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Date: OCT 17 2012
Refer To: WM-DO-12-0002
LA-UR: 12-25193

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Timothy Hall, STP Project Manager
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303

Dear Mr. Hall:

SUBJECT: RESPONSE TO THE SEPTEMBER 18, 2012 NOTICE OF DISAPPROVAL OF THE SITE TREATMENT PLAN FISCAL YEAR 2011 UPDATE AND REVISION 22.0 PROPOSAL FOR LOS ALAMOS NATIONAL LABORATORY'S FEDERAL FACILITY COMPLIANCE ORDER

In a September 18, 2012, letter, Mr. John Keiling, Hazardous Waste Bureau Chief of the New Mexico Environment Department (NMED), notified Los Alamos National Laboratory (LANL) of corrections and additions to be made to the March 30, 2012 submittal of the Fiscal Year (FY) 2011 Site Treatment Plan (STP) Annual Update.

This letter responds to each of the deficiencies and encloses the FY11 Annual Report (Revision 2) in both hardcopy (Enclosure 1) and electronic forms (Enclosure 2). For ease of reference, each of NMED's comments is included with LANL's response. All changes in response to NMED's letter, and any other changes made since LANL's submittal on March 30, 2012, are shown highlighted in yellow in the redlined copy of the update.

Comment #1

Administrative Adjustments account for large increases in the volume of both STP-covered MLLW (75.5185 m^3) and MTRU (453.251 m^3); however, details are not provided. In order for NMED to complete its review

of the STP Update, Respondents must provide detailed information in Appendices C and G regarding these administrative adjustments, as described in Comments 3 and 4 below.

Response:
LANL has provided the additional information as described in the responses to Comments #3 and #4 below.

Comment #2
The discussion in Section 2.1 regarding mixed low-level waste (MLLW) states that "11 m^3 of reclassified TRU waste became covered during FY11." It is not clear when the 11 m^3 of waste was generated, whether it was MTRU or non-mixed TRU, or why it became STP-covered MLLW in FY11. Revise this section to more clearly reflect the history of the 11 m^3 of waste, i.e., when it was generated, whether it was managed as MTRU prior to being reclassified, why it was reclassified as MLLW, and whether it was part of the 68.7938 m^3 of 10-100 nCi/g waste that was shipped offsite for treatment/disposal.

Response:
LANL has revised Section 2.1 to provide the additional information. Please note that the waste volume of 68.7938 m^3 in Table B-1 (cited above) has been corrected to 68.7838 m^3. This change did not affect any other sections of the report.

Comment #3
In Appendix C, add Table C-2 to include detailed information about all administrative adjustments to the MLLW inventory, including but not limited to database corrections and transfers to and from MTRU and TRU waste inventories. Table C-2 must include specific information about the affected containers, including container ID, type/size of container, treatability group, and reason for administrative adjustment.

Response:
Table C-2 has been added.

Comment #4
Section 2.2 was revised to state: "In FY11, quality control activities included verifying the volumes of many older, large waste containers and correcting the volumes shown in the MTRU database." The section also states that administrative adjustments include correcting "waste data, such as volume or EPA codes, through quality control activities."Appendix G, Table G-1, indicates that database corrections accounted for approximately 415 m^3 added to the MTRU inventory as a result of validating container volumes, and approximately 25 m^3 added as a result of recoding waste as MTRU. In order for NMED to evaluate these statements, Respondents must provide additional information regarding these database corrections, including:
- *In Appendix G, add Table G-3 to include information about containers that had volume corrections (i.e., container ID, type/size of container, amount of volume correction, and rationale and/or justification for volume correction)*
- *In Appendix G, add Table G-4 to include information about containers that were re-coded as MTRU (i.e., container ID, type/size of container, EPA hazardous waste numbers added, rationale and/or justification for change in regulatory status, and storage location of container)*
- *All Acceptable Knowledge documentation regarding hazardous waste determination, assignment of EPA hazardous waste numbers, and historic management of containers that were re-coded as MTRU as a result of quality control activities.*

Response:
Tables G-3 and G-4 have been added. Notes preceding these tables provide the explanations for the adjustments that NMED has requested. Acceptable Knowledge documentation for containers added due to addition of an EPA code is included as Enclosure 3.

In preparing Table G-4, LANL identified one container (62456) that was described as having EPA codes added; however, the underlying cause of adding this container was that a missing piece of information in the database prevented it from being identified as STP waste. No new EPA codes were added to that container. LANL has modified Table G-1 to more clearly differentiate this container from the others that were added due to addition of EPA codes. All other containers identified in Table G-4 represent waste previously managed as non-mixed TRU waste to which single EPA codes were assigned when items such as lead and aerosol cans were discovered during routine operational and shipping inspections.

Comment #5
Section 3.1 states: "Approximately 76 m^3 of STP-covered MLL W was shipped offsite for treatment and/or disposal." However, Section 2.1, Table 2.1-1, and Appendix B, Table B-1, state that approximately 73 m^3 of STP-covered MLL W was shipped. Revise the STP Update to resolve these discrepancies.

Response:
LANL has corrected the volume in Section 3.1 to correspond to the tables in the report.

Comment #6
The compliance date for Activity 3.2(J) was extended in the FY09 STP Update. Revise Section 3.2 to include a discussion of progress being made to ensure Respondents will meet the compliance date for Activity 3.2(J) for the 1.5153 m3 of High Activity Waste (LA-W934) listed in Table 3.2-2.

Response:
LANL has provided a discussion of progress in Part III Section 3.2.

Comment #7
The compliance dates for Activities 3.3.4(A) and (B) were extended in the FY07 STP Update. Revise Section 3.3.4 to include a discussion of progress being made to ensure Respondents will meet the compliance dates for Activities 3.3.4(A) and (B) for the 173.1088 m3 of 10-100 nCi/g Waste (LA-W935) listed in Table 3.3.4-1.

Response:
LANL has provided a discussion of progress in Part III Section 3.3.4.

In addition to the items above, LANL has

- made a correction to Table 3.2-2 that was previously reported in a letter dated September 11, 2012 (ENV-ES-12-0217);
- corrected a manifest number and an isolated waste volume in Appendix B, Table B-1 (no other sections of the report were affected by the change);
- corrected an isolated waste volume in Table E-2 (no other sections of the report were affected by the change); and
- added recent correspondence to Appendix I, Table I-1.

These changes are highlighted in the redlined version on the CD (Enclosure 2).

Please contact Peggy Powers at (505) 665-5717 or by email at peggy.powers@lanl.gov, or George Henckel at (505) 606-0960 or george.henckel@nnsa.gov if you have any questions.

In accordance with the requirements of Section XX of the FFCO, "*Documents, Information, and Reporting Requirements*," we certify, as the project managers responsible for overseeing the implementation of the Site Treatment Plan for the Los Alamos National Laboratory and for Los

Mr. Timothy Hall, STP Manager
WM-DO-12-0002

Alamos Site Office/National Nuclear Security Administration, that, to the best of our knowledge and belief, the information in this document is true, accurate, and complete. If you have any questions, please contact Peggy Powers at (505) 665-5717, or by email at peggy.powers@lanl.gov, or George Henckel at (505) 606-0960, or by email at george.henckel@nnsa.doe.gov.

Sincerely,

Margaret A. Powers
STP Project Manager
Environmental Stewardship Group (ENV-ES)
Los Alamos National Laboratory

Sincerely,

George C. Henckel, III
STP Project Manager
Los Alamos Site Office
National Nuclear Security Administration

Enclosure:
1. FY11 Annual Report (Revision 2)
2. Compact disk
3. Acceptable Knowledge documentation

MP/MP:mcm

Cy: John E. Keiling, NMED/HWB, Santa Fe, NM, w/enc.
Milton L. Bishop, LASO-EO, w/o enc., A316
George C. Henckel III, LASO-EO, w/enc., A316
Carl A. Beard, PADOPS, w/o enc., A102
Michael T. Brandt, AD-ESHQ, w/o enc., K491
Kathryn W. Johns-Hughes, AD-LPT, w/o enc., K487
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Susan L. McMichael, LC-LESH, w/o enc., A187
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Anthony Grieggs, ESH-WM, w/enc, K490
Steven J. Singledecker, ENV-WGS, w/o enc., K491
ENV-ES Correspondence File, w/enc., J978
IRM, w/o enc., A150

Mr. Timothy Hall, STP Manager
WM-DO-12-0002

Enclosure 1

Title FY11 Annual Report Revision 2
Document #WM-DO-12-0002
LA-UR # 12-25193
Barcode # N/A
Date: OCT 17 2012

Los Alamos National Laboratory

Federal Facility Compliance Order

Annual Site Treatment Plan Update for Fiscal Year 2011 – Revision 2

LA-UR-12-25193
October 10, 2012

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ACRONYMS

AK	Acceptable Knowledge
CCA	Compliance Certification Application
CCP	Central Characterization Project
40 CFR	Title 40 of the Code of Federal Regulations
CMR	Chemistry and Metallurgy Research
CP	Compliance Plan
DOE	U.S. Department of Energy
DSSI	Diversified Scientific Services, Inc.
EPA	U.S. Environmental Protection Agency
ER	Environmental Restoration
FFCA	Federal Facility Compliance Act
FFCO	Federal Facility Compliance Order
FR	Federal Register
FY	Fiscal Year
HWA	Hazardous Waste Act
INL	Idaho National Laboratory
LANL	Los Alamos National Laboratory
LANS	Los Alamos National Security, LLC
LDR	Land Disposal Restrictions (RCRA)
LLNL	Lawrence Livermore National Laboratory
LWAA	Land Withdrawal Act Amendments
M&EC	Materials and Energy Corporation
MLLW	Mixed Low-Level Waste
MTRU	Mixed Transuranic (Waste)
MWIR	Mixed Waste Inventory Report
NMED	New Mexico Environment Department
ORR	Oak Ridge Reservation
PCB	Polychlorinated Biphenyl
RCRA	Resource Conservation and Recovery Act
STP	Site Treatment Plan
TA	Technical Area
TBD	To be determined
TBV	To be verified
TRU	Transuranic
UC	University of California
WIPP	Waste Isolation Pilot Plant

INTRODUCTION

On October 6, 1992, Congress passed the Federal Facility Compliance Act (FFCA) to address compliance by the U.S. Department of Energy (DOE) with the Land Disposal Restrictions (LDR) for the storage of mixed waste set forth in Section 3004(j) of the Resource Conservation and Recovery Act (RCRA). The FFCA requires DOE to submit a Site Treatment Plan (STP) for developing treatment capacities and technologies to treat all of the facility's mixed waste, regardless of the time generated, to the standards promulgated pursuant to Section 3004(m) of RCRA. The FFCA provides that the appropriate regulatory authority, the New Mexico Environment Department (NMED), may approve, approve with modifications, or disapprove the STP. Prior to making such a determination, the FFCA requires NMED to provide public notice, consider public comments, and consult with the U.S. Environmental Protection Agency (EPA) and any other state in which a facility affected by the STP is located.

On October 4, 1995, the NMED issued a Federal Facility Compliance Order (FFCO) to DOE and its then management and operating contractor, the University of California (UC) Regents. On June 1, 2006, Los Alamos National Security, LLC (LANS) replaced UC as operating contractor of Los Alamos National Laboratory (LANL) at which time LANS assumed responsibility for compliance with the FFCO.

The FFCO required LANL to implement an STP for the treatment of mixed waste at LANL. The STP is intended to fulfill the requirements of the FFCA and establish an enforceable framework to allow DOE and LANS (Respondents) to achieve full compliance with LDR requirements under the New Mexico Hazardous Waste Act (HWA) and RCRA. The compliance dates set forth in the STP are enforceable time periods in which Respondents are required to treat or otherwise meet the requirements set forth for LDR under the HWA and RCRA.

On March 31, 1995, DOE submitted its proposed STP, which addressed treatment capacities and technologies to treat all of LANL's mixed waste, regardless of the time it was generated, to NMED. On April 17, 1995, the public was provided an opportunity to comment to NMED on DOE's draft STP. After considering public comment and otherwise complying with the FFCA, NMED approved the draft STP with modifications.

Section VII of the FFCO requires LANL to submit an Annual STP Update to the NMED each year on or before March 31. The FFCO requires that the Annual Update bring the information in both the Background and the Compliance Plan (CP) current to the end of the previous federal fiscal year (FY). Part I of this Annual Update constitutes the update to the Background. Part II contains the changes that have occurred since the last Annual Update and also identifies proposed revisions and amendments to the CP. Part III incorporates the changes in Part II into the proposed CP revision (Revision 22.0).

PART I. BACKGROUND UPDATE

1.0 INTRODUCTION

The Background (Part I) provides the following information:

- The estimated volume of covered waste in storage at the end of the previous FY and anticipated to be placed in storage for the next five FYs;
- A progress report from the end of the previous federal FY describing treatment progress and treatment technology development for each treatment facility and activity scheduled in the STP;
- A description, if applicable, of current or anticipated alternative treatment technology that is being evaluated for use instead of treatment technologies or capacities identified in the STP;
- A description of DOE's funding for STP-related activities and any funding issues that may affect the schedule;
- The status of the "No-Migration Variance Petition" or any treatability variances; and
- A progress report on characterization and/or treatment capabilities or plans for mixed transuranic (MTRU) waste related to the waste treatment standards, if any, for the DOE Waste Isolation Pilot Plant (WIPP) facility near Carlsbad, New Mexico.

The STP-covered waste inventory is verified during quality control activities. Inconsistencies in treatability group or volume between the original inventory and the current inventory may exist. These inconsistencies are reconciled annually with the STP update.

2.0 AMOUNT OF EACH COVERED WASTE STORED AT LANL

2.1 Mixed Low-Level Waste (MLLW) Inventory

During FY11, STP-covered MLLW inventories increased from approximately 161 m^3 to 176 m^3. The increase was due to reclassifying more MTRU waste to MLLW (LA-W935) than could be shipped offsite for treatment. Because higher risk wastes were given shipment priority, less *10–100 nCi/g Waste* was shipped in FY10 and FY11 than in previous years. Although LANL shipped a portion of the newly reclassified *10-100 nCi/g Waste* in FY11, some of the FY11 reclassified waste was readied for shipment and placed in storage. LANL intends to resume shipments of *10–100nCi/g Waste* when some of the higher risk waste shipments are completed in order to meet the established STP milestone (12/31/2013) for the current *10–100 nCi/g Waste*. Table 2.1-1 summarizes changes to the estimated STP-covered MLLW inventory for FY11. Approximately one cubic meter of newly generated waste from FY10 and 11 m^3 of reclassified TRU waste became covered during FY11. The 11 m^3 of TRU waste reclassified in FY11 were derived from three containers of non-mixed TRU waste generated between FY96 and FY02. The waste was reclassified because it no longer satisfied DOE criteria for TRU waste (activity more than 100 nCi/g). When legacy waste is reclassified but offsite shipment may be delayed, LANL manages the reclassified waste as MLLW as a conservative measure and reports the shipment as newly added STP waste. The three containers were shipped on April 14, 2011 (letter to NMED dated May 20, 2011, ENV-ES-11-101) and constitute part of the approximately 69 m^3 of shipped *10-100 nCi/g Waste* that is shown

in Tables A-1 and B-1. Approximately 73 m^3 of covered MLLW was treated, recycled, disposed of, or otherwise deleted during FY11.

Appendix A provides the detailed changes to the FY11 covered MLLW inventory by treatability group, including the inventory at Technical Area (TA)-55 and the Chemistry and Metallurgy Research Building (CMR).[1] Appendix B (Table B-1) lists the MLLW shipments in FY11. Table B-2 identifies other deleted waste. If any, administrative adjustments to the MLLW inventory are shown in Appendix C (Table C-1). Detailed information about the administrative adjustments in Table C-1 are shown in Table C-2. The MLLW inventory reported in the FY10 Annual Update is included as Appendix D.

Table 2.1-1: FY11 MLLW Inventory Summary

Contribution	Volume (m^3)[1]
Estimated MLLW Inventory Reported in FY10 Annual Update	**161.4693**
Proposed Revision 22.0	
New Covered Waste	11.9055
Administrative Adjustments[2]	75.5185
Offsite Treatment	-73.0323
Offsite Recycle	NA[3]
Onsite Decontamination	NA
Treatability Study Use	NA
Estimated MLLW Inventory Reported in FY11 Annual Update	**175.8610**

[1] MLLW volumes are calculated using the conversion: 55-gallon container = 0.2082 m^3; 85-gallon container = 0.3218
[2] Includes transfers of MTRU and other wastes into MLLW categories
[3] NA = No Activity

2.2 Mixed Transuranic (MTRU) Inventory Summary

During FY11, STP-covered MTRU inventories increased from approximately 2847 m^3 to 3119 m^3. In FY11, quality control activities included verifying the volumes of many older, large waste containers and correcting the volumes shown in the MTRU database. This resulted in a large increase in the volume of MTRU waste in inventory. Despite decreases due to shipping, which reduced the number of MTRU containers onsite by more than 900, the waste volume increased above FY10 levels.

Table 2.2-1 summarizes changes to the estimated MTRU covered waste inventory for FY11. The total volume of MTRU waste in Table 2.2-1 includes the CMR and TA-55 MTRU volumes, which are maintained in a separate inventory from the MTRU inventory at TA-54. Appendix E contains additional detail for the MTRU inventory; Table E-1 covers the TA-54 inventory, and Table E-2 covers the inventory at CMR and TA-55. Appendix F (Table F-1) provides the history of MTRU shipments to WIPP. In Appendix G, Tables G-1 and G-2 describe the administrative adjustments that were made to resolve differences in the TA-54 and the CMR/TA-55 MTRU inventory data, respectively. Table G-3

[1] *No MLLW was stored at CMR or TA-55 in FY11.*

provides detail on volume changes in the TA-54 inventory, and
Table G-4 gives the detail for containers that became STP waste due to the addition of EPA codes to the waste.

Administrative adjustments typically represent the following types of activities:

- LANL may correct database entries so that waste items that previously were not listed as STP waste are now identified as STP waste.
- LANL may correct waste data, such as volume or EPA codes, through quality control activities. MTRU waste that was formerly classified as transuranic (TRU) because it had radioactivity greater than 10 nCi/g has been reclassified to MLLW (LA-W935) if its activity is less than 100 nCi/g under DOE standards.
- New analytical data may also require that waste streams previously managed as TRU waste should, as a prudent measure, be reclassified and managed as MTRU waste.
- During repacking or other quality control activities, TRU waste may be recharacterized as MTRU waste when previously unidentified hazardous contents, such as lead, are determined to be present.
- During repacking, treatability groups are frequently reassigned to be consistent with current management and shipping criteria.
- Containers of waste are occasionally determined not to belong to mixed waste streams and are reclassified as TRU waste; removal of WIPP-prohibited items, if they are the only hazardous constituent, will result in the remaining waste being classified as nonmixed.
- Addition or removal of 85-gallon overpacks changes the volume of waste in the inventory; rounding container volumes to three decimal places also changes the inventory volume.

Appendix G includes changes to the MTRU waste inventory that resulted from repacking activities. MTRU waste volumes in the STP inventory reflect the volume of the container rather than the volume of the contents. When containers are repacked, the STP inventory volume of any given treatability group may either increase or decrease. When a container is repacked, the contents are sometimes split into two or more new containers to meet shipping and waste acceptance criteria or to meet characterization criteria (e.g., nondestructive analysis calibration limits). In addition, the new containers may be assigned to different treatability groups depending on the contents of each drum. Therefore, the volume of a single drum may 'multiply' into more volume than the original container. For example, repacking one container of *Cemented Sludge* (0.2080 m^3) may result in one drum of *Combined Combustible-Noncombustible Waste* (0.2080 m^3) and one drum of *Noncombustible Waste* (0.2080 m^3). In addition, changes in the waste volume in the STP inventory occur when an 85-gallon 'overpack' is removed from, or added to, a 55-gallon drum during repackaging. Removal of overpacks decreases the volume of waste in the STP inventory. Adding an overpack to a 55-gallon drum increases the volume of waste shown in the STP inventory.

Table 2.2-1: Covered MTRU Inventory Summary

Description	Volume (m^3)
Covered MTRU Inventory Reported in FY10 (40.607 m^3 at CMR/TA-55 and 2806.516 m^3 at TA-54)	2847.123
New Covered MTRU Waste at TA-54	17.873
New Covered MTRU Waste at TA-55/CMR	2.912
Covered MTRU Waste Shipped to WIPP in FY11	-203.396
Net Administrative Adjustments for TA-54 in FY11	453.251
Net Administrative Adjustments for CMR/TA-55 in FY11	1.194
Covered MTRU Inventory at End of FY11	**3118.957**

3.0 TREATMENT PROGRESS

3.1 Offsite Treatment

During FY11, covered MLLW streams were shipped for treatment to the following offsite commercial treatment facilities: Perma-Fix in Gainesville, Florida; Perma-Fix/Material and Energy Corporation (M&EC) in Oak Ridge, Tennessee; and Perma-Fix Northwest in the State of Washington.

Perma-Fix/Florida

Perma-Fix in Gainesville, Florida, is a RCRA-permitted facility with a Radioactive Materials License for processing scintillation cocktail vials and other mixed waste fluids for blending and shipment to an energy recovery facility. Perma-Fix services include the decommissioning of labpacks, thermal treatment of organics, stabilization and solidification of inorganics, and distillation of halogenated organics. The facility also performs chemical treatments such as solvent extraction, demulsification/precipitation/ flocculation, chelation, oxidation-reduction, ion exchange, absorption/adsorption, amalgamation, and chemical decontamination.

Perma-Fix/Material and Energy Corporation (M&EC)

M&EC, located in the East Tennessee Technology Park in Oak Ridge, Tennessee, is a permitted treatment facility for low-level radioactive and mixed waste. The facility installed six treatment processes and has the capability for treating organic and inorganic mixed waste to meet the LDR criteria. These processes include stabilization/solidification, chemical extraction, chemical fixation, metals precipitation, neutralization, and debris treatment. M&EC became operational in September 2001.

Perma-Fix Northwest

Perma-Fix Northwest, located in Richland, Washington, is a permitted treatment facility for the treatment of low-level radioactive and low-level mixed waste. The site houses both a low-level radioactive waste treatment facility and a low-level mixed waste treatment facility, which are licensed under Nuclear Regulatory Commission regulations (State of Washington licenses WN-I00393-1 and WN-I00508-1) and permitted under RCRA regulations through the State of Washington. The facility can perform thermal treatment, compaction, macroencapsulation, neutralization, and stabilization.

Appendix B summarizes LANL's offsite shipments for treatment and/or disposal of covered MLLW in FY11. Approximately 73 m^3 of STP-covered MLLW was shipped offsite for treatment and/or disposal.

3.2 Offsite Recycling

LANL did not recycle any STP-covered MLLW offsite in FY11.

3.3 Onsite Treatment and Recycling

LANL did not treat or recycle any STP-covered MLLW onsite in FY11.

3.4 Onsite Lead Decontamination

No LANL STP-covered MLLW was decontaminated onsite during FY11.

3.5 Treatability Studies

LANL conducted no treatability studies in FY11.

3.6 Administrative Adjustments and Corrections

Administrative adjustments and corrections are due to discrepancies found during quality control activities related to preparing waste for treatment, inventory, and disposal or when preparing the STP Annual Update. A data quality review is conducted annually to compare shipment notifications and shipping manifests with database updates.

3.6.1 Adjustments to MLLW Inventory

Appendix C (Table C-1) details the administrative adjustments to the MLLW inventory. The principal adjustment reflects the transfer of MTRU waste to MLLW (LA-W935, *10–100 nCi/g*). A substantial volume of LANL's STP-covered MTRU waste has been determined to no longer meet the criteria for TRU waste and has thus been reclassified as MLLW (Appendices C and G). Other adjustments included removal of waste that had been shipped in previous fiscal years, recharacterization of some MLLW as MTRU waste, and removal of waste that was inadvertently included in the FY10 inventory.

3.6.2 Adjustments to MTRU Inventory

During the preparation of the FY11 STP Annual Update, LANL identified a number of adjustments to the MTRU inventory volume (Appendix G, Tables G-1 and G-2), including additions of newly identified STP-covered waste, recharacterization of waste, and reclassification of MTRU waste to MLLW. Other adjustments were needed to account for volume changes due to repacking of waste and transfers of waste from one treatability group to another or to correct database entries.

4.0 TREATMENT TECHNOLOGY DEVELOPMENT

During FY11, the availability of commercial and federal facility offsite treatment and disposal capacity for MLLW remained stable. As a result of DOE's increasing reliance on commercial treatment/disposal for mixed wastes, nearly all funding for onsite technology development has been prioritized to support offsite treatment and disposal of mixed wastes. DOE treatment technology development initiatives are generally limited to specific technologies or technology adaptations in response to specific needs that cannot be addressed through commercial facilities.

4.1 Treatment Technologies Being Evaluated

LANL continues to monitor the development of other potential treatment technologies that may become available in the future. Some of these technologies are being developed at LANL and at other DOE sites. Numerous other commercially developed treatment processes exist which have not been demonstrated on mixed wastes.

4.1.1 Offsite Commercial Treatment Facilities

LANL continues to monitor the availability and capabilities of offsite commercial facilities for treatment technologies and permitting that are appropriate to LANL waste. These facilities are listed in Appendix H (Table H-1).

4.1.2 Offsite DOE Treatment Facilities

In the past, LANL staff considered Lawrence Livermore National Laboratory (LLNL) for treatability studies for MLLW gas cylinders. LANL has successfully shipped these wastes offsite for treatment, storage, and disposal. LLNL does not have treatment capabilities for treatment, storage, or disposal appropriate to any of LANL's remaining MLLW.

5.0 DOE FUNDING FOR STP-RELATED ACTIVITIES

Funding to implement the LANL STP for mixed waste during FY11 was sufficient to meet all compliance dates as required by the STP issued on October 4, 1995. As stated in previous updates to the STP, funding is no longer available for development of mobile treatment units at LANL, but funding was provided in all years between FY98 and FY05 and between FY07 and FY11 for shipment of mixed waste offsite for treatment and disposal at DOE and commercial facilities. Funding during FY12 is also sufficient to meet all compliance dates established in the STP. Should funding reductions occur that would affect STP compliance dates, the DOE and LANS will so notify the NMED to address compliance schedules and activities.

The DOE Assistant Secretary for Environmental Management initiated a long-range plan for DOE's cleanup and waste management activities, with a goal of accelerating cleanup progress as much as possible before 2006. The plan, *Accelerating Cleanup: Paths to Closure*, includes sections for the LANL site that address MLLW and TRU wastes that are currently in storage (legacy waste). Funding targets for waste management in the draft *LANL Accelerating Cleanup: Paths to Closure* plan should allow LANS staff at LANL to continue to meet all compliance dates in the STP; the plan assumes that MTRU waste is not required to be treated to meet LDR before shipment to WIPP for disposal, as provided for in the WIPP Land Withdrawal Act Amendments of 1996 (LWAA).

Beginning in FY99, all newly generated MLLW with a disposal path was planned to be treated and disposed of within one year if a treatment/disposal capability and capacity was available for the waste. MLLW placed into storage before FY99 was treated and disposed of before the end of FY09.

6.0 TREATMENT VARIANCES

RCRA allows certain case-by-case variances from LDR standards. Variances that may be sought under RCRA relate to requests for substitution of an alternative treatment technology in place of the LDR-

required treatment technology. This section discusses any potential treatment variances related to LANL's covered waste, as described below.

6.1 WIPP No-Migration Variance Petition/Land Withdrawal Act Amendments

WIPP, located near Carlsbad, New Mexico, is a DOE repository for the TRU waste that was generated by the nation's defense-related activities. Some of the TRU waste contains hazardous waste constituents regulated under the RCRA.

The WIPP repository is considered to be a deep geologic repository rather than a shallow landfill. It is wholly sited 2,100 ft below the land surface in a salt bed. Because salt has the advantageous characteristic of slow plastic deformation, it is predicted that the salt will entomb the waste and seal it from the human environment, making potential release of hazardous constituents a low-probability event.

The LWAA (PL 104-201, Section 3188) exempts waste designated by the Secretary of Energy for disposal at WIPP from RCRA's LDRs. Following passage of the LWAA, the EPA terminated its review of the No-Migration Variance Petition, submitted by DOE to EPA in May 1995. EPA formalized its withdrawal by letter to George Dials, DOE/Carlsbad Area Office manager, dated December 29, 1997.

On October 29, 1996, DOE submitted its Compliance Certification Application (CCA) to EPA. The CCA is intended to demonstrate to EPA that WIPP meets the requirements of Title 40 of the Code of Federal Regulations (40 CFR) Part 191 and 40 CFR Part 194. On October 23, 1997, EPA announced its proposed decision to issue a certification of compliance, subject to a number of specified conditions and to a public comment period of 120 days. On May 18, 1998, EPA published in the Federal Register (63 FR 27354) its final rule certifying that WIPP will comply with the requirements of Subparts B and C of 40 CFR Part 191 and amending the WIPP compliance criteria in 40 CFR Part 194. The final rule became effective June 17, 1998. On March 25, 1999, WIPP received its first shipment of non-mixed (radioactive only) TRU waste from Los Alamos. Other facilities have also shipped non-mixed TRU waste to WIPP. The NMED issued a hazardous waste permit for WIPP on October 27, 1999, authorizing the DOE to manage, store, and dispose of contact-handled MTRU waste at the facility.

6.2 Other Treatment Variance(s)

No treatment variances were requested or granted in FY11.

7.0 WIPP FACILITY CAPABILITIES

As discussed above, the DOE is disposing of its defense TRU waste, both mixed and nonhazardous, in its deep geologic repository at the WIPP near Carlsbad, New Mexico. This facility is a receiving and disposal facility, without the capability of routinely opening and repackaging waste. TRU waste will already be containerized when received at the WIPP facility. The WIPP facility is not a generator of TRU waste, and, therefore, will receive all of the waste in shipments from offsite.

7.1 Characterization Capabilities at WIPP

Wastes proposed for shipment to WIPP are characterized and certified at LANL by the Central Characterization Project (CCP), a contractor to DOE's Carlsbad Field Office.

7.2 MTRU Treatment Capabilities and Plans

WIPP is not required to treat MTRU waste to meet the LDR standards. As described above, the LWAA exempted wastes designated by the Secretary of Energy for disposal at the WIPP from this requirement.

PART II. COMPLIANCE PLAN UPDATE

1.0 INTRODUCTION

This update to the CP contains

- Changes to the CP occurring since the previous Annual Update, including
  - milestones completed in FY11;
  - correspondence, including notices of shipments; and
  - new covered and deleted waste;
- Proposed revisions and amendments, including
  - compliance date changes;
  - description of waste deleted in accordance with the requirements in FFCO Section IX, *Deletion of Waste*;
  - documentation of new covered waste in accordance with the requirements in Section VIII, *Addition of New Covered Waste*; and
  - proposed changes to the overall schedule in the CP.

2.0 CHANGES AND REVISIONS TO THE CP OCCURRING SINCE THE PREVIOUS ANNUAL UPDATE

This section describes revisions, amendments, or other changes to the LANL CP.

2.1 Activities Completed During FY11

During FY11, no CP Activity milestones were scheduled.

Table 2.1-1. FY10 FFCO and STP Milestones

Table omitted

2.2 Expedited Shipment Letters

Expedited shipment letters are listed in Appendix I, Table I-1.

2.3 Correspondence

Between October 1, 2010, and March 31, 2012, LANL communicated with NMED on issues related to

- Revision 21.0 of the Annual STP Update, and
- FY10 and FY11 waste shipments.

This correspondence is listed in Appendix I (Table I-2). Correspondence previously listed in Appendix I, Table I-2 of Revision 21.0 of the STP is so noted in the appendix.

3.0 DESCRIPTION OF DELETED WASTE

A proposal for deletion of STP waste items is included with this update as Proposed Revision 22.0 in accordance with FFCO Section IX, *Deletion of Waste*. These deletions are proposed because the waste was shipped offsite for treatment, disposal, or recycling or were otherwise determined not to be mixed wastes. These covered wastes are included in Appendix B, Appendix F, and Appendix G.

4.0 DOCUMENTATION OF NEW COVERED WASTE

A proposal for addition of STP waste items is included with this update in accordance with FFCO Section VIII, *Addition of Waste*. These additions consist of wastes that were placed in storage during FY10 and were proposed to become covered wastes in FY11. These covered wastes are included in Appendix E. Additional waste to be added to the STP is identified in Section 6.1.

5.0 PROPOSED CHANGES TO THE COMPLIANCE PLAN SCHEDULE

No changes to the compliance plan schedule are proposed.

6.0 DETAILED DESCRIPTION OF THE PROPOSED REVISION

The purpose of this revision request is to reflect changes in the STP inventories in the LANL CP of the STP in accordance with FFCO Section X.C.2.a. The changes proposed by this revision to the CP will allow the added covered wastes to be treated or otherwise managed in accordance with the Activities and Compliance Dates pertaining to each treatability group, as adopted or revised herein. The CP text changes are indicated in the redlined version provided to NMED.

LANL is proposing to revise the CP text to reflect the following change in STP-covered inventories:

- Increases and decreases in covered mixed waste inventories due to the addition of new covered waste and offsite shipments during FY11 and other changes in the STP inventory.

The CP changes are proposed in accordance with the applicable requirements in the FFCO, as amended: Section VIII, *Addition of New Covered Waste*; Section X.B.4, *Revisions*; and Section XI, *Deletion of Waste*.

6.1 Addition of New Covered Waste

LANL is requesting that the following waste be added to the STP as covered waste.

6.1.1 MLLW Additions

The volume of MLLW that is requested for addition is 1.3027 m^3 of new-covered[2] *Noncombustible Debris* (LA-W922), and 10.6028 m^3 of LA-W935 waste that was previously managed in the TRU inventory (Appendix C).

[2] *Waste generated during the previous FY that was not shipped offsite within one year is termed new-covered STP waste.*

Table 6.1.1-1: Proposed Addition of New Covered MLLW Waste

CP Section	MWIR Waste ID	Treatability Group	Volume (m^3)
3.1.5	LA-W922	*Noncombustible Debris*	1.3027
3.3.4	LA-W935	*10-100 nCi/g Waste*	10.6028
		Total	**11.9055**

6.1.2 MTRU Waste Additions

The volume of new covered MTRU waste that is requested for addition is 17.873 m^3 (Table 6.1.2-1). LANL also requests the addition of 71.400 m^3 of *Combustible-Noncombustible Waste* and 21.216 m^3 of *Noncombustible Waste* that was previously managed in the TRU inventory (Appendix G, Table G-1). Table 6.1.2-2 identifies waste that is proposed for addition following quality control activities that identified waste in the TRU inventory as MTRU.

Table 6.1.2-1: Proposed Addition of New Covered1 MTRU Waste

CP Section	Treatability Group	Volume (m^3)
4.0	*Cemented Sludge*	4.368
4.0	*Combined Combustible-Noncombustible Waste*	7.507
4.0	*Combustible Waste*	2.254
4.0	*Solidified Inorganic and Organic Waste*	3.744
	Total TA-54 New Covered	**17.873**
4.0	*Combined Combustible-Noncombustible Waste* at CMR	0.208
4.0	*Combined Combustible-Noncombustible Waste* at TA-54	2.080
4.0	*Noncombustible Waste* at TA-54	0.624
	Total CMR and TA-55 New Covered	**2.912**
	Total New Covered Waste	**20.785**

[1] New covered waste in Table 6.1.2-1 refers to waste generated in the previous FY.

Table 6.1.2-2: Proposed Addition of Waste Newly Characterized as MTRU

CP Section	Treatability Group	Volume (m^3)
4.0	*Combined Combustible-Noncombustible Waste*	3.234
4.0	*Combustible Waste*	6.776
4.0	*Metallic Waste*	11.486
4.0	*Noncombustible Waste*	1.570
4.0	*Solidified Inorganic and Organic Waste*	2.704
	Total Newly Characterized MTRU	**25.770**

6.2 Deletion of Covered Waste

Both MLLW and MTRU wastes were shipped offsite for treatment and disposal or recycling or are otherwise proposed as deleted waste.

6.2.1 Deletion of MLLW

LANL is requesting that covered MLLW identified in Appendix B be deleted from the STP. These covered wastes were shipped offsite for treatment and disposal or recycling. The total volume of covered MLLW that is requested for deletion under this Revision to the CP is 73.0323 m^3 (Appendix B, Table B-1).

6.2.2 Deletion of MTRU Waste

LANL is requesting that a total of 203.396 m^3 of covered MTRU waste be deleted from the STP. These covered wastes were shipped offsite for disposal at WIPP. Details of the offsite shipments are given in Appendix F. LANL also requests deletion of 3.328 m^3 of MTRU waste that was included in the FY10 inventory but had not been in storage for one year (Appendix G, Table G-1). This waste was shipped offsite within one year and, therefore, did not become part of the STP inventory.

6.2.3 Other Deletions of FY11 Waste

No waste is proposed for deletion due to recycling or onsite treatment in FY11. No waste was shipped offsite for treatability studies.

6.3 Adjustments to the Original (October 4, 1995) STP-Covered MLLW Inventory

LANL is requesting adjustments to the original (October 4, 1995) STP-covered MLLW inventory as listed in Appendix C (Table C-1). Most administrative adjustments are due to reclassification of MTRU waste to MLLW treatability groups and to quality control activities related to preparing waste for treatment and disposal. These adjustments may result in additions of newly identified covered waste or transfers of waste to other treatability groups.

6.4 Adjustments to MTRU Waste Inventory

LANL is requesting adjustments (Appendix G, Tables G-1 and G-2) to the original (October 4, 1995) STP-covered MTRU waste inventory. Most administrative adjustments are due to reclassification of MTRU waste to MLLW treatability groups or to other MTRU treatability groups and to reclassification of TRU to MTRU as a result of quality control activities related to preparing waste for treatment and disposal. These adjustments may result in additions of newly identified covered waste or transfers of waste to other treatability groups.

6.5 Establishment of New Milestone Activity Dates

LANL is not requesting any new compliance milestones.

Table 6.5-1: Proposed Milestone Activity Compliance Dates [Table omitted]

6.6 Additional Revisions

No other revisions are requested.

7.0 RATIONALE FOR THE PROPOSED REVISION

This information is provided in accordance with FFCO Section X.C.2.a.

7.1 Establishment of New Proposed Milestone

No new milestones are proposed.

7.2 Addition of New Covered Waste

Waste that was newly generated in FY10, which was not treated within 12 months of generation, became new covered waste during FY11 (see Appendix E). In addition, TRU wastes, which were re-evaluated during repacking and quality control activities as having previously unidentified RCRA constituents, were also added to the STP inventory (Appendix G). Approval of these proposed additions to the STP inventory will allow the added covered wastes to be treated or otherwise managed in accordance with the activities and compliance dates pertaining to each treatability group, as adopted or revised herein.

7.3 Deletion of Covered Waste

Decreases in covered waste inventory reflect the treatment and disposal or recycling of covered waste at offsite commercial facilities during FY11. Deletion of this covered waste is proposed in order to more accurately reflect the LANL STP inventory as of the end of FY11.

