type="checkbox"/>	N/A
4.0	Documentation is in good physical condition; not torn or information obliterated.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
5.0	Waste Stream is designated as defense waste on the WSPF.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
6.0	Data presented is consistent within the report and supporting documents are referenced.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
7.0	The waste stream is <u>not</u> designated as spent nuclear fuel.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
8.0	The waste stream is <u>not</u> designated as high-level waste.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Review performed by: (Data Administrator)

Acceptable/Not Acceptable (Circle one)

Name: DANIEL L. STANDIFORD

Signature: Daniel L. Standiford

Date: 9/26/00

Comments: _____

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ATTACHMENT 3 - QUALITY ASSURANCE DATA REVIEW CHECKLIST

Waste Stream Profile Form Number: INW 276.004 Rev. 1

Item	Criteria	Acceptable	Comments
1.0	Validated (i.e., signed and dated) by authorized personnel.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2.0	Sample Data supplied to the WWIS include target analytes and TICs.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3.0	The generator has provided an adequate report of their statistical methodology, such that WID can reproduce descriptive statistics.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
4.0	On the Summary Data Report, the mean concentration of each constituent is calculated correctly. See Equation 1. *	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	TCA
5.0	On the Summary Data Report, the variance is calculated correctly. See Equation 2. *	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
6.0	On the Summary Data Report, the standard deviation is calculated correctly. See Equation 3. *	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
7.0	The required number of data points are present. See Equation 4. * N/A	Yes <input type="checkbox"/> No <input type="checkbox"/>	

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ATTACHMENT 3 - QUALITY ASSURANCE DATA REVIEW CHECKLIST

WASTE STREAM PROFILE FORM

Number: INW 276.004 Rev. 1

Review performed by: (Quality Assurance)
(Circle one)

Acceptable/Not Acceptable

Name: P. Damm Signature:  Date: 9/25/00

Comments: _____

Completion acknowledgment: (NTP/Shipping Coordination Section)

Name: _____ Signature: _____ Date: _____

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ATTACHMENT 4 - RCRA PERMITTING DATA REVIEW CHECKLIST

Item	Criteria	Acceptable	Comments
1.0	CAO certification/re-certification has been granted to the generator, including EPA certification and NMED approval.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2.0	The annual site certification audit has been completed and there are no unresolved Significant Conditions Adverse to Quality. NOTE: The RCRA Permitting reviewer must coordinate closely with the RCRA auditor who performed the site certification audit. The auditor will be able to provide the latest version number of the WAC and the presence of any outstanding Corrective Action Reports from the certification audit. The auditor will provide additional information on the acceptable knowledge process and documentation used at the generator site.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3.0	Has all required information been provided by the generator site?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
4.0	Waste Streams which are categorized as homogeneous solids or soil/gravel waste have been sampled and analyzed for totals analyses.	Yes <input type="checkbox"/> No <input type="checkbox"/>	N/A
5.0	The summary category group and the waste matrix code group correspond to the waste stream name and recorded description.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
6.0	EPA Hazardous Waste Codes assigned are listed on the Part A Permit. NOTE: The codes for ignitable, corrosive, reactive, or incompatible wastes are not included in the Permit Module II.C.4 and therefore must not appear on the WSPF.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
7.0	Acceptable knowledge information listed under "Required Program Information" and "Required Waste Stream Information" must have been used to make a determination. References must be given for the acceptable knowledge documentation given in these WSPF sections.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
8.0	The summary of acceptable knowledge provided in the Data Summary Report supports the summary category group assignment, the waste matrix code group assignment, and the hazardous waste code assignment.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

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ATTACHMENT 4 - RCRA PERMITTING DATA REVIEW CHECKLIST

Item	Criteria	Acceptable	Comments
9.0	The sampling and analysis methods used for characterization are listed as acceptable methods in the Waste Analysis Plan.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
10.0	Verify the following: EPA hazardous waste codes have been correctly assigned. EPA hazardous waste codes for all wastes based on sampling and analysis, fall within a 90 percent upper confidence limit. EPA hazardous waste codes assigned to all waste with analytical results over the regulatory threshold.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
11.0	If TICs listed in 40 CFR 261, Appendix VIII, are positively identified and are detected in 25 percent of all samples from a given matrix parameter category, the site project officer will add them to the target analyte list.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

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ATTACHMENT 4 - RCRA PERMITTING DATA REVIEW CHECKLIST

WASTE STREAM PROFILE FORM

Number: INW276,004

Review/approval performed by: (RCRA Permitting)
(Circle one)

Acceptable/Not Acceptable

Name: David Streng Signature: David St Date: 9/26/00

Comments: revised WSPF - addition of F005

Completion acknowledgment: (Shipping Coordination)

Name: _____ Signature: _____ Date: _____