7.4 Adjustments to the Original (October 4, 1995) STP-Covered Waste Inventory

Administrative adjustments result from quality control activities related to preparing waste for treatment and disposal. These adjustments result in additions of newly identified covered waste and transfers of waste to other treatability groups. The adjustments to the original (October 4, 1995) STP-covered waste inventory are proposed in order to more accurately reflect the LANL STP inventory as of the end of FY11.

8.0 ANTICIPATED LENGTH OF ANY DELAY IN PERFORMANCE

In accordance with FFCO Section X.C.2.c, LANL does not anticipate any delay in performance for any other proposals stated in this requested revision to the CP of the STP.

9.0 PLAN AND SCHEDULE FOR IMPLEMENTING ALL REASONABLE MEASURES

All other measures proposed could be implemented within the framework of the existing plan and schedule for the STP (FFCO Section X.C.2.d).

PART III. COMPLIANCE PLAN – PROPOSED REVISION 22.0

1.0 PURPOSE AND SCOPE OF THE COMPLIANCE PLAN

1.1 Introduction

Part III of this document identifies changes that require NMED approval as a revision under Section X, *Revisions,* or an amendment under Section XI, *Other Amendments to the STP*.

The CP includes a schedule for offsite transportation for treatment, or completion of parallel options as defined in each Treatability Group Section, and the treatment of mixed wastes in full compliance with the HWA and the implementing regulations at 20 NMAC 4.1, which incorporates by reference 40 CFR Parts 260 through 270. Part I, Background, contains progress reports as required in the FFCO. Respondents shall carry out the activities described in the STP, including the CP, in accordance with the schedules and requirements set forth in the STP and the FFCO.

1.2 STP Revisions and Amendments

The STP CP has been modified several times since it was originally issued, in accordance with the provisions of Section X, *Revisions,* and Section XI, *Other Amendments to the STP,* of the October 4, 1995, FFCO, as amended and revised. The history of revisions is provided in Appendix J.

2.0 COMPLIANCE SCHEDULES

The STP provides overall schedules for achieving compliance with LDR storage and treatment requirements for mixed waste at LANL. The schedules include those activities required to process backlogged and currently generated waste and include schedules required to establish an overall timeframe for achieving compliance with the LDR requirements under the HWA and 20 NMAC 4.1.

2.1 Categories of Activities for Compliance Dates

The categories of activities for which compliance dates will be provided for different types of treatment approaches in the STP are listed in the tables below. The categories of activities are based on Section 3021(b)(1)(B)(i), (ii), and (iii) of the RCRA, to the extent appropriate.

2.1.1 Plans Where Treatment Technology Exists

For most of the mixed waste, treatment technologies have been identified and developed. For the waste that will be treated onsite, the categories of activities for compliance dates identified in Table 2.1.1-1 shall apply.

Table 2.1.1-1: Categories of Activities for Compliance for Mixed Waste with Existing Treatment Technologies

A.	Submit permit applications to the NMED.
B.	Initiate construction as specified in the NMED permit.
C.	Complete system testing and commence operation.
D.	Begin treating mixed waste.
E.	Complete treatment of existing wastes to applicable regulatory standards.

2.1.2 Plans Where Technology Must Be Developed

For some mixed waste, no treatment technologies have been identified and developed, or the treatment technology must be modified or adapted to apply to such waste. For the waste that will be treated onsite, the categories of activities for compliance dates are identified in Table 2.1.2-1 and shall apply.

Table 2.1.2-1: Categories of Activities for Compliance Dates for Mixed Waste Without Existing Treatment Technologies

A.	Identify and develop technology.
B.	Submit permit application to NMED; or
C.	Submit a Notification of Intent to perform treatability study to NMED a minimum of 45 days prior to commencement of the study.
D.	Initiate construction as specified in the NMED permit.
E.	Commence systems testing.
F.	Begin treating mixed waste.
G.	Complete treatment of existing wastes to applicable regulatory standards.

2.2 Primary Preferred Treatment

Offsite treatment at a commercial or noncommercial mixed waste treatment facility is the primary preferred treatment option applicable to all mixed waste streams in the STP inventory unless otherwise indicated in the descriptions of individual waste treatability groups. DOE may also pursue parallel treatment options, such as recycling/re-use or radiological decontamination. Requirements for waste shipped offsite for recycling are discussed under Part III, Section 2.6. All activities and compliance dates related to the construction, permitting, and operation of onsite treatment skids were removed from this document. This change was due to the increased availability of offsite treatment and disposal capacity for mixed waste. Respondents will continue evaluating new commercial and DOE offsite treatment facilities as potential options for managing mixed waste, as they become available.

2.3 Plans for Mixed Waste to be Shipped Offsite for Treatment

Should DOE decide to treat or recycle waste at a commercial offsite facility (Table 2.3-1), DOE will notify the NMED Project Manager in writing as soon as possible and in any event within 45 working days of receipt of waste at the treatment/recycling facility.

DOE shall notify the NMED Project Manager in writing as soon as possible if mixed waste is planned to be sent to a noncommercial facility. Notification should be made if possible when DOE is first considering such an option to allow NMED and the state to address any state issues or concerns with other states. The NMED Project Manager shall approve in writing the proposed offsite noncommercial treatment option proposed by DOE prior to any shipment by DOE. DOE will notify the NMED Project Manager in writing as soon as possible and in any event within 45 working days of receipt of waste at the treatment/recycling facility. Activities for mixed waste to be shipped offsite for treatment/recycling at a noncommercial facility are identified in Table 2.3-2.

Table 2.3-1: Activities for Offsite Shipment for Treatment or Recycling at a Commercial Facility

A.	Meet all regulatory requirements for shipment.
B.	Provide documentation to NMED that waste has been received at an offsite facility for treatment or recycling within 45 working days of receipt of waste at the treatment facility.

2.3.1 Specific Site Requirements for Noncommercial Treatment Facilities

Shipment to Idaho National Laboratory

Prior to shipment, Idaho National Laboratory (INL) and Idaho Division of Environmental Quality shall be notified of any pending shipments of waste should DOE ship MLLW to INL. Proper procedures including additional approvals (if necessary) and documentation shall be completed prior to the shipment of wastes to INL. Management of post-treatment waste residuals or newly generated waste streams will be in accordance with the requirements of DOE, the State of Idaho, and that state where they will be disposed. A modification to LANL's RCRA permit providing for the return of such wastes and/or residues to LANL must be approved by NMED prior to any such return of wastes and/or residuals to LANL. DOE will notify the NMED Project Manager in writing as soon as possible and in any event within 30 working days after receipt of shipment of treatment residuals or newly generated waste streams from INL.

Shipments of MLLW to planned facilities (not yet existing) will occur only after that treatment and schedules are approved by DOE-ID and the State of Idaho. Upon approval of the planned treatment facilities, the applicable protocol from the paragraph above will be implemented for mixed wastes to be treated at planned facilities.

Shipment to Oak Ridge Reservation

In the case that Oak Ridge Reservation (ORR) may not dispose of mixed-waste residues or new waste streams generated from offsite treatment, and they cannot be sent to another facility for disposal, then the residues may return to LANL. Should residual or newly generated waste streams be returned to LANL, the proper permits for the State of New Mexico must exist. DOE will notify the NMED Project Manager in writing as soon as possible and in any event within 30 working days after receipt of shipment of treatment residuals or newly generated waste streams from ORR.

Table 2.3-2: Activities for Shipment Offsite for Treatment or Recycling at a Noncommercial Facility

A.	Request necessary approval from NMED for shipment of waste by category before shipping.
B.	Meet all regulatory requirements for offsite shipment.
C.	Provide documentation to NMED of confirmation of shipment date within 14 working days prior to sending waste to an offsite facility for treatment, disposal, or recycling, or storage pending treatment, disposal, or recycling.
D.	Provide documentation to NMED that waste has been received at an offsite facility for treatment within 45 working days of receipt of waste at the offsite facility.
E.	Meet all regulatory requirements to include RCRA Permit modifications for residual or newly generated waste streams after treatment or recycling.
F.	Provide documentation to NMED within 30 working days after receipt of residual or newly generated waste streams upon return to LANL.

2.4 Requirements Pertaining to Radionuclide Separation

The FFCA sets additional requirements in cases in which DOE intends to conduct radionuclide separation of mixed waste. Should the DOE determine to do radionuclide separation of such mixed waste, DOE will schedule specific compliance dates based on category activities identified in Table 2.4-1. "Radionuclide separation" shall mean segregating the radioactive portion of the mixed waste from the hazardous portion of the mixed waste.

Table 2.4-1: Activities for Radionuclide Separation

A.	Complete an estimate of the volume of waste generated by each case of radionuclide separation.
B.	Complete an estimate of the volume of waste that would exist or be generated without radionuclide separation.
C.	Complete an estimate of the costs of waste treatment and disposal if radionuclide separation is used compared with the estimated costs if it is not used.
D.	Provide the assumptions underlying such estimates of waste volumes and cost estimates.
E.	Provide characterization methodologies for determining waste type.
F.	Submit a plan for treating or managing hazardous waste residues, accompanied by an NMED permit application.

2.5 Plans Related to Other Mixed Waste Activities

Activities other than the types of activities specifically called for in the FFCA as requiring schedules are described in this STP. Some of these activities may be associated with schedules that may contain compliance dates related to treatment of the DOE's mixed waste.

For mixed waste, which is not sufficiently characterized to allow identification of appropriate treatment, notification of the characterization of such waste shall be in accordance with the annual update process described in the FFCO. If such characterization results in the addition or deletion of a treatability group or an increase in volume in a treatability group, a revision would be required pursuant to Section X of the FFCO.

DOE will notify the NMED when offsite treatability studies are conducted on STP waste. Treatability studies are used to explore alternative treatment options that may be practical for any or all of the STP mixed waste streams. When preparing waste for shipment for an offsite treatability study, DOE will evaluate the potential for incidental waste treatment or secondary waste generation, which are often associated with treatability studies.

2.6 Recycling/Re-Use

Respondent will pursue onsite or offsite recycling/re-use as a parallel preferred option.

Should DOE elect to use recycling facilities in lieu of (or in combination with) treatment, it will follow requirements as if the waste were shipped offsite for treatment. Any and all requirements by the recycling facility and all state, federal, or other regulatory requirements applicable at the recycling site shall be met by Respondents.

DOE shall notify the NMED Project Manager in writing as soon as possible if mixed waste is planned to be sent to an offsite noncommercial recycling facility. Notification should be made if possible when DOE is first considering such an option to allow NMED and the state to address any state issues or concerns with other states. The NMED Project Manager shall approve in writing the proposed offsite noncommercial recycling option prior to any shipment by DOE. DOE will notify the NMED Project Manager in writing as soon as possible and in any event within 45 working days of receipt of waste at the recycling facility. Activities for mixed waste to be recycled are identified in Table 2.6-1.

Should DOE elect to use recycling/re-use facilities in lieu of (or in combination with) treatment, it will follow the requirements as if the waste were shipped offsite for treatment. DOE will provide a notification letter to the NMED within 45 days, in place of documentation, that waste was received at a recycling facility.

Table 2.6-1: Requirements for Recycling

A.	Meet all regulatory requirements for recycling/re-use.
B.	Provide documentation to NMED that waste has been received at recycling facility within 45 working days of receipt of waste at the recycling facility.

2.7 Onsite Radiological Decontamination

DOE will pursue onsite radiological surface or external decontamination as a preferred option. No volumetric or internal decontamination processes will be considered or performed. Surface radiological decontamination includes activities such as sand blasting, hand-scrubbing, or

electrolytic decontamination. These decontamination activities could result in reducing or removing the radiological contaminant from the waste such that the waste could be recycled in accordance with CP Section 2.6 (*Recycling/Re-Use*) or be proposed for deletion in accordance with Section IX (*Deletion of Waste*) of the FFCO.

Activities for mixed waste to be radiologically decontaminated are identified in Table 2.7-1.

Table 2.7-1: Activities for Radiological Decontamination

A.	Meet all DOE requirements for radiological decontamination.
B.	Provide documentation to NMED that waste has been received at recycling facility within 45 working days of receipt of waste at the recycling facility; or
C.	Propose waste for deletion in accordance with Section IX of the FFCO.

3.0 MIXED LOW-LEVEL WASTE STREAMS

This section presents the preferred options to treat MLLW (formerly known as LLMW) at LANL. All preferred options not described below must be approved by NMED in accordance with the revision process pursuant to the FFCO.

The original October 4, 1995, STP inventory in each MLLW treatability group has been modified through the revision process in the FFCO. The tables in the STP Background (Part I) Appendices A–M of the FY09 STP Annual Update provide a comprehensive summary of changes to the CP covered waste inventories (additions, deletions, and shifts of waste between treatability groups) occurring as of the date of that revision. In Part III, the original STP inventory in each MLLW treatability group is denoted as subgroup 0 of that treatability group (e.g., the original volume of STP treatability group LA-W906 became LA-W906-0). Each revision that has since added volumes to individual treatability groups has resulted in creation of an additional subgroup, having the same number as the revision (e.g., LA-W906-4 was created in Revision 4.0, and LA-W906-5 was created in Revision 5.0).

In most subsections of this section, the subgroups of the treatability groups are not shown. In those cases, the Activities and Compliance Dates are applicable to the entire net volume of that treatability group. However, when subgroups of a treatability group have been assigned Activities and Compliance Dates unique to that subgroup, those subgroups are detailed in the text. Activities and Compliance Dates that have been met in previous years are not shown in this document.

3.1 Mixed Waste Streams

The following subsections summarize MLLW treatability groups.

3.1.1 IPA Wastes and Scintillation Fluids

Table 3.1.1-1: Treatability Groups for IPA Wastes and Scintillation Fluids

Treatability Group	MWIR* Waste ID	RCRA Codes	Net Volume (m^3)
IPA Wastes	LA-W901	D001, D009, F002, F003, F005	0.00
Scintillation Fluids	LA-W902	D001, F003, F005	0.00
Totals			**0.00**

*MWIR is Mixed Waste Inventory Report

Treatment: The waste will be treated at an offsite facility that combusts organic liquid waste.

3.1.2 Lead Blankets, Soil with Heavy Metals, Environmental Restoration (ER) Soils

Table 3.1.2-1: Treatability Groups for Lead Blankets, Soil with Heavy Metals, ER Soils

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Lead Blankets	LA-W903	D007, D008	0.00
Soil With Heavy Metals	LA-W904	D004, D005, D006, D007, D008, D009, D010, D011	0.00
ER Soils	LA-W905	D028, D029, F001, F005 D010, D011	0.00
Totals			**0.00**

Treatment: The waste will be treated at an offsite facility that stabilizes or macroencapsulates wastes.

3.1.3 Aqueous Organic Liquids

Table 3.1.3-1: Treatability Groups for Aqueous Organic Liquids

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Aqueous Organic Liquids	LA-W906-0 LA-W906-4 LA-W906-5	D001, D002, D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D027, D028, D030, D032, D033, D034, D036, D037, D038, D039, D041, D042, D043, F001, F002, F003, F004, F005	0.00
Totals			**0.00**

Table 3.1.3-2: Additional Treatability Groups for Aqueous Organic Liquids

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Aqueous Organic Liquids	LA-W906-6 LA-W906-9 LA-W906-10 LA-W906-15	D001, D002, D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D027, D028, D030, D032, D033, D034, D036, D037, D038, D039, D041, D042, D043, F001, F002, F003, F004, F005	0.00
Totals			**0.00**

3.1.4 Organic-Contaminated Combustible Solids

Table 3.1.4-1: Treatability Groups for Organic-Contaminated Combustible Solids

Treatability Group	MWIR Waste ID	RCRA codes	Net Volume (m^3)
Organic-Contaminated Combustible Solids	LA-W911	D001, D004, D008, D009, F001, F002, F003, F005	0.00
Totals			**0.00**

Table 3.1.4-2: Treatability Groups for Organic-Contaminated Noncombustible Solids

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Organic-Contaminated Noncombustible Solids	LA-W919	D001, D003, D004, D005, D006, D007, D008, D009, D010, D011, D012, D015, D018, D019, D020, D022, D027, D028, D029, D030, D031, D032, D033, D034, D035, D036, D042, D043, F001, F002, F003, F004, F005	0.00
Totals			**0.00**

3.1.5 Combustible Debris, Activated or Inseparable Lead, Noncombustible Debris

Table 3.1.5-1: Treatability Groups for Combustible Lead, Activated or Inseparable Lead, and Noncombustible Debris

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Combustible Debris	LA-W912	D001, D002, D003, D005, D006, D007, D008, D009, D011, D035, F001, F002, F003, F005	0.00
Activated Or Inseparable Lead	LA-W921	D008	0.00
Noncombustible Debris	LA-W922 LA-W922-17 LA-W922-22	D001, D002, D004, D005, D006, D007, D008, D009, D010, D011	0.00
Totals			**0.00**

3.1.6 Aqueous Wastes with Heavy Metals, Corrosive Solutions, Aqueous Cyanides, Nitrates, Chromates, and Arsenates

Table 3.1.6-1: Treatability Groups for Aqueous Wastes with Heavy Metals, Corrosive Solutions, Aqueous Cyanides, Nitrates, Chromates, and Arsenates

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Aqueous Wastes With Heavy Metals	LA-W913	D001, D002, D003, D004, D005, D006, D007, D008, D009, D010, D011	0.00

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Corrosive Solutions	LA-W914	D001, D002	0.00
Aqueous Cyanides, Nitrates, Chromates, And Arsenates	LA-W915	D001, D002, D003, D004, D005, D006, D007, D008, D009, D010, D011, F007, P029, P098	0.00
Totals			**0.00**

3.1.7 Water-Reactive Metal

Table 3.1.7-1: Treatability Groups for Water-Reactive Metal

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Water-Reactive Metal	LA-W916	D001, D003, D004, D005, D007, D008, D010, D011	0.00
Totals			**0.00**

3.1.8 Compressed Gases Requiring Scrubbing

Table 3.1.8-1: Treatability Groups for Compressed Gases Requiring Scrubbing

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Compressed Gases Requiring Scrubbing	LA-W917 LA-W917-21	D001, D002, D003, D008, D009, P056	1.2492
Totals			**1.2492**

Table 3.1.8-2: Activities and Compliance Dates for Compressed Gases Requiring Scrubbing

Activity		Compliance Dates
A.	Complete shipping of existing wastes to an offsite treatment facility or complete parallel option	6/30/2014
B.	Provide documentation to NMED that waste was received at offsite facility or provide notification of parallel option	Within 45 days of receipt of waste at treatment facility or within 45 days after completion of parallel option

3.1.9 Compressed Gases Requiring Oxidation

Table 3.1.9-1: Treatability Groups for Compressed Gases Requiring Oxidation

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Compressed Gases Requiring Oxidation	LA-W918	D001, U226	0.00
Totals			**0.00**

3.1.10 Elemental Mercury

Table 3.1.10-1: Treatability Groups for Elemental Mercury

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Elemental Mercury	LA-W920 LA-W920-16	D006, D009, F005	0.00
Totals			**0.00**

3.1.11 Halogenated Organic Liquids, Nonhalogenated Organic Liquids, Bulk Oils, Polychlorinated Biphenyl (PCB) Wastes with RCRA Components, Liquid and Solid Oxidizers

Table 3.1.11-1: Treatability Groups for Halogenated Organic Liquids, Nonhalogenated Organic Liquids, Bulk Oils, PCB Wastes with RCRA Components

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Halogenated Organic Liquids	LA-W907	D001, D002, D003, D007, D009, D010, D011, D018, D019, D022, D028, D029, D035, D043, F001, F002, F003, F004, F005, U077, U080, U226, U227, U228, U236	0.00
Nonhalogenated Organic Liquids	LA-W908 LA-W908-18	D001, D002, D003, D004, D007, D008, D009, D011, D018, D038, D040, F002, F003, F004, F005, U002, U019, U154, U169, U188, U220, U246	0.00
Bulk Oils	LA-W909 LA-W909-15 LA-W909-16 LA-W909-17	D002, D004, D005, D006, D007, D008, D009, D010, D011, D021, D027, D039, F001, F002, F003, F005	0.00
PCB Wastes With RCRA Components	LA-W910 LA-W910-16	D004, D005, D006, D007, D008, D009, D010, D011, D012, D015, D019, D027, D028, D030, D031, D032, D033, D034, D036, D039, D042, D043, F002, F003, F004, F005	0.00
Totals			**0.00**

Table 3.1.11-2: Additional Treatability Groups

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Liquid And Solid Oxidizers	LA-W923	D001, D003, D005	0.00
Totals			**0.00**

3.2 Mixed Waste Requiring Further Characterization or for Which Technology Assessment Has Not Been Done

Table 3.2-1: Treatability Groups for Waste Requiring Characterization or Assessment

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Lead Wastes - TBD	LA-W924	D003, D008	0.00
Mercury Wastes - TBD	LA-W925-0	D007, D008, D009, F001	0.00
Compressed Gases - TBD	LA-W926	D001, D007, D009, D022, P056, U080, U226	0.00
Biochemical Laboratory Wastes	LA-W927	D001, D003	0.00
Dewatered Treatment Sludge	LA-W928		0.00
Totals			**0.00**

Table 3.2-2: Additional Wastes Requiring Characterization or Assessment

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Lead Wastes - TBD	LA-W924-15 LA-W924-16 LA-W924-17	D003, D008	0.00 0.00 0.00
Mercury Wastes – TBD	LA-W925-4 LA-W925-5 LA-W925-6 LA-W925-15 LA-W925-16 LA-W925-17 LA-W925-18	D003, D007, D008, D009 F001, F002, F005	0.00
Explosives	LA-W932	D003	0.00
Labpacks	LA-W933 LA-W933-17	D001, D002, D003, D004, D005, D006, D007, D008, D010, F003, F005, D011, P012, P029, P098, P106, P113, P120, U131, U144, U145, U188, U190, U204, U216, U219	0.00
High Activity Waste	LA-W934 LA-W934-16 LA-W934-19 LA-W934-20	D001, D003, D008, D009	1.5079
Totals			**1.5079**

Table 3.2-3: Activities and Compliance Dates for Wastes Requiring Characterization or Assessment

Activity	Compliance Dates
J. Complete shipping of wastes to an offsite treatment facility, or submit documentation assigning waste items to applicable treatability groups or complete parallel option	12/31/2013
K. Provide documentation to NMED that waste was received at offsite facility or provide notification of parallel option	Within 45 days of receipt of waste at offsite facility or within 45 days after completion of parallel option

LANL's inventory of *High Activity Waste* was approximately 31 m^3 at the time the milestone was extended to December 31, 2013. LANL has subsequently shipped about 95 percent of that waste offsite. LANL's remaining inventory of *High Activity Waste* consists of six containers with a combined volume of 1.5079 m^3. LANL expects to meet the December 31, 2013, milestone for the remaining *High Activity Waste*.

Container C05180336 (Portsmouth debris) is ready for shipment, but the shipment cannot be completed until the offsite facility is able to accept it. This single container would consume over two thirds of the license limit for grams of fissile material allowed at the facility and must await a window of opportunity when the facility's inventory of fissile grams is very low. LANL continues to monitor the availability of the treatment/storage/disposal facility (TSDF), but it cannot guarantee when the offsite TSDF would be able to accept the waste. LANL will continue to review other offsite disposal options as the December 31, 2013, milestone approaches. If no other options become available, LANL will propose an extension of the milestone for Container C05180336.

Container C00130818 (Tritium traps with mercury contamination) will be shipped as soon as TSDF availability and scheduling allows.

The remaining four containers (mole sieves and squib assemblies with very high tritium) were intended to be repackaged at TA-16 once facility Authorization Basis issues had been resolved. TA-16, however, has not been able to assure that the containers could be processed within the 24-hour period allowed for removal of waste from a permitted TSDF. LANL is working with a TSDF to accept these containers. If the containers cannot be accepted, LANL will work with other TSDFs as necessary, depending on the waste stream requirements, to ensure that they are shipped offsite by the current milestone.

3.3 Plans for Other Types of Activities

The following subsection summarizes plans for other types of activities.

3.3.1 Lead Decontamination

Table 3.3.1-1: Treatability Groups for Lead Decontamination

		First Category	Second Category	Totals
Treatability Group	**MWIR Waste ID**	**Net Volume (m^3)**	**Net Volume (m^3)**	**Net Volume (m^3)**
Lead For Surface Decontamination	LA-W930-0 LA-W930-5	0.00	0.00	0.00
Totals		**0.00**	**0.00**	**0.00**

Treatment: Any lead not acceptable for onsite or offsite lead decontamination, plus any lead unsuccessfully decontaminated, will be designated in the following two categories: 1) for treatment and disposal at an offsite facility or 2) for recycle through an offsite capability, such as metal melting to create shielding blocks or a DOE lead bank. Non-conforming items will be reassigned to appropriate treatability groups in accordance with the FFCO.

Table 3.3.1-2: Additional Wastes for Lead Decontamination

		First Category	Second Category	Totals
Treatability Group	**MWIR Waste ID**	**Net Volume (m^3)**	**Net Volume (m^3)**	**Net Volume (m^3)**
Lead For Surface Decontamination	LA-W930-6	0.00	0.00	0.00
Totals		**0.00**	**0.00**	**0.00**

3.3.2 Sorting, Surveying, and Decontamination

Table 3.3.2-1: Treatability Groups for Sorting, Surveying, and Decontamination

Treatability Group	MWIR Waste ID	Net Volume (m^3)
Nonradioactive or Suspect Waste Items To Be Surveyed	LA-W929-0(1)	0.00
Nonradioactive or Suspect Waste Items To Receive RCRA and Radiological Characterization	LA-W929-0(2)	0.00
Nonradioactive or Suspect Waste Items That Cannot or Should Not Be Sampled	LA-W929-0(3)	0.00
Totals		**0.00**

Table 3.3.2-2: Additional Wastes for Sorting, Surveying, and Decontamination

Treatability Group	MWIR Waste ID	Net Volume (m^3)
Nonradioactive or Suspect Waste Items	LA-W929-5	0.00
Totals		**0.00**

3.3.3 Lead Requiring Sorting

Table 3.3.3-1: Treatability Groups for Lead Requiring Sorting

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m3)
Lead Requiring Sorting	LA-W931	D008	0.00
Totals			**0.00**

Treatment: Wastes in this treatability group will require different treatment processes. Drums will be opened, the contents removed, and the waste repackaged based on appropriate treatment requirements. Wastes in this treatability group are primarily lead pieces, lead shot, and lead-contaminated soils that have been packaged in the same drum.

The wastes will be reclassified as the applicable treatability group after physical separation and repackaging. The wastes will be treated by appropriate technology.

3.3.4 10–100 nCi/g Waste

Table 3.3.4-1: Treatability Groups for 10–100 nCi/g Waste

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
10-100 nCi/g	LA-W935 LA-W935-19 LA-W935-20 LA-W935-21 LA-W935-22	D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D026, D027, D028, D029, D030, D035, D036, D037, D038, D039, D040, D043, F001, F002, F004, F005, F006, F007, F009	**173.1088**
Totals			**173.1088**

Treatment: Wastes in this treatability group are a population of legacy drums packaged and managed as MTRU (> 100 nCi g) but, after assay, are determined to be MLLW (< 100 nCi g). Once confirmed, these drums are segregated from other TRU waste and stored in a designated MLLW storage area. Waste Profiles are prepared to allow acceptance into the low-level waste population, and drums are relabeled appropriately. A Chemical Waste Disposal Request is prepared to transfer the drums from the TRU database to the Chem-Low-Level (ChemLL) database. TRU programs will be notified of the drums reclassified from TRU to MLLW for evaluation of possible other drums based on waste stream. CCP will be notified for removal of drums from Acceptable Knowledge (AK).

The drum numbers will be submitted to Production Control for retrieval and staging as MLLW prior to offsite disposal. The MLLW drums are prepared for treatment and disposal to an offsite

facility using CCP-AK documentation and onsite and offsite profiles generated for debris or sludge drums.

Table 3.3.4-2: Activities and Compliance Dates for 10–100 nCi/g Waste

Activity	Compliance Dates
A. Complete assaying	12/01/13
B. Complete shipment of existing waste to offsite facility for treatment, or complete parallel options	12/31/13
C. Provide documentation to NMED that waste was received at offsite facility or provide notification of parallel option	Within 45 days of receipt of waste at treatment facility or within 45 days after completion of parallel option

As discussed in Part I, Section 2, LANL has prioritized waste shipments to address higher risk wastes before lower risk wastes like those in the *10-100 nCi/g Waste* (LA-W934) treatability group. Therefore, a substantial inventory of LA-W934 waste that resulted from reclassifying MTRU waste between FY07 and FY11 remains to be shipped offsite. LANL intends to complete shipment of the existing inventory (173.1088 m^3) before the milestone of December 31, 2013 as well as additional *10-100 nCi/g Waste* generated from continued remediation of legacy TRU waste in FY12. As much waste as possible that is reclassified in FY13 will also be shipped offsite prior to December 31, 2013. However, some waste produced in the latter part of 2013 may not be able to be shipped prior to December 31, 2013 if there are scheduling conflicts or restrictions at the receiving facilities. In that case, LANL would seek an additional milestone for those particular wastes.

3.4 Management of "Missing" Items

Table 3.4-1: Waste Category for "Missing Waste"

Category	MWIR Waste ID	Net Volume (m^3)
Missing/Nonexistent/TBV	None	0.00
Totals		**0.00**

Treatment: During visual inspections and sampling activities in support of STP waste work-off, occasionally an item cannot be found, or it is not located in the containers in which it is expected to be, according to the LANL data files for the waste item. In some instances, such items cannot be verified as having ever been received in storage at LANL, and follow-up investigations of the record files reveal that for various reasons, the waste items were never in fact generated, although on paper they were included in the original STP inventory.

Some items were determined not to exist after visual inspection and document review. When LANL determines that an STP-covered waste item does not exist, transfer of the item to the category called "*Missing/nonexistent/TBV (*to be verified*)*" is requested through the revision process associated with the next Annual Update.

DOE verified the absence of all "*Missing/nonexistent/TBV*" items container by container as each STP waste item was being sampled, repackaged, or otherwise prepared for onsite or offsite treatment. The final verification of all "*Missing/nonexistent/TBV*" items was completed by 2004. All missing or nonexistent items have been deleted from the STP. All remaining MLLW items in the original STP inventory have been treated and disposed of.

If, at any time, any of these items be discovered in the inventory, NMED would be notified, and approval would be requested for assignment of the rediscovered items to the appropriate treatability group. If necessary, they would be assigned new Activities and Compliance Dates, in accordance with the terms of the FFCO.

4.0 MIXED TRANSURANIC WASTE

Treatment Group(s): Assorted MTRU Waste

Offsite Disposal: MTRU waste at LANL will be shipped for disposal at WIPP, which is located in Carlsbad, New Mexico. The schedule for characterization and subsequent offsite shipment to WIPP will be dependent on the annual DOE budget allocation specific to this activity.

APPENDICES

APPENDIX A. CURRENT YEAR MLLW INVENTORY DETAIL

Table A-1: FY11 MLLW Inventory1 Detailed Update by Treatability Group

CP* Sec.	MWIR* Waste ID and Treatability Group/Category	FY10 Annual Update (m^3) [1]	Proposed Revision 22.0 (m^3)	Comments[2]	FY11 Annual Update (m^3)	Projection FY12-FY16 (m^3)
3.1.1	LA-W901 *IPA Wastes*	0	0		0	0
3.1.1	LA-W902 *Scintillation Fluids*	0	0		0	0
3.1.2	LA-W903 *Lead Blankets*	0	0		0	0
3.1.2	LA-W904 *Soil with Heavy Metals*	0	0		0	0
3.1.2	LA-W905 *ER Soils*	0	0		0	0
3.1.3	LA-W906 *Aqueous Organic Liquids*	0	0		0	0
3.1.4	LA-W911 *Organic-Contaminated Combustible Solids*	0	0		0	0
3.1.4	LA-W919 *Organic-Contaminated Noncombustible Solids*	0	0		0	0
3.1.5	LA-W912 *Combustible Debris*	0	0		0	0
3.1.5	LA-W921 *Activated or Inseparable Lead*	0	0		0	0
3.1.5	LA-W922 *Noncombustible Debris*	0	1.3027	New covered	0	0
			-1.3027	Shipped offsite for treatment/disposal		
3.1.6	LA-W913 *Aqueous Wastes with Heavy Metals*	0	0		0	0
3.1.6	LA-W914 *Corrosive Solutions*	0	0		0	0
3.1.6	LA-W915 *Aqueous Cyanides, Nitrates, Chromates, and Arsenates*	0	0		0	0

CP* Sec.	MWIR* Waste ID and Treatability Group/Category	FY10 Annual Update (m^3) [1]	Proposed Revision 22.0 (m^3)	Comments[2]	FY11 Annual Update (m^3)	Projection FY12-FY16 (m^3)
3.1.7	LA-W916 *Water-Reactive Wastes*	0	0		0	0
3.1.8	LA-W917 *Compressed Gases Requiring Scrubbing*	4.164	-0.6246	Administrative Adjustment (Existing prohibited items from MLLW STP inventory[3] recharacterized as MTRU)	1.2492	0
			-2.2902	Shipped offsite for treatment/disposal		
3.1.9	LA-W918 *Compressed Gases Requiring Oxidation*	0	0		0	0
3.1.10	LA-W920 *Elemental Mercury*	0	0		0	0
3.1.11	LA-W907 *Halogenated Organic Liquids*	0	0		0	0
3.1.11	LA-W908 *Nonhalogenated Organic Liquids*	0	0		0	0
3.1.11	LA-W909 *Bulk Oils*	0	0		0	0
3.1.11	LA-W910 *Polychlorinated Biphenyl (PCB) Wastes with Resource Conservation and Recovery Act (RCRA) Components*	0	0		0	0
3.1.11	LA-W923 *Liquid and Solid Oxidizers*	0	0		0	0
3.2	LA-W924 *Lead Wastes – TBD*	0	0		0	0
3.2	LA-W925 *Mercury Wastes – TBD*	0	0		0	0
3.2	LA-W926 *Compressed Gases – TBD*	0	0		0	0
3.2	LA-W927 *Biochemical Laboratory Wastes*	0	0		0	0
3.2	LA-W928 *Dewatered Treatment Sludge*	0	0		0	0

CP* Sec.	MWIR* Waste ID and Treatability Group/Category	FY10 Annual Update (m^3) [1]	Proposed Revision 22.0 (m^3)	Comments[2]	FY11 Annual Update (m^3)	Projection FY12-FY16 (m^3)
3.2	LA-W932 *Explosives*	0	0		0	0
3.2	LA-W933 *Labpacks*	0	0		0	0
3.2	LA-W934 *High Activity Waste*[3]	2.1709	-0.6556	Shipped offsite for treatment/disposal	1.5079	0
			-0.0074	Administrative Adjustment		
3.3.1	LA-W930 *Lead for Surface Decontamination*	0	0		0	0
3.3.2	LA-W929 *Nonradioactive or Suspect Waste Items to be Surveyed*	0	0		0	0
3.3.3	LA-W931 *Lead Requiring Sorting*	0	0		0	0
3.3.4	LA-W935 *10–100 nCi/g Waste*[3]	155.1344	76.1505	Administrative Adjustment	173.1039	460.0000[4]
			10.6028	New covered (reclassified and transferred from TRU inventory)		
			-68.7838	Shipped offsite for treatment/disposal		
3.4	*Missing/ nonexistent/ TBV category*	0	0		0	N/A
	TOTALS	**161.4693**			**175.8610**	

* CP is Compliance Plan; MWIR is Mixed Waste Inventory Report

[1] MLLW volumes are calculated using the conversion: 55-gallon container = 0.2082 m^3; 85-gallon container = 0.3218 m^3

[2] Shipment details are in Appendix B; Administrative adjustments are in Appendix C.

[3] Items prohibited from shipment to WIPP are removed from MTRU STP containers and consolidated; some are MLLW and are included in Table A-1 as LA-W917 waste; others are MTRU waste and are considered *Combustible-Noncombustible Waste* in Table E-1.

[4] LANL anticipates that a large volume of formerly TRU and MTRU waste will be retrieved over the next few years and will be reclassified to LA-W935. As a conservative measure, the stored reclassified TRU waste will be assigned hazardous waste codes and will be managed as STP mixed waste.

APPENDIX B. CURRENT YEAR MLLW SHIPMENT DETAIL

Table B-1. MLLW Shipped Offsite for Treatment and Disposal in FY11

CP Section	MWIR No.	Treatability Group	Manifest Number	Destination	Date Shipped	Date NMED Notified	Volume (m^3)
3.1.5	LA-W922	*Noncombustible Debris*	00368697JJK	Perma-Fix/FL	4/25/2011	5/31/2011 (ENV-ES-11-109)	1.3027
						LA-W922 Total	**1.3027**
3.1.8	LA-W917	*Compressed Gases Requiring Scrubbing*	007042905JJK	Perma-Fix/M&EC	9/19/2011	12/9/2011 (ENV-ES-11-0285)	2.2902
						LA-W917 Total	**2.2902**
3.2	LA-W934	*High Activity Waste*	00704285JJK	Perma-Fix/M&EC	8/29/2011	9/30/2011 (ENV-ES-11-0210)	0.2392
3.2	LA-W934	*High Activity Waste*	00704286JJK	Perma-Fix/M&EC	8/29/2011	9/30/2011 (ENV-ES-11-0210)	0.4164
						LA-W934 Total	**0.6556**
3.3.4	LA-W935	*10–100 nCi/g Waste*	000368685JJK	Perma-Fix/NW	4/14/2011	5/20/2011 (ENV-ES-11-101)	24.9108
3.3.4	LA-W935	*10–100 nCi/g Waste*	000368972JJK	Perma-Fix/NW	6/22/2011	7/25/2011 (ENV-ES-11-0153)	9.4800
3.3.4	LA-W935	*10–100 nCi/g Waste*	007042787JJK	Perma-Fix/NW	9/15/2011	10/28/2011 (ENV-ES-11-0234)	3.4093
3.3.4	LA-W935	*10–100 nCi/g Waste*	007042788JJK	Perma-Fix/NW	9/15/2011	10/28/2011 (ENV-ES-11-0234)	5.8446
3.3.4	LA-W935	*10–100 nCi/g Waste*	007042926JJK	Perma-Fix/NW	9/22/2011	10/28/2011 (ENV-ES-11-0234)	12.6978
3.3.4	LA-W935	*10100 nCi/g Waste*	007042784JJK	Perma-Fix/NW	9/27/2011	10/28/2011 (ENV-ES-11-0234)	10.6852
3.3.4	LA-W935	*10100 nCi/g Waste*	0070442790JJK	Perma-Fix/NW	9/27/2011	10/28/2011 (ENV-ES-11-0234)	1.7561
						LA-W935 Total	**68.7838**
						Grand Total	**73.0323**

APPENDIX C. CURRENT YEAR MLLW ADMINISTRATIVE ADJUSTMENTS

Table C-1. Administrative Adjustments

CP Section	MWIR Number	Administrative Adjustment	Volume (m^3)
3.1.8	LA-W917	Removal of MLLW STP WIPP-prohibited items due to recharacterization as MTRU prohibited items	-0.6246
		Total Net Adjustments for LA-W917	**-0.6246**
3.2	LA-W934	Database correction: adjustment of container volumes	-0.0074
		Total Net Adjustments for LA-W934	**-0.0074**
3.3.4	LA-W935	Transferred into LA-W935 from MTRU STP Inventory	77.3051[1]
		FY10 inventory included 0.3218 m^3 that should not have been in the inventory	-0.3218
		Deletion of *10–100 nCi/g Waste* that had been shipped as *High Activity Waste* (0.8496 m^3) in FY10 (ENV-RRO-10-020)	-0.6246
		Deletion of *10–100 nCi/g Waste* that had been shipped offsite in FY07 (ENV-RCRA-07-254) but was still included in the FY10 inventory	-0.2082
		Total Net Adjustments for LA-W935	**76.1505**
		Total Net Adjustments	**75.5185**

[1] Due to differences in the way the MTRU and MLLW databases record volumes, the equivalent volume removed from the MTRU Inventory was 77.310 m^3.

Table C-2. Administrative Adjustment - Detail

CP Section	MWIR	Treatability Group	Type of Adjustment	Cumulative Volume Adjustment (m^3)	Item or Container Number	Item or Container Volume (m^3)	Reason for Administrative Adjustment
3.1.8	LA-W917	Compressed Gases Requiring Scrubbing	Re-evaluated to be MLLW	-0.6246	Item 10132707	0.2082	Gamma spectroscopy recount determined waste to be MLLW rather than MTRU as had been reported in the FY10 Annual Report
					Item 10132617	0.2082	Data was reexamined and item determined to be MLLW rather than MTRU as had been reported in the FY10 Annual Report
					Item 10132621	0.2082	Data was reexamined and item determined to be MLLW rather than MTRU as had been reported in the FY10 Annual Report
3.2	LA-W934	High Activity Waste	Incorrect volumes in previous reports	-0.0074	C01136479	0.2082 (increase of 0.0002 m^3)	FY10 volume corrected from 0.208 m^3 as reported in the FY10 Annual Report to 0.2082 m^3 using the LANL MLLW volume conventions

CP Section	MWIR	Treatability Group	Type of Adjustment	Cumulative Volume Adjustment (m^3)	Item or Container Number	Item or Container Volume (m^3)	Reason for Administrative Adjustment
					C01136480	0.2082 (increase of 0.0002 m^3)	FY10 volume corrected from 0.208 m^3 as reported in the FY10 Annual Report to 0.2082 m^3 using the LANL MLLW volume conventions
					C00130820	0.001 (decrease of 0.009m^3)	FY10 volume corrected from 0.01 m^3 as reported in the FY10 Annual Report to 0.0010 m^3 - wrong decimal placement
					C09203611	0.3218 (increase of 0.0003 m^3)	FY10 volume corrected from 0.3215 m^3 as reported in the FY10 Annual Report to 0.3218 m^3 using the standard MLLW volume conventions
					C09203612	0.3218 (increase of 0.0003 m^3)	FY10 volume corrected from 0.3215 m^3 as reported in the FY10 Annual Report to 0.3218 m^3 using the standard MLLW volume conventions
					C09203613	0.3218 (increase of 0.0003 m^3)	FY10 volume corrected from 0.3215 m^3 as reported in the FY10 Annual Report to 0.3218 m^3 using the standard MLLW volume conventions
					C09203614	0.3218 (increase of 0.0003 m^3)	FY10 volume corrected from 0.3215 m^3 as reported in the FY10 Annual Report to 0.3218 m^3 using the standard MLLW volume conventions
3.3.4	LA-W935	10-100 nCi/g	Not in inventory; previously shipped	-0.2082	C07194669	0.2082	Included in FY10 inventory but had been shipped offsite in FY07
			Should not have been in inventory	-0.3218	Unknown	NA	The reported inventory volume for FY10 exceeded the FY12 wall-to-wall inventory volume; the discrepancy could not be identified with any given container and may have been the result of double-counting one 85 gallon container; the current inventory volume was reduced by 0.3218 m^3

CP Section	MWIR	Treatability Group	Type of Adjustment	Cumulative Volume Adjustment (m^3)	Item or Container Number	Item or Container Volume (m^3)	Reason for Administrative Adjustment
			Volume reported twice as High Activity Waste and 10-100 nCi/g Waste	-0.6246	C07190323	0.6246	This oversize container comprised 3 MTRU containers (S814701, S814752, S803793), each 0.2082 m^3, that had been reclassified to MLLW; the same container, C07190323, was also listed as High Activity Waste (LA-W934) with a revised volume of 0.8496 m^3); C07190323 was shipped off-site as 0.8496 m^3 of High Activity Waste in FY10; the 10-100 nCi/g waste volume was reduced to remove the duplicate volume (0.6246 m^3).
			Reclassified MTRU STP inventory to MLLW	77.3051	C11221252	19.1241	Less than 100 nCi/g; Derived from combustible-noncombustible MTRU inventory (MTRU Container 55124, 19.12 m^3)
					C11221253	9.2885	Less than 100 nCi/g; Derived from combustible/noncombustible MTRU inventory (MTRU Container 55300, 9.29 m^3)
					C11221254	10.6852	Less than 100 nCi/g; Derived from combustible/noncombustible MTRU inventory (MTRU Container 55301, 10.69 m^3)
					C11218508	14.308	Less than 100 nCi/g; Derived from combustible/noncombustible MTRU inventory (MTRU Container 56254, 14.31 m^3)
					C11218510	9.48	Less than 100 nCi/g; Derived from noncombustible MTRU inventory (MTRU Container 59567, 11.300 m^3)
					C11221255	3.4093	Less than 100 nCi/g; Derived from combustible/noncombustible MTRU inventory (MTRU Container S811761, 3.41 m^3)
					C11221257	3.4093	Less than 100 nCi/g; Derived from combustible/noncombustible MTRU inventory (MTRU Container S851167, 3.41 m^3)
					C11221258	5.8446	Less than 100 nCi/g; Derived from combustible/noncombustible MTRU inventory (MTRU Container S860114, 5.84 m^3)
					C11221260	1.7561	Less than 100 nCi/g; Derived from combustible/noncombustible MTRU inventory (MTRU Container S865195, 1.76 m^3)

APPENDIX D. PREVIOUS YEAR MLLW INVENTORY DETAIL

Table D-1: FY10 MLLW Inventory1 Detailed Update by Treatability Group

CP* Sec.	MWIR* Waste ID and Treatability Group/Category	FY09 Annual Update (m^3) [1]	Proposed Revision 21.0 (m^3)	Comments[2]	FY10 Annual Update (m^3)	Projection FY11–FY15 (m^3)
3.1.1	LA-W901 *IPA Wastes*	0	0		0	0
3.1.1	LA-W902 *Scintillation Fluids*	0	0		0	0
3.1.2	LA-W903 *Lead Blankets*	0	0		0	0
3.1.2	LA-W904 *Soil with Heavy Metals*	0	0		0	0
3.1.2	LA-W905 *ER Soils*	0	0		0	0
3.1.3	*LA*-W906 *Aqueous Organic Liquids*	0	0		0	0
3.1.4	LA-W911 *Organic-Contaminated Combustible Solids*	0	0		0	0
3.1.4	LA-W919 *Organic-Contaminated Noncombustible Solids*	0.2082	-0.2082	Shipped offsite for treatment/disposal	0	0
3.1.5	LA-W912 *Combustible Debris*	0	0		0	0
3.1.5	LA-W921 *Activated or Inseparable Lead*	0	0		0	0
3.1.5	LA-W922 *Noncombustible Debris*	0	0		0	1.3000
3.1.6	LA-W913 *Aqueous Wastes with Heavy Metals*	0	0		0	0
3.1.6	LA-W914 *Corrosive Solutions*	0	0		0	0
3.1.6	LA-W915 *Aqueous Cyanides, Nitrates, Chromates, and Arsenates*	0	0		0	0
3.1.7	LA-W916 *Water-Reactive Wastes*	0	0		0	0

CP* Sec.	MWIR* Waste ID and Treatability Group/Category	FY09 Annual Update (m^3) [1]	Proposed Revision 21.0 (m^3)	Comments[2]	FY10 Annual Update (m^3)	Projection FY11–FY15 (m^3)
3.1.8	LA-W917 *Compressed Gases Requiring Scrubbing*	0	4.1640	Administrative Adjustment (prohibited items from MTRU STP inventory[3] added from MTRU inventory)	4.1460	0
3.1.9	LA-W918 *Compressed Gases Requiring Oxidation*	0	0		0	0
3.1.10	LA-W920 *Elemental Mercury*	0	0		0	0
3.1.11	LA-W907 *Halogenated Organic Liquids*	0	0		0	0
3.1.11	LA-W908 *Nonhalogenated Organic Liquids*	0	0		0	0
3.1.11	LA-W909 *Bulk Oils*	0	0		0	0
3.1.11	LA-W910 *Polychlorinated Biphenyl (PCB) Wastes with Resource Conservation and Recovery Act (RCRA) Components*	0	0		0	0
3.1.11	LA-W923 *Liquid and Solid Oxidizers*	0	0		0	0
3.2	LA-W924 *Lead Wastes – TBD*	0	0		0	0
3.2	LA-W925 *Mercury Wastes – TBD*	0	0		0	0
3.2	LA-W926 *Compressed Gases – TBD*	0	0		0	0
3.2	LA-W927 *Biochemical Laboratory Wastes*	0	0		0	0
3.2	LA-W928 *Dewatered Treatment Sludge*	0	0		0	0
3.2	LA-W932 *Explosives*	0	0		0	0

CP* Sec.	MWIR* Waste ID and Treatability Group/Category	FY09 Annual Update (m^3) [1]	Proposed Revision 21.0 (m^3)	Comments[2]	FY10 Annual Update (m^3)	Projection FY11–FY15 (m^3)
3.2	LA-W933 *Labpacks*	0	0		0	0
3.2	LA-W934 *High Activity Waste*[3]	31.5012	-29.3303	Shipped offsite for treatment/disposal	2.1709	0.1000
3.3.1	LA-W930 *Lead for Surface Decontamination*	0	0		0	0
3.3.2	LA-W929 *Nonradioactive or Suspect Waste Items to be Surveyed*	0	0		0	0
3.3.3	LA-W931 *Lead Requiring Sorting*	0	0		0	0
3.3.4	LA-W935 *10–100 nCi/g Waste*[3]	14.2128	187.1618	Administrative Adjustment	155.1344	460.0000[4]
			-46.2402	Shipped offsite for treatment/disposal		
3.4	*Missing/ Nonexistent/TBV category*	0	0		0	N/A
	TOTALS	**45.9222**			**161.4693**	

* CP is Compliance Plan; MWIR is Mixed Waste Inventory Report
[1] MLLW volumes are calculated using the conversion: 55-gallon container = 0.2082 m^3; 85-gallon container = 0.3218 m^3
[2] Shipment details are in Appendix B; Administrative adjustments are in Appendix C.
[3] Items prohibited from shipment to WIPP are removed from MTRU STP containers and consolidated; some are MLLW and are included in Table A-1 as LA-W917 waste; others are MTRU waste and are considered *Combustible-Noncombustible Waste* in Table E-1.
[4] LANL anticipates that a large volume of formerly TRU and MTRU waste will be retrieved over the next few years and will be reclassified to LA-W935. As a conservative measure, the reclassified TRU waste will be assigned hazardous waste codes and will be managed as STP mixed waste.

APPENDIX E. CURRENT MTRU INVENTORY DETAIL

Table E-1. TA-54 MTRU Covered Inventory (by Treatability Group1, 2)

Treatability Group	FY10 Annual Update (m^3)	Proposed Revision 21.0 (m^3)	Comments[3]	FY11 Annual Update (m^3)	Projection FY12-FY16 (m^3)
Cemented Sludge	**742.278**				
		4.368	New Covered		
		-17.236	Shipped Offsite		
		-66.588	Administrative Adjustments		
			FY10 Subtotal *Cemented Sludge*	**662.822**	0
Combustible - Noncombustible Waste	**1771.174**				
		7.507	New Covered		
		-173.888	Shipped Offsite		
		400.751	Administrative Adjustments		
			FY10 Subtotal *Combustible-Noncombustible Waste*	**2005.544**	100
Combustible Waste	**18.334**				
		2.254	New Covered		
		-2.080	Shipped Offsite		
		1.952	Administrative Adjustments		
			FY10 Subtotal *Combustible Waste*	**20.460**	0
Glass Waste	**0.208**				
		0	New Covered		
		0	Shipped Offsite		
		0	Administrative Adjustments		
			FY10 Subtotal *Glass Waste*	**0.208**	0
Leaded Glovebox Waste	**0**				
		0	New Covered		
		0	Shipped Offsite		
		0	Administrative Adjustments		
			FY10 Subtotal *Leaded Glovebox Waste*	**0**	0
Metallic Waste	**48.758**				
		0	New Covered		
		-0.208	Shipped Offsite		
		70.438	Administrative Adjustments		
			FY10 Subtotal *Metallic Waste*	**118.988**	0

Treatability Group	FY10 Annual Update (m^3)	Proposed Revision 21.0 (m^3)	Comments[3]	FY11 Annual Update (m^3)	Projection FY12-FY16 (m^3)
Noncombustible Waste	**81.700**				
		0	New Covered		
		-5.824	Shipped Offsite		
		49.476	Administrative Adjustments		
			FY10 Subtotal *Noncombustible Waste*	**125.352**	100
Solidified Inorganic and Organic Waste	**144.064**				
		3.744	New Covered		
		-4.160	Shipped Offsite		
		-2.778	Administrative Adjustments		
			FY10 Subtotal *Solidified Inorganic and Organic Waste*	**140.870**	10
TOTAL FY10:	**2806.516**		**Total FY11 Inventory:**	**3074.244[4]**	**210**

[1] MTRU waste volumes are calculated using the conversion: 55-gallon container = 0.2080 m^3; 85-gallon container = 0.3215 m^3.
[2] Volumes are represented to three decimal places in accordance with an agreement with NMED to report MTRU volumes to three decimal places.
[3] Shipping details are found in Appendix F, and Administrative Adjustments are found in Appendix G.
[4] Depending on the rounding method (rounding of totals or of individual volumes), minor differences in the total inventory may be obtained. This report adjusts the end-of-the-year inventory with individual drum volumes rounded to three decimal places in the Administrative Adjustments in Table G-1.

Table E-2: MTRU Inventory at TA-55 and CMR

Location	FY10 MTRU Inventory (m^3)[1]	Treatability Group	Proposed Revision 22.0 (m^3)	Comments[1]	FY11 MTRU Inventory (m^3)
CMR	**3.356**	*Combustible-Noncombustible Waste*	0.208	New Covered	
				Total FY11 CMR Inventory	**3.564**
TA-55	**1.930**	*Combustible-Noncombustible Waste*	2.080	New Covered	
			1.796	Administrative Adjustment	
				FY11 TA-55 Combustible-Noncombustible Waste Inventory	**5.806**
TA-55	**31.987**	*Metallic Waste*			
				FY11 TA-55 Metallic Waste Inventory	**31.987**
TA-55	**3.126**	*Noncombustible Waste*	0.624	New Covered	
			-0.602	Administrative Adjustment	
				FY11 TA-55 Noncombustible Waste Inventory	**3.148**
TA-55	**0.208**	*Solid Organic and Inorganic Waste*			
				FY11 TA-55 Solidified Organic and Inorganic Waste Inventory	**0.208**
				Total FY11 TA-55 Inventory	**41.149**
	40.607			***Total FY11 CMR/TA-55 Inventory***	**44.713**

[1] Shipping details are found in Appendix F and Administrative Adjustments are found in Appendix G. Since all waste is shipped from TA-54, there are no shipping data for CMR/TA-55, only transfers to TA-54, which are included in the Appendix G.

APPENDIX F. FY11 MTRU WASTE SHIPMENTS TO WIPP

Table F-1: FY11 MTRU Shipments to WIPP

FY11 Quarter	Treatability Group	FY11 Inventory Volume (m^3)	New Covered Volume (m^3)	Total Removed from Inventory (m^3)	Total Volume Shipped (m^3)
	Cemented Sludge Total	4.032	0	4.032	3.120
	Combustible Waste Total	0.208	0	0.208	0.208
	Combustible-Noncombustible Waste Total	23.504	0	23.504	23.504
	Noncombustible Waste Total	1.040	0	1.040	1.040
	Solidified Inorganic and Organic Waste Total	2.080	0	2.080	2.080
Q1 Total		**30.864**	**0**	**30.864**	**29.952**
	Cemented Sludge Total	7.132	0	7.132	6.448
	Combustible Waste Total	0.624	0	0.624	0.624
	Combustible-Noncombustible Waste Total	28.496	0.832	29.328	29.328
	Metallic Waste Total	0.208	0	0.208	0.208
	Noncombustible Waste Total	1.456	0	1.456	1.456
	Solidified Inorganic and Organic Waste Total	0.832	0.208	1.040	1.040
Q2 Total		**38.748**	**1.040**	**39.788**	**39.104**
	Cemented Sludge Total	5.334	0	5.334	4.992
	Combustible Waste Total	0.832	0	0.832	0.832
	Combustible-Noncombustible Waste Total	70.304	0.208	70.512	70.512
	Noncombustible Waste Total	0.416	0	0.416	0.416
	Solidified Inorganic and Organic Waste Total	0	0.416	0.416	0.416
Q3 Total		**76.886**	**0.624**	**77.510**	**77.168**
	Cemented Sludge Total	0.738	0	0.738	0.624
	Combustible Waste Total	0.416	0	0.416	0.416
	Combustible-Noncombustible Waste Total	49.296	1.248	50.544	50.544
	Noncombustible Waste Total	2.912	0	2.912	2.912
	Solidified Inorganic and Organic Waste Total	0.208	0.416	0.624	0.624
Q4 Total		**53.570**	**1.664**	**55.234**	**55.120**
Grand Total		**200.068**	**3.328**	**203.396**	**201.344**

APPENDIX G. CURRENT YEAR MTRU INVENTORY – ADMINISTRATIVE ADJUSTMENTS

Table G-1: FY11 MTRU Administrative Adjustments to TA-54 Inventory

Treatability Group	Administrative Adjustment	Volume (m^3)
Cemented Sludge	Reclassified as MLLW (LA-W935)[1]	0
	Repacked into 51.376 m^3 *Combustible-Noncombustible Waste*	-68.676
	Database correction (quality control activities resulted in correction of database volumes)	2.088
	***Cemented Sludge* Net Adjustment**	**-66.588**
Combustible-Noncombustible Waste	Reclassified as MLLW (LA-W935)[1]	-67.830
	Added as a result of recharacterizing TRU inventory as MTRU during repacking	71.400
	Repacked into 51.448 m^3 *Combustible-Noncombustible Waste* and 17.888 m^3 *Noncombustible Waste*	-64.378
	Additional covered inventory transferred from TA-55 covered inventory	3.356
	Added as a result of repacking *Cemented Sludge* waste	51.376
	Added as a result of repacking *Combustible-Noncombustible Waste*	51.448
	Added as a result of repacking *Combustible Waste*	3.952
	Added as a result of repacking *Metallic Waste*	0.416
	Added as a result of repacking *Noncombustible Waste*	0.416
	Added as a result of repacking *Solidified Inorganic and Organic Waste*	5.616
	MTRU WIPP-prohibited items reclassified as *Noncombustible Waste*	-0.832
	Adjustment for rounding	-0.001
	Database correction (containers should not have appeared in FY10 end-of-year inventory)	-2.912
	Database correction (quality control activities resulted in recoding waste as MTRU)	3.234
	Database correction (container volumes were validated and database corrections made)	345.490
	***Combustible-Noncombustible* Net Adjustment**	**400.751**
Combustible Waste	Reclassified as MLLW (LA-W935)[1]	0
	Repacked into 3.952 m^3 *Combustible-Noncombustible Waste* and 3.952 m^3 *Noncombustible Waste*	-4.824
	Database correction (Quality control activities resulted in recoding waste as MTRU)	6.776
	***Combustible Waste* Net Adjustment**	**1.952**
Metallic Waste	Reclassified as MLLW (LA-W935)[1]	0
	Repacked into 0.416 m^3 *Combustible-Noncombustible Waste* and 0.208 m^3 *Noncombustible Waste*	-0.416
	Database correction (quality control activities resulted in recoding waste as MTRU)	11.278
	Database correction (missing LANL waste code prevented container from being identified as STP waste until database error was corrected in FY11)	0.208
	Database correction (container volumes were validated and database corrections made)	59.368
	***Metallic Waste* Net Adjustment**	**70.438**
Noncombustible Waste	Reclassified as MLLW (LA-W935)[1]	-9.480
	Repacked into 0.416 m^3 *Combustible-Noncombustible Waste* and 0.832 m^3 *Noncombustible Waste*	-0.832

Treatability Group	Administrative Adjustment	Volume (m^3)
	Added as a result of repacking *Combustible-Noncombustible Waste*	17.888
	Added as a result of repacking *Noncombustible Waste*	0.832
	Added as result of repacking *Combustible Waste*	3.952
	Added as result of repacking *Metallic Waste*	0.208
	Added as result of repacking *Solidified Inorganic and Organic Waste*	3.328
	Added as a result of reclassifying *Combustible-Noncombustible Waste* WIPP-prohibited items to *Noncombustible Waste*	0.832
	Added as a result of accumulating MTRU WIPP-prohibited items	0.832
	Added as a result of recharacterizing TRU inventory as MTRU during repacking	21.216
	Database correction (quality control activities resulted in correction of database volumes)	9.130
	Database correction (quality control activities resulted in recoding waste as MTRU)	1.570
	***Noncombustible Waste* Net Adjustment**	**49.476**
Solidified Inorganic and Organic Waste	Reclassified as MLLW (LA-W935)[1]	0
	Database correction (containers should not have appeared in FY10 end-of-year inventory)	-0.416
	Repacked into 5.616 m^3 *Combustible-Noncombustible Waste* and 3.328 m^3 *Noncombustible Waste*	-5.616
	Database correction (quality control activities resulted in recoding waste as MTRU)	2.704
	Database correction (container volumes were validated and database corrections made)	0.550
	***Solidified Inorganic and Organic Waste* Net Adjustment**	**-2.778**
	Total Net TA-54 Adjustment	**453.251**

[1] The MTRU volume removed from the STP inventory was calculated using the MTRU standard conversion (55- gallon container = 0.2080 m^3); when that volume is recalculated in the MLLW inventory using the MLLW conversion (55- gallon container = 0.2082 m^3 and 85- gallon container = 0.3218 m^3), the total volume transferred increasesfrom 140.407 m^3 to 140.5406 m^3 (as shown in Appendix C).

Table G-2: FY11 MTRU Administrative Adjustments for CMR and TA-55 Inventory

Location	Treatability Group	Administrative Adjustment	Volume (m^3)
CMR	*Combustible-Noncombustible Waste*	No changes	0
		Net Adjustment CMR Inventory	**0**
TA-55	*Combustible-Noncombustible Waste*		
		One container (0.602 m^3) added as a result of recategorizing *Noncombustible Waste*	0.602
		Added due to overpacking waste (1.358 m^3) into Standard Waste Boxes	6.242
		One container (0.208 m^3) was omitted from the FY10 inventory	0.208
		Transferred in FY10 and included in TA-54 FY10 inventory	-1.900
		Transferred to TA-54 and assigned to *Combustible-Noncombustible Waste* in the TA-54 inventory	-3.356
		Net Adjustment TA-55 *Combustible-Noncombustible Waste*	**1.796**
TA-55	*Noncombustible Waste*	One container (0.602 m^3) recategorized to *Combustible-Noncombustible Waste*	-0.602
		Net Adjustment TA-55 *Noncombustible Waste*	**-0.602**
		Net Adjustment TA-55 Inventory	**1.194**
		Total Net TA-55/CMR Adjustment	**1.194**

Table G-3: FY11 MTRU Administrative Adjustments – TA-54 Volume Adjustments

Note: In all cases, database volumes were adjusted in FY11 as a result of routine inspections of containers that identified discrepancies between actual volumes and volumes recorded in the database.

Container ID	Treatability Group	Container Volume Reported in FY10 Update (m^3)	Revised Container Volume for FY11 Update (m^3)	Volume Change (m^3)
54104	*Cemented Sludge*	0.322	0.208	-0.114
S794276	*Cemented Sludge*	0.322	0.416	0.094
S803975	*Cemented Sludge*	0.322	0.208	-0.114
S807070	*Cemented Sludge*	0.322	0.208	-0.114
S810329	*Cemented Sludge*	0.322	0.208	-0.114
S814698	*Cemented Sludge*	0.322	0.208	-0.114
S814802	*Cemented Sludge*	0.322	0.208	-0.114
S822238	*Cemented Sludge*	0.322	0.208	-0.114
S822241	*Cemented Sludge*	0.322	0.208	-0.114
S822259	*Cemented Sludge*	0.208	0.322	0.114
S823747	*Cemented Sludge*	0.322	0.208	-0.114

Container ID	Treatability Group	Container Volume Reported in FY10 Update (m^3)	Revised Container Volume for FY11 Update (m^3)	Volume Change (m^3)
S823755	*Cemented Sludge*	0.322	0.208	-0.114
S832546	*Cemented Sludge*	0.208	0.322	0.114
S835397	*Cemented Sludge*	0.208	0.322	0.114
S842521	*Cemented Sludge*	0.208	0.322	0.114
S843994	*Cemented Sludge*	0.322	0.208	-0.114
S844677	*Cemented Sludge*	0.322	0.416	0.094
S845027	*Cemented Sludge*	0.208	0.322	0.114
S845086	*Cemented Sludge*	0.322	0.416	0.094
S846050	*Cemented Sludge*	0.208	0.322	0.114
S846683	*Cemented Sludge*	0.322	0.208	-0.114
S846689	*Cemented Sludge*	0.322	0.208	-0.114
S851726	*Cemented Sludge*	0.322	1.900	1.578
S855181	*Cemented Sludge*	0.208	0.322	0.114
S855186	*Cemented Sludge*	0.208	0.322	0.114
S860040	*Cemented Sludge*	0.208	0.322	0.114
S860151	*Cemented Sludge*	0.208	0.322	0.114
S860152	*Cemented Sludge*	0.208	0.322	0.114
S862405	*Cemented Sludge*	0.208	0.322	0.114
S862514	*Cemented Sludge*	0.208	0.322	0.114
S862590	*Cemented Sludge*	0.322	0.208	-0.114
S862994	*Cemented Sludge*	0.208	0.322	0.114
S863942	*Cemented Sludge*	0.322	0.208	-0.114
S864202	*Cemented Sludge*	0.208	0.322	0.114
S864360	*Cemented Sludge*	0.208	0.322	0.114
S864362	*Cemented Sludge*	0.208	0.322	0.114
	Cemented Sludge Total	9.654	11.742	2.088
3440	*Combustible-Noncombustible Waste*	0.000	5.980	5.980
3441	*Combustible-Noncombustible Waste*	0.000	9.760	9.760
52300	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
52301	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
52302	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
52303	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
52304	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
52305	*Combustible-Noncombustible Waste*	2.320	2.560	0.240

Container ID	Treatability Group	Container Volume Reported in FY10 Update (m^3)	Revised Container Volume for FY11 Update (m^3)	Volume Change (m^3)
52306	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
52307	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
52308	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
53877	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
53878	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
53879	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
53880	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
53881	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
53882	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
53883	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
53884	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
53885	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
53886	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
53887	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
53888	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
53889	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
53890	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
53891	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
53892	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
53893	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
53894	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
53895	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
53896	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
53897	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
53898	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
53899	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
54200	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
54201	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
54202	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
54203	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
54204	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
54205	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
54206	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
54207	*Combustible-Noncombustible Waste*	2.320	2.560	0.240

Container ID	Treatability Group	Container Volume Reported in FY10 Update (m^3)	Revised Container Volume for FY11 Update (m^3)	Volume Change (m^3)
54208	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
54209	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
54210	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
54211	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
54212	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
54213	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
54214	*Combustible-Noncombustible Waste*	2.320	2.560	0.240
55119	*Combustible-Noncombustible Waste*	5.692	6.130	0.438
55120	*Combustible-Noncombustible Waste*	13.650	23.810	10.160
55123	*Combustible-Noncombustible Waste*	24.553	26.720	2.167
55124	*Combustible-Noncombustible Waste*	19.031	19.120	0.089
55125	*Combustible-Noncombustible Waste*	8.156	8.850	0.694
55300	*Combustible-Noncombustible Waste*	4.758	9.290	4.532
55301	*Combustible-Noncombustible Waste*	11.838	10.690	-1.148
55304	*Combustible-Noncombustible Waste*	11.101	19.270	8.169
55306	*Combustible-Noncombustible Waste*	9.714	11.760	2.046
56253	*Combustible-Noncombustible Waste*	15.100	16.460	1.360
56254	*Combustible-Noncombustible Waste*	12.880	14.310	1.430
57399	*Combustible-Noncombustible Waste*	16.740	18.710	1.970
57605	*Combustible-Noncombustible Waste*	1.509	4.850	3.341
57606	*Combustible-Noncombustible Waste*	4.434	6.070	1.636
57607	*Combustible-Noncombustible Waste*	6.943	6.780	-0.163
57610	*Combustible-Noncombustible Waste*	4.810	4.870	0.060
57611	*Combustible-Noncombustible Waste*	6.510	8.250	1.740
58200	*Combustible-Noncombustible Waste*	3.800	14.380	10.580
58201	*Combustible-Noncombustible Waste*	5.600	14.170	8.570
58202	*Combustible-Noncombustible Waste*	5.600	14.270	8.670
58500	*Combustible-Noncombustible Waste*	63.000	64.890	1.890
62189	*Combustible-Noncombustible Waste*	10.860	10.950	0.090
62450	*Combustible-Noncombustible Waste*	7.000	26.650	19.650
62451	*Combustible-Noncombustible Waste*	4.410	5.360	0.950
S791968	*Combustible-Noncombustible Waste*	5.437	5.980	0.543
S792016	*Combustible-Noncombustible Waste*	8.496	10.730	2.234
S792054	*Combustible-Noncombustible Waste*	11.900	12.740	0.840

Container ID	Treatability Group	Container Volume Reported in FY10 Update (m^3)	Revised Container Volume for FY11 Update (m^3)	Volume Change (m^3)
S792093	*Combustible-Noncombustible Waste*	5.437	5.980	0.543
S792121	*Combustible-Noncombustible Waste*	14.160	24.700	10.540
S792124	*Combustible-Noncombustible Waste*	14.160	23.590	9.430
S792125	*Combustible-Noncombustible Waste*	14.160	15.090	0.930
S792128	*Combustible-Noncombustible Waste*	14.200	23.970	9.770
S792129	*Combustible-Noncombustible Waste*	14.160	12.570	-1.590
S794028	*Combustible-Noncombustible Waste*	25.500	55.970	30.470
S794029	*Combustible-Noncombustible Waste*	16.312	34.250	17.938
S794030	*Combustible-Noncombustible Waste*	18.351	32.260	13.909
S794031	*Combustible-Noncombustible Waste*	16.284	28.500	12.216
S794032	*Combustible-Noncombustible Waste*	18.408	21.200	2.792
S794033	*Combustible-Noncombustible Waste*	18.408	28.500	10.092
S794034	*Combustible-Noncombustible Waste*	16.284	20.390	4.106
S794035	*Combustible-Noncombustible Waste*	18.400	12.570	-5.830
S794036	*Combustible-Noncombustible Waste*	16.312	22.720	6.408
S794037	*Combustible-Noncombustible Waste*	16.312	28.340	12.028
S794064	*Combustible-Noncombustible Waste*	5.400	5.980	0.580
S794070	*Combustible-Noncombustible Waste*	21.750	23.380	1.630
S794075	*Combustible-Noncombustible Waste*	30.900	35.750	4.850
S794124	*Combustible-Noncombustible Waste*	32.600	34.130	1.530
S794125	*Combustible-Noncombustible Waste*	32.600	33.840	1.240
S794126	*Combustible-Noncombustible Waste*	32.600	34.130	1.530
S794128	*Combustible-Noncombustible Waste*	21.750	23.110	1.360
S794152	*Combustible-Noncombustible Waste*	24.468	39.880	15.412
S794154	*Combustible-Noncombustible Waste*	24.468	41.290	16.822
S794155	*Combustible-Noncombustible Waste*	21.750	36.970	15.220
S803219	*Combustible-Noncombustible Waste*	24.468	30.030	5.562
S803221	*Combustible-Noncombustible Waste*	24.468	30.840	6.372
S803222	*Combustible-Noncombustible Waste*	21.750	8.820	-12.930
S803236	*Combustible-Noncombustible Waste*	12.687	21.530	8.843
S803237	*Combustible-Noncombustible Waste*	14.200	12.400	-1.800
S804110	*Combustible-Noncombustible Waste*	1.900	3.410	1.510
S804111	*Combustible-Noncombustible Waste*	0.510	3.410	2.900
S804112	*Combustible-Noncombustible Waste*	0.566	3.410	2.844

Container ID	Treatability Group	Container Volume Reported in FY10 Update (m^3)	Revised Container Volume for FY11 Update (m^3)	Volume Change (m^3)
S804113	*Combustible-Noncombustible Waste*	0.113	3.410	3.297
S804114	*Combustible-Noncombustible Waste*	0.057	3.410	3.353
S811186	*Combustible-Noncombustible Waste*	3.172	3.330	0.158
S811445	*Combustible-Noncombustible Waste*	3.172	3.410	0.238
S811446	*Combustible-Noncombustible Waste*	3.172	3.410	0.238
S811447	*Combustible-Noncombustible Waste*	3.172	3.410	0.238
S811761	*Combustible-Noncombustible Waste*	3.172	3.410	0.238
S811773	*Combustible-Noncombustible Waste*	11.894	12.400	0.506
S811897	*Combustible-Noncombustible Waste*	3.172	3.410	0.238
S812704	*Combustible-Noncombustible Waste*	3.172	3.410	0.238
S813231	*Combustible-Noncombustible Waste*	11.894	12.400	0.506
S813233	*Combustible-Noncombustible Waste*	3.172	3.670	0.498
S822526	*Combustible-Noncombustible Waste*	3.172	3.410	0.238
S822954	*Combustible-Noncombustible Waste*	3.172	3.410	0.238
S822962	*Combustible-Noncombustible Waste*	3.135	3.100	-0.035
S823000	*Combustible-Noncombustible Waste*	1.133	1.080	-0.053
S851160	*Combustible-Noncombustible Waste*	3.172	3.410	0.238
S851162	*Combustible-Noncombustible Waste*	3.172	3.720	0.548
S851167	*Combustible-Noncombustible Waste*	3.172	3.410	0.238
S851168	*Combustible-Noncombustible Waste*	3.172	3.410	0.238
S851244	*Combustible-Noncombustible Waste*	3.172	3.490	0.318
S851245	*Combustible-Noncombustible Waste*	3.172	3.410	0.238
S851246	*Combustible-Noncombustible Waste*	3.172	3.410	0.238
S852046	*Combustible-Noncombustible Waste*	3.172	3.490	0.318
S852053	*Combustible-Noncombustible Waste*	3.172	3.490	0.318
S860113	*Combustible-Noncombustible Waste*	5.437	5.840	0.403
S860114	*Combustible-Noncombustible Waste*	5.437	5.840	0.403
S862430	*Combustible-Noncombustible Waste*	5.437	5.980	0.543
S865185	*Combustible-Noncombustible Waste*	5.437	5.980	0.543
S865186	*Combustible-Noncombustible Waste*	5.437	5.980	0.543
S865187	*Combustible-Noncombustible Waste*	3.172	3.490	0.318
S865190	*Combustible-Noncombustible Waste*	3.172	3.720	0.548
S865193	*Combustible-Noncombustible Waste*	1.133	1.070	-0.063
S865195	*Combustible-Noncombustible Waste*	1.274	1.760	0.486

Container ID	Treatability Group	Container Volume Reported in FY10 Update (m^3)	Revised Container Volume for FY11 Update (m^3)	Volume Change (m^3)
S870285	*Combustible-Noncombustible Waste*	5.437	5.840	0.403
S870286	*Combustible-Noncombustible Waste*	5.437	5.980	0.543
S872714	*Combustible-Noncombustible Waste*	5.437	5.840	0.403
S872719	*Combustible-Noncombustible Waste*	5.437	5.840	0.403
S874054	*Combustible-Noncombustible Waste*	5.437	5.840	0.403
	Combustible-Noncombustible Waste Total	1169.860	1515.350	345.490
56039	*Metallic Waste*	8.130	8.200	0.070
56040	*Metallic Waste*	2.100	2.110	0.010
56065	*Metallic Waste*	2.970	3.320	0.350
56066	*Metallic Waste*	10.000	19.050	9.050
S910836	*Metallic Waste*	12.234	24.640	12.406
S910847	*Metallic Waste*	1.444	24.640	23.196
S911769	*Metallic Waste*	0.935	7.040	6.105
S911772	*Metallic Waste*	1.359	9.540	8.181
	Metallic Waste Total	39.172	98.540	59.368
56249	*Noncombustible Waste*	6.950	9.460	2.510
56250	*Noncombustible Waste*	5.290	7.290	2.000
57648	*Noncombustible Waste*	4.320	5.850	1.530
57649	*Noncombustible Waste*	7.730	9.620	1.890
57650	*Noncombustible Waste*	9.850	12.680	2.830
57665	*Noncombustible Waste*	12.330	12.520	0.190
59567	*Noncombustible Waste*	11.300	9.480	-1.820
	Noncombustible Waste Total	57.770	66.900	9.130
53204	*Organic and Inorganic Solids*	0.208	0.322	0.114
53714	*Organic and Inorganic Solids*	0.208	0.322	0.114
53747	*Organic and Inorganic Solids*	0.208	0.322	0.114
53765	*Organic and Inorganic Solids*	0.208	0.322	0.114
53792	*Organic and Inorganic Solids*	0.208	0.416	0.208
56743	*Organic and Inorganic Solids*	0.322	0.208	-0.114
	Organic and Inorganic Solids Total	1.362	1.912	0.550
	Grand Total	1277.818	1694.444	416.626

Table G-4: FY11 MTRU Administrative Adjustments – TA-54 Containers Added

Note: With the exception of Container 62456, all cases reflect the addition of a single EPA code to non-mixed TRU containers that had been historically managed as non-mixed TRU waste. These EPA codes were applied based on direct inspection of the containers during routine operations and during preparation for shipping and represent the determination that lead or pressurized containers (aerosol cans) were present.

Container 62456 was historically managed as MTRU waste but had been omitted from previous STP inventories because a missing LANL waste code prevented the container from being identified as STP waste until that database error was corrected in FY11.

Container ID	*Treatability Group*	Container VolumeAdded to STP (m^3)	Accumulation Start Date	Current Location	EPA Codes Currently Assigned
57671	*Combustible-Noncombustible Waste*	0.208	10/29/2007	WIPP	D008
58196	*Combustible-Noncombustible Waste*	0.208	4/27/2000	WIPP	D008
59290	*Combustible-Noncombustible Waste*	0.208	1/5/1999	WIPP	D008
61034	*Combustible-Noncombustible Waste*	0.208	9/25/1997	WIPP	D008
61797	*Combustible-Noncombustible Waste*	0.208	10/22/2003	WIPP	D008
61798	*Combustible-Noncombustible Waste*	0.208	10/22/2003	WIPP	D008
84755	*Combustible-Noncombustible Waste*	0.208	9/17/1980	WIPP	D008
85030	*Combustible-Noncombustible Waste*	0.208	9/3/1993	WIPP	D008
86428	*Combustible-Noncombustible Waste*	0.208	9/23/1984	WCCRF	D003
86544	*Combustible-Noncombustible Waste*	0.322	11/9/1982	WCCRF	D008
86661	*Combustible-Noncombustible Waste*	0.208	5/13/1985	WCCRF/ REPACK	D008
S802610	*Combustible-Noncombustible Waste*	0.208	2/14/1980	WCCRF/ REPACK	D008
S813884	*Combustible-Noncombustible Waste*	0.208	9/28/1981	WCCRF /REPACK	D003
S842562	*Combustible-Noncombustible Waste*	0.208	3/12/1984	WCCRF/ REPACK	D003
S855283	*Combustible-Noncombustible Waste*	0.208	10/9/1985	WCCRF/ REPACK	D003
	Combustible-Noncombustible Waste Total	3.234			
55868	*Combustible Waste*	0.208	4/21/1995	WCCRF/ REPACK	D008
56503	*Combustible Waste*	0.208	8/31/1993	WIPP	D008
56505	*Combustible Waste*	0.208	8/31/1993	WIPP	D008
57189	*Combustible Waste*	0.208	2/3/1999	WIPP	D008
59277	*Combustible Waste*	0.208	12/21/1994	WIPP	D008
S813519	*Combustible Waste*	0.322	2/9/1981	Dome 33	D003
S814872	*Combustible Waste*	0.322	1/5/1981	Dome 229	D008

Container ID	*Treatability Group*	Container VolumeAdded to STP (m^3)	Accumulation Start Date	Current Location	EPA Codes Currently Assigned
S814921	*Combustible Waste*	0.322	1/5/1981	Dome 283	D003
S818344	*Combustible Waste*	0.208	11/30/1981	Dome 283	D008
S823081	*Combustible Waste*	0.208	5/17/1982	WCCRF/ REPACK	D008
S824433	*Combustible Waste*	0.208	9/1/1982	WCCRF/ REPACK	D008
S824441	*Combustible Waste*	0.208	9/1/1982	WCCRF/ REPACK	D008
S824498	*Combustible Waste*	0.322	8/31/1982	Dome 229	D003
S824699	*Combustible Waste*	0.322	12/28/1982	Dome 229	D008
S833020	*Combustible Waste*	0.208	4/12/1983	WIPP	D008
S843527	*Combustible Waste*	0.208	10/31/1984	WCCRF/ REPACK	D003
S844335	*Combustible Waste*	0.208	5/9/1984	WIPP	D008
S845317	*Combustible Waste*	0.208	10/31/1984	WCCRF/ REPACK	D008
S846669	*Combustible Waste*	0.322	12/18/1984	WCCRF/ EPACK	D008
S851708	*Combustible Waste*	0.322	2/10/1985	WCCRF/ REPACK	D008
S851711	*Combustible Waste*	0.322	2/11/1985	WCCRF/ REPACK	D008
S852015	*Combustible Waste*	0.322	8/20/1985	Dome 233	D008
S852019	*Combustible Waste*	0.322	8/20/1985	Dome 229	D008
S861390	*Combustible Waste*	0.208	7/7/1986	D0049 READY TO SHIP	D008
S862515	*Combustible Waste*	0.322	5/12/1986	WCCRF/ REPACK	D008
S902112	*Combustible Waste*	0.322	10/24/1989	Dome 229	D008
	Combustible Waste Total	6.776			
54841	*Metallic Waste*	0.208	10/30/1992	Dome 229	D008
55873	*Metallic Waste*	0.208	5/16/1995	Dome 229	D008
56262	*Metallic Waste*	0.208	10/16/1996	Dome 229	D008
56619	*Metallic Waste*	0.208	7/16/1997	Dome 375	

Container ID	*Treatability Group*	Container VolumeAdded to STP (m^3)	Accumulation Start Date	Current Location	EPA Codes Currently Assigned
62456	*Metallic Waste*	8.97	10/17/2003	Boxes - Pad 10	D004 – D011 D018-D019 D021, D022 D035 D038 - D040 F001 - F003 F005
S810689	*Metallic Waste*	0.208	11/3/1981	Dome 49 - ready to ship	D008
S825713	*Metallic Waste*	0.322	12/28/1982	Dome 229	D008
S842490	*Metallic Waste*	0.208	3/12/1984	TA-50 WCRRF - Repack	D008
S846070	*Metallic Waste*	0.208	12/18/1984	TA-50 WCRRF - Repack	D003
S851430	*Metallic Waste*	0.322	2/11/1985	Dome 232	D008
S864195	*Metallic Waste*	0.208	9/30/1986	Dome 49 Staging - SWB Overpack	D008
S870236	*Metallic Waste*	0.208	4/13/1987	WIPP	D008
	Metallic Waste Total	11.486			
59204	*Noncombustible Waste*	0.208	10/21/2001	WIPP	D008
87066	*Noncombustible Waste*	0.208	12/29/1982	WIPP	D008
S802997	*Noncombustible Waste*	0.322	7/27/1980	Dome 229	D008
S814870	*Noncombustible Waste*	0.208	1/5/1981	TA-50 WCRRF - Repack	D008
S830719	*Noncombustible Waste*	0.208	1/25/1983	Dome 229	D008
S855279	*Noncombustible Waste*	0.208	10/9/1985	TA-50 WCRRF - Repack	D008
S864259	*Noncombustible Waste*	0.208	9/30/1986	Dome 283	D008
	Noncombustible Waste Total	1.57			
55317	*Organic and Inorganic Solids*	0.208	10/18/1994	WIPP	D008
56889	*Organic and Inorganic Solids*	0.208	5/13/1998	TA-50 WCRRF - Repack	D008
57335	*Organic and Inorganic Solids*	0.208	11/11/1998	Dome 232	D008
57381	*Organic and Inorganic Solids*	0.208	6/20/2002	Dome 229	D008
57617	*Organic and Inorganic Solids*	0.208	7/26/2002	Dome 229	D008

Container ID	*Treatability Group*	Container VolumeAdded to STP (m^3)	Accumulation Start Date	Current Location	EPA Codes Currently Assigned
57620	*Organic and Inorganic Solids*	0.208	8/16/2002	Dome 229	D008
57623	*Organic and Inorganic Solids*	0.208	2/28/2003	Dome 229	D008
61804	*Organic and Inorganic Solids*	0.208	10/29/2003	Dome 283	D008
61846	*Organic and Inorganic Solids*	0.208	4/20/2006	Dome 49 - ready to ship	D008
61851	*Organic and Inorganic Solids*	0.208	5/15/2006	Dome 229	D008
62646	*Organic and Inorganic Solids*	0.208	3/30/2004	Dome 49 Staging - SWB Overpack	D008
S824659	*Organic and Inorganic Solids*	0.208	11/3/1982	TA-50 WCRRF - Repack	D008
S832420	*Organic and Inorganic Solids*	0.208	3/1/1983	Dome 48	D008
	Organic and Inorganic Solids Total	2.704			
	Grand Total	25.77			

APPENDIX H. MLLW TREATMENT FACILITIES

Table H-1: Commercial Facilities Contacted for Waste Treatment Capabilities

Commercial Facility	Location
Perma-Fix (including Material & Energy Corporation in Tennessee (TN); Diversified Scientific Services, Inc. in TN; and Perma-Fix North West in Washington)	Florida
Waste Control Specialists	Texas
EnergySolutions of Utah (including Bear Creek Operations in TN)	Utah
Nuclear Fuel Services	Tennessee
Integrated Environmental Services	Tennessee
NSSI	Texas

APPENDIX I. CORRESPONDENCE

Table I-1: Expedited Shipment Letters

Request for Expedited Shipment Letter Date	STP Section	MWIR* Waste ID	Treatability Group	Volume Proposed to be Shipped (m^3)	Reference
5/31/2011	3.1.5	LA-W922	*Noncombustible Debris*	1.3027	ENV-ES-11-109
5/20/2011	3.3.4	LA-W935	*10–100nCi/g Waste*	10.6028	ENV-ES-11-101

*MWIR is Mixed Waste Inventory Report

Table I-2: Correspondence

Letter Date	Description	Letter Number	Revision Reference	Listed in Revision 21.0 (Appendix I)
10/7/2011	Response to September 21, 2011 Notice of Disapproval of the STP FY10 Update and Rev 21.0 Proposal	ENV-ES-11-0222	21.0	Yes
11/2/2010	Notice of Completion of OffSite Waste Shipment Activity and Completion of Milestone 3.1.4 (A and B)	ENV-ES-10-214	21.0	Yes
11/2/2010	Notice of Completion of OffSite Waste Shipment Activity 4.0, FY 10 Q4	ENV-ES-10-213	21.0	Yes
2/1/2011	Notice of Completion of OffSite Waste Shipment Activity 4.0, FY 11 Q1	ENV-ES-11-024	22.0	No
3/10/2011	Correction of Offsite Waste Shipment Notifications, Activity 4.0, FY10 Q1 (ENV-RRO-10-007) and FY10 Q3 (ENV-ES-10-142)	ENV-ES-11-037	21.0	Yes
3/31/2011	Submittal of FY10 STP Annual Update and Revision 22.0 Proposal	ENV-ES-11-0063	21.0	Yes
5/8/2011	Notice of Completion of OffSite Waste Shipment Activity 4.0, FY11 Q2	ENV-ES-11-004	22.0	No
5/20/2011	Notice of Completion of OffSite Waste Shipment Activity 3.3.4	ENV-ES-11-101	22.0	No
5/31/2011	Notice of Completion of Expedited Waste Shipment Activities 3.1.5	ENV-ES-11-109	22.0	No
6/10/2011	Resubmittal of FY10 STP Annual Report (Revision 1) and Proposed Revision 21.0	ENV-ES-11-0134	21.0	Yes
7/25/2011	Notice of Completion of OffSite Waste Shipment Activity 3.3.4	ENV-ES-11-0153	22.0	No
7/28/2011	Notice of Completion of OffSite Waste Shipment Activity 4.0, FY11 Q3	ENV-ES-11-0168	22.0	No

Letter Date	Description	Letter Number	Revision Reference	Listed in Revision 21.0 (Appendix I)
7/28/2011	Correction of Notice of Completion of OffSite Waste Shipment Activity 4.0, FY11 Q2	ENV-ES-11-0169	22.0	No
9/30/2011	Notice of Completion of OffSite Waste Shipment Activity 3.2	ENV-ES-11-0210	22.0	No
10/17/2011	Response to the 9/21/2011 Notice of Disapproval of the FY10 STP Annual Report and Proposed Revision 21.0	ENV-ES-11-0222	21.0	Yes
10/28/2011	Notice of Completion of OffSite Waste Shipment Activity 3.3.4	ENV-ES-11-0234	22.0	No
11/5/2011	Notice of Completion of OffSite Waste Shipment Activity 4.0, FY11 Q3	ENV-ES-11-0257	22.0	No
12/9/2011	Notice of Completion of OffSite Waste Shipment Activity 3.1.8	ENV-ES-11-0285	22.0	No
3/30/2012	Submittal of FY11 STP Annual Report and Proposed Revision 22.0	ENV-ES-12-0059	22.0	No
9/11/2012	Correction of Table 3.2-2, FY11 Annual Report, STP	ENV-ES-12-0217	22.0	No
10/22/2012	Response to the 9/18/2012 Notice of Disapproval of the FY11 STP Annual Report and Proposed Revision 22.0	WM-DO-12-0002	22.0	No

APPENDIX J. HISTORY OF CHANGES TO THE CP AND FFCO

As discussed in Part III (CP), Section 1.2, the STP CP has been modified several times since it was originally issued, in accordance with the provisions of Section X, "*Revisions,"* and Section XI, "*Other Amendments to the STP,"* of the October 4, 1995, FFCO, as amended and revised. This Appendix provides a summary of these CP changes and of modifications to the FFCO since its issuance.

To date, there have been 20 revisions and three amendments to the CP. In addition, the FFCO was amended once on May 20, 1997. The following Table J-1 provides a summary of these changes. More detailed descriptions can be found in the CP Update portion of each year's STP *Annual Update* and the original correspondence requesting each change.

Table J-1: Summary of Changes to the CP and the FFCO

Action	Document Modified	Effective Date	Effect on FFCO/STP
Rev. 1.0	STP/CP	6/12/96	Added offsite treatment as a parallel preferred option for most MLLW treatability groups.
Rev. 2.0	STP/CP	12/9/96	Reduced volume of LA-W928 by approving reclassification of sludges as LLW.
Amendment 1.0	STP/CP	10/30/96	Divided original volume of LA-W929 into three subgroups, and added new Activities and Compliance Dates.
Rev. 3.0	STP/CP	1/27/97	Divided original volume of LA-W929 into three subgroups, and added new Activities and Compliance Dates.
Amendment 1.0	FFCO	5/20/97	Modified FFCO Sections IV, V, IX, and X to streamline waste transfers and deletions.
Amendment 2.0	STP/CP	9/4/97	Extended CP Activity 3.1.2B Compliance Date to 12/29/97.
Rev. 4.0	STP/CP	12/29/97	Transferred original volume of LA-W929 from three subgroups to other treatability groups, added treatability groups, and deleted treated items.
Rev. 5.0	STP/CP	12/29/97	Added volumes reported in FY95 and FY96 *Annual Updates* (and certain other items) to several treatability groups, added Activities and Compliance Dates, added CP Appendices, and deleted treated items.
Rev. 6.0	STP/CP	7/31/98	Added volumes reported in FY97 *Annual Update* to several treatability groups, added certain Activities and Compliance Dates, adjusted several original inventory volumes, transferred one LA-W929 item to a new treatability group, and deleted treated items.
Rev. 7.0	STP/CP	11/30/98	Removed onsite treatment skids, added STP inventory items, added onsite recycling/re-use and radiological decontamination, added notification for offsite treatability studies.
Rev. 8.0	STP/CP	12/3/98	Extended compliance dates for treatment of MTRU waste.
Rev. 9.0	STP/CP	6/7/00	Added and deleted volumes reported in FY98 *Annual Update* to certain treatability groups.

Action	Document Modified	Effective Date	Effect on FFCO/STP
Amendment 3.0	STP/CP	8/30/99	Transferred three items to MTRU, transferred one item to subgroup within same treatability group.
Rev. 10.0	STP/CP	12/18/00	Added and deleted volumes reported in FY99 *Annual Update* to certain treatability groups.
Rev. 11.0	STP/CP	4/18/01	Added and deleted volumes reported in FY00 *Annual Update.*
Rev. 12.0	STP/CP	3/13/02	Added and deleted volumes reported in FY01 *Annual Update.* Extended CP Activity 3.1.5A Compliance Date to 8/25/03. Extended CP Activity 3.1.11A to 2/01/04. Removed the requirement to develop treatment technologies and the associated compliance schedule in CP Activity 4.0 and added language specifying that MTRU waste would be shipped offsite to WIPP for disposal.
Rev 13.0	STP/CP	7/14/03	Added and deleted volumes reported in FY02 *Annual Update.*
Rev 14.0	STP/CP	1/5/05	Added and deleted volumes reported in FY03 *Annual Update.*
Rev 15.0	STP/CP	8/16/05	Added and deleted volumes reported in FY04 *Annual Update.*
Rev 16.0	STP/CP	12/12/06	Added and deleted volumes reported in FY05 *Annual Update.* Extended CP Activity 3.1.8(A) Compliance Date to 8/09/07. Extended CP Activity 3.1.9(A) Compliance Date to 8/09/07. Extended CP Activity 3.1.10(A) Compliance Date to 8/31/07. Extended CP Activity 3.1.11(A) Compliance Date to 12/31/07. Extended CP Activity 3.2(J) Compliance Date to 12/31/07. Reclassified 0.2082 m^3 of LA-W934 High Activity MLLW waste to MTRU waste.
Rev 17.0	STP/CP	6/26/08	Added and deleted volumes reported in FY06 *Annual Update.* Extended CP Activity 3.1.5(A) Compliance Date to 12/31/08. Extended CPV Activity 3.1.8(A) Compliance Date to 8/28/08. Extended CP Activity 3.1.9(A) Compliance Date to 8/28/08. Extended CP Activity 3.2(J) Compliance Date to 12/31/08.
Rev 18.0	STP/CP	1/9/09	Added and deleted volumes reported in FY07 *Annual Update.* Extended CP Activity 3.1.8(A) Compliance Date to 8/28/09. Extended CP Activity 3.1.9(A) Compliance Date to 8/28/09. Proposed a new Section 3.3.4 for Treatability Group, LA-W935 "*10–100 nCi/g Waste*" with new CP Activity 3.3.4 (A) Compliance Date 12/01/13 and CP Activity 3.3.4 (B) Compliance Date 12/31/13. Extended CP Activity 3.2(J) Compliance Date to 12/31/10.
Rev 19.0	STP/CP	2/5/10	Added and deleted volumes reported in FY08 Annual Update. Extended compliance date for CP Activities 3.1.8(A) and 3.1.9(A) to 8/28/12. Proposed a new milestone of 12/31/2010 for 3.1.4(A) and a new milestone 3.3.4(C) for *10–100 nCi/g Waste.*

Action	Document Modified	Effective Date	Effect on FFCO/STP
Rev 20.0	STP/CP	11/8/10	Added and deleted volumes reported in FY09 Annual Update. Proposed an extended compliance date for CP Activity 3.2(J).
Rev 21.0	STP/CP	3/21/12	Added and deleted volumes reported in FY10 Annual Update. Proposed new compliance date for CP Activity 3.1.8(A).
Rev 22.0	STP/CP	TBD	Added and deleted volumes reported in FY11 Annual Update.

REFERENCES

1. *Federal Facility Compliance Order (Los Alamos National Laboratory)*, New Mexico Environment Department (October 4, 1995).
2. Congress, 1996. Text of Public Law 104-201, Congressional Record dated September 23, 1996, Amendment to Public Law 102-579, 1992 *Waste Isolation Pilot Plant Land Withdrawal Act (106 Stat. 4777).*
3. 40 CFR Part 194, Criteria for the Certification of the Waste Isolation Pilot Plant's Compliance with the 40 CFR Part 191 Disposal Regulations: Certification Decision; Proposed Rule (Federal Register V.62, No. 210, Oct. 30, 1997, pp. 58792–58838).

Mr. Timothy Hall, STP Manager
WM-DO-12-0002

Enclosure 2

Title Compact Disk
Document # WM-DO-12-0002
LA-UR # 12-25193
Barcode # N/A
Date: OCT 17 2012

Los Alamos National Laboratory

Federal Facility Compliance Order

Annual Site Treatment Plan Update
for Fiscal Year ~~2010~~ 2011 – Revision 2

LA-UR-~~11~~12-~~25193~~01874

~~October~~ ~~October 72~~201October 10, ~~2011~~2012

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ACRONYMS

AK	Acceptable Knowledge
CCA	Compliance Certification Application
CCP	Central Characterization Project
40 CFR	Title 40 of the Code of Federal Regulations
CMR	Chemistry and Metallurgy Research
CP	Compliance Plan
DOE	U.S. Department of Energy
DSSI	Diversified Scientific Services, Inc.
EPA	U.S. Environmental Protection Agency
ER	Environmental Restoration
FFCA	Federal Facility Compliance Act
FFCO	Federal Facility Compliance Order
FR	Federal Register
FY	Fiscal Year
HWA	Hazardous Waste Act
INL	Idaho National Laboratory
LANL	Los Alamos National Laboratory
LANS	Los Alamos National Security, LLC
LDR	Land Disposal Restrictions (RCRA)
LLNL	Lawrence Livermore National Laboratory
LWAA	Land Withdrawal Act Amendments
M&EC	Materials and Energy Corporation
MLLW	Mixed Low-Level Waste
MTRU	Mixed Transuranic (Waste)
MWIR	Mixed Waste Inventory Report
NMED	New Mexico Environment Department
ORR	Oak Ridge Reservation
PCB	Polychlorinated Biphenyl
RCRA	Resource Conservation and Recovery Act
STP	Site Treatment Plan
TA	Technical Area
TBD	To be determined
TBV	To be verified
TRU	Transuranic
UC	University of California
WIPP	Waste Isolation Pilot Plant

INTRODUCTION

On October 6, 1992, Congress passed the Federal Facility Compliance Act (FFCA) to address compliance by the U.S. Department of Energy (DOE) with the Land Disposal Restrictions (LDR) for the storage of mixed waste set forth in Section 3004(j) of the Resource Conservation and Recovery Act (RCRA). The FFCA requires DOE to submit a Site Treatment Plan (STP) for developing treatment capacities and technologies to treat all of the facility's mixed waste, regardless of the time generated, to the standards promulgated pursuant to Section 3004(m) of RCRA. The FFCA provides that the appropriate regulatory authority, the New Mexico Environment Department (NMED), may approve, approve with modifications, or disapprove the STP. Prior to making such a determination, the FFCA requires NMED to provide public notice, consider public comments, and consult with the U.S. Environmental Protection Agency (EPA) and any other state in which a facility affected by the STP is located.

On October 4, 1995, the NMED issued a Federal Facility Compliance Order (FFCO) to DOE and its then management and operating contractor, the University of California (UC) Regents. On June 1, 2006, Los Alamos National Security, LLC (LANS) replaced UC as operating contractor of Los Alamos National Laboratory (LANL) at which time LANS assumed responsibility for compliance with the FFCO.

The FFCO required LANL to implement an STP for the treatment of mixed waste at LANL. ~~-~~The STP is intended to fulfill the requirements of the FFCA and establish an enforceable framework to allow DOE and LANS (Respondents) to achieve full compliance with LDR requirements under the New Mexico Hazardous Waste Act (HWA) and RCRA. The compliance dates set forth in the STP are enforceable time periods in which Respondents are required to treat or otherwise meet the requirements set forth for LDR under the HWA and RCRA.

On March 31, 1995, DOE submitted its proposed STP, which addressed treatment capacities and technologies to treat all of LANL's mixed waste, regardless of the time it was generated, to NMED. On April 17, 1995, the public was provided an opportunity to comment to NMED on DOE's draft STP. After considering public comment and otherwise complying with the FFCA, NMED approved the draft STP with modifications.

Section VII of the FFCO requires LANL to submit an Annual STP Update to the NMED each year on or before March 31. The FFCO requires that the Annual Update bring the information in both the Background and the Compliance Plan (CP) current to the end of the previous federal fiscal year (FY). Part I of this Annual Update constitutes the update to the Background. ~~-~~Part II contains the changes that have occurred since the last Annual Update and also identifies proposed revisions and amendments to the CP. Part III incorporates the changes in Part II into the proposed CP revision (Revision ~~21~~22.0).

PART I. BACKGROUND UPDATE

1.0 INTRODUCTION

The Background (Part I) provides the following information:

- The estimated volume of covered waste in storage at the end of the previous FY and anticipated to be placed in storage for the next five FYs;
- A progress report from the end of the previous federal FY describing treatment progress and treatment technology development for each treatment facility and activity scheduled in the STP;
- A description, if applicable, of current or anticipated alternative treatment technology that is being evaluated for use instead of treatment technologies or capacities identified in the STP;
- A description of DOE's funding for STP-related activities and any funding issues that may affect the schedule;
- The status of the "No-Migration Variance Petition" or any treatability variances; and
- A progress report on characterization and/or treatment capabilities or plans for mixed transuranic (MTRU) waste related to the waste treatment standards, if any, for the DOE Waste Isolation Pilot Plant (WIPP) facility near Carlsbad, New Mexico.

The STP-covered waste inventory is verified during quality control activities. ~~-~~Inconsistencies in treatability group or volume between the original inventory and the current inventory may exist. ~~-~~These inconsistencies are reconciled annually with the STP update.

2.0 AMOUNT OF EACH COVERED WASTE STORED AT LANL

2.1 Mixed Low-Level Waste (MLLW) Inventory

During ~~FY10~~FY11, STP-covered MLLW inventories increased from approximately ~~46~~ 161 m^3 to ~~161~~ 176 m^3. The increase was due to reclassifying more MTRU waste to MLLW (LA-W935) than could be shipped offsite for treatment. Because higher risk wastes were given shipment priority, less *10–100 nCi/g W~~w~~aste* was shipped in FY10 and FY11 than in previous years. Although LANL shipped a portion of the newly reclassified *10-100 nCi/g Waste* in ~~FY10~~FY11, ~~most~~ some of the ~~FY10~~ FY11 reclassified waste was readied for shipment and placed in storage. LANL intends to resume shipments of *10–100nCi/g Waste* when some of the higher risk waste shipments are completed in order to meet the established STP milestone (12/31/2013) for the current *10–100 nCi/g Waste*. Table 2.1-1 summarizes changes to the estimated STP-covered MLLW inventory for ~~FY10~~FY11. ~~No~~ Approximately one cubic meter of newly generated waste from FY10 and 11 m^3 of reclassified TRU waste became covered during ~~FY10~~ FY11. The 11 m^3 of TRU waste reclassified in FY11 were derived from three containers of non-mixed TRU waste generated between FY96 and FY02. The waste was reclassified because it no longer satisfied DOE criteria for TRU waste (activity more than 100 nCi/g). When legacy waste is reclassified but offsite shipment may be delayed, LANL manages the reclassified waste as MLLW as a conservative measure and reports the shipment as newly added STP waste. The three containers were shipped on April 14, 2011 (letter to NMED dated May 20, 2011, ENV-ES-11-101) and constitute part of the approximately 69

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m^3 of shipped *10-100 nCi/g Waste* that is shown in Tables A-1 and B-1. ~~and~~ Approximately ~~75.7787~~73 m^3 of covered MLLW was treated, recycled, disposed of, or otherwise deleted during ~~FY10~~FY11.

Appendix A provides the detailed changes to the ~~FY10~~ FY11 covered MLLW inventory by treatability group, including the inventory at Technical Area (TA)-~~-~~55 and the Chemistry and Metallurgy Research Building (CMR).[1] ~~-~~ Appendix B (Table B-1) lists the MLLW shipments in ~~FY10~~FY11. Table B-2 identifies other deleted waste. ~~-~~If any, administrative adjustments to the MLLW inventory are shown in Appendix C (Table C-1). Detailed information about the administrative adjustments in Table C-1 are shown in Table C-2. The MLLW inventory reported in the ~~FY09~~ FY10 Annual Update is included as Appendix D.

Table 2.1-1: ~~FY10~~ FY11 MLLW Inventory Summary

Contribution	Volume (m^3)[1]
Estimated MLLW Inventory Reported in ~~FY09~~ FY10 Annual Update	~~45.9222~~161.4693
Proposed Revision ~~21~~22.0	
New Covered Waste	~~0~~11.9055
Administrative A~~a~~djustments[2]	75.5185~~191.3258~~
Offsite Treatment	-73.0323~~-75.7787~~
Offsite Recycle	NA[3]
Onsite Decontamination	NA
Treatability Study Use	NA
Estimated MLLW Inventory Reported in ~~FY10~~ FY11 Annual Update	~~161.4693~~175.8610

[1] MLLW volumes are calculated using the conversion: 55-gallon container = 0.2082 m^3; 85-gallon container = 0.3218
[2] Includes transfers of MTRU and other wastes into MLLW categories
[3] NA = No Activity

2.2 Mixed Transuranic (MTRU) Inventory Summary

During ~~FY10~~ FY11, STP-covered MTRU inventories ~~decreased~~ increased from approximately ~~3216~~2847~~2~~ m^3 to ~~2847~~ 3119 m^3. In FY11, quality control activities included verifying the volumes of many older, large waste containers and correcting the volumes shown in the MTRU database. This resulted in a large increase in the volume of MTRU waste in inventory. Despite decreases due to shipping, which reduced the number of MTRU containers onsite by more than 900, the waste volume increased above FY10 levels.

Table 2.2-1 summarizes changes to the estimated MTRU covered waste inventory for ~~FY10~~FY11. The total volume of MTRU waste in Table 2.2-1 includes the CMR and TA-55 MTRU volumes, which are maintained in a separate inventory from the MTRU inventory at TA-54. Appendix E contains additional detail for the MTRU inventory; Table E-1 covers the TA-54 inventory, and Table E-2 covers the

[1] No MLLW was stored at CMR or TA-55 in FY11.
~~2 The FY09 Annual Report stated the end-of-year inventory as 3,217 m^3; it should have been 3,216 m^3.~~

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inventory at CMR and TA-55. Appendix F (Table F-1) provides the history of MTRU shipments to WIPP. In Appendix G, ~~-~~Tables G-1 and G-2~~, respectively, in Appendix G~~ describe the administrative adjustments that were made to resolve differences in the TA-54 and the CMR/TA-55 MTRU inventory data~~, respectively.~~ ~~-~~Table G-~~3~~2 provides detail on volume changes in the TA-54 inventory, and Table G-4 gives the detail for containers that became STP waste due to the addition of EPA codes to the waste.

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Administrative adjustments typically represent the following types of activities:

- LANL may correct database entries so that waste items that previously were not listed as STP waste are now identified as STP waste.
- LANL may correct waste data, such as volume or EPA codes, through quality control activities.
- MTRU waste that was formerly classified as transuranic (TRU) because it had radioactivity greater than 10 nCi/g has been reclassified to MLLW (LA-W935) if its activity is less than 100 nCi/g under DOE standards.
- New analytical data may also require that waste streams previously managed as TRU waste should, as a prudent measure, be reclassified and managed as MTRU waste.
- During repacking or other quality control activities, TRU waste may be recharacterized as MTRU waste when previously unidentified hazardous contents, such as lead, are determined to be present.
- During repacking, treatability groups are frequently reassigned to be consistent with current management and shipping criteria.
- Containers of waste are occasionally determined not to belong to mixed waste streams and are reclassified as TRU waste; removal of WIPP-prohibited items, if they are the only hazardous constituent, will result in the remaining waste being classified as nonmixed.
- Addition or removal of 85-gallon overpacks changes the volume of waste in the inventory; rounding container volumes to three decimal places also changes the inventory volume.

Appendix G includes changes to the MTRU waste inventory that resulted from repacking activities. MTRU waste volumes in the STP inventory reflect the volume of the container rather than the volume of the contents. When containers are repacked, the STP inventory volume of any given treatability group may either increase or decrease. When a container is repacked, the contents are sometimes split into two or more new containers to meet shipping and waste acceptance criteria or to meet characterization criteria (e.g., nondestructive analysis calibration limits). In addition, the new containers may be assigned to different treatability groups depending on the contents of each drum. Therefore, the volume of a single drum may 'multiply' into more volume than the original container. For example, repacking one container of *Cemented Sludge* (0.2080 m^3) may result in one drum of *Combined Combustible-Noncombustible Waste* (0.2080 m^3) and one drum of *Noncombustible Waste* (0.2080 m^3). In addition, changes in the waste volume in the STP inventory occur when an 85-gallon 'overpack' is removed from, or added to, a 55-gallon drum during repackaging. Removal of overpacks decreases the volume of waste in the STP

inventory. Adding an overpack to a 55-gallon drum increases the volume of waste shown in the STP inventory.

Table 2.2-1: Covered MTRU Inventory Summary

Description	Volume (m^3)
Covered MTRU Inventory Reported in ~~FY09~~ FY10 (~~43.629~~40.607 m^3 at CMR/TA-55 and 2806.516~~3172.827~~[1] m^3 at TA-54)	~~3216.456~~2847.123
New Covered MTRU Waste at TA-54	~~21.150~~17.873
New Covered MTRU Waste at TA-55/CMR	~~1.793~~2.912
Covered MTRU Waste Shipped to WIPP in FY11	~~-319.312~~-203.396
Net Administrative Adjustments for TA-54 in ~~FY10~~FY11	~~453.251~~-68.149
Net Administrative Adjustments for CMR/TA-55 in ~~FY10~~FY11	~~-4.815~~1.194
Covered MTRU Inventory at End of ~~FY10~~FY11	**3118.957~~2847.123~~**

~~[1] The FY09 Annual Report rounded the FY09 end-of-year TA-54 inventory to 3172.826 m^3; it should have been 3172.827 m^3~~

~~[2] Includes any new covered waste transferred from TA-55 and CMR to TA-54 in FY10~~
~~[3] Any new covered waste transferred to TA-54 from TA-55 and CMR is not included~~

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3.0 TREATMENT PROGRESS

3.1 Offsite Treatment

During ~~FY10~~FY11, covered MLLW streams were shipped for treatment to the following offsite commercial treatment facilities: Perma-Fix in Gainesville, Florida~~,~~; Perma-Fix/Material and Energy Corporation (M&EC) in Oak Ridge, Tennessee~~,~~; and Perma-Fix Northwest in the State of Washington.

Perma-Fix/Florida

Perma-Fix in Gainesville, Florida, is a RCRA-permitted facility with a Radioactive Materials License for processing scintillation cocktail vials and other mixed waste fluids for blending and shipment to an energy recovery facility. Perma-Fix services include the decommissioning of labpacks, thermal treatment of organics, stabilization and solidification of inorganics, and distillation of halogenated organics. ~~-~~The facility also performs chemical treatments such as solvent extraction, demulsification/precipitation/ flocculation, chelation, oxidation-reduction, ion exchange, absorption/adsorption, amalgamation, and chemical decontamination.

Perma-Fix/Material and Energy Corporation (M&EC)

M&EC, located in the East Tennessee Technology Park in Oak Ridge, Tennessee, is a permitted treatment facility for low-level radioactive and mixed waste. The facility installed six treatment processes and has the capability ~~of~~ for treating organic and inorganic mixed waste to meet the LDR criteria. ~~-~~These processes include stabilization/solidification, chemical extraction, chemical fixation, metals precipitation, neutralization, and debris treatment. M&EC became operational in September 2001.

Perma-Fix Northwest

Perma-Fix Northwest, located in Richland, Washington, is a permitted treatment facility for the treatment

of low-level radioactive and low-level mixed waste. The site houses both a low-level radioactive waste treatment facility and a low-level mixed waste treatment facility, which are licensed under Nuclear Regulatory Commission regulations (State of Washington licenses WN-I00393-1 and~~&~~ WN-I00508-1) and permitted under RCRA regulations through the State of Washington. The facility can perform thermal treatment, compaction, macroencapsulation, neutralization, and stabilization.

Appendix B summarizes LANL's offsite shipments for treatment and/or disposal of covered MLLW in FY11~~0~~. ~~-~~Approximately ~~76~~ 73 m^3 of STP-covered MLLW was shipped offsite for treatment and/or disposal.

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3.2 Offsite Recycling

LANL did not recycle any STP-covered MLLW offsite in ~~FY10~~FY11.

3.3 Onsite Treatment and Recycling

LANL did not treat or recycle any STP-covered MLLW onsite in ~~FY10~~FY11.

3.4 Onsite Lead Decontamination

No LANL STP-covered MLLW was decontaminated onsite during ~~FY10~~FY11.

3.5 Treatability Studies

LANL conducted no treatability studies in ~~FY10~~FY11.

3.6 Administrative Adjustments and Corrections

Administrative adjustments and corrections are due to discrepancies found during quality control activities related to preparing waste for treatment, inventory, and disposal or when preparing the STP Annual Update. ~~-~~A data quality review is conducted annually to compare shipment notifications and shipping manifests with database updates.

3.6.1 Adjustments to MLLW Inventory

Appendix C (Table C-1) details the administrative adjustments to the MLLW inventory. ~~-~~The principal adjustment reflects the transfer of MTRU waste to MLLW (LA-W935, *10–100 nCi/g*). ~~-~~A substantial volume of LANL's STP-covered MTRU waste has been determined to no longer meet the criteria for TRU waste and has thus been reclassified as MLLW (Appendices~~x~~ C, and G). ~~The other major adjustment was the addition of containers of accumulated WIPP-prohibited items removed from the MTRU STP inventory during repacking. These items were added to LA-W917 (*Compressed Gases Requiring Scrubbing*).~~ Other adjustments included removal of waste that had been shipped in previous fiscal years, recharacterization of some MLLW as MTRU waste, and removal of waste that was inadvertently included in the FY10 inventory.

3.6.2 Adjustments to MTRU Inventory

During the preparation of the ~~FY10~~ FY11 STP Annual Update, LANL identified a number of adjustments to the MTRU inventory volume (Appendix G, Tables G-1 and G-2), including additions of newly identified STP-covered waste, recharacterization of waste, and reclassification of MTRU waste to

MLLW. ~~-~~Other adjustments were needed to account for volume changes due to repacking of waste and transfers of waste from one treatability group to another or to correct database entries.

4.0 TREATMENT TECHNOLOGY DEVELOPMENT

During FY1~~0~~1, the availability of commercial and federal facility offsite treatment and disposal capacity for MLLW remained stable. As a result of DOE's increasing reliance on commercial treatment/disposal for mixed wastes, nearly all funding for onsite technology development has been prioritized to support offsite treatment and disposal of mixed wastes. DOE treatment technology development initiatives are generally limited to specific technologies or technology adaptations in response to specific needs that cannot be addressed through commercial facilities.

4.1 Treatment Technologies Being Evaluated

LANL continues to monitor the development of other potential treatment technologies that may become available in the future. Some of these technologies are being developed at LANL and at other DOE sites. Numerous other commercially developed treatment processes exist which have not been demonstrated on mixed wastes.

4.1.1 Offsite Commercial Treatment Facilities

LANL continues to monitor the availability and capabilities of offsite commercial facilities for treatment technologies and permitting that are appropriate to LANL waste. These facilities are listed in Appendix H (Table H-1).

4.1.2 Offsite DOE Treatment Facilities

In the past, LANL staff considered Lawrence Livermore National Laboratory (LLNL) for treatability studies for MLLW gas cylinders. ~~-~~LANL has successfully shipped these wastes offsite for treatment, storage, and disposal. LLNL does not have treatment capabilities for treatment, storage, or disposal appropriate to any of LANL's remaining MLLW.

5.0 DOE FUNDING FOR STP-RELATED ACTIVITIES

Funding to implement the LANL STP for mixed waste during ~~FY10~~ FY11 was sufficient to meet all compliance dates as required by the STP issued on October 4, 1995. As stated in previous updates to the STP, funding is no longer available for development of mobile treatment units at LANL, but funding was provided in all years between FY98 and FY05 and between FY07 and FY~~09~~11 for shipment of mixed waste offsite for treatment and disposal at DOE and commercial facilities. Funding during ~~FY11~~ FY12 is also sufficient to meet all compliance dates established in the STP. Should funding reductions occur that would affect STP compliance dates, the DOE and LANS will so notify the NMED to address compliance schedules and activities.

The DOE Assistant Secretary for Environmental Management initiated a long-range plan for ~~its~~ DOE's cleanup and waste management activities, with a goal of accelerating cleanup progress as much as possible before 2006. The plan, *Accelerating Cleanup: Paths to Closure,* includes sections for the LANL site that address MLLW and TRU wastes that are currently in storage (legacy waste). Funding targets for waste management in the draft *LANL Accelerating Cleanup: Paths to Closure* plan should allow LANS s~~S~~taff at LANL to continue to meet all compliance dates in the STP; the plan assumes that MTRU waste

is not required to be treated to meet LDR before shipment to WIPP for disposal, as provided for in the WIPP Land Withdrawal Act Amendments of 1996 (LWAA).

Beginning in FY99, all newly generated MLLW with a disposal path was planned to be treated and disposed of within one year if a treatment/disposal capability and capacity was available for the waste. MLLW placed into storage before FY99 ~~is planned to be~~was treated and disposed of before the end of FY~~13~~09 ~~if treatment/disposal capability and capacity are available~~.

6.0 TREATMENT VARIANCES

RCRA allows certain case-by-case variances from LDR standards. ~~-~~Variances that may be sought under RCRA relate to requests for substitution of an alternative treatment technology in place of the LDR-required treatment technology. This section discusses any potential treatment variances related to LANL's covered waste, as described below.

6.1 WIPP No-Migration Variance Petition/Land Withdrawal Act Amendments

WIPP, ~~is a DOE facility~~ located near Carlsbad, New Mexico, is a DOE ~~as a~~ repository for the TRU waste that was generated by the nation's defense-related activities. Some of the TRU waste contains hazardous waste constituents regulated under the RCRA.

The WIPP repository is considered to be a deep geologic repository rather than a shallow landfill.~~-~~ It is wholly sited 2,100 ft below the land surface in a salt bed. ~~-~~Because salt has the advantageous characteristic of slow plastic deformation, it is predicted that the salt will entomb the waste and seal it from the human environment, making potential release of hazardous constituents a low-probability event.

The LWAA (PL 104-201, Section 3188) exempts waste designated by the Secretary of Energy for disposal at WIPP from RCRA's LDRs. Following passage of the LWAA, the EPA terminated its review of the No-Migration Variance Petition, submitted by DOE to EPA in May 1995. EPA formalized its withdrawal by letter to George Dials, DOE/Carlsbad Area Office manager, dated December 29, 1997.

On October 29, 1996, DOE submitted its Compliance Certification Application (CCA) to EPA. The CCA is intended to demonstrate to EPA that WIPP meets the requirements of Title 40 of the Code of Federal Regulations (40 CFR) Part 191 and 40 CFR Part 194. On October 23, 1997, EPA announced its proposed decision to issue a certification of compliance, subject to a number of specified conditions and to a public comment period of 120 days. On May 18, 1998, EPA published in the Federal Register (63 FR 27354) its final rule certifying that WIPP will comply with the requirements of Subparts B and C of 40 CFR Part 191 and amending the WIPP compliance criteria in 40 CFR Part 194. The final rule became effective June 17, 1998. On March 25, 1999, WIPP received its first shipment of non-mixed (radioactive only) TRU waste from Los Alamos. Other facilities have also shipped non-mixed TRU waste to WIPP. The NMED issued a hazardous waste permit for WIPP on October 27, 1999, authorizing the DOE to manage, store, and dispose of contact-handled MTRU waste at the facility.

6.2 Other Treatment Variance(s)

No treatment variances were requested or granted in ~~FY10~~FY11.

7.0 WIPP FACILITY CAPABILITIES

As discussed above, the DOE is disposing of its defense TRU waste, both mixed and nonhazardous, in its deep geologic repository at the WIPP near Carlsbad, New Mexico. This facility is a receiving and disposal facility, without the capability of routinely opening and repackaging waste. TRU waste will already be containerized when received at the WIPP facility. The WIPP facility is not a generator of TRU waste, and, therefore, will receive all of the waste in shipments from offsite.

7.1 Characterization Capabilities at WIPP

Wastes proposed for shipment to WIPP are characterized and certified at LANL by the Central Characterization Project (CCP), a contractor to DOE's Carlsbad Field Office.

7.2 MTRU Treatment Capabilities and Plans

WIPP is not required to treat MTRU waste to meet the LDR standards. As described above, the LWAA exempted wastes designated by the Secretary of Energy for disposal at the WIPP from this requirement.

PART II. COMPLIANCE PLAN UPDATE

1.0 INTRODUCTION

This update to the CP contains

- Changes to the CP occurring since the previous Annual Update, including
  - milestones completed in ~~FY10~~FY11;
  - correspondence, including notices of shipments; and
  - new covered and deleted waste;
- Proposed revisions and amendments, including
  - compliance date changes;
  - description of waste deleted in accordance with the requirements in FFCO Section IX, *Deletion of Waste*;
  - documentation of new covered waste in accordance with the requirements in Section VIII, *Addition of New Covered Waste*; and
  - proposed changes to the overall schedule in the CP.

2.0 CHANGES AND REVISIONS TO THE CP OCCURRING SINCE THE PREVIOUS ANNUAL UPDATE

This section describes revisions, amendments, or other changes to the LANL CP.

2.1 Activities Completed During ~~FY10~~FY11

During ~~FY10~~FY11, ~~DOE and LANS completed~~no CP Activity~~ies~~ milestones were scheduled~~. on or before their required Compliance Dates as described in Table 2.1-1~~.

Table 2.1-1. FY10 FFCO and STP Milestones

Table omitted

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~~STP or FFCO~~	~~STP/FFCO Reference~~	~~Title/Text~~	~~Treatability Group~~	~~Compliance Date~~	~~Reference~~
~~STP~~	~~3.1.4(A)~~	~~Complete shipping of existing waste to an offsite treatment facility or complete parallel option~~	~~LA-W919~~	~~12/31/2010~~	~~ENV-ES-10-214~~

2.2 Expedited Shipment Letters

~~LANL did not request any expedited shipments during FY10.~~ Expedited s~~S~~hipment letters are listed in ~~(~~Appendix I, Table I-1~~)~~.

2.3 Correspondence

Between October 1, ~~2009~~2010, and March 31, ~~2011~~2012, LANL communicated with NMED on issues related to

- Revision~~s 19~~ 21.0~~and 20~~ of the Annual STP Update, and
- ~~FY10~~ FY10 and FY11 waste shipments.

This correspondence is listed in Appendix I (Table I-2). Correspondence previously listed in Appendix I, Table I-2 of Revision ~~20~~ 21.0 of the STP is so noted in the appendix.

3.0 DESCRIPTION OF DELETED WASTE

A proposal for deletion of STP waste items is included with this update as Proposed Revision ~~21~~22.0 in accordance with FFCO Section IX, *Deletion of Waste*. These deletions are proposed because the waste was shipped offsite for treatment, disposal, or recycling or were otherwise determined not to be mixed wastes. These covered wastes are included in Appendix B, Appendix F, and Appendix G.

4.0 DOCUMENTATION OF NEW COVERED WASTE

A proposal for addition of STP waste items is included with this update in accordance with FFCO Section VIII, *Addition of Waste*. These additions consist of wastes that were placed in storage during FY10~~09~~ and were proposed to become covered wastes in ~~FY10~~FY11. These covered wastes are included in Appendix E. Additional waste to be added to the STP is identified in Section 6.1.

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5.0 PROPOSED CHANGES TO THE COMPLIANCE PLAN SCHEDULE

No changes to the compliance plan schedule are proposed. ~~LANL is proposing a new milestone for LA-W917, Activity 3.1.8(A) to "*complete shipping of wastes to an offsite treatment facility or complete parallel option.*" Waste will continue to be assigned to this category (LA-W917) while MTRU STP waste is being prepared for shipment to WIPP. Therefore, LANL proposes a milestone date for Activity 3.1.8(A) of June 30, 2014.~~

~~**I. Compliance Dates and Waste Description**~~

~~**LA-W917**: These wastes consist of items such as aerosol cans and pressurized cylinders that were removed from STP MTRU drums because such items are prohibited from disposal at WIPP. Once removed from original waste, these items are accumulated in either MLLW or MTRU containers depending on the level of radioactivity. The new waste containers retain the EPA codes of the original waste and are assigned a start date based on the earliest start date of the original waste containers.~~

- ~~Current approved compliance date: none~~
- ~~Proposed Revision 21 compliance date: June 30, 2014~~

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~~**II. Treatment Process**~~

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~~**LA-W917**: The preferred treatment process is shipment offsite for treatment to meet LDRs. These wastes may be treated by various RCRA treatment methods according to the standards in 40 CFR 268.40 at an offsite commercial facility. Aerosol cans, for example, would be treated by segregating the liquid and puncturing the cans. Liquids drained from the cans would most likely be blended and then incinerated. Corrosive liquids would be neutralized and solidified; other organic liquids may be incinerated.~~

~~**III. Availability of Commercial Facilities**~~

~~LANL uses the facilities identified in Appendix H for treatment and disposal of MLLW. No additional facilities are needed to treat the current inventory of *Compressed Gases* (LA-W917).~~

~~**IV. Justification for Milestone**~~

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~~Additional LA-W917 waste items may be identified in MLLW and MTRU containers during repacking and remediation operations until the closure of TA-54 Area G, which is scheduled for December 31, 2015. Therefore, LANL requests that the compliance date be established to coincide with the scheduled closure. No delays in performance are anticipated and no compliance dates are affected by the proposed revision.~~

~~There are no other proposed changes to the schedule in the CP of the STP.~~

6.0 DETAILED DESCRIPTION OF THE PROPOSED REVISION

The purpose of this revision request is to reflect changes in the STP inventories in the LANL CP of the STP in accordance with FFCO Section X.C.2.a. The changes proposed by this revision to the CP will allow the added covered wastes to be treated or otherwise managed in accordance with the Activities and Compliance Dates pertaining to each treatability group, as adopted or revised herein. ~~-~~The CP text changes are indicated in the redlined version provided to NMED.

LANL is proposing to revise the CP text to reflect the following change~~s~~ in STP-covered inventories:

- Increases and decreases in covered mixed waste inventories due to the addition of new covered waste and offsite shipments during ~~FY10~~ FY11 and other changes in the STP inventory~~; and~~.

~~• Establishment of new Compliance Dates for LA-W917 as discussed in Part II, Section 5.0~~

The CP changes are proposed in accordance with the applicable requirements in the FFCO, as amended: Section VIII, *Addition of New Covered Waste*; Section X.B.4, *Revisions*; and Section XI, *Deletion of Waste*.

6.1 Addition of New Covered Waste

LANL is requesting that the following waste be added to the STP as covered waste.

6.1.1 MLLW Additions

The volume of MLLW that is requested for addition is ~~4.1640 m³ of newly categorized MLLW (LA-W917)~~1.3027 m³ of new-covered[3] *Noncombustible Debris* (LA-W922), and ~~46.6194~~10.6028 m³ of LA-W935 waste that was previously managed in the TRU inventory (Appendix C). ~~No new-covered waste (waste generated in the previous FY that was not shipped offsite within one year) is requested for addition.~~

Table 6.1.1-1: Proposed Addition of New Covered MLLW Waste ~~[Table omitted]~~

CP Section	MWIR Waste ID	Treatability Group	Volume (m³)
3.1.5	LA-W922	*Noncombustible Debris*	1.3027
3.3.4	LA-W935	*10-100 nCi/g Waste*	10.6028
		Total	**11.9055**

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6.1.2 MTRU Waste Additions

The volume of new covered MTRU waste that is requested for addition is ~~22.943~~17.873 m³ (Table 6.1.2-1).~~-~~ LANL also requests the addition of ~~64.896 m~~71.400 m³ of *Combustible-Noncombustible Waste* and ~~4.576~~ 21.216 m³ of *Noncombustible Waste* that was previously managed in the TRU inventory (Appendix G, Table G-1). ~~-~~Table 6.1.2-2 identifies waste that is proposed for addition following quality control activities that identified waste in the TRU inventory as MTRU.

Table 6.1.2-1: Proposed Addition of New Covered1 MTRU Waste

CP Section	Treatability Group	Volume (m³)
4.0	*Cemented Sludge*	4.368
4.0	*Combined Combustible-Noncombustible Waste*	~~19.164~~7.507[1]
4.0	*Combustible Waste*	~~0.322~~2.254
4.0	*Solidified Inorganic and Organic Waste*	~~1.664~~3.744

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[3] *Waste generated during the previous FY that was not shipped offsite within one year is termed new-covered STP waste.*

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	Total TA-54 New Covered	~~21.150~~17.873
4.0	*Combined Combustible-Noncombustible Waste* at CMR	~~0.416~~0.208
4.0	*Combined Combustible-Noncombustible Waste* at TA-54	~~0.567~~2.080
4.0	*Noncombustible Waste* at TA-54	~~0.810~~0.624
	Total CMR and TA-55 New Covered	~~1.793~~2.912
	Total New Covered Waste	~~22.943~~20.785

~~1 Includes new covered wastes from CMR that were transferred to TA-54.~~ New covered waste in Table 6.1.2-1 refers to waste generated in the previous FY.

Table 6.1.2-2: Proposed Addition of Waste Newly Characterized as MTRU

CP Section	Treatability Group	Volume (m^3)
4.0	*Combined Combustible-Noncombustible Waste*	3.234
4.0	*Combustible Waste*	6.776
4.0	*Metallic Waste*	11.486
4.0	*Noncombustible Waste*	1.570
4.0	*Solidified Inorganic and Organic Waste*	2.704
	Total Newly Characterized MTRU	**25.770**

6.2 Deletion of Covered Waste

Both MLLW and MTRU wastes were shipped offsite for treatment and disposal or recycling or are otherwise proposed as deleted waste.

6.2.1 Deletion of MLLW

LANL is requesting that covered MLLW identified in Appendix B be deleted from the STP. These covered wastes were shipped offsite for treatment and disposal or recycling. The total volume of covered MLLW that is requested for deletion under this Revision to the CP is ~~75.7787~~73.0323 m^3 (Appendix B, Table B-1).

6.2.2 Deletion of MTRU Waste

LANL is requesting that a total of ~~319.312~~203.396 m^3 of covered MTRU waste be deleted from the STP. These covered wastes were shipped offsite for disposal at WIPP.~~-~~ Details of the offsite shipments are given in Appendix F. ~~-~~LANL also requests deletion of ~~7.280~~3.328 m^3 of ~~STP covered~~ MTRU waste that was included in the FY10 inventory but had not been in storage for one year ~~was characterized as non-mixed waste after removal of WIPP prohibited items~~ (Appendix G, Table G-1). This waste was shipped offsite within one year and, therefore, did not become part of the STP inventory.

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6.2.3 Other Deletions of ~~FY10~~ FY11 Waste

No waste is proposed for deletion due to recycling or onsite treatment in ~~FY10~~FY11. No waste was shipped offsite for treatability studies.

6.3 Adjustments to the Original (October 4, 1995) STP-Covered MLLW Inventory

LANL is requesting adjustments to the original (October 4, 1995) STP-covered MLLW inventory as listed in Appendix C (Table C-1). Most administrative adjustments are due to reclassification of MTRU waste to MLLW treatability groups and to quality control activities related to preparing waste for treatment and disposal. These adjustments may result in additions of newly identified covered waste or transfers of waste to other treatability groups.

6.4 Adjustments to MTRU Waste Inventory

LANL is requesting adjustments (Appendix G, Tables G-1 and G-2) to the original (October 4, 1995) STP-covered MTRU waste inventory. Most administrative adjustments are due to reclassification of MTRU waste to MLLW treatability groups or to other MTRU treatability groups and to reclassification of TRU to MTRU as a result of quality control activities related to preparing waste for treatment and disposal. These adjustments may result in additions of newly identified covered waste or transfers of waste to other treatability groups.

6.5 Establishment of New Milestone Activity Dates

LANL is not requesting any new compliance milestones. ~~for newly recharacterized LA-W917 waste (Table 6.5-1) as discussed in Part II, Section 5.0.~~

Table 6.5-1: Proposed Milestone Activity Compliance Dates [Table omitted]

~~Milestone Activity~~	~~Treatability Group~~	~~Revision 20 Compliance Date~~	~~Proposed Compliance Date~~	~~Rationale~~
~~3.1.8(A)~~	~~*LA-W917 Compressed Gases Requiring Scrubbing*~~	~~None~~	~~6/30/2014~~	~~LANL will schedule shipment as part of routine waste shipment.~~

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6.6 Additional Revisions

No other revisions are requested.

7.0 RATIONALE FOR THE PROPOSED REVISION

This information is provided in accordance with FFCO Section X.C.2.a.

7.1 Establishment of New Proposed Milestone

~~LANL is requesting a~~ No new milestones ~~for the LA-W917 waste streams since there is no current milestone for shipping this waste offsite~~are proposed.

7.2 Addition of New Covered Waste

Waste that was newly generated in ~~FY09~~FY10, which was not treated within 12 months of generation, became new covered waste during ~~FY10~~ FY11 (see Appendix E). In addition, TRU wastes, which were re-evaluated during repacking and quality control activities as having previously unidentified RCRA constituents, were also added to the STP inventory (Appendix G). Approval of these proposed additions to the STP inventory will allow the added covered wastes to be treated or otherwise managed in accordance with the activities and compliance dates pertaining to each treatability group, as adopted or revised herein.

7.3 Deletion of Covered Waste

Decreases in covered waste inventory reflect the treatment and disposal or recycling of covered waste at offsite commercial facilities during ~~FY10~~FY11. Deletion of this covered waste is proposed in order to more accurately reflect the LANL STP inventory as of the end of ~~FY10~~FY11.

7.4 Adjustments to the Original (October 4, 1995) STP-Covered Waste Inventory

Administrative adjustments result from quality control activities related to preparing waste for treatment and disposal. These adjustments result in additions of newly identified covered waste and transfers of waste to other treatability groups. The adjustments to the original (October 4, 1995) STP-covered waste inventory are proposed in order to more accurately reflect the LANL STP inventory as of the end of FY11~~10~~.

8.0 ANTICIPATED LENGTH OF ANY DELAY IN PERFORMANCE

In accordance with FFCO Section X.C.2.c, LANL does not anticipate any delay in performance for any other proposals stated in this requested revision to the CP of the STP.

9.0 PLAN AND SCHEDULE FOR IMPLEMENTING ALL REASONABLE MEASURES

All other measures proposed could be implemented within the framework of the existing plan and schedule for the STP (FFCO Section X.C.2.d).

PART III. COMPLIANCE PLAN – PROPOSED REVISION ~~21~~22.0

1.0 PURPOSE AND SCOPE OF THE COMPLIANCE PLAN

1.1 Introduction

Part III of this document identifies changes that require NMED approval as a revision under Section X, *Revisions*, or an amendment under Section XI, *Other Amendments to the STP*.

The CP includes a schedule for offsite transportation for treatment, or completion of parallel options as defined in each Treatability Group Section, and the treatment of mixed wastes in full compliance with the HWA and the implementing regulations at 20 NMAC 4.1, which incorporates by reference 40 CFR Parts 260 through 270. Part I, Background, contains progress reports as required in the FFCO. Respondents shall carry out the activities described in the STP, including the CP, in accordance with the schedules and requirements set forth in the STP and the FFCO.

1.2 STP Revisions and Amendments

The STP CP has been modified several times since it was originally issued, in accordance with the provisions of Section X, *Revisions*, and Section XI, *Other Amendments to the STP*, of the October 4, 1995, FFCO, as amended and revised. The history of revisions is provided in Appendix J.

2.0 COMPLIANCE SCHEDULES

The STP provides overall schedules for achieving compliance with LDR storage and treatment requirements for mixed waste at LANL. The schedules include those activities required to process backlogged and currently generated waste and include schedules required to establish an overall timeframe for achieving compliance with the LDR requirements under the HWA and 20 NMAC 4.1.

2.1 Categories of Activities for Compliance Dates

The categories of activities for which compliance dates will be provided for different types of treatment approaches in the STP are listed in the tables below. The categories of activities are based on Section 3021(b)(1)(B)(i), (ii), and (iii) of the RCRA, to the extent appropriate.

2.1.1 Plans Where Treatment Technology Exists

For most of the mixed waste, treatment technologies have been identified and developed. ~~-~~For the waste that will be treated onsite, the categories of activities for compliance dates identified in Table 2.1.1-1 shall apply.

Table 2.1.1-1: Categories of Activities for Compliance for Mixed Waste with Existing Treatment Technologies~~.~~

A.	Submit permit applications to the NMED.
B.	Initiate construction as specified in the NMED permit.
C.	Complete system testing and commence operation.
D.	Begin treating mixed waste.
E.	Complete treatment of existing wastes to applicable regulatory standards.

2.1.2 Plans Where Technology Must Be Developed

For some mixed waste, no treatment technologies have been identified and developed, or the treatment technology must be modified or adapted to apply to such waste. For the waste that will be treated onsite, the categories of activities for compliance dates are identified in Table 2.1.2-1 and shall apply.

Table 2.1.2-1: Categories of Activities for Compliance Dates for Mixed Waste Without Existing Treatment Technologies~~.~~

A.	Identify and develop technology.
B.	Submit permit application to NMED; or
C.	Submit a Notification of Intent to perform treatability study to NMED a minimum of 45 days prior to commencement of the study.
D.	Initiate construction as specified in the NMED permit.
E.	Commence systems testing.
F.	Begin treating mixed waste.
G.	Complete treatment of existing wastes to applicable regulatory standards.

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2.2 Primary Preferred Treatment

Offsite treatment at a commercial or noncommercial mixed waste treatment facility is the primary preferred treatment option applicable to all mixed waste streams in the STP inventory unless otherwise indicated in the descriptions of individual waste treatability groups. DOE may also pursue parallel treatment options, such as recycling/re-use or radiological decontamination. Requirements for waste shipped offsite for recycling are discussed under Part III, Section 2.6. All activities and compliance dates related to the construction, permitting, and operation of onsite treatment skids were removed from this document. This change was due to the increased availability of offsite treatment and disposal capacity for mixed waste. Respondents will continue evaluating new commercial and DOE offsite treatment facilities as potential options for managing mixed waste, as they become available.

2.3 Plans for Mixed Waste to be Shipped Offsite for Treatment

Should DOE decide to treat or recycle waste at a commercial offsite facility (Table 2.3-1), DOE will notify the NMED Project Manager in writing as soon as possible and in any event within ~~forty-five (45)~~ 45 working days of receipt of waste at the treatment/recycling facility.

DOE shall notify the NMED Project Manager in writing as soon as possible if mixed waste is planned to be sent to a noncommercial facility. Notification should be made if possible when DOE is first considering such an option to allow NMED and the state to address any state issues or concerns with other states. The NMED Project Manager shall approve in writing the proposed offsite noncommercial treatment option proposed by DOE prior to any shipment by DOE. DOE will notify the NMED Project Manager in writing as soon as possible and in any event within ~~forty-five (45)~~ 45 working days of receipt of waste at the treatment/recycling facility. Activities for mixed waste to be shipped offsite for treatment/recycling at a noncommercial facility are identified in
Table 2.3-2.

Table 2.3-1: Activities for Offsite Shipment for Treatment or Recycling at a Commercial Facility

A.	Meet all regulatory requirements for shipment.
B.	Provide documentation to NMED that waste has been received at an offsite facility for treatment or recycling within 45 working days of receipt of waste at the treatment facility.

2.3.1 Specific Site Requirements for Noncommercial Treatment Facilities

Shipment to Idaho National Laboratory

Prior to shipment, Idaho National Laboratory (INL) and Idaho Division of Environmental Quality shall be notified of any pending shipments of waste should DOE ship MLLW to INL. Proper procedures including additional approvals (if necessary) and documentation shall be completed prior to the shipment of wastes to INL. Management of post-treatment waste residuals or newly generated waste streams will be in accordance with the requirements of DOE, the State of Idaho, and that state where they will be disposed. A modification to LANL's RCRA permit providing for the return of such wastes and/or residues to LANL must be approved by NMED prior to any such return of wastes and/or residuals to LANL. DOE will notify the NMED Project Manager in writing as soon as possible~~,~~ and in any event within ~~thirty (30)~~ 30 working days after receipt of shipment of treatment residuals or newly generated waste streams from INL.

Shipments of MLLW to planned facilities (not yet existing) will occur only after that treatment and schedules are approved by DOE-ID and the State of Idaho. Upon approval of the planned treatment facilities, the applicable protocol from the paragraph above will be implemented for mixed wastes to be treated at planned facilities.

Shipment to Oak Ridge Reservation

In the case that Oak Ridge Reservation (ORR) may not dispose of mixed-waste residues or new waste streams generated from offsite treatment, and they cannot be sent to another facility for disposal, then the residues may return to LANL. Should residual or newly generated waste streams be returned to LANL, the proper permits for the State of New Mexico must exist. DOE will notify the NMED Project Manager in writing as soon as possible~~,~~ and in any event within

~~thirty (30~~30~~)~~ working days after receipt of shipment of treatment residuals or newly generated waste streams from ORR.

Table 2.3-2: Activities for Shipment Offsite for Treatment or Recycling at a Noncommercial Facility

A.	Request necessary approval from NMED for shipment of waste by category before shipping.
B.	Meet all regulatory requirements for offsite shipment.
C.	Provide documentation to NMED of confirmation of shipment date within 14 working days prior to sending waste to an offsite facility for treatment, disposal, or recycling, or storage pending treatment, disposal, or recycling.
D.	Provide documentation to NMED that waste has been received at an offsite facility for treatment within 45 working days of receipt of waste at the offsite facility.
E.	Meet all regulatory requirements to include RCRA Permit modifications for residual or newly generated waste streams after treatment or recycling.
F.	Provide documentation to NMED within 30 working days after receipt of residual or newly generated waste streams upon return to LANL.

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2.4 Requirements Pertaining to Radionuclide Separation

The FFCA sets additional requirements in cases in which DOE intends to conduct radionuclide separation of mixed waste. Should the DOE determine to do radionuclide separation of such mixed waste, DOE will schedule specific compliance dates based on category activities identified in Table 2.4-1. "Radionuclide separation" shall mean segregating the radioactive portion of the mixed waste from the hazardous portion of the mixed waste.

Table 2.4-1: Activities for Radionuclide Separation

A.	Complete an estimate of the volume of waste generated by each case of radionuclide separation.
B.	Complete an estimate of the volume of waste that would exist or be generated without radionuclide separation.
C.	Complete an estimate of the costs of waste treatment and disposal if radionuclide separation is used compared with the estimated costs if it is not used.
D.	Provide the assumptions underlying such estimates of waste volumes and cost estimates.
E.	Provide characterization methodologies for determining waste type.
F.	Submit a plan for treating or managing hazardous waste residues, accompanied by an NMED permit application.

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2.5 Plans Related to Other Mixed Waste Activities

Activities other than the types of activities specifically called for in the FFCA as requiring schedules are described in this STP. ~~-~~Some of these activities may be associated with schedules ~~which~~ that may contain compliance dates related to treatment of the DOE's mixed waste.

For mixed waste, which is not sufficiently characterized to allow identification of appropriate treatment, notification of the characterization of such waste shall be in accordance with the annual update process described in the FFCO. If such characterization results in the addition or deletion of a treatability group or an increase in volume in a treatability group, a revision would be required pursuant to Section X of the FFCO.

DOE will notify the NMED when offsite treatability studies are conducted on STP waste. Treatability studies are used to explore alternative treatment options that may be practical for any or all of the STP mixed waste streams. When preparing waste for shipment for an offsite treatability study, DOE will evaluate the potential for incidental waste treatment or secondary waste generation, which are often associated with treatability studies.

2.6 Recycling/Re-Use

Respondent will pursue onsite or offsite recycling/re-use as a parallel preferred option.

Should DOE elect to use recycling facilities in lieu of (or in combination with) treatment, it will follow requirements as if the waste were shipped offsite for treatment. Any and all requirements by the recycling facility and all state, federal, or other regulatory requirements applicable at the recycling site shall be met by Respondents.

DOE shall notify the NMED Project Manager in writing as soon as possible if mixed waste is planned to be sent to an offsite noncommercial recycling facility. Notification should be made if possible when DOE is first considering such an option to allow NMED and the state to address any state issues or concerns with other states. The NMED Project Manager shall approve in writing the proposed offsite noncommercial recycling option prior to any shipment by DOE. DOE will notify the NMED Project Manager in writing as soon as possible and in any event within ~~forty-five (~~45~~)~~ working days of receipt of waste at the recycling facility. Activities for mixed waste to be recycled are identified in Table 2.6-1.

Should DOE elect to use recycling/re-use facilities in lieu of (or in combination with) treatment, it will follow the requirements as if the waste were shipped offsite for treatment. DOE will provide a notification letter to the NMED within 45 days, in place of documentation, that waste was received at a recycling facility.

Table 2.6-1: Requirements for Recycling

A.	Meet all regulatory requirements for recycling/re-use.
B.	Provide documentation to NMED that waste has been received at recycling facility within 45 working days of receipt of waste at the recycling facility.

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2.7 Onsite Radiological Decontamination

DOE will pursue onsite radiological surface or external decontamination as a preferred option. No volumetric or internal decontamination processes will be considered or performed. Surface radiological decontamination includes activities such as sand blasting, hand-scrubbing, or electrolytic decontamination. These decontamination activities could result in reducing or removing the radiological contaminant from the waste such that the waste could be recycled in accordance with CP Section 2.6 (*Recycling/Re-Use*) or be proposed for deletion in accordance with Section IX (*Deletion of Waste*) of the FFCO.

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Activities for mixed waste to be radiologically decontaminated are identified in Table 2.7-1.

Table 2.7-1: Activities for Radiological Decontamination

A.	Meet all DOE requirements for radiological decontamination.
B.	Provide documentation to NMED that waste has been received at recycling facility within 45 working days of receipt of waste at the recycling facility; or
C.	Propose waste for deletion in accordance with Section IX of the FFCO.

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3.0 MIXED LOW-LEVEL WASTE STREAMS

This section presents the preferred options to treat MLLW (formerly known as LLMW) at LANL. All preferred options not described below must be approved by NMED in accordance with the revision process pursuant to the FFCO.

The original October 4, 1995, STP inventory in each MLLW treatability group has been modified through the revision process in the FFCO. The tables in the STP Background (Part I) Appendices A–M of the FY09 STP Annual Update provide a comprehensive summary of changes to the CP covered waste inventories (additions, deletions, and shifts of waste between treatability groups) occurring as of the date of that revision. In Part III, the original STP inventory in each MLLW treatability group is denoted as subgroup 0 of that treatability group (e.g., the original volume of STP treatability group LA-W906 became LA-W906-0). Each revision that has since added volumes to individual treatability groups has resulted in creation of an additional subgroup, having the same number as the revision (e.g., LA-W906-4 was created in Revision 4.0, and LA-W906-5 was created in Revision 5.0).

In most subsections of this section, the subgroups of the treatability groups are not shown. In those cases, the Activities and Compliance Dates are applicable to the entire net volume of that treatability group. However, when subgroups of a treatability group have been assigned Activities and Compliance Dates unique to that subgroup, those subgroups are detailed in the text. Activities and Compliance Dates that have been met in previous years are not shown in this document.

3.1 Mixed Waste Streams

The following subsections summarize MLLW treatability groups.

3.1.1 IPA Wastes and Scintillation Fluids

Table 3.1.1-1: Treatability Groups for IPA Wastes and Scintillation Fluids

Treatability Group	MWIR* Waste ID	RCRA Codes	Net Volume (m^3)
IPA Wastes	LA-W901	D001, D009, F002, F003, F005	0.00
Scintillation Fluids	LA-W902	D001, F003, F005	0.00
Totals			**0.00**

*MWIR is Mixed Waste Inventory Report

Treatment: The waste will be treated at an offsite facility that combusts organic liquid waste.

3.1.2 Lead Blankets, Soil with Heavy Metals, Environmental Restoration (ER) Soils

Table 3.1.2-1: Treatability Groups for Lead Blankets, Soil with Heavy Metals, ER Soils

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Lead Blankets	LA-W903	D007, D008	0.00
Soil With Heavy Metals	LA-W904	D004, D005, D006, D007, D008, D009, D010, D011	0.00
ER Soils	LA-W905	D028, D029, F001, F005 D010, D011	0.00
Totals			**0.00**

Treatment: The waste will be treated at an offsite facility that stabilizes or macroencapsulates wastes.

3.1.3 Aqueous Organic Liquids

Table 3.1.3-1: Treatability Groups for Aqueous Organic Liquids

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Aqueous Organic Liquids	LA-W906-0 LA-W906-4 LA-W906-5	D001, D002, D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D027, D028, D030, D032, D033, D034, D036, D037, D038, D039, D041, D042, D043, F001, F002, F003, F004, F005	0.00
Totals			**0.00**

Table 3.1.3-2: Additional Treatability Groups for Aqueous Organic Liquids

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Aqueous Organic Liquids	LA-W906-6 LA-W906-9 LA-W906-10 LA-W906-15	D001, D002, D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D027, D028, D030, D032, D033, D034, D036, D037, D038, D039, D041, D042, D043, F001, F002, F003, F004, F005	0.00
Totals			**0.00**

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3.1.4 Organic-Contaminated Combustible Solids

Table 3.1.4-1: Treatability Groups for Organic-Contaminated Combustible Solids

Treatability Group	MWIR Waste ID	RCRA codes	Net Volume (m^3)
Organic-Contaminated Combustible Solids	LA-W911	D001, D004, D008, D009, F001, F002, F003, F005	0.00
Totals			**0.00**

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Table 3.1.4-2: Treatability Groups for Organic-Contaminated Noncombustible Solids

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Organic-Contaminated Noncombustible Solids	LA-W919	D001, D003, D004, D005, D006, D007, D008, D009, D010, D011, D012, D015, D018, D019, D020, D022, D027, D028, D029, D030, D031, D032, D033, D034, D035, D036, D042, D043, F001, F002, F003, F004, F005	0.00
Totals			**0.00**

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3.1.5 Combustible Debris, Activated or Inseparable Lead, Noncombustible Debris

Table 3.1.5-1: Treatability Groups for Combustible Lead, Activated or Inseparable Lead, and Noncombustible Debris

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Combustible Debris	LA-W912	D001, D002, D003, D005, D006, D007, D008, D009, D011, D035, F001, F002, F003, F005	0.00
Activated Or Inseparable Lead	LA-W921	D008	0.00
Noncombustible Debris	LA-W922 LA-W922-17 LA-W922-22	D001, D002, D004, D005, D006, D007, D008, D009, D010, D011	~~0.00~~ ~~0.00~~ 0.00
Totals			**0.00**

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3.1.6 Aqueous Wastes with Heavy Metals, Corrosive Solutions, Aqueous Cyanides, Nitrates, Chromates, and Arsenates

Table 3.1.6-1: Treatability Groups for Aqueous Wastes with Heavy Metals, Corrosive Solutions, Aqueous Cyanides, Nitrates, Chromates, and Arsenates

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Aqueous Wastes With Heavy Metals	LA-W913	D001, D002, D003, D004, D005, D006, D007, D008, D009, D010, D011	0.00
Corrosive Solutions	LA-W914	D001, D002	0.00
Aqueous Cyanides, Nitrates, Chromates, And Arsenates	LA-W915	D001, D002, D003, D004, D005, D006, D007, D008, D009, D010, D011, F007, P029, P098	0.00
Totals			**0.00**

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3.1.7 Water-Reactive Metal

Table 3.1.7-1: Treatability Groups for Water-Reactive Metal

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Water-Reactive Metal	LA-W916	D001, D003, D004, D005, D007, D008, D010, D011	0.00
Totals			**0.00**

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3.1.8 Compressed Gases Requiring Scrubbing

Table 3.1.8-1: Treatability Groups for Compressed Gases Requiring Scrubbing

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Compressed Gases Requiring Scrubbing	LA-W917 LA-W917-21	D001, D002, D003, D008, D009, P056	~~4.1640~~1.2492
Totals			**~~4.1640~~1.2492**

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Table 3.1.8-2: Activities and Compliance Dates for Compressed Gases Requiring Scrubbing

Activity	Compliance Dates
A. Complete shipping of existing wastes to an offsite treatment facility or complete parallel option	6/30/2014
B. Provide documentation to NMED that waste was received at offsite facility or provide notification of parallel option	Within 45 days of receipt of waste at treatment facility or within 45 days after completion of parallel option

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3.1.9 Compressed Gases Requiring Oxidation

Table 3.1.9-1: Treatability Groups for Compressed Gases Requiring Oxidation

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Compressed Gases Requiring Oxidation	LA-W918	D001, U226	0.00
Totals			**0.00**

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3.1.10 Elemental Mercury

Table 3.1.10-1: Treatability Groups for Elemental Mercury

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Elemental Mercury	LA-W920 LA-W920-16	D006, D009, F005	0.00 ~~0.00~~
Totals			**0.00**

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3.1.11 Halogenated Organic Liquids, Nonhalogenated Organic Liquids, Bulk Oils, Polychlorinated Biphenyl (PCB) Wastes with RCRA Components, Liquid and Solid Oxidizers

Table 3.1.11-1: Treatability Groups for Halogenated Organic Liquids, Nonhalogenated Organic Liquids, Bulk Oils, PCB Wastes with RCRA Components~~, Liquid and Solid Oxidizers~~

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Halogenated Organic Liquids	LA-W907	D001, D002, D003, D007, D009, D010, D011, D018, D019, D022, D028, D029, D035, D043, F001, F002, F003, F004, F005, U077, U080, U226, U227, U228, U236	0.00
Nonhalogenated Organic Liquids	LA-W908 LA-W908-18	D001, D002, D003, D004, D007, D008, D009, D011, D018, D038, D040, F002, F003, F004, F005, U002, U019, U154, U169, U188, U220, U246	0.00
Bulk Oils	LA-W909 LA-W909-15 LA-W909-16 LA-W909-17	D002, D004, D005, D006, D007, D008, D009, D010, D011, D021, D027, D039, F001, F002, F003, F005	0.00 ~~0.00~~ ~~0.00~~ ~~0.00~~
PCB Wastes With RCRA Components	LA-W910 LA-W910-16	D004, D005, D006, D007, D008, D009, D010, D011, D012, D015, D019, D027, D028, D030, D031, D032, D033, D034, D036, D039, D042, D043, F002, F003, F004, F005	0.00 ~~0.00~~
Totals			**0.00**

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Table 3.1.11-2: Additional Treatability Groups

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Liquid And Solid Oxidizers	LA-W923	D001, D003, D005	0.00
Totals			**0.00**

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3.2 Mixed Waste Requiring Further Characterization or for Which Technology Assessment Has Not Been Done

Table 3.2-1: Treatability Groups for Waste Requiring Characterization or Assessment

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Lead Wastes - TBD	LA-W924	D003, D008	0.00
Mercury Wastes - TBD	LA-W925-0	D007, D008, D009, F001	0.00
Compressed Gases - TBD	LA-W926	D001, D007, D009, D022, P056, U080, U226	0.00
Biochemical Laboratory Wastes	LA-W927	D001, D003	0.00
Dewatered Treatment Sludge	LA-W928		0.00
Totals			**0.00**

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Table 3.2-2: Additional Wastes Requiring Characterization or Assessment

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Lead Wastes - TBD	LA-W924-15 LA-W924-16 LA-W924-17	D003, D008	0.00 0.00 0.00
Mercury Wastes – TBD	LA-W925-4 LA-W925-5 LA-W925-6 LA-W925-15 LA-W925-16 LA-W925-17 LA-W925-18	D003, D007, D008, D009 F001, F002, F005	0.00
Explosives	LA-W932	D003	0.00
Labpacks	LA-W933 LA-W933-17	D001, D002, D003, D004, D005, D006, D007, D008, D010, F003, F005, D011, P012, P029, P098, P106, P113, P120, U131, U144, U145, U188, U190, U204, U216, U219	0.00
High Activity Waste	LA-W934 LA-W934-16 LA-W934-19 LA-W934-20	D001, D003, D008, D009	~~2.1709~~1.5079

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Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
Totals			~~2.1709~~1.5079

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Table 3.2-3: Activities and Compliance Dates for Wastes Requiring Characterization or Assessment

Activity	Compliance Dates
J. Complete shipping of wastes to an offsite treatment facility, or submit documentation assigning waste items to applicable treatability groups or complete parallel option	12/31/2013
K. Provide documentation to NMED that waste was received at offsite facility or provide notification of parallel option	Within 45 days of receipt of waste at offsite facility or within 45 days after completion of parallel option

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LANL's inventory of *High Activity Waste* was approximately 31 m^3 at the time the milestone was extended to December 31, 2013. LANL has subsequently shipped about 95 percent of that waste offsite. LANL's remaining inventory of *High Activity Waste* consists of six containers with a combined volume of 1.5079 m^3. LANL expects to meet the December 31, 2013, milestone for the remaining *High Activity Waste*.

Container C05180336 (Portsmouth debris) is ready for shipment, but the shipment cannot be completed until the offsite facility is able to accept it. This single container would consume over two thirds of the license limit for grams of fissile material allowed at the facility and must await a window of opportunity when the facility's inventory of fissile grams is very low. LANL continues to monitor the availability of the treatment/storage/disposal facility (TSDF), but it cannot guarantee when the offsite TSDF would be able to accept the waste. LANL will continue to review other offsite disposal options as the December 31, 2013, milestone approaches. If no other options become available, LANL will propose an extension of the milestone for Container C05180336.

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Container C00130818 (Tritium traps with mercury contamination) will be shipped as soon as TSDF availability and scheduling allows.

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The remaining four containers (mole sieves and squib assemblies with very high tritium) were intended to be repackaged at TA-16 once facility Authorization Basis issues had been resolved. TA-16, however, has not been able to assure that the containers could be processed within the 24-hour period allowed for removal of waste from a permitted TSDF. LANL is working with a TSDF to accept these containers. If the containers cannot be accepted, LANL will work with other TSDFs as necessary, depending on the waste stream requirements, to ensure that they are shipped offsite by the current milestone.

3.3 Plans for Other Types of Activities

The following subsection summarizes plans for other types of activities.

3.3.1 Lead Decontamination

Table 3.3.1-1: Treatability Groups for Lead Decontamination

		First Category	Second Category	Totals
Treatability Group	**MWIR Waste ID**	**Net Volume (m^3)**	**Net Volume (m^3)**	**Net Volume (m^3)**
Lead For Surface Decontamination	LA-W930-0 LA-W930-5	0.00	0.00	0.00
Totals		**0.00**	**0.00**	**0.00**

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Treatment: Any lead not acceptable for onsite or offsite lead decontamination, plus any lead unsuccessfully decontaminated, will be designated in the following two categories: 1) for treatment and disposal at an offsite facility or 2) for recycle through an offsite capability, such as metal melting to create shielding blocks or a DOE lead bank. Non-conforming items will be reassigned to appropriate treatability groups in accordance with the FFCO.

Table 3.3.1-2: Additional Wastes for Lead Decontamination

		First Category	Second Category	Totals
Treatability Group	**MWIR Waste ID**	**Net Volume (m^3)**	**Net Volume (m^3)**	**Net Volume (m^3)**
Lead For Surface Decontamination	LA-W930-6	0.00	0.00	0.00
Totals		**0.00**	**0.00**	**0.00**

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3.3.2 Sorting, Surveying, and Decontamination

Table 3.3.2-1: Treatability Groups for Sorting, Surveying, and Decontamination

Treatability Group	MWIR Waste ID	Net Volume (m^3)
Nonradioactive or Suspect Waste Items To Be Surveyed	LA-W929-0(1)	0.00
Nonradioactive or Suspect Waste Items To Receive RCRA and Radiological Characterization	LA-W929-0(2)	0.00
Nonradioactive or Suspect Waste Items That Cannot or Should Not Be Sampled	LA-W929-0(3)	0.00
Totals		**0.00**

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Table 3.3.2-2: Additional Wastes for Sorting, Surveying, and Decontamination

Treatability Group	MWIR Waste ID	Net Volume (m^3)
Nonradioactive or Suspect Waste Items	LA-W929-5	0.00
Totals		**0.00**

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3.3.3 Lead Requiring Sorting

Table 3.3.3-1: Treatability Groups for Lead Requiring Sorting

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m3)
Lead Requiring Sorting	LA-W931	D008	0.00
Totals			**0.00**

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Treatment: Wastes in this treatability group will require different treatment processes. -Drums will be opened, the contents removed, and the waste repackaged based on appropriate treatment requirements. -Wastes in this treatability group are primarily lead pieces, lead shot, and lead-contaminated soils that have been packaged in the same drum.

The wastes will be reclassified as the applicable treatability group after physical separation and repackaging. -The wastes will be treated by appropriate technology.

3.3.4 10—100 nCi/g Waste

Table 3.3.4-1: Treatability Groups for 10—100 nCi/g Waste

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m^3)
10-100 nCi/g	LA-W935 LA-W935-19 LA-W935-20 LA-W935-21 LA-W935-22	D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D026, D027, D028, D029, D030, D035, D036, D037, D038, D039, D040, D043, F001, F002, F004, F005, F006, F007, F009	~~155.1344~~173.1088
Totals			~~155.1344~~173.1088

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Treatment: Wastes in this treatability group are a population of legacy drums packaged and managed as MTRU (> 100 nCi g) but, after assay, are determined to be MLLW (< 100 nCi g). Once confirmed, these drums are segregated from other TRU waste and stored in a designated MLLW storage area. Waste Profiles are prepared to allow acceptance into the low-level waste population, and drums are relabeled appropriately. -A Chemical Waste Disposal Request is prepared to transfer the drums from the TRU database to the Chem-Low-Level (ChemLL) database. TRU programs will be notified of the drums reclassified from TRU to MLLW for evaluation of possible other drums based on waste stream. CCP will be notified for removal of drums from Acceptable Knowledge (AK).

The drum numbers will be submitted to Production Control for retrieval and staging as MLLW prior to offsite disposal. The MLLW drums are prepared for treatment and disposal to an offsite facility using CCP-AK documentation and onsite and offsite profiles generated for debris or sludge drums.

Table 3.3.4-2: Activities and Compliance Dates for 10–100 nCi/g Waste

Activity	Compliance Dates
A. Complete assaying	12/01/13
B. Complete shipment of existing waste to offsite facility for treatment, or complete parallel options	12/31/13
C. Provide documentation to NMED that waste was received at offsite facility or provide notification of parallel option	Within 45 days of receipt of waste at treatment facility or within 45 days after completion of parallel option

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As discussed in Part I, Section 2, LANL has prioritized waste shipments to address higher risk wastes before lower risk wastes like those in the *10-100 nCi/g Waste* (LA-W934) treatability group. Therefore, a substantial inventory of LA-W934 waste that resulted from reclassifying MTRU waste between FY07 and FY11 remains to be shipped offsite. LANL intends to complete shipment of the existing inventory (173.1088 m^3) before the milestone of December 31, 2013 as well as additional *10-100 nCi/g Waste* generated from continued remediation of legacy TRU waste in FY12. As much waste as possible that is reclassified in FY13 will also be shipped offsite prior to December 31, 2013. However, some waste produced in the latter part of 2013 may not be able to be shipped prior to December 31, 2013 if there are scheduling conflicts or restrictions at the receiving facilities. In that case, LANL would seek an additional milestone for those particular wastes.

3.4 Management of "Missing" Items

Table 3.4-1: Waste Category for "Missing Waste"

Category	MWIR Waste ID	Net Volume (m^3)
Missing/Nonexistent/TBV	None	0.00
Totals		**0.00**

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Treatment: During visual inspections and sampling activities in support of STP waste work-off, occasionally an item cannot be found, or it is not located in the containers in which it is expected to be, according to the LANL data files for the waste item. In some instances, such items cannot be verified as having ever been received in storage at LANL, and follow-up investigations of the record files reveal that for various reasons, the waste items were never in fact generated, although on paper they were included in the original STP inventory.

Some items were determined not to exist after visual inspection and document review. When LANL determines that an STP-covered waste item does not exist, transfer of the item to the category called *"Missing/nonexistent/TBV (*to be verified*)~~,~~"* is requested through the revision process associated with the next Annual Update.

DOE ~~will~~ verified~~y~~ the absence of all *"Missing/nonexistent/TBV"* items container ~~-~~by~~-~~ container~~,~~ as each STP waste item ~~is~~ was being sampled, repackaged, or otherwise prepared for on-site~~-~~ or offsite treatment. ~~-~~The final verification of all *"Missing/nonexistent/TBV"* items ~~will be~~ was completed by ~~April 21,~~ 2004. All missing or nonexistent items have been deleted from the STP. ~~, at which time a~~All remaining MLLW items in the original STP inventory ~~will~~ have been treated and disposed of. ~~At that time, LANL will request deletion of all missing or nonexistent items from the STP.~~

If, a~~A~~t any time, ~~during the re-verification process, should~~ any of these items be discovered ~~to exist~~in the inventory, NMED ~~will~~ would be notified, and approval ~~will~~ would be requested for assignment of the rediscovered items to the appropriate treatability group. If necessary, they ~~will~~ would be assigned new Activities and Compliance Dates, in accordance with the terms of the FFCO.

4.0 MIXED TRANSURANIC WASTE

Treatment Group(s): Assorted MTRU Waste

Offsite Disposal: MTRU waste at LANL will be shipped for disposal at ~~the~~ WIPP, which is located in Carlsbad, New Mexico. The schedule for characterization and subsequent offsite shipment to WIPP will be dependent on the annual DOE budget allocation specific to this activity.

APPENDICES

APPENDIX A. CURRENT YEAR MLLW INVENTORY DETAIL

Table A-1: ~~FY10~~ FY11 MLLW Inventory1 Detailed Update by Treatability Group

CP* Sec.	MWIR* Waste ID and Treatability Group/Category	~~FY09~~FY10 Annual Update (m^3) [1]	Proposed Revision ~~21~~22.0 (m^3)	Comments[2]	~~FY10~~ FY11 Annual Update (m^3)	Projection ~~FY11~~FY12~~-FY15~~ FY16 (m^3)
3.1.1	LA-W901 *IPA Wastes*	0	0		0	0
3.1.1	LA-W902 *Scintillation Fluids*	0	0		0	0
3.1.2	LA-W903 *Lead Blankets*	0	0		0	0
3.1.2	LA-W904 *Soil with Heavy Metals*	0	0		0	0
3.1.2	LA-W905 *ER Soils*	0	0		0	0
3.1.3	LA-W906 *Aqueous Organic Liquids*	0	0		0	0
3.1.4	LA-W911 *Organic-Contaminated Combustible Solids*	0	0		0	0
3.1.4	LA-W919 *Organic-Contaminated Noncombustible Solids*	~~0.2082~~0	~~-0.2082~~0	~~Shipped offsite for treatment/disposal~~	0	0
3.1.5	LA-W912 *Combustible Debris*	0	0		0	0
3.1.5	LA-W921 *Activated or Inseparable Lead*	0	0		0	0
3.1.5	LA-W922 *Noncombustible Debris*	0	~~0~~1.3027	New covered	0	~~1.3000~~0
			-1.3027	Shipped offsite for treatment/disposal		
3.1.6	LA-W913 *Aqueous Wastes with Heavy Metals*	0	0		0	0

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CP* Sec.	MWIR* Waste ID and Treatability Group/Category	~~FY09~~FY10 Annual Update (m^3) [1]	Proposed Revision ~~21~~22.0 (m^3)	Comments[2]	~~FY10~~ FY11 Annual Update (m^3)	Projection ~~FY11~~FY12~~-FY15~~ FY16 (m^3)
3.1.6	LA-W914 *Corrosive Solutions*	0	0		0	0
3.1.6	LA-W915 *Aqueous Cyanides, Nitrates, Chromates, and Arsenates*	0	0		0	0
3.1.7	LA-W916 *Water-Reactive Wastes*	0	0		0	0
3.1.8	LA-W917 *Compressed Gases Requiring Scrubbing*	~~0~~4.164	~~4.1640~~-0.6246	Administrative Adjustment (Existing prohibited items from ~~MTRU~~ MLLW STP inventory[3] ~~added~~ recharacterized as ~~from~~ MTRU ~~inventory~~)	~~4.1460~~1.2492	0
			-2.2902	Shipped offsite for treatment/disposal		
3.1.9	LA-W918 *Compressed Gases Requiring Oxidation*	0	0		0	0
3.1.10	LA-W920 *Elemental Mercury*	0	0		0	0
3.1.11	LA-W907 *Halogenated Organic Liquids*	0	0		0	0
3.1.11	LA-W908 *Nonhalogenated Organic Liquids*	0	0		0	0
3.1.11	LA-W909 *Bulk Oils*	0	0		0	0
3.1.11	LA-W910 *Polychlorinated Biphenyl (PCB) Wastes with Resource Conservation and Recovery Act (RCRA) Components*	0	0		0	0
3.1.11	LA-W923 *Liquid and Solid Oxidizers*	0	0		0	0

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CP* Sec.	MWIR* Waste ID and Treatability Group/Category	~~FY09~~FY10 Annual Update (m^3) [1]	Proposed Revision ~~21~~22.0 (m^3)	Comments[2]	~~FY10~~ FY11 Annual Update (m^3)	Projection ~~FY11~~FY12 ~~FY15~~ FY16 (m^3)
3.2	LA-W924 *Lead Wastes – TBD*	0	0		0	0
3.2	LA-W925 *Mercury Wastes – TBD*	0	0		0	0
3.2	LA-W926 *Compressed Gases – TBD*	0	0		0	0
3.2	LA-W927 *Biochemical Laboratory Wastes*	0	0		0	0
3.2	LA-W928 *Dewatered Treatment Sludge*	0	0		0	0
3.2	LA-W932 *Explosives*	0	0		0	0
3.2	LA-W933 *Labpacks*	0	0		0	0
3.2	LA-W934 *High Activity Waste*[3]	~~2.170~~31.~~501~~2	~~-~~-~~29.330~~30.6556	Shipped offsite for treatment/disposal	~~1.507~~2.~~170~~9	~~0.100~~0
			-0.0074	Administrative Adjustment		
3.3.1	LA-W930 *Lead for Surface Decontamination*	0	0		0	0
3.3.2	LA-W929 *Nonradioactive or Suspect Waste Items to be Surveyed*	0	0		0	0
3.3.3	LA-W931 *Lead Requiring Sorting*	0	0		0	0

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CP* Sec.	MWIR* Waste ID and Treatability Group/Category	~~FY09~~FY10 Annual Update (m^3)[1]	Proposed Revision ~~21~~22.0 (m^3)	Comments[2]	~~FY10~~ FY11 Annual Update (m^3)	Projection ~~FY11~~FY12 ~~FY15~~ FY16 (m^3)
3.3.4	LA-W935 *10 –100 nC/g Waste*[3]	~~14.2128~~155.1344	~~76.1505~~187.1618	Administrative Adjustment	173.1039~~155.1344~~	460.0000[4]
			10.6028	New covered (reclassified and transferred from TRU inventory)		
			-68.7838	Shipped offsite for treatment/disposal		
			~~-46.2402~~	~~Shipped offsite for treatment/disposal~~		
3.4	*Missing/ nonexistent/ TBV category*	0	0		0	N/A
	TOTALS	~~45.922~~161.4693			~~175.8610~~~~161.4693~~	

* CP is Compliance Plan; MWIR is Mixed Waste Inventory Report
[1] MLLW volumes are calculated using the conversion: 55-gallon container = 0.2082 m^3; 85-gallon container = 0.3218 m^3
[2] Shipment details are in Appendix B; Administrative adjustments are in Appendix C.
[3] Items prohibited from shipment to WIPP are removed from MTRU STP containers and consolidated; some are MLLW and are included in Table A-1 as LA-W917 waste~~,~~; others are MTRU waste and are considered *Combustible-Noncombustible Waste* in Table E-1.
[4] LANL anticipates that a large volume of formerly TRU and MTRU waste will be retrieved over the next few years and will be reclassified to LA-W935. ~~-~~As a conservative measure, the stored reclassified TRU waste will be assigned hazardous waste codes and will be managed as STP mixed waste.

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APPENDIX B. CURRENT YEAR MLLW SHIPMENT DETAIL

Table B-1. MLLW Shipped Offsite for Treatment and Disposal in ~~FY10~~FY11

CP Section	MWIR No.	Treatability Group	Manifest Number	Destination	Date Shipped	Date NMED Notified	Volume (m^3)
~~3.1.4~~	~~LA-W919~~	~~*Organic Contaminated Combustible Solids*~~	~~000369350JJK~~	~~Perma-Fix/FL~~	~~9/20/2010~~	~~11/2/2010 (ENV-ES-10-214)~~	~~0.2082~~
						~~**LA-W919 Total**~~	~~**0.2082**~~
3.1.5	LA-W922	*Noncombustible Debris*	00368697JJK	Perma-Fix/FL	4/25/2011	5/31/2011 (ENV-ES-11-109)	1.3027
						LA-W922 Total	**1.3027**
3.1.8	LA-W917	*Compressed Gases Requiring Scrubbing*	007042905JJK	Perma-Fix/M&EC	9/19/2011	12/9/2011 (ENV-ES-11-0285)	2.2902
						LA-W917 Total	**2.2902**
3.2	LA-W934	*High Activity Waste*	~~000366428JJK~~0 0704285JJK	Perma-Fix/M&EC	~~3/11/2010~~8/ 29/2011	~~4/16/2010~~9/30/2011 (ENV-~~RRO~~ES-~~10~~11-0210)	~~0.8496~~0.2 392
3.2	LA-W934	*High Activity Waste*	0070428~~6~~JJK~~00 0366428JJK~~	Perma-Fix/~~NW~~M&EC	~~1/26/2010~~8/ 29/2011	~~2/18/2010~~9/30/2011 (ENV-~~RRO~~ES-1~~10-011~~0210)	~~4.9843~~4 164
~~3.2~~	~~LA-W934~~	~~*High Activity Waste*~~	~~000366429JJK~~	~~Perma-Fix/NW~~	~~1/26/2010~~	~~2/18/2010 (ENV-RRO-10-011)~~	~~19.3900~~
~~3.2~~	~~LA-W934~~	~~*High Activity Waste*~~	~~000366430JJK~~	~~Perma-Fix/NW~~	~~1/26/2010~~	~~2/18/2010 (ENV-RRO-10-011)~~	~~4.1064~~
						LA-W934 Total	~~**29.3303**~~**0. 6556**
3.3.4	LA-W935	*10–100 nCi/g Waste*	~~000364484JJK~~0 00368685JJK	Perma-Fix/~~M&EC~~NW	~~10/28/2009~~ 4/14/2011	~~12/14/2009~~5/20/201 1 (ENV-ES-~~10~~11-~~085~~101)	~~19.382~~4 4.9108
~~3.3.4~~	~~LA-W935~~	~~*10-100 nCi/g Waste*~~	~~000365615JJK~~	~~Perma-Fix/NW~~	~~11/18/2009~~	~~12/22/2009 (ENV-RRO-09-087)~~	~~12.4920~~
3.3.4	LA-W935	*10–100 nCi/g Waste*	~~000366367JJK~~0 00368972JJK	Perma-Fix/~~M&EC~~NW	~~12/21/2009~~ 6/22/2011	~~1/8/2010~~7/25/2011 (ENV-~~RRO~~ES-~~10~~11-~~002~~0153)	~~3.9558~~9.4 800
3.3.4	LA-W935	*10–100 nCi/g Waste*	~~000367210JJK~~0 07042787JJK	Perma-Fix/~~M&EC~~NW	~~3/11/2010~~9/ 15/2011	~~4/16/2010~~10/28/201 1 (ENV-~~RRO~~ES-~~10~~11-~~019~~0234)	~~7.9116~~3.4 093
3.3.4	LA-W935	*10–100 nCi/g Waste*	~~000367221JJK~~0 07042788JJK	Perma-Fix/NW	~~3/11/2010~~9/ 15/2011	~~4/16/2010~~10/28/201 1 (ENV-~~RRO~~ES-~~10~~11-~~019~~0234)	~~2.4984~~5.8 446
3.3.4	LA-W935	*10–100 nCi/g Waste*	007042926JJK	Perma-Fix/NW	9/22/2011	10/28/2011 (ENV-ES-11-0234)	12.6978
3.3.4	LA-W935	*10–100 nCi/g Waste*	007042784JJK	Perma-Fix/NW	9/27/2011	10/28/2011 (ENV-ES-11-0234)	10.6852
3.3.4	LA-W935	*10–100 nCi/g Waste*	0070442790JJK	Perma-Fix/NW	9/27/2011	10/28/2011 (ENV-ES-11-0234)	1.7561
						LA-W935 Total	~~**46.2402**~~**6 8.7838**
						Grand Total	~~**75.7787**~~**7 3.0323**

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APPENDIX C. CURRENT YEAR MLLW ADMINISTRATIVE ADJUSTMENTS

Table C-1. Administrative Adjustments

CP Section	MWIR Number	Administrative Adjustment	Volume (m^3)
3.1.8	LA-W917	~~Addition of WIPP-prohibited items removed during repacking of MTRU STP containers~~Removal of MLLW STP WIPP-prohibited items due to recharacterization as MTRU prohibited items	~~4.1640~~-0.6246
		Total Net Adjustments for LA-W917	**-0.6246~~4.1640~~**
3.2	LA-W934	Database correction: adjustment of container volumes	-0.0074
		Total Net Adjustments for LA-W934	**-0.0074**
3.3.4	LA-W935	Transferred into LA-W935 from MTRU STP Inventory	77.3051~~140.540 6~~[1]
		FY10 inventory included 0.3218 m^3 that should not have been in the inventory ~~Increase in FY09 end of year inventory to adjust for volume conversion of 85-gallon overpacks from 0.3215 m^3 to 0.3218 m^3~~	~~0.0018~~ 0.3218
		Deletion of *10–100 nCi/g Waste* that had been shipped as *High Activity Waste* (0.8496 m^3) in FY10 (ENV-RRO-10-020)	-0.6246
		Deletion of *10–100 nCi/g Waste* that had been shipped offsite in FY07 (ENV-RCRA-07-254) but was still included in the FY10 inventory	-0.2082
		~~Increase in inventory due to TRU inventory reclassified and managed as MLLW (LA-W935)~~	~~46.6194~~
		Total Net Adjustments for LA-W935	**~~187.1618~~76.1505**
		Total Net Adjustments	**75.5185~~191.3258~~**

[1] ~~Volume of waste transferred to MLLW (LA-W935) calculated using the MLLW convention of converting gallons to cubic meters (55 gallons = 0.2082 m^3; 85 gallons = 0.3218 m^3).~~ Due to differences in the way the MTRU and MLLW databases record volumes, the equivalent volume removed from the MTRU Inventory was ~~140.407~~77.310 m^3.

Table C-2. Administrative Adjustment - Detail

CP Section	MWIR	Treatability Group	Type of Adjustment	Cumulative Volume Adjustment (m^3)	Item or Container Number	Item or Container Volume (m^3)	Reason for Administrative Adjustment
3.1.8	LA-W917	Compressed Gases Requiring Scrubbing	Re-evaluated to be MLLW	-0.6246	Item 10132707	0.2082	Gamma spectroscopy recount determined waste to be MLLW rather than MTRU as had been reported in the FY10 Annual Report
					Item 10132617	0.2082	Data was reexamined and item determined to be MLLW rather than MTRU as had been reported in the FY10 Annual Report

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CP Section	MWIR	Treatability Group	Type of Adjustment	Cumulative Volume Adjustment (m^3)	Item or Container Number	Item or Container Volume (m^3)	Reason for Administrative Adjustment
					Item 10132621	0.2082	Data was reexamined and item determined to be MLLW rather than MTRU as had been reported in the FY10 Annual Report
3.2	LA-W934	High Activity Waste	Incorrect volumes in previous reports	-0.0074	C01136479	0.2082 (increase of 0.0002 m^3)	FY10 volume corrected from 0.208 m^3 as reported in the FY10 Annual Report to 0.2082 m3 using the LANL MLLW volume conventions
					C01136480	0.2082 (increase of 0.0002 m^3)	FY10 volume corrected from 0.208 m^3 as reported in the FY10 Annual Report to 0.2082 m^3 using the LANL MLLW volume conventions
					C00130820	0.001 (decrease of 0.009m^3)	FY10 volume corrected from 0.01 m^3 as reported in the FY10 Annual Report to 0.0010 m^3 - wrong decimal placement
					C09203611	0.3218 (increase of 0.0003 m^3)	FY10 volume corrected from 0.3215 m^3 as reported in the FY10 Annual Report to 0.3218 m^3 using the standard MLLW volume conventions
					C09203612	0.3218 (increase of 0.0003 m^3)	FY10 volume corrected from 0.3215 m^3 as reported in the FY10 Annual Report to 0.3218 m3 using the standard MLLW volume conventions
					C09203613	0.3218 (increase of 0.0003 m^3)	FY10 volume corrected from 0.3215 m^3 as reported in the FY10 Annual Report to 0.3218 m3 using the standard MLLW volume conventions
					C09203614	0.3218 (increase of 0.0003 m^3)	FY10 volume corrected from 0.3215 m^3 as reported in the FY10 Annual Report to 0.3218 m^3 using the standard MLLW volume conventions

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CP Section	MWIR	Treatability Group	Type of Adjustment	Cumulative Volume Adjustment (m^3)	Item or Container Number	Item or Container Volume (m^3)	Reason for Administrative Adjustment
3.3.4	LA-W935	10-100 nCi/g	Not in inventory; previously shipped	-0.2082	C07194669	0.2082	Included in FY10 inventory but had been shipped offsite in FY07
			Should not have been in inventory	-0.3218	Unknown	NA	The reported inventory volume for FY10 exceeded the FY12 wall-to-wall inventory volume; the discrepancy could not be identified with any given container and may have been the result of double-counting one 85 gallon container; the current inventory volume was reduced by 0.3218 m^3
			Volume reported twice as High Activity Waste and 10-100 nCi/g Waste	-0.6246	C07190323	0.6246	This oversize container comprised 3 MTRU containers (S814701, S814752, S803793), each 0.2082 m^3, that had been reclassified to MLLW; the same container, C07190323, was also listed as High Activity Waste (LA-W934) with a revised volume of 0.8496 m^3); C07190323 was shipped off-site as 0.8496 m^3 of High Activity Waste in FY10; the 10-100 nCi/g waste volume was reduced to remove the duplicate volume (0.6246 m^3).
			Reclassified MTRU STP inventory to MLLW	77.3051	C11221252	19.1241	Less than 100 nCi/g; Derived from combustible-noncombustible MTRU inventory (MTRU Container 55124, 19.12 m^3)
					C11221253	9.2885	Less than 100 nCi/g; Derived from combustible/noncombustible MTRU inventory (MTRU Container 55300, 9.29 m^3)
					C11221254	10.6852	Less than 100 nCi/g; Derived from combustible/noncombustible MTRU inventory (MTRU Container 55301, 10.69 m^3)
					C11218508	14.308	Less than 100 nCi/g; Derived from combustible/noncombustible MTRU inventory (MTRU Container 56254, 14.31 m^3)

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CP Section	MWIR	Treatability Group	Type of Adjustment	Cumulative Volume Adjustment (m^3)	Item or Container Number	Item or Container Volume (m^3)	Reason for Administrative Adjustment
					C11218510	9.48	Less than 100 nCi/g; Derived from noncombustible MTRU inventory (MTRU Container 59567, 11.300 m^3)
					C11221255	3.4093	Less than 100 nCi/g; Derived from combustible/noncombustible MTRU inventory (MTRU Container S811761, 3.41 m3)
					C11221257	3.4093	Less than 100 nCi/g; Derived from combustible/noncombustible MTRU inventory (MTRU Container S851167, 3.41 m^3)
					C11221258	5.8446	Less than 100 nCi/g; Derived from combustible/noncombustible MTRU inventory (MTRU Container S860114, 5.84 m^3)
					C11221260	1.7561	Less than 100 nCi/g; Derived from combustible/noncombustible MTRU inventory (MTRU Container S865195, 1.76 m^3)

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APPENDIX D. PREVIOUS YEAR MLLW INVENTORY DETAIL

Table D-1: ~~FY09~~ FY10 MLLW Inventory1 Detailed Update by Treatability Group

CP* Sec.	MWIR* Waste ID and Treatability Group/Category	FY09 Annual Update (m^3)[1]	Proposed Revision 21.0 (m^3)	Comments[2]	FY10 Annual Update (m^3)	Projection FY11–FY15 (m^3)
3.1.1	LA-W901 *IPA Wastes*	0	0		0	0
3.1.1	LA-W902 *Scintillation Fluids*	0	0		0	0
3.1.2	LA-W903 *Lead Blankets*	0	0		0	0
3.1.2	LA-W904 *Soil with Heavy Metals*	0	0		0	0
3.1.2	LA-W905 *ER Soils*	0	0		0	0
3.1.3	LA-W906 *Aqueous Organic Liquids*	0	0		0	0
3.1.4	LA-W911 *Organic-Contaminated Combustible Solids*	0	0		0	0
3.1.4	LA-W919 *Organic-Contaminated Noncombustible Solids*	0.2082	-0.2082	Shipped offsite for treatment/disposal	0	0
3.1.5	LA-W912 *Combustible Debris*	0	0		0	0
3.1.5	LA-W921 *Activated or Inseparable Lead*	0	0		0	0
3.1.5	LA-W922 *Noncombustible Debris*	0	0		0	1.3000
3.1.6	LA-W913 *Aqueous Wastes with Heavy Metals*	0	0		0	0
3.1.6	LA-W914 *Corrosive Solutions*	0	0		0	0
3.1.6	LA-W915 *Aqueous Cyanides, Nitrates, Chromates, and Arsenates*	0	0		0	0
3.1.7	LA-W916 *Water-Reactive Wastes*	0	0		0	0

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CP* Sec.	MWIR* Waste ID and Treatability Group/Category	FY09 Annual Update (m^3)[1]	Proposed Revision 21.0 (m^3)	Comments[2]	FY10 Annual Update (m^3)	Projection FY11—FY15 (m^3)
3.1.8	LA-W917 *Compressed Gases Requiring Scrubbing*	0	4.1640	Administrative Adjustment (prohibited items from MTRU STP inventory[3] added from MTRU inventory)	4.1460	0
3.1.9	LA-W918 *Compressed Gases Requiring Oxidation*	0	0		0	0
3.1.10	LA-W920 *Elemental Mercury*	0	0		0	0
3.1.11	LA-W907 *Halogenated Organic Liquids*	0	0		0	0
3.1.11	LA-W908 *Nonhalogenated Organic Liquids*	0	0		0	0
3.1.11	LA-W909 *Bulk Oils*	0	0		0	0
3.1.11	LA-W910 *Polychlorinated Biphenyl (PCB) Wastes with Resource Conservation and Recovery Act (RCRA) Components*	0	0		0	0
3.1.11	LA-W923 *Liquid and Solid Oxidizers*	0	0		0	0
3.2	LA-W924 *Lead Wastes – TBD*	0	0		0	0
3.2	LA-W925 *Mercury Wastes – TBD*	0	0		0	0
3.2	LA-W926 *Compressed Gases – TBD*	0	0		0	0
3.2	LA-W927 *Biochemical Laboratory Wastes*	0	0		0	0
3.2	LA-W928 *Dewatered Treatment Sludge*	0	0		0	0
3.2	LA-W932 *Explosives*	0	0		0	0

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CP* Sec.	MWIR* Waste ID and Treatability Group/Category	FY09 Annual Update (m^3)[1]	Proposed Revision 21.0 (m^3)	Comments[2]	FY10 Annual Update (m^3)	Projection FY11—FY15 (m^3)
3.2	LA-W933 *Labpacks*	0	0		0	0
3.2	LA-W934 *High Activity Waste*[3]	31.5012	-29.3303	Shipped offsite for treatment/disposal	2.1709	0.1000
3.3.1	LA-W930 *Lead for Surface Decontamination*	0	0		0	0
3.3.2	LA-W929 *Nonradioactive or Suspect Waste Items to be Surveyed*	0	0		0	0
3.3.3	LA-W931 *Lead Requiring Sorting*	0	0		0	0
3.3.4	LA-W935 *10—100 nCi/g Waste*[3]	14.2128	187.1618	Administrative Adjustment	155.1344	460.0000[4]
			-46.2402	Shipped offsite for treatment/disposal		
3.4	*Missing/ Nonexistent/-TBV category*	0	0		0	N/A
	TOTALS	**45.9222**			**161.4693**	

[-] CP is Compliance Plan; MWIR is Mixed Waste Inventory Report
[1] MLLW volumes are calculated using the conversion: 55-gallon container = 0.2082 m^3; 85-gallon container = 0.3218 m^3
[2] Shipment details are in Appendix B; Administrative adjustments are in Appendix C.
[3] Items prohibited from shipment to WIPP are removed from MTRU STP containers and consolidated; some are MLLW and are included in Table A-1 as LA-W917 waste.; others are MTRU waste and are considered *Combustible-Noncombustible Waste* in Table E-1.
[4] LANL anticipates that a large volume of formerly TRU and MTRU waste will be retrieved over the next few years and will be reclassified to LA-W935. -As a conservative measure, the reclassified TRU waste will be assigned hazardous waste codes and will be managed as STP mixed waste.

CP* Sec.	MWIR* Waste ID and Treatability Group/Category	FY08 Annual Update (m^3)[1]	Proposed Revision 20.0 (m^3)	Comments[2]	FY09 Annual Update (m^3)	Projection FY10-FY14 (m^3)
3.1.1	LA-W901 *IPA Wastes*	0	0		0	0
3.1.1	LA-W902 *Scintillation Fluids*	0	0		0	0
3.1.2	LA-W903 *Lead Blankets*	0	0		0	0
3.1.2	LA-W904 *Soil with Heavy Metals*	0	0		0	0

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CP* Sec.	MWIR* Waste ID and Treatability Group/Category	FY08 Annual Update (m^3)[1]	Proposed Revision 20.0 (m^3)	Comments[2]	FY09 Annual Update (m^3)	Projection FY10-FY14 (m^3)
3.1.2	LA-W905 *ER Soils*	0	0	-	0	0
3.1.3	LA-W906 *Aqueous Organic Liquids*	0	0		0	0
3.1.4	LA-W911 *Organic-Contaminated Combustible Solids*	0	0.1136	Administrative Adjustment - reclassified from LLW inventory	0	0
			-0.1136	Shipped offsite for treatment/disposal		
3.1.4	LA-W919 *Organic-Contaminated Noncombustible Solids*	0.2082	0		0.2082	0
3.1.5	LA-W912 *Combustible Debris*	0	0		0	0
3.1.5	LA-W921 *Activated or Inseparable Lead*	0	0	-	0	0
3.1.5	LA-W922 *Noncombustible Debris*	0	0		0	0
3.1.6	LA-W913 *Aqueous Wastes with Heavy Metals*	0	0		0	0
3.1.6	LA-W914 Corrosive Solutions	0	0		0	0
3.1.6	LA-W915 *Aqueous Cyanides, Nitrates, Chromates, and Arsenates*	0	0	-	0	0
3.1.7	LA-W916 *Water-Reactive Wastes*	0	0		0	
3.1.8	LA-W917 *Compressed Gases Requiring Scrubbing*	0.0080	-0.0080	Shipped offsite for treatment/disposal	0	0
3.1.9	LA-W918 *Compressed Gases Requiring Oxidation*	0.0602	-0.0602	Shipped offsite for treatment/disposal	0	0
3.1.10	LA-W920 *Elemental Mercury*	0	0		0	
3.1.11	LA-W907 *Halogenated Organic Liquids*	0	0		0	0

CP* Sec.	MWIR* Waste ID and Treatability Group/Category	FY08 Annual Update (m^3)[1]	Proposed Revision 20.0 (m^3)	Comments[2]	FY09 Annual Update (m^3)	Projection FY10-FY14 (m^3)
3.1.11	LA-W908 *Nonhalogenated Organic Liquids*	0	0.0379	New Covered[2]	0	0
			-0.0379	Shipped offsite for treatment/disposal		
3.1.11	LA-W909 *Bulk Oils*	0	0		0	0
3.1.11	LA-W910 *Polychlorinated Biphenyl (PCB) Wastes with Resource Conservation and Recovery Act (RCRA) Components*	0	0		0	
3.1.11	LA-W923 *Liquid and Solid Oxidizers*	0	0		0	0
3.2	LA-W924 *Lead Wastes – TBD*	0	0		0	
3.2	LA-W925 *Mercury Wastes – TBD*	0.4732	-0.3787	Shipped offsite for treatment/disposal	0	0
			-0.0945	Administrative Adjustment		
3.2	LA-W926 *Compressed Gases – TBD*	0	0		0	0
3.2	LA-W927 *Biochemical Laboratory Wastes*	0	0		0	0
3.2	LA-W928 *Dewatered Treatment Sludge*	0	0		0	0
3.2	LA-W932 *Explosives*	0	0		0	
3.2	LA-W933 *Labpacks*	0	0		0	0
3.2	LA-W934 *High Activity Waste*[2]	43.4366	-0.2082	Administrative Adjustment	31.5012	0.1000
			9.0907	New Covered[2]		
			-20.8169	Shipped offsite for treatment/disposal		
			-0.0010	Analyzed and expended in analysis		
3.3.1	LA-W930 *Lead for Surface Decontamination*	0	0		0	0

CP* Sec.	MWIR* Waste ID and Treatability Group/Category	FY08 Annual Update (m^3)[1]	Proposed Revision 20.0 (m^3)	Comments[2]	FY09 Annual Update (m^3)	Projection FY10-FY14 (m^3)
3.3.2	LA-W929 *Nonradioactive or Suspect Waste Items to be Surveyed*	0	0		0	0
3.3.3	LA-W931 *Lead Requiring Sorting*	0	0		0	0
3.3.4	LA-W935 *10-100 nCi/g Waste*[3]	14.3658	196.1933	Administrative Adjustment	14.2128	625.0000[3]
			-196.3463	Shipped offsite for treatment/disposal		
3.4	*Missing/ nonexistent/ TBV category*	0	0		0	N/A
-	TOTALS	58.5520		-	45.9222	

[a] CP is Compliance Plan; MWIR is Mixed Waste Inventory Report
[1] MLLW volumes are calculated using the conversion: 55-gallon container = 0.2082 m^3
[2] Unless otherwise noted, shipment volumes refer to existing waste
[3] Some of the MTRU waste that was reclassified to MLLW in FY08 was assigned to LA-W934 because the status of LA-W935 had not been fully resolved by approval of the annual update. For the same reason, some waste that was initially reclassified as LA-935 was reassigned to LA-W934.
[4] New covered waste is mixed waste that was newly generated in the previous FY and became subject to the STP in the current FY.
[5] Shipped volume in the *Completion of Shipment* notice dated September 8, 2008 (ENV-RCRA-08-185) was reported as 14.78 m^3; rather than 14.8955 m^3; one container was actually 0.3215 m^3, rather than the reported volume of 0.2082 m^3
[6] Table 2.1-1 contains an adjustment of -0.0008 m^3, which is not necessary in Table 2.1-2 because the total volume in Table 2.1-2 is already expressed to four decimal places.

APPENDIX E. CURRENT MTRU INVENTORY DETAIL

Table E-1. TA-54 MTRU Covered Inventory (by Treatability Group1, 2)

Treatability Group	FY09 FY10 Annual Update (m^3)	Proposed Revision 21.0 (m^3)	Comments[3]	FY10 FY11 Annual Update (m^3)[3]	Projection FY11FY12- FY15 FY16 (m^3)
Cemented Sludge	742.278990 .542				
		04.368	New Covered[4]		
		-85.064- 17.236	Shipped Offsite		
		-66.588- 163.200	Administrative Adjustments		
			FY10 Subtotal *Cemented Sludge*	662.822742. 278	0
Combustible - Noncombustible Waste	1771.174418 37.988				
		19.1647.50 7	New Covered		
		-212.616- 173.888	Shipped Offsite		
		126.638400 .751	Administrative Adjustments		
			FY10 Subtotal *Combustible-Noncombustible Waste*	2005.544177 1.174	100
Combustible Waste	18.33437.1 65				
		0.32202.25 4	New Covered		
		- 3.3282.080	Shipped Offsite		
		1.952- 15.825	Administrative Adjustments		
			FY10 Subtotal *Combustible Waste*	20.46018.33 4	0
Glass Waste	0.2080.832				
		0	New Covered		
		0	Shipped Offsite		
		-0.6240	Administrative Adjustments		
			FY10 Subtotal *Glass Waste*	0.2080.208	0
Leaded Glovebox Waste	06.032				
		0	New Covered		
		0	Shipped Offsite		
		-6.0320	Administrative Adjustments		
			FY10 Subtotal *Leaded Glovebox Waste*	**0**	0
Metallic Waste	48.75856.0 57				
		0	New Covered		

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Treatability Group	~~FY09~~ FY10 Annual Update (m^3)	Proposed Revision 21.0 (m^3)	Comments[3]	~~FY10~~ FY11 Annual Update (m^3)[~~3~~]	Projection ~~FY11~~FY12 - ~~FY15~~ FY16 (m^3)
		~~0.624~~ 0.208	Shipped Offsite		
		~~6.675~~70.438	Administrative Adjustments		
			FY10 Subtotal *Metallic Waste*	~~118.988~~~~48.758~~	0
Noncombustible Waste	~~81.700~~~~86.689~~				
		~~0~~2.254~~0~~	New Covered		
		~~8.736~~ 5.824	Shipped Offsite		
		~~3.747~~49.476	Administrative Adjustments		
			FY10 Subtotal *Noncombustible Waste*	~~125.352~~~~81.700~~	100
Solidified Inorganic and Organic Waste	~~144.064~~~~157.522~~				
		~~1.664~~3.744	New Covered		
		~~8.944~~ 4.160	Shipped Offsite		
		~~6.178~~ 2.778	Administrative Adjustments		
			FY10 Subtotal *Solidified Inorganic and Organic Waste*	~~140.870~~~~144.064~~	10
TOTAL ~~FY09~~FY10:	~~3172.826~~~~28~~ 06.516[~~5~~]		**Total ~~FY10~~ FY11 Inventory:**	~~3074.244~~~~280~~ ~~6.516~~[~~5~~][5]	**210**

[1] MTRU waste volumes are calculated using the conversion: 55-gallon container = 0.2080 m^3; 85-gallon container = 0.3215 m^3.

[2] ~~FY10 v~~Volumes are represented to three decimal places in accordance with an agreement with NMED to report MTRU volumes to three decimal places.

[3] Shipping details are found in Appendix F, and Administrative Adjustments are found in Appendix G.

[4] ~~New covered includes any new covered waste transferred from TA-55 or CMR; therefore, the transferred volumes are not included in administrative adjustments.~~

[5] ~~The FY09 Annual Report rounded the FY09 end-of-year TA-54 inventory to 3172.826 m^3; it should have been 3172.827 m^3.~~

[~~5~~][5] Depending on the rounding method (rounding of totals or of individual volumes), minor differences in the total inventory may be obtained. This report adjusts the end of the year inventory with individual drum volumes rounded to three decimal places in the ~~a~~Administrative ~~a~~Adjustments in Table G-1.

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Table E-2: MTRU Inventory at TA-55 and CMR

Location	~~FY09~~ FY10 MTRU Inventory (m^3)[1]	Treatability Group	Proposed Revision ~~21~~ 22.0~~-~~ (m^3)	Comments[1]	~~FY10~~ FY11 MTRU Inventory (m^3)
CMR	3.356~~2.940~~	*Combustible-Noncombustible Waste*	~~0.416~~0.208	New Covered	
				Total FY11~~10~~ CMR Inventory	~~3.356~~3.564
TA-55	1.930~~0~~	*Combustible-Noncombustible Waste* ~~*Combustible-Noncombustible Waste*~~	~~0.567~~2.080	New Covered	
			1.796~~1.363~~	Administrative Adjustment	
				FY11~~10~~ TA-55 Combustible-Noncombustible Waste Inventory	5.806~~1.930~~
~~TA-55~~	~~1.248~~0~~~~	~~*Combustible Waste*~~	~~-1.248~~	~~Administrative Adjustment~~	
				~~***FY10 TA-55 CombustibleWaste Inventory***~~	~~0~~
TA-55	31.987~~36.803~~	*Metallic Waste*	~~-4.816~~	~~Administrative Adjustment~~	
				FY~~10~~11 TA-55 Metallic Waste Inventory	**31.987**
TA-55	3.126~~1.900~~	*Noncombustible Waste* ~~*Noncombustible Waste*~~	~~0.810~~0.624	New Covered	
			~~0.416~~ 0.602	Administrative Adjustment	
				FY11~~10~~ TA-55 Noncombustible Waste Inventory	3.148~~3.126~~
TA-55	0.208~~0.738~~	*Solid Organic and Inorganic Waste*	~~-0.530~~	~~Administrative Adjustment~~	
				FY~~10~~11 TA-55 Solidified Organic and Inorganic Waste Inventory	**0.208**
				Total FY~~10~~11 TA-55 Inventory	41.149~~37.251~~
	~~43.629~~40.607			***Total FY11 CMR/TA-55 Inventory***	~~40.607~~44.713

[1] Shipping details are found in Appendix F and Administrative Adjustments are found in Appendix G.~~-~~ Since all waste is shipped from TA-54, there are no shipping data for CMR/TA-55, only transfers to TA-54~~.~~ which are included in the Appendix G.

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APPENDIX F. ~~FY10~~ FY11 MTRU WASTE SHIPMENTS TO WIPP

Table F-1: ~~FY10~~ FY11 MTRU Shipments to WIPP

~~FY11 Quarter~~	~~Treatability Group~~	~~FY11 Inventory Volume (m^3)~~	~~New Covered Volume (m^3)~~	~~Total Removed from Inventory (m^3)~~	~~Total Volume Shipped (m^3)~~
	Cemented Sludge Total	4.032	0	4.032	3.120
	Combustible Waste Total	0.208	0	0.208	0.208
	Combustible-NonCombustible Waste Total	23.504	0	23.504	23.504
	Noncombustible Waste Total	1.040	0	1.040	1.040
	Solidified Inorganic and Organic Waste Total	2.080	0	2.080	2.080
Q1 Total		**30.864**	**0**	**30.864**	**29.952**
	Cemented Sludge Total	7.132	0	7.132	6.448
	Combustible Waste Total	0.624	0	0.624	0.624
	Combustible-NonCombustible Waste Total	28.496	0.832	29.328	29.328
	Metallic Waste Total	0.208	0	0.208	0.208
	Noncombustible Waste Total	1.456	0	1.456	1.456
	Solidified Inorganic and Organic Waste Total	0.832	0.208	1.040	1.040
Q2 Total		**38.748**	**1.040**	**39.788**	**39.104**
	Cemented Sludge Total	5.334	0	5.334	4.992
	Combustible Waste Total	0.832	0	0.832	0.832
	Combustible-NonCombustible Waste Total	70.304	0.208	70.512	70.512
	Noncombustible Waste Total	0.416	0	0.416	0.416
	Solidified Inorganic and Organic Waste Total	0	0.416	0.416	0.416
Q3 Total		**76.886**	**0.624**	**77.510**	**77.168**
	Cemented Sludge Total	0.738	0	0.738	0.624
	Combustible Waste Total	0.416	0	0.416	0.416
	Combustible-NonCombustible Waste Total	49.296	1.248	50.544	50.544
	Noncombustible Waste Total	2.912	0	2.912	2.912
	Solidified Inorganic and Organic Waste Total	0.208	0.416	0.624	0.624
Q4 Total		**53.570**	**1.664**	**55.234**	**55.120**
Grand Total		**200.068**	**3.328**	**203.396**	**201.344**

~~*Table F-1: FY10 MTRU Shipments to WIPP*~~

Treatability Group	Shipment Date	FY09 Inventory Volume (m^3)	New Covered Volume (m^3)	Total Removed from Inventory (m^3)	Total Volume Shipped (m^3)
Cemented Sludge	11/16/2009	1.040	0	1.040	1.040
	11/20/2009	0.832	0	0.832	0.832
	2/9/2010	1.362	0	1.362	1.248
	2/10/2010	1.570	0	1.570	1.456
	2/11/2010	1.154	0	1.154	1.040
	2/12/2010	4.596	0	4.596	4.368
	2/13/2010	5.032	0	5.032	4.576
	2/14/2010	5.448	0	5.448	4.992
	2/19/2010	5.562	0	5.562	4.992
	2/20/2010	6.018	0	6.018	4.992
	2/21/2010	6.890	0	6.890	5.408
	2/27/2010	6.092	0	6.092	5.408
	3/4/2010	6.662	0	6.662	5.408
	3/8/2010	3.388	0	3.388	2.704
	4/27/2010	5.602	0	5.602	4.576
	5/18/2010	1.040	0	1.040	1.040
	5/19/2010	2.234	0	2.234	1.664
	5/20/2010	2.254	0	2.254	1.456
	6/22/2010	1.684	0	1.684	1.456
	6/23/2010	3.522	0	3.522	2.496
	6/28/2010	6.588	0	6.588	4.992
	6/30/2010	1.798	0	1.798	1.456
	7/7/2010	2.140	0	2.140	1.456
	7/8/2010	2.026	0	2.026	1.456
	7/14/2010	0.530	0	0.530	0.416
	Cemented Sludge Total	**85.064**	**0**	**85.064**	**70.928**
Combustible-Noncombustible Waste	10/1/2009	1.456	0	1.456	1.456
	10/2/2009	1.248	0	1.248	1.248
	10/6/2009	1.986	0	1.986	1.872
	10/7/2009	1.248	0	1.248	1.248
	10/9/2009	1.248	0	1.248	1.248
	10/14/2009	0.624	0	0.624	0.624
	10/16/2009	1.872	0	1.872	1.872
	10/19/2009	0.416	0	0.416	0.416
	10/21/2009	2.496	0	2.496	2.496
	10/23/2009	0.416	0	0.416	0.416
	10/26/2009	2.288	0	2.288	2.288

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Treatability Group		Shipment Date	FY09 Inventory Volume (m^3)	New Covered Volume (m^3)	Total Removed from Inventory (m^3)	Total Volume Shipped (m^3)
		10/29/2009	1.664	0	1.664	1.664
		10/30/2009	1.248	0	1.248	1.248
		11/2/2009	1.456	0	1.456	1.456
		11/4/2009	0.624	0	0.624	0.624
		11/6/2009	2.288	0	2.288	2.288
		11/9/2009	1.664	0	1.664	1.664
		11/10/2009	1.456	0	1.456	1.456
		11/13/2009	1.664	0	1.664	1.664
		11/16/2009	2.704	0	2.704	2.704
		11/18/2009	0.416	0	0.416	0.416
		11/20/2009	1.248	0	1.248	1.248
		1/5/2010	3.536	0	3.536	3.536
		1/6/2010	2.704	0	2.704	2.704
		1/7/2010	0.624	0	0.624	0.624
		1/11/2010	3.744	0	3.744	3.744
		1/12/2010	2.818	0	2.818	2.704
		1/14/2010	1.986	0	1.986	1.872
		1/20/2010	4.576	0	4.576	4.576
		1/25/2010	0.416	0	0.416	0.416
		1/26/2010	0.208	0	0.208	0.208
		2/1/2010	1.872	0	1.872	1.872
		2/2/2010	4.784	0	4.784	4.784
		2/5/2010	0.208	0	0.208	0.208
		2/8/2010	3.026	1.872	4.898	4.784
		2/9/2010	3.328	1.872	5.200	5.200
		2/10/2010	1.872	0.208	2.080	2.080
		2/11/2010	1.456	0	1.456	1.456
		2/16/2010	0.624	0	0.624	0.624
		2/17/2010	0.208	0.624	0.832	0.832
		2/18/2010	2.080	0.416	2.496	2.496
		2/23/2010	0.832	0.624	1.456	1.456
		2/24/2010	1.456	0.416	1.872	1.872
		2/25/2010	0.832	0.208	1.040	1.040
		2/26/2010	0.416	0.208	0.624	0.624
		2/28/2010	1.248	0	1.248	1.248
		3/1/2010	0.832	0	0.832	0.832
		3/2/2010	0.416	0.208	0.624	0.624
		3/3/2010	0.624	0.416	1.040	1.040

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Treatability Group		Shipment Date	FY09 Inventory Volume (m^3)	New Covered Volume (m^3)	Total Removed from Inventory (m^3)	Total Volume Shipped (m^3)
		3/5/2010	1.040	0.208	1.248	1.248
		3/6/2010	1.872	0.208	2.080	2.080
		3/7/2010	0.624	0	0.624	0.624
		3/8/2010	0.624	0.624	1.248	1.248
		4/20/2010	1.664	0	1.664	1.664
		4/21/2010	1.456	0	1.456	1.456
		4/22/2010	0.416	0.208	0.624	0.624
		4/23/2010	0.624	0.416	1.040	1.040
		4/27/2010	0.208	0.208	0.416	0.416
		4/29/2010	1.040	0.208	1.248	1.248
		5/4/2010	0.624	0	0.624	0.624
		5/5/2010	0.208	0	0.208	0.208
		5/6/2010	0.416	0	0.416	0.416
		5/7/2010	0.208	0	0.208	0.208
		5/11/2010	0.416	0	0.416	0.416
		5/12/2010	1.040	0	1.040	1.040
		5/13/2010	0.624	0	0.624	0.624
		5/14/2010	0.624	0	0.624	0.624
		5/18/2010	0.208	0.208	0.416	0.416
		5/19/2010	2.912	0.208	3.120	3.120
		5/20/2010	4.576	0	4.576	4.576
		5/21/2010	0.832	0	0.832	0.832
		5/24/2010	0.208	0	0.208	0.208
		5/25/2010	6.448	0	6.448	6.448
		5/27/2010	0.624	0	0.624	0.624
		6/1/2010	0	0.208	0.208	0.208
		6/3/2010	0.624	0	0.624	0.624
		6/4/2010	4.784	0	4.784	4.784
		6/8/2010	4.784	0	4.784	4.784
		6/9/2010	0.624	0	0.624	0.624
		6/10/2010	1.456	0	1.456	1.456
		6/11/2010	4.576	0	4.576	4.576
		6/15/2010	6.656	0	6.656	6.656
		6/16/2010	0.208	0	0.208	0.208
		6/18/2010	0.416	0	0.416	0.416
		6/22/2010	3.952	0	3.952	3.952
		6/23/2010	2.288	0	2.288	2.288
		6/25/2010	0.832	0	0.832	0.832

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Treatability Group		Shipment Date	FY09 Inventory Volume (m^3)	New Covered Volume (m^3)	Total Removed from Inventory (m^3)	Total Volume Shipped (m^3)
		6/30/2010	4.992	0	4.992	4.992
		7/7/2010	2.912	0	2.912	2.912
		7/8/2010	2.080	0	2.080	2.080
		7/9/2010	2.496	0.208	2.704	2.704
		7/12/2010	3.120	0	3.120	3.12
		7/14/2010	5.200	0	5.200	5.200
		7/21/2010	0.416	0	0.416	0.416
		7/23/2010	1.664	0	1.664	1.664
		7/27/2010	3.120	0	3.120	3.120
		7/29/2010	1.040	0	1.040	1.040
		8/3/2010	1.248	0	1.248	1.248
		8/4/2010	1.248	0	1.248	1.248
		8/6/2010	3.952	0.416	4.368	4.368
		8/9/2010	0.832	0	0.832	0.832
		8/11/2010	1.872	0	1.872	1.872
		8/13/2010	1.040	0	1.040	1.040
		8/16/2010	1.872	0	1.872	1.872
		8/17/2010	1.456	0	1.456	1.456
		8/19/2010	1.664	0	1.664	1.664
		8/20/2010	0.416	0	0.416	0.416
		8/23/2010	0.624	0	0.624	0.624
		8/24/2010	1.664	0	1.664	1.664
		8/25/2010	0.208	0	0.208	0.208
		8/26/2010	0.624	0	0.624	0.624
		8/27/2010	1.040	0	1.040	1.040
		8/30/2010	1.248	0	1.248	1.248
		8/31/2010	0.832	0	0.832	0.832
		9/2/2010	1.248	0.208	1.456	1.456
		9/7/2010	0.832	0	0.832	0.832
		9/8/2010	1.040	0	1.040	1.040
		9/9/2010	1.248	0	1.248	1.248
		9/10/2010	1.040	0	1.040	1.040
		9/13/2010	0.208	0	0.208	0.208
		9/14/2010	0.416	0	0.416	0.416
		9/16/2010	0.832	0	0.832	0.832
		9/20/2010	0.416	0.208	0.624	0.624
		9/21/2010	0.208	0	0.208	0.208
		9/22/2010	0.416	0	0.416	0.416

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Treatability Group		Shipment Date	FY09 Inventory Volume (m^3)	New Covered Volume (m^3)	Total Removed from Inventory (m^3)	Total Volume Shipped (m^3)
		9/23/2010	0.208	0	0.208	0.208
		9/24/2010	0.624	0.208	0.832	0.832
		9/27/2010	2.080	0	2.080	2.080
		9/28/2010	0.416	0	0.416	0.416
		9/29/2010	0.416	0	0.416	0.416
		9/30/2010	1.872	0	1.872	1.872
Combustible Noncombustible Waste Total			**201.592**	**11.0240**	**212.616**	**212.160**
Combustible Waste		10/6/2009	0.416	0	0.416	0.416
		10/7/2009	0.416	0	0.416	0.416
		11/4/2009	0.208	0	0.208	0.208
		1/14/2010	0.208	0	0.208	0.208
		2/11/2010	0.416	0	0.416	0.416
		6/8/2010	0.832	0	0.832	0.832
		8/16/2010	0.208	0	0.208	0.208
		8/27/2010	0.208	0	0.208	0.208
		9/9/2010	0.208	0	0.208	0.208
		9/14/2010	0.208	0	0.208	0.208
	Combustible Waste Total		**3.328**	**0**	**3.328**	**3.328**
Metallic Waste		6/30/2010	0.208	0	0.208	0.208
		8/24/2010	0.208	0	0.208	0.208
		8/27/2010	0.208	0	0.208	0.208
	Metallic Waste		**0.624**	**0**	**0.624**	**0.624**
Noncombustible Waste		10/23/2009	2.912	0	2.912	2.912
		10/26/2009	0.832	0	0.832	0.832
		7/9/2010	1.040	0	1.040	1.040
		7/12/2010	0.624	0	0.624	0.624
		8/6/2010	1.664	0	1.664	1.664
		8/25/2010	1.664	0	1.664	1.664
	Noncombustible Waste		**8.736**	**0**	**8.736**	**8.736**
Solidified Inorganic/Organic Waste		10/23/2009	1.248	0	1.248	1.248
		10/26/2009	0.832	0	0.832	0.832
		11/10/2009	0.208	0	0.208	0.208
		11/16/2009	0.416	0	0.416	0.416
		11/18/2009	0.208	0	0.208	0.208
		11/20/2009	0.624	0	0.624	0.624
		2/9/2010	0.208	0	0.208	0.208
		2/15/2010	0.416	0	0.416	0.416

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Treatability Group		Shipment Date	FY09 Inventory Volume (m^3)	New Covered Volume (m^3)	Total Removed from Inventory (m^3)	Total Volume Shipped (m^3)
		2/17/2010	0.208	0	0.208	0.208
		2/25/2010	0.208	0	0.208	0.208
		2/26/2010	0.208	0	0.208	0.208
		2/28/2010	0.208	0	0.208	0.208
		3/2/2010	0.208	0	0.208	0.208
		3/6/2010	0.208	0.208	0.416	0.416
		4/22/2010	0.208	0	0.208	0.208
		4/23/2010	0.208	0	0.208	0.208
		5/5/2010	0.208	0	0.208	0.208
		5/6/2010	0.624	0	0.624	0.624
		5/14/2010	0.208	0	0.208	0.208
		6/1/2010	0.208	0	0.208	0.208
		6/16/2010	0.208	0	0.208	0.208
		8/13/2010	0.416	0	0.416	0.416
		8/17/2010	0.208	0	0.208	0.208
		8/25/2010	0.208	0	0.208	0.208
		9/9/2010	0.208	0	0.208	0.208
		9/28/2010	0.208	0	0.208	0.208
		9/29/2010	0.208	0	0.208	0.208
Solidified Inorganic/Organic Waste Total			8.736	0.208	8.944	8.944
		Grand Total	308.080	11.232	319.312	304.72

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APPENDIX G. CURRENT YEAR MTRU INVENTORY – ADMINISTRATIVE ADJUSTMENTS

Table G-1: FY~~10~~11 MTRU Administrative Adjustments to TA-54 Inventory

Treatability Group	Administrative Adjustment	Volume (m^3)
Cemented Sludge	Reclassified as MLLW (LA-W935)[1]	~~121.479~~0
	Repacked into ~~37.232~~51.376 m^3 *Combustible-Noncombustible Waste* ~~and 0.208 m^3 *Noncombustible Waste*~~	~~44.080~~68.676
	~~Database correction (containers had been transferred to MLLW in prior years)~~ Database correction (quality control activities resulted in correction of database volumes)	~~0.624~~2.088
	~~Volume changes resulting from removal or addition of overpacks~~	~~2.346~~
	***Cemented Sludge* Net Adjustment**	~~66.588~~ ~~163.200~~
Combustible-Noncombustible Waste	Reclassified as MLLW (LA-W935)[1]	~~10.192~~67.830
	~~Volume change due to removal or addition of overpack~~	~~0.455~~345.490
	Added as a result of recharacterizing TRU inventory as MTRU during repacking	~~64.896~~71.400
	~~Recharacterized as TRU after removal of WIPP prohibited items during repacking~~	~~1.040~~
	Repacked into ~~67.808~~51.448 m^3 *Combustible-Noncombustible Waste* and ~~0.832~~17.888 m^3 *Noncombustible Waste*	~~66.523~~64.378
	Additional covered inventory transferred from TA-55 covered inventory	~~5.908~~3.356
	Added as a result of repacking *Cemented Sludge* waste	~~37.232~~51.376
	Added as a result of repacking *Combustible-Noncombustible Waste*	~~67.808~~51.448
	Added as a result of repacking *Combustible Waste*	~~9.776~~3.952
	~~Added as a result of repacking *Glass Waste*~~	~~0.208~~
	~~Added as a result of repacking *Leaded Glovebox Waste*~~	~~5.616~~
	Added as a result of repacking *Metallic Waste*	~~3.120~~0.416
	Added as a result of repacking *Nonc~~C~~ombustible Waste*	0.416
	Added as a result of repacking *Solidified Inorganic and Organic Waste*	~~5.200~~5.616
	~~Added as a result of accumulating~~ MTRU WIPP-prohibited items ~~during repacking~~reclassified as *Noncombustible Waste*	~~1.040~~ -0.832
	Adjustment for rounding ~~FY10 end-of-year volumes in to 3 decimal places~~	~~2.718~~ -0.001
	Database correction (containers should not have appeared in FY10 end-of-year inventory)	-2.912
	Database correction (quality control activities resulted in recoding waste as MTRU)	3.234
	Database correction (container volumes were validated and database corrections made)	345.490
	***Combustible-Noncombustible* Net Adjustment**	~~126.638~~400.751
Combustible Waste	Reclassified as MLLW (LA-W935)[1]	~~2.704~~0
	Repacked into ~~9.776~~3.952 m^3 *Combustible-Noncombustible Waste* and ~~0.624~~3.952 m^3 *Noncombustible Waste*	~~9.379~~4.824
	Database correction (Quality control activities resulted in recoding waste as MTRU)	6.776
	~~Recharacterized as TRU waste after removal of WIPP prohibited items during repacking~~	~~3.328~~
	~~Database correction (containers should not have appeared in FY09 end-of-year inventory)~~	~~0.416~~
	~~Adjustment for rounding FY10 end-of-year volumes in to 3~~	~~0.002~~

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Treatability Group	Administrative Adjustment	Volume (m^3)
	~~decimal places~~	
	***Combustible Waste* Net Adjustment**	~~-15.825~~1.952
~~*Glass Waste*~~	~~Reclassified as MLLW (LA-W935)[1]~~	~~-0.208~~
	~~Repacked into 0.208 m^3 *Combustible-Noncombustible Waste*~~	~~-0.208~~
	~~Recharacterized as TRU waste after removal of WIPP-prohibited items during repacking~~	~~-0.208~~
	~~***Glass Waste* Net Adjustment~~	~~-0.624~~0
~~*Leaded Glovebox Waste*~~	~~Reclassified as MLLW (LA-W935)[1]~~	~~-0.416~~
	~~Repacked into 5.616 m^3 Combustible-Noncombustible Waste~~	~~-5.616~~
	~~**Leaded Glovebox Waste Net Adjustment**~~	~~**-6.032**~~0
Metallic Waste	Reclassified as MLLW (LA-W935)[1]	~~-3.120~~0
	Repacked into ~~3.120~~0.416 m^3 *Combustible-Noncombustible Waste* and 0.208 m^3 *Noncombustible Waste*	-0.416~~3.139~~
	~~Recharacterized as TRU waste after removal of WIPP-prohibited items during repacking~~	~~-0.416~~
	Database correction (quality control activities resulted in recoding waste as MTRU)	11.278
	Database correction (missing LANL waste code prevented container from being identified as STP waste until database error was corrected in FY11)	0.208
	Database correction (container volumes were validated and database corrections made)	59.368
	***Metallic Waste* Net Adjustment**	~~-6.675~~70.438
Noncombustible Waste	Reclassified as MLLW (LA-W935)[1]	~~0~~9.480
	Repacked into 0.416 m^3 *Combustible-Noncombustible Waste* and ~~0.208~~0.832 m^3 *Noncombustible Waste*	-0.832~~416~~
	~~Recharacterized as TRU waste after removal of WIPP-prohibited items during repacking~~	~~-2.288~~
	~~Added as a result of recharacterizing TRU inventory as MTRU during repacking~~	~~4.576~~
	~~Added as a result of repacking *Cemented Sludge*~~	~~0.208~~
	Added as a result of repacking *Combustible-Noncombustible Waste*	~~0.208~~17.888
	Added as a result of repacking *Noncombustible Waste*	~~0.208~~0.832
	Added as result of repacking *Combustible Waste*	~~0.624~~3.952
	Added as result of repacking *Metallic Waste*	0.208
	Added as result of repacking *Solidified Inorganic and Organic Waste*	3.328
	Added as a result of reclassifying *Combustible-Noncombustible Waste* WIPP-prohibited items to *Noncombustible Waste*	0.832
	Added as a result of accumulating MTRU WIPP-prohibited items	0.832
	Added as a result of recharacterizing TRU inventory as MTRU during repacking	21.216
	~~Adjustment for rounding FY10 end-of-year volumes in to 3 decimal places~~	~~0.003~~
	Database correction (quality control activities resulted in correction of database volumes)	9.130
	Database correction (quality control activities resulted in recoding waste as MTRU)	1.570
	***Noncombustible Waste* Net Adjustment**	~~3.747~~49.476

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Treatability Group	Administrative Adjustment	Volume (m^3)
Solidified Inorganic and Organic Waste	Reclassified as MLLW (LA-W935)[1]	~~-2.288~~0
	Database correction (containers should not have appeared in FY10 end-of-year inventory)	-0.416
	Repacked into 5.~~200~~616 m^3 *Combustible-Noncombustible Waste* and 3.328 m^3 *Noncombustible Waste*	-5.616~~200~~
	Database correction (quality control activities resulted in recoding waste as MTRU)	2.704
	Database correction (container volumes were validated and database corrections made)	~~0.795~~0.550
	~~Volume change due to removal or addition of overpack~~	~~0.795~~
	~~Adjustment for rounding FY10 end-of-year volumes to 3 decimal places~~	~~0.515~~
	***Solidified Inorganic and Organic Waste* Net Adjustment**	~~-2.778 6.178~~
	Total Net TA-54 Adjustment	~~-68.149~~453.251

[1] The MTRU volume removed from the STP inventory was calculated using the MTRU standard conversion (55- gallon container = 0.2080 m^3); when that volume is recalculated in the MLLW inventory using the MLLW conversion (55- gallon container = 0.2082 m^3 and 85- gallon container = 0.3218 m^3), the total volume transferred increases from 140.407 m^3 to 140.5406 m^3 (as shown in Appendix C).

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Table G-2: FY~~10~~11 MTRU Administrative Adjustments for CMR and TA-55 Inventory

Location	Treatability Group	Administrative Adjustment	Volume (m^3)
CMR	*Combustible-Noncombustible Waste*	No changes	~~0.208000~~
		Net Adjustment CMR Inventory	**0**
TA-55	*Combustible-Noncombustible Waste*	~~Waste returned to TA-55 in FY09 was repacked with other STP waste~~	~~-0.208~~
		One container (0.602 m^3) added as a result of recategorizing *Noncombustible Waste*	0.602
		Added due to overpacking waste (1.358 m^3) into Standard Waste Boxes	6.242
		One container (0.208 m^3) was omitted from the FY10 inventory	0.208
		Transferred in FY10 and included in TA-54 FY10 inventory	-1.900
		Transferred to TA-54 and assigned to *Combustible-Noncombustible Waste* in the TA-54 inventory	-3.356
		~~Added due to recategorization of *Combustible Waste* to *Combustible/Noncombustible Waste*~~	~~1.248~~
		~~Added due to recategorization of *Solidified Organic and Inorganic Waste* to *Combustible/Noncombustible Waste*~~	~~0.323~~
		Net Adjustment TA-55 *Combustible-Noncombustible Waste*	**1.796~~1.363~~**
~~TA-55~~	~~*Combustible Waste*~~	~~Recategorized as *Combustible-Noncombustible Waste*~~	~~-1.248~~
		~~**Net Adjustment TA-55 *Combustible Waste***~~	~~**-1.248**~~
~~TA-55~~	~~*Metallic Waste*~~	~~Rounding adjustment~~	~~0.062~~
		~~Volume increase due to overpacking~~	~~1.238~~
		~~Existing waste transferred to TA-54 and recategorized as *Combustible-Noncombustible Waste* in the TA-54 inventory~~	~~-3.800~~
		~~Recategorized as *Noncombustible Waste*~~	~~-2.316~~
		~~**Net adjustment TA-55 *Metallic Waste***~~	~~**-4.816**~~
TA-55	*Noncombustible Waste*	~~Existing waste transferred to TA-54 and assigned to *Combustible-Noncombustible Waste* in the TA-54 inventory~~~~No administrative adjustments~~One container (0.602 m^3) recategorized to *Combustible-Noncombustible Waste*	~~-1.9000~~-0.602
		~~Added due to recategorization of *Metallic Waste* to *Noncombustible Waste*~~	~~2.316~~
		Net Adjustment TA-55 *Noncombustible Waste*	**~~0.416~~ 0.602**

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Location	Treatability Group	Administrative Adjustment	Volume (m^3)
~~TA-55~~	~~*Solid Organic and Inorganic Waste*~~	~~Database correction (container that had been transferred to TA-54 in FY09 has been removed from FY09 inventory)~~	~~-0.208~~
		~~Recategorized as *Combustible-Noncombustible Waste*~~	~~-0.323~~
		~~Rounding adjustment~~	~~0.001~~
		~~**Net Adjustment TA-55 *Solid Organic and Inorganic Waste***~~	~~**-0.530**~~
		Net Adjustment TA-55 Inventory	**1.194**
		Total Net TA-55/CMR Adjustment	**1.194** ~~**4.815**~~

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Table G-3: FY11 MTRU Administrative Adjustments – TA-54 Volume Adjustments

Note: In all cases, database volumes were adjusted in FY11 as a result of routine inspections of containers that identified discrepancies between actual volumes and volumes recorded in the database.

Container ID	Treatability Group	Container Volume Reported in FY10 Update (m^3)	Revised Container Volume for FY11 Update (m^3)	Volume Change (m^3)
54104	*Cemented Sludge*	0.322	0.208	-0.114
S794276	*Cemented Sludge*	0.322	0.416	0.094
S803975	*Cemented Sludge*	0.322	0.208	-0.114
S807070	*Cemented Sludge*	0.322	0.208	-0.114
S810329	*Cemented Sludge*	0.322	0.208	-0.114
S814698	*Cemented Sludge*	0.322	0.208	-0.114
S814802	*Cemented Sludge*	0.322	0.208	-0.114
S822238	*Cemented Sludge*	0.322	0.208	-0.114
S822241	*Cemented Sludge*	0.322	0.208	-0.114
S822259	*Cemented Sludge*	0.208	0.322	0.114
S823747	*Cemented Sludge*	0.322	0.208	-0.114
S823755	*Cemented Sludge*	0.322	0.208	-0.114
S832546	*Cemented Sludge*	0.208	0.322	0.114
S835397	*Cemented Sludge*	0.208	0.322	0.114
S842521	*Cemented Sludge*	0.208	0.322	0.114
S843994	*Cemented Sludge*	0.322	0.208	-0.114
S844677	*Cemented Sludge*	0.322	0.416	0.094
S845027	*Cemented Sludge*	0.208	0.322	0.114
S845086	*Cemented Sludge*	0.322	0.416	0.094
S846050	*Cemented Sludge*	0.208	0.322	0.114
S846683	*Cemented Sludge*	0.322	0.208	-0.114

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Container ID	Treatability Group	Container Volume Reported in FY10 Update (m^3)	Revised Container Volume for FY11 Update (m^3)	Volume Change (m^3)
S846689	*Cemented Sludge*	0.322	0.208	-0.114
S851726	*Cemented Sludge*	0.322	1.900	1.578
S855181	*Cemented Sludge*	0.208	0.322	0.114
S855186	*Cemented Sludge*	0.208	0.322	0.114
S860040	*Cemented Sludge*	0.208	0.322	0.114
S860151	*Cemented Sludge*	0.208	0.322	0.114
S860152	*Cemented Sludge*	0.208	0.322	0.114
S862405	*Cemented Sludge*	0.208	0.322	0.114
S862514	*Cemented Sludge*	0.208	0.322	0.114
S862590	*Cemented Sludge*	0.322	0.208	-0.114
S862994	*Cemented Sludge*	0.208	0.322	0.114
S863942	*Cemented Sludge*	0.322	0.208	-0.114
S864202	*Cemented Sludge*	0.208	0.322	0.114
S864360	*Cemented Sludge*	0.208	0.322	0.114
S864362	*Cemented Sludge*	0.208	0.322	0.114
	Cemented Sludge Total	9.654	11.742	2.088
3440	*Combustible-Noncombustible Waste*	0.000	5.980	5.980
3441	*Combustible-Noncombustible Waste*	0.000	9.760	9.760~~0~~
52300	*Combustible-Noncombustible Waste*	2.320	2.560	0.240~~0~~
52301	*Combustible-Noncombustible Waste*	2.320	2.560~~0~~	0.240~~0~~
52302	*Combustible-Noncombustible Waste*	2.320	2.560~~0~~	0.240~~0~~
52303	*Combustible-Noncombustible Waste*	2.320	2.560~~0~~	0.240~~0~~
52304	*Combustible-Noncombustible Waste*	2.320	2.560~~0~~	0.240~~0~~
52305	*Combustible-Noncombustible Waste*	2.320	2.560~~0~~	0.240~~0~~
52306	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
52307	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
52308	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
53877	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
53878	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
53879	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
53880	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
53881	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
53882	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
53883	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~

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Container ID	Treatability Group	Container Volume Reported in FY10 Update (m^3)	Revised Container Volume for FY11 Update (m^3)	Volume Change (m^3)
53884	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
53885	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
53886	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
53887	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
53888	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
53889	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
53890	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
53891	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
53892	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
53893	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
53894	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
53895	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
53896	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
53897	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
53898	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
53899	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
54200	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
54201	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
54202	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
54203	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
54204	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
54205	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
54206	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
54207	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
54208	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
54209	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
54210	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
54211	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
54212	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
54213	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
54214	*Combustible-Noncombustible Waste*	2.320~~0~~	2.560~~0~~	0.240~~0~~
55119	*Combustible-Noncombustible Waste*	5.692	6.130~~0~~	0.438
55120	*Combustible-Noncombustible Waste*	13.650~~0~~	23.810~~0~~	10.160~~0~~
55123	*Combustible-Noncombustible Waste*	24.553	26.720~~0~~	2.167

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Container ID	Treatability Group	Container Volume Reported in FY10 Update (m^3)	Revised Container Volume for FY11 Update (m^3)	Volume Change (m^3)
55124	*Combustible-Noncombustible Waste*	19.031	19.120~~0~~	0.089
55125	*Combustible-Noncombustible Waste*	8.156	8.850~~0~~	0.694
55300	*Combustible-Noncombustible Waste*	4.758	9.290~~0~~	4.532
55301	*Combustible-Noncombustible Waste*	11.838	10.690~~0~~	-1.148
55304	*Combustible-Noncombustible Waste*	11.101	19.270~~0~~	8.169
55306	*Combustible-Noncombustible Waste*	9.714	11.760~~0~~	2.046
56253	*Combustible-Noncombustible Waste*	15.100~~0~~	16.460~~0~~	1.360~~0~~
56254	*Combustible-Noncombustible Waste*	12.880~~0~~	14.310~~0~~	1.430~~0~~
57399	*Combustible-Noncombustible Waste*	16.740~~0~~	18.710~~0~~	1.970~~0~~
57605	*Combustible-Noncombustible Waste*	1.509	4.850~~0~~	3.341
57606	*Combustible-Noncombustible Waste*	4.434	6.070~~0~~	1.636
57607	*Combustible-Noncombustible Waste*	6.943	6.780~~0~~	-0.163
57610	*Combustible-Noncombustible Waste*	4.810~~0~~	4.870~~0~~	0.060~~0~~
57611	*Combustible-Noncombustible Waste*	6.510~~0~~	8.250~~0~~	1.740~~0~~
58200	*Combustible-Noncombustible Waste*	3.800~~0~~	14.380~~0~~	10.580~~0~~
58201	*Combustible-Noncombustible Waste*	5.600~~0~~	14.170~~0~~	8.570~~0~~
58202	*Combustible-Noncombustible Waste*	5.600~~0~~	14.270~~0~~	8.670~~0~~
58500	*Combustible-Noncombustible Waste*	63.000	64.890	1.890
62189	*Combustible-Noncombustible Waste*	10.860	10.950	0.090
62450	*Combustible-Noncombustible Waste*	7.000	26.650	19.650
62451	*Combustible-Noncombustible Waste*	4.410	5.360	0.950
S791968	*Combustible-Noncombustible Waste*	5.437	5.980	0.543
S792016	*Combustible-Noncombustible Waste*	8.496	10.730	2.234
S792054	*Combustible-Noncombustible Waste*	11.900	12.740	0.840
S792093	*Combustible-Noncombustible Waste*	5.437	5.980	0.543
S792121	*Combustible-Noncombustible Waste*	14.160	24.700	10.540
S792124	*Combustible-Noncombustible Waste*	14.160	23.590	9.430
S792125	*Combustible-Noncombustible Waste*	14.160	15.090	0.930
S792128	*Combustible-Noncombustible Waste*	14.200	23.970	9.770
S792129	*Combustible-Noncombustible Waste*	14.160	12.570	-1.590
S794028	*Combustible-Noncombustible Waste*	25.500	55.970	30.470
S794029	*Combustible-Noncombustible Waste*	16.312	34.250	17.938
S794030	*Combustible-Noncombustible Waste*	18.351	32.260	13.909
S794031	*Combustible-Noncombustible Waste*	16.284	28.500	12.216

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Container ID	Treatability Group	Container Volume Reported in FY10 Update (m^3)	Revised Container Volume for FY11 Update (m^3)	Volume Change (m^3)
S794032	*Combustible-Noncombustible Waste*	18.408	21.200	2.792
S794033	*Combustible-Noncombustible Waste*	18.408	28.500	10.092
S794034	*Combustible-Noncombustible Waste*	16.284	20.390	4.106
S794035	*Combustible-Noncombustible Waste*	18.400	12.570	-5.830
S794036	*Combustible-Noncombustible Waste*	16.312	22.720	6.408
S794037	*Combustible-Noncombustible Waste*	16.312	28.340	12.028
S794064	*Combustible-Noncombustible Waste*	5.400	5.980	0.580
S794070	*Combustible-Noncombustible Waste*	21.750	23.380	1.630
S794075	*Combustible-Noncombustible Waste*	30.900	35.750	4.850
S794124	*Combustible-Noncombustible Waste*	32.600	34.130	1.530
S794125	*Combustible-Noncombustible Waste*	32.600	33.840	1.240
S794126	*Combustible-Noncombustible Waste*	32.600	34.130	1.530
S794128	*Combustible-Noncombustible Waste*	21.750	23.110	1.360
S794152	*Combustible-Noncombustible Waste*	24.468	39.880	15.412
S794154	*Combustible-Noncombustible Waste*	24.468	41.290	16.822
S794155	*Combustible-Noncombustible Waste*	21.750	36.970	15.220
S803219	*Combustible-Noncombustible Waste*	24.468	30.030	5.562
S803221	*Combustible-Noncombustible Waste*	24.468	30.840	6.372
S803222	*Combustible-Noncombustible Waste*	21.750	8.820	-12.930
S803236	*Combustible-Noncombustible Waste*	12.687	21.530	8.843
S803237	*Combustible-Noncombustible Waste*	14.200	12.400	-1.800
S804110	*Combustible-Noncombustible Waste*	1.900	3.410	1.510
S804111	*Combustible-Noncombustible Waste*	0.510	3.410	2.900
S804112	*Combustible-Noncombustible Waste*	0.566	3.410	2.844
S804113	*Combustible-Noncombustible Waste*	0.113	3.410	3.297
S804114	*Combustible-Noncombustible Waste*	0.057	3.410	3.353
S811186	*Combustible-Noncombustible Waste*	3.172	3.330	0.158
S811445	*Combustible-Noncombustible Waste*	3.172	3.410	0.238
S811446	*Combustible-Noncombustible Waste*	3.172	3.410	0.238
S811447	*Combustible-Noncombustible Waste*	3.172	3.410	0.238
S811761	*Combustible-Noncombustible Waste*	3.172	3.410	0.238
S811773	*Combustible-Noncombustible Waste*	11.894	12.400	0.506
S811897	*Combustible-Noncombustible Waste*	3.172	3.410	0.238
S812704	*Combustible-Noncombustible Waste*	3.172	3.410	0.238

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Container ID	Treatability Group	Container Volume Reported in FY10 Update (m^3)	Revised Container Volume for FY11 Update (m^3)	Volume Change (m^3)
S813231	*Combustible-Noncombustible Waste*	11.894	12.400	0.506
S813233	*Combustible-Noncombustible Waste*	3.172	3.670	0.498
S822526	*Combustible-Noncombustible Waste*	3.172	3.410	0.238
S822954	*Combustible-Noncombustible Waste*	3.172	3.410	0.238
S822962	*Combustible-Noncombustible Waste*	3.135	3.100	-0.035
S823000	*Combustible-Noncombustible Waste*	1.133	1.080	-0.053
S851160	*Combustible-Noncombustible Waste*	3.172	3.410	0.238
S851162	*Combustible-Noncombustible Waste*	3.172	3.720	0.548
S851167	*Combustible-Noncombustible Waste*	3.172	3.410	0.238
S851168	*Combustible-Noncombustible Waste*	3.172	3.410	0.238
S851244	*Combustible-Noncombustible Waste*	3.172	3.490	0.318
S851245	*Combustible-Noncombustible Waste*	3.172	3.410	0.238
S851246	*Combustible-Noncombustible Waste*	3.172	3.410	0.238
S852046	*Combustible-Noncombustible Waste*	3.172	3.490	0.318
S852053	*Combustible-Noncombustible Waste*	3.172	3.490	0.318
S860113	*Combustible-Noncombustible Waste*	5.437	5.840	0.403
S860114	*Combustible-Noncombustible Waste*	5.437	5.840	0.403
S862430	*Combustible-Noncombustible Waste*	5.437	5.980	0.543
S865185	*Combustible-Noncombustible Waste*	5.437	5.980	0.543
S865186	*Combustible-Noncombustible Waste*	5.437	5.980	0.543
S865187	*Combustible-Noncombustible Waste*	3.172	3.490	0.318
S865190	*Combustible-Noncombustible Waste*	3.172	3.720	0.548
S865193	*Combustible-Noncombustible Waste*	1.133	1.070	-0.063
S865195	*Combustible-Noncombustible Waste*	1.274	1.760	0.486
S870285	*Combustible-Noncombustible Waste*	5.437	5.840	0.403
S870286	*Combustible-Noncombustible Waste*	5.437	5.980	0.543
S872714	*Combustible-Noncombustible Waste*	5.437	5.840	0.403
S872719	*Combustible-Noncombustible Waste*	5.437	5.840	0.403
S874054	*Combustible-Noncombustible Waste*	5.437	5.840	0.403
	Combustible-Noncombustible Waste Total	1169.860	1515.350	345.490
56039	*Metallic Waste*	8.130	8.200	0.070
56040	*Metallic Waste*	2.100	2.110	0.010
56065	*Metallic Waste*	2.970	3.320	0.350

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Container ID	Treatability Group	Container Volume Reported in FY10 Update (m^3)	Revised Container Volume for FY11 Update (m^3)	Volume Change (m^3)
56066	*Metallic Waste*	10.000	19.050	9.050
S910836	*Metallic Waste*	12.234	24.640	12.406
S910847	*Metallic Waste*	1.444	24.640	23.196
S911769	*Metallic Waste*	0.935	7.040	6.105
S911772	*Metallic Waste*	1.359	9.540	8.181
	Metallic Waste Total	39.172	98.540	59.368
56249	*Noncombustible Waste*	6.950	9.460	2.510
56250	*Noncombustible Waste*	5.290	7.290	2.000
57648	*Noncombustible Waste*	4.320	5.850	1.530
57649	*Noncombustible Waste*	7.730	9.620	1.890
57650	*Noncombustible Waste*	9.850	12.680	2.830
57665	*Noncombustible Waste*	12.330	12.520	0.190
59567	*Noncombustible Waste*	11.300	9.480	-1.820
	Noncombustible Waste Total	57.770	66.900	9.130
53204	*Organic and Inorganic Solids*	0.208	0.322	0.114
53714	*Organic and Inorganic Solids*	0.208	0.322	0.114
53747	*Organic and Inorganic Solids*	0.208	0.322	0.114
53765	*Organic and Inorganic Solids*	0.208	0.322	0.114
53792	*Organic and Inorganic Solids*	0.208	0.416	0.208
56743	*Organic and Inorganic Solids*	0.322	0.208	-0.114
	Organic and Inorganic Solids Total	1.362	1.912	0.550
	Grand Total	1277.818	1694.444	416.626

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Table G-~~3~~4: FY11 MTRU Administrative Adjustments – TA-54 Containers Added

Note: With the exception of Container 62456, all cases reflect the addition of a single EPA code to non-mixed TRU containers that had been historically managed as non-mixed TRU waste. These EPA codes were applied based on direct inspection of the containers during routine operations and during preparation for shipping and represent the determination that lead or pressurized containers (aerosol cans) were present.

Container 62456 was historically managed as MTRU waste but had been omitted from previous STP inventories because a missing LANL waste code prevented the container from being identified as STP waste until that database error was corrected in FY11.

Container ID	*Treatability Group*	Container Volume Added to STP (m^3)	Accumulation Start Date	Current Location	EPA Codes Currently Assigned
57671	*Combustible-Noncombustible Waste*	0.208	10/29/2007	WIPP	D008

Container ID	*Treatability Group*	Container Volume Added to STP (m^3)	Accumulation Start Date	Current Location	EPA Codes Currently Assigned
58196	*Combustible-Noncombustible Waste*	0.208	4/27/2000	WIPP	D008
59290	*Combustible-Noncombustible Waste*	0.208	1/5/1999	WIPP	D008
61034	*Combustible-Noncombustible Waste*	0.208	9/25/1997	WIPP	D008
61797	*Combustible-Noncombustible Waste*	0.208	10/22/2003	WIPP	D008
61798	*Combustible-Noncombustible Waste*	0.208	10/22/2003	WIPP	D008
84755	*Combustible-Noncombustible Waste*	0.208	9/17/1980	WIPP	D008
85030	*Combustible-Noncombustible Waste*	0.208	9/3/1993	WIPP	D008
86428	*Combustible-Noncombustible Waste*	0.208	9/23/1984	WCCRF	D003
86544	*Combustible-Noncombustible Waste*	0.322	11/9/1982	WCCRF	D008
86661	*Combustible-Noncombustible Waste*	0.208	5/13/1985	WCCRF/ REPACK	D008
S802610	*Combustible-Noncombustible Waste*	0.208	2/14/1980	WCCRF/ REPACK	D008
S813884	*Combustible-Noncombustible Waste*	0.208	9/28/1981	WCCRF /REPACK	D003
S842562	*Combustible-Noncombustible Waste*	0.208	3/12/1984	WCCRF/ REPACK	D003
S855283	*Combustible-Noncombustible Waste*	0.208	10/9/1985	WCCRF/ REPACK	D003
	Combustible-Noncombustible Waste Total	3.234			
55868	*Combustible Waste*	0.208	4/21/1995	WCCRF/ REPACK	D008
56503	*Combustible Waste*	0.208	8/31/1993	WIPP	D008
56505	*Combustible Waste*	0.208	8/31/1993	WIPP	D008
57189	*Combustible Waste*	0.208	2/3/1999	WIPP	D008
59277	*Combustible Waste*	0.208	12/21/1994	WIPP	D008
S813519	*Combustible Waste*	0.322	2/9/1981	Dome 33	D003
S814872	*Combustible Waste*	0.322	1/5/1981	Dome 229	D008
S814921	*Combustible Waste*	0.322	1/5/1981	Dome 283	D003
S818344	*Combustible Waste*	0.208	11/30/1981	Dome 283	D008
S823081	*Combustible Waste*	0.208	5/17/1982	WCCRF/ REPACK	D008
S824433	*Combustible Waste*	0.208	9/1/1982	WCCRF/ REPACK	D008
S824441	*Combustible Waste*	0.208	9/1/1982	WCCRF/ REPACK	D008
S824498	*Combustible Waste*	0.322	8/31/1982	Dome 229	D003

Container ID	*Treatability Group*	Container Volume Added to STP (m^3)	Accumulation Start Date	Current Location	EPA Codes Currently Assigned
S824699	*Combustible Waste*	0.322	12/28/1982	Dome 229	D008
S833020	*Combustible Waste*	0.208	4/12/1983	WIPP	D008
S843527	*Combustible Waste*	0.208	10/31/1984	WCCRF/ REPACK	D003
S844335	*Combustible Waste*	0.208	5/9/1984	WIPP	D008
S845317	*Combustible Waste*	0.208	10/31/1984	WCCRF/ REPACK	D008
S846669	*Combustible Waste*	0.322	12/18/1984	WCCRF/ EPACK	D008
S851708	*Combustible Waste*	0.322	2/10/1985	WCCRF/ REPACK	D008
S851711	*Combustible Waste*	0.322	2/11/1985	WCCRF/ REPACK	D008
S852015	*Combustible Waste*	0.322	8/20/1985	Dome 233	D008
S852019	*Combustible Waste*	0.322	8/20/1985	Dome 229	D008
S861390	*Combustible Waste*	0.208	7/7/1986	D0049 READY TO SHIP	D008
S862515	*Combustible Waste*	0.322	5/12/1986	WCCRF/ REPACK	D008
S902112	*Combustible Waste*	0.322	10/24/1989	Dome 229	D008
	Combustible Waste Total	6.776			
54841	*Metallic Waste*	0.208	10/30/1992	Dome 229	D008
55873	*Metallic Waste*	0.208	5/16/1995	Dome 229	D008
56262	*Metallic Waste*	0.208	10/16/1996	Dome 229	D008
56619	*Metallic Waste*	0.208	7/16/1997	Dome 375	
62456	*Metallic Waste*	8.97	10/17/2003	Boxes - Pad 10	D004 – D011 D018-D019 D021, D022 D035 D038 - D040 F001 - F003 F005
S810689	*Metallic Waste*	0.208	11/3/1981	Dome 49 - ready to ship	D008
S825713	*Metallic Waste*	0.322	12/28/1982	Dome 229	D008
S842490	*Metallic Waste*	0.208	3/12/1984	TA-50 WCRRF - Repack	D008

Container ID	*Treatability Group*	Container Volume Added to STP (m^3)	Accumulation Start Date	Current Location	EPA Codes Currently Assigned
S846070	*Metallic Waste*	0.208	12/18/1984	TA-50 WCRRF - Repack	D003
S851430	*Metallic Waste*	0.322	2/11/1985	Dome 232	D008
S864195	*Metallic Waste*	0.208	9/30/1986	Dome 49 Staging - SWB Overpack	D008
S870236	*Metallic Waste*	0.208	4/13/1987	WIPP	D008
	Metallic Waste Total	11.486			
59204	*Noncombustible Waste*	0.208	10/21/2001	WIPP	D008
87066	*Noncombustible Waste*	0.208	12/29/1982	WIPP	D008
S802997	*Noncombustible Waste*	0.322	7/27/1980	Dome 229	D008
S814870	*Noncombustible Waste*	0.208	1/5/1981	TA-50 WCRRF - Repack	D008
S830719	*Noncombustible Waste*	0.208	1/25/1983	Dome 229	D008
S855279	*Noncombustible Waste*	0.208	10/9/1985	TA-50 WCRRF - Repack	D008
S864259	*Noncombustible Waste*	0.208	9/30/1986	Dome 283	D008
	Noncombustible Waste Total	1.57			
55317	*Organic and Inorganic Solids*	0.208	10/18/1994	WIPP	D008
56889	*Organic and Inorganic Solids*	0.208	5/13/1998	TA-50 WCRRF - Repack	D008
57335	*Organic and Inorganic Solids*	0.208	11/11/1998	Dome 232	D008
57381	*Organic and Inorganic Solids*	0.208	6/20/2002	Dome 229	D008
57617	*Organic and Inorganic Solids*	0.208	7/26/2002	Dome 229	D008
57620	*Organic and Inorganic Solids*	0.208	8/16/2002	Dome 229	D008
57623	*Organic and Inorganic Solids*	0.208	2/28/2003	Dome 229	D008
61804	*Organic and Inorganic Solids*	0.208	10/29/2003	Dome 283	D008
61846	*Organic and Inorganic Solids*	0.208	4/20/2006	Dome 49 - ready to ship	D008
61851	*Organic and Inorganic Solids*	0.208	5/15/2006	Dome 229	D008
62646	*Organic and Inorganic Solids*	0.208	3/30/2004	Dome 49 Staging - SWB Overpack	D008

Container ID	*Treatability Group*	Container Volume Added to STP (m^3)	Accumulation Start Date	Current Location	EPA Codes Currently Assigned
S824659	*Organic and Inorganic Solids*	0.208	11/3/1982	TA-50 WCRRF - Repack	D008
S832420	*Organic and Inorganic Solids*	0.208	3/1/1983	Dome 48	D008
	Organic and Inorganic Solids Total	2.704			
	Grand Total	25.77			

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APPENDIX H. MLLW TREATMENT FACILITIES

Table H-1: Commercial Facilities Contacted for Waste Treatment Capabilities

Commercial Facility	Location
Perma-Fix (including Material & Energy Corporation in Tennessee (TN); Diversified Scientific Services, Inc. in TN; and Perma-Fix North West in Washington)	Florida
Waste Control Specialists	Texas
EnergySolutions of Utah (including Bear Creek Operations in TN)	Utah
Nuclear Fuel Services	Tennessee
Integrated Environmental Services	Tennessee
NSSI	Texas

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APPENDIX I. CORRESPONDENCE

~~There were no expedited shipment letters in FY10.~~

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Table I-1: Expedited Shipment Letters

~~[Table omitted]~~

Request for Expedited Shipment Letter Date	STP Section	MWIR* Waste ID	Treatability Group	Volume Proposed to be Shipped (m^3)	Reference
5/31/2011	3.1.5	LA-W922	*Noncombustible Debris*	1.3027	ENV-ES-11-109
5/20/2011	3.3.4	LA-W935	*10–100nCi/g Waste*	10.6028	ENV-ES-11-101

*MWIR is Mixed Waste Inventory Report

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Table I-2: Correspondence

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Letter Date	Description	Letter Number	Revision Reference	Listed in Revision 20 21.0 (Appendix I)
~~10/1/2009~~	~~Notice of Completion of Offsite Waste Shipment Activity 3.3.4~~	~~ENV-RRO-09-068~~	~~20~~	~~Yes~~
~~10/9/2009~~	~~Response to NMED Notice of Disapproval of FY08 Annual Update~~	~~ENV-RRO-09-069~~	~~19~~	~~Yes~~
~~10/19/2009~~	~~Notice of Completion of Offsite Waste Shipment Activity 3.3.4~~	~~ENV-RRO-09-072~~	~~20~~	~~Yes~~
~~10/19/2009~~	~~Notice of Completion of Offsite Waste Shipment Activity 3.3.4~~	~~ENV-RRO-09-073~~	~~20~~	~~Yes~~
~~10/22/2009~~	~~Notice of Completion of Offsite Waste Shipment Activity 3.2~~	~~ENV-RRO-09-075~~	~~20~~	~~Yes~~
~~10/22/2009~~	~~Notice of Completion of Offsite Waste Shipment Activity 3.2~~	~~ENV-RRO-09-076~~	~~20~~	~~Yes~~
~~10/26/2009~~	~~Notice of Completion of Offsite Waste Shipment Activities 3.1.8 and 3.1.9~~	~~ENV-RRO-09-074~~	~~20~~	~~Yes~~
~~11/6/2009~~	~~Notice of Completion of Offsite Waste Shipment Activity 3.2(K)~~	~~ENV-RRO-09-080~~	~~20~~	~~Yes~~
~~11/9/2009~~	~~Notice of Completion of Offsite Waste Shipment Activity 3.3.4~~	~~ENV-RRO-09-079~~	~~20~~	~~Yes~~
~~11/9/2009~~	~~Notice of Completion of Offsite Waste Shipment Activity 3.2(K)~~	~~ENV-RRO-09-082~~	~~20~~	~~Yes~~
~~11/10/2009~~	~~Notice of Completion of Offsite Waste Shipment Activity 4.0, FY09 Q4~~	~~ENV-RRO-09-078~~	~~20~~	~~Yes~~
~~12/14/2009~~	~~Notice of Completion of Offsite Waste Shipment Activity 3.3.4~~	~~ENV-RRO-09-085~~	~~21~~	~~No~~
~~12/22/2009~~	~~Notice of Completion of Offsite Waste Shipment Activity 3.3.4~~	~~ENV-RRO-09-087~~	~~21~~	~~No~~

Letter Date	Description	Letter Number	Revision Reference	Listed in Revision 20 21.0 (Appendix I)
1/8/2010	Notice of Completion of Offsite Waste Shipment Activity 3.3.4	ENV-RRO-10-002	21	No
2/4/2010	Correction of Information in Notices of Completion Activity 3.3.4 (ENV-RRO-09-073, 09-072, 09-059)	ENV-RRO-10-008	20	Yes
2/5/2010	Notice of Completion of Offsite Waste Shipment Activity 4.0, FY10 Q1	ENV-RRO-10-007	21	No
2/18/2010	Notice of Completion of Offsite Waste Shipment Activity 3.2(K)	ENV-RRO-10-011	21	No
3/18/2010	Proposed Extension of Compliance Dates for Activity 3.2(J), FY09 Annual Update, Rev 20	ENV-RRO-10-014	20	Yes
3/31/2010	Submittal of FY09 Annual Update, Rev 20	ENV-RRO-10-015	20	Yes
4/2/2010	Correction of Information in Notices of Completion Activity 3.3.4 (ENV-RRO-09-013, 09-031, 09-059) and Activity 4.0 (RRO-09-011R)	ENV-RRO-10-016	19	Yes
4/8/2010	Summary of Correspondence with Offsite TSDFs	ENV-RRO-10-017	20	Yes
4/16/2010	Notice of Completion of Offsite Waste Shipment Activity 3.3.4	ENV-RRO-10-019	21	No
4/16/2010	Notice of Completion of Offsite Waste Shipment Activity 3.2(K)	ENV-RRO-10-020	21	No
4/20/2010	Notice of Completion of Offsite Waste Shipment Activity 4.0, FY10 Q2	ENV-RRO-10-021	21	No
6/25/2010	Clarification and Correction of Offsite Waste Shipment Notifications, FY09 Q1 (ENV-RRO-011R) and Q2 (ENV-RRO-09-033)	ENV-ES-10-119	20	Yes
6/30/2010	Response to June 3, 2010, Notice of Disapproval of the STP FY09 Update, Rev 20 and Correction to Letter ENV-RRO-09-080	ENV-ES-10-126	20	Yes
8/2/2010	Notice of Completion of Offsite Waste Shipment Activity 4.0, FY10 Q3	ENV-ES-10-142	21	No
11/2/2010	Notice of Completion of Offsite Waste Shipment Activity 4.0, FY10 Q4	ENV-ES-10-213	21	No
11/2/2010	Notice of Completion of Offsite Waste Shipment Activity 3.14 (A and B)	ENV-ES-10-214	21	No

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Letter Date	Description	Letter Number	Revision Reference	Listed in Revision 20 21.0 (Appendix I)
3/10/2011	Correction of Offsite Waste Shipment Notifications, Activity 4.0, FY10 Q1 (ENV-RRO-10-007) and FY10 Q3 (ENV-ES-10-142)	ENV-ES-11-037	21	No
3/31/2011	Submittal of FY10 STP Annual Update, Revision 21	ENV-ES-11-0063	21	No
6/10/2011	Resubmittal of STP FY10 Update and Proposed Revision 21	ENV-ES-11-0134	21	No
10/7/2011	Response to September 21, 2011 Notice of Disapproval of the STP FT10 Update and Rev 21.0 Proposal	ENV-ES-11-0222	21	No
10/7/2011	Response to September 21, 2011 Notice of Disapproval of the STP FY10 Update and Rev 21.0 Proposal	ENV-ES-11-0222	21.0	Yes
11/2/2010	Notice of Completion of Off-Site Waste Shipment Activity and Completion of Milestone 3.1.4 (A and B)	ENV-ES-10-214	21.0	Yes
11/2/2010	Notice of Completion of Off-Site Waste Shipment Activity 4.0, FY 10 Q4	ENV-ES-10-213	21.0	Yes
2/1/2011	Notice of Completion of Off-Site Waste Shipment Activity 4.0, FY 11 Q1	ENV-ES-11-024	22.0	No
3/10/2011	Correction of Offsite Waste Shipment Notifications, Activity 4.0, FY10 Q1 (ENV-RRO-10-007) and FY10 Q3 (ENV-ES-10-142)	ENV-ES-11-037	21.0	Yes
3/31/2011	Submittal of FY10 STP Annual Update and Revision 22.0 Proposal	ENV-ES-11-0063	21.0	Yes
5/8/2011	Notice of Completion of Off-Site Waste Shipment Activity 4.0, FY-11 Q2	ENV-ES-11-004	22.0	No
5/20/2011	Notice of Completion of Off-Site Waste Shipment Activity 3.3.4	ENV-ES-11-101	22.0	No
5/31/2011	Notice of Completion of Expedited Waste Shipment Activities 3.1.5	ENV-ES-11-109	22.0	No
6/10/2011	Resubmittal of FY10 STP Annual Report (Revision 1) and Proposed Revision 21.0	ENV-ES-11-0134	21.0	Yes
7/25/2011	Notice of Completion of Off-Site Waste Shipment Activity 3.3.4	ENV-ES-11-0153	22.0	No
7/28/2011	Notice of Completion of Off-Site Waste Shipment Activity 4.0, FY-11 Q3	ENV-ES-11-0168	22.0	No

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Letter Date	Description	Letter Number	Revision Reference	Listed in Revision ~~20~~ 21.0 (Appendix I)
7/28/2011	Correction of Notice of Completion of Off-Site Waste Shipment Activity 4.0, FY-11 Q2	ENV-ES-11-0169	22.0	No
9/30/2011	Notice of Completion of Off-Site Waste Shipment Activity 3.2	ENV-ES-11-0210	22.0	No
10/17/2011	Response to the 9/21/2011 Notice of Disapproval of the FY10 STP Annual Report and Proposed Revision 21.0	ENV-ES-11-0222	21.0	Yes
10/28/2011	Notice of Completion of Off-Site Waste Shipment Activity 3.3.4	ENV-ES-11-0234	22.0	No
11/5/2011	Notice of Completion of Off-Site Waste Shipment Activity 4.0, FY-11 Q3	ENV-ES-11-0257	22.0	No
12/9/2011	Notice of Completion of Off-Site Waste Shipment Activity 3.1.8	ENV-ES-11-0285	22.0	No
3/30/2012	Submittal of FY11 STP Annual Report and Proposed Revision 22.0	ENV-ES-12-0059	22.0	No
9/11/2012	Correction of Table 3.2-2, FY11 Annual Report, STP	ENV-ES-12-0217	22.0	No
10/22/2012	Response to the 9/18/2012 Notice of Disapproval of the FY11 STP Annual Report and Proposed Revision 22.0	WM-DQ-12-0002	22.0	No

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APPENDIX J. HISTORY OF CHANGES TO THE CP AND FFCO

As discussed in Part III (CP), Section 1.2, the STP CP has been modified several times since it was originally issued, in accordance with the provisions of Section X, "*Revisions,*" and Section XI, "*Other Amendments to the STP,*" of the October 4, 1995, FFCO, as amended and revised. This Appendix provides a summary of these CP changes and of modifications to the FFCO since its issuance.

To date, there have been 20 revisions and three amendments to the CP. ~~-~~In addition, the FFCO was amended once~~,~~ on May 20, 1997. ~~-~~The following Table J-1 provides a summary of these changes. ~~-~~More detailed descriptions can be found in the CP Update portion of each year's STP *Annual Update~~,~~* and the original correspondence requesting each change.

Table J-1: Summary of Changes to the CP and the FFCO

Action	Document Modified	Effective Date	Effect on FFCO/STP
Rev. 1.0	STP/CP	6/12/96	Added offsite treatment as a parallel preferred option for most MLLW treatability groups.
Rev. 2.0	STP/CP	12/9/96	Reduced volume of LA-W928 by approving reclassification of sludges as LLW.
Amendment 1.0	STP/CP	10/30/96	Divided original volume of LA-W929 into three subgroups, and added new Activities and Compliance Dates.
Rev. 3.0	STP/CP	1/27/97	Divided original volume of LA-W929 into three subgroups, and added new Activities and Compliance Dates.
Amendment 1.0	FFCO	5/20/97	Modified FFCO Sections IV, V, IX, and X to streamline waste transfers and deletions.
Amendment 2.0	STP/CP	9/4/97	Extended CP Activity 3.1.2B Compliance Date to 12/29/97.
Rev. 4.0	STP/CP	12/29/97	Transferred original volume of LA-W929 from three subgroups to other treatability groups, added treatability groups, and deleted treated items.
Rev. 5.0	STP/CP	12/29/97	Added volumes reported in FY95 and FY96 *Annual Updates* (and certain other items) to several treatability groups, added Activities and Compliance Dates, added CP Appendices, and deleted treated items.
Rev. 6.0	STP/CP	7/31/98	Added volumes reported in FY97 *Annual Update* to several treatability groups, added certain Activities and Compliance Dates, adjusted several original inventory volumes, transferred one LA-W929 item to a new treatability group, and deleted treated items.
Rev. 7.0	STP/CP	11/30/98	Removed onsite treatment skids, added STP inventory items, added onsite recycling/re-use and radiological decontamination, added notification for offsite treatability studies.~~,~~
Rev. 8.0	STP/CP	12/3/98	Extended compliance dates for treatment of MTRU waste.
Rev. 9.0	STP/CP	6/7/00	Added and deleted volumes reported in FY98 *Annual Update* to certain treatability groups.

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Action	Document Modified	Effective Date	Effect on FFCO/STP
Amendment 3.0	STP/CP	8/30/99	Transferred three items to MTRU, transferred one item to subgroup within same treatability group.
Rev. 10.0	STP/CP	12/18/00	Added and deleted volumes reported in FY99 *Annual Update* to certain treatability groups.
Rev. 11.0	STP/CP	4/18/01	Added and deleted volumes reported in FY00 *Annual Update*.
Rev. 12.0	STP/CP	3/13/02	Added and deleted volumes reported in FY01 *Annual Update*. Extended CP Activity 3.1.5A Compliance Date to 8/25/03. Extended CP Activity 3.1.11A to 2/01/04. Removed the requirement to develop treatment technologies and the associated compliance schedule in CP Activity 4.0 and added language specifying that MTRU waste would be shipped offsite to WIPP for disposal.
Rev 13.0	STP/CP	7/14/03	Added and deleted volumes reported in FY02 *Annual Update*.
Rev 14.0	STP/CP	1/5/05	Added and deleted volumes reported in FY03 *Annual Update*.
Rev 15.0	STP/CP	8/16/05	Added and deleted volumes reported in FY04 *Annual Update*.
Rev 16.0	STP/CP	12/12/06	Added and deleted volumes reported in FY05 *Annual Update*. Extended CP Activity 3.1.8(A) Compliance Date to 8/09/07. Extended CP Activity 3.1.9(A) Compliance Date to 8/09/07. Extended CP Activity 3.1.10(A) Compliance Date to 8/31/07. Extended CP Activity 3.1.11(A) Compliance Date to 12/31/07. Extended CP Activity 3.2(J) Compliance Date to 12/31/07. Reclassified 0.2082 m^3 of LA-W934 High Activity MLLW waste to MTRU waste.
Rev 17.0	STP/CP	6/26/2008	Added and deleted volumes reported in FY06 *Annual Update*. Extended CP Activity 3.1.5(A) Compliance Date to 12/31/08. Extended CPV Activity 3.1.8(A) Compliance Date to 8/28/08. Extended CP Activity 3.1.9(A) Compliance Date to 8/28/08. Extended CP Activity 3.2(J) Compliance Date to 12/31/08.
Rev 18.0	STP/CP	1/9/2009	Added and deleted volumes reported in FY07 *Annual Update*. Extended CP Activity 3.1.8(A) Compliance Date to 8/28/09. Extended CP Activity 3.1.9(A) Compliance Date to 8/28/09. Proposed a new Section 3.3.4 for Treatability Group, LA-W935- "*10 100 nCi/g Waste*" with new CP Activity 3.3.4 (A) Compliance Date 12/01/13 and CP Activity 3.3.4 (B) Compliance Date 12/31/13. Extended CP Activity 3.2(J) Compliance Date to 12/31/10.

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Action	Document Modified	Effective Date	Effect on FFCO/STP
Rev 19.0	STP/CP	2/5/~~20~~10	Added and deleted volumes reported in FY08 Annual Update. ~~-~~Extended compliance date for CP Activities 3.1.8(A) and 3.1.9(A) to 8/28/12.~~;~~ Proposed a new milestone of 12/31/2010 for 3.1.4(A) and a new milestone 3.3.4(C) for *10~~--~~100 nCi/g Waste*.
Rev 20.0	STP/CP	11/8/~~20~~10	Added and deleted volumes reported in FY09 Annual Update. ~~-~~Proposed an extended compliance date for CP Activity 3.2(J).
Rev 21.0	STP/CP	3/21/12~~TBD~~	Added and deleted volumes reported in FY10 Annual Update. ~~-~~Proposed new compliance date for CP Activity 3.1.8(A).
Rev 22.0	STP/CP	TBD~~TBD~~	Added and deleted volumes reported in FY11 Annual Update.

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REFERENCES

1. *Federal Facility Compliance Order (Los Alamos National Laboratory)*, New Mexico Environment Department (October 4, 1995).
2. Congress, 1996. Text of Public Law 104-201, Congressional Record dated September 23, 1996, Amendment to Public Law 102-579, 1992 *Waste Isolation Pilot Plant Land Withdrawal Act (106 Stat. 4777)*.
3. 40 CFR Part 194, Criteria for the Certification of the Waste Isolation Pilot Plant's Compliance with the 40 CFR Part 191 Disposal Regulations: Certification Decision; Proposed Rule (Federal Register V.62, No. 210, Oct. 30, 1997, pp. 58792–58838).

Mr. Timothy Hall, STP Manager
WM-DO-12-0002

Enclosure 3

Title Acceptable Knowledge Documentation
Document # WM-DO-12-0002
LA-UR # 12-25193
Barcode # N/A
Date: OCT 17 2012

NON-CERTIFIABLE WASTE

117B

LA00000054841

CERTIFIED WASTE STORAGE RECORD

Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

I. GENERATOR'S PACKAGE INFORMATION

ORIGIN OF WASTE	ADDITIONAL INFORMATION
Group NMT-2	TID Sol # B18953 12-16-92
TA 35	
Building 0284	Pongi: swipe alpha NDA Lab 139 # 3581
Program Code K567	

CODE	CONTAINER	INTERNAL SHIELDING		RADIONUCLIDE CONTENT				Q-CURIE R-DATA
		Type	Thickness (in.)	Nuclide	Amount	%	Uncertainty	%
01	☒ Steel Drum (55 gal.)	☒ None		Pu 239	1.8E-12	E	1.8E-12	E
02	☐ Steel Overpack (Drums)	☐ Lead				E		E
04	☐ Steel Overpack (TRP Box)	☐ Steel				E		E
06	☐ Standard Waste Box	☐ Concrete				E		E
	☐ Other (Describe)	☐ Other				E		E

Process Safety Code	WA
Gross Wt. (lb)	43.4 E+2
Organic Matl. Wt. (lb)	6.6 E+1
Organic Matl. Vol. (%)	1.0
Content Code	0015
Date Closed (MMDDYY)	10/30/92

HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)
NONE		

The data in this section were collected, and the waste described herein was packaged and labeled according to the procedures defined in the Los Alamos TRU Waste Certification Plan and its appropriate attachment(s). The data are correct and complete to the best of my knowledge.

Printed Name	Signature	Date
Mike R Martinez	Mike R Martinez	11/04/92

II. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	2.0 E+0	Survey Meter Model	Rose	Property No. 2637
Neutron Dose Rate (mrem/h)	0.5 E+0	Survey Meter Model	PNR-4	Property No. 5214
Total Dose Rate (mrem/h)	2.5 E+0	*The data in this section were collected as prescribed in approved procedures.*		
Alpha Contamination (dpm/100cm²)	0.0 E+0	Printed Name	Billy Nix	Date 12-1-92
Beta-Gamma Cont. (dpm/100cm²)	0.0 E+0	Signature	Billy Nix	

III. HSE-7 AUTHORIZATION

The data package for this waste has been reviewed by HSE-7. The generator is authorized to arrange transportation to TA-54 per AR 10-5.	Printed Name BRUCE LE BRUN	Date 12/10/92
	Signature Bruce Le Brun	

IV. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	0.1 E+0	Survey Meter Model	RO-3C	Property No. 2667
Neutron Dose Rate (mrem/h)	0.0 E+0	Survey Meter Model	ESP-2	Property No. 6105
Total Dose Rate (mrem/h)	0.1 E+0	*The data in this section were collected as prescribed in approved procedures.*		
Alpha Contamination (dpm/100cm²)	0.0 E+0	Printed Name	Byron Denny	Date 12/23/92
Beta-Gamma Cont. (dpm/100cm²)	0.0 E+0	Signature	Byron Denny	

V. STORAGE SITE INFORMATION

Received by Rick Martinez	Date received 12-23-92	Pad No. 3	Layer 3	Row No. 9	Box No. 7
This package was visually inspected and found to be properly labeled and in good condition. It was accepted according to approved procedures.		Position (Pit) 99	Date Stacked 1-16-93		
		This waste package was stored at this location according to approved procedures			
Printed Name Rick Martinez	Date 12-23-92	Printed Name Charlotte Fernandez		Date 1-22-93	
Signature Rick Martinez		Signature Charlotte Fernandez			

VI. HSE-7 REVIEW

The data entered in Sections IV and V have been reviewed according to approved procedures.	Printed Name BRUCE LE BRUN	Date 1/27/93
	Signature Bruce Le Brun	

VII. CERTIFICATION STATEMENT

I certify that the above-described waste package has been prepared, packaged, and documented according to an approved TRU Waste Certification Plan and does, to the best of my knowledge , comply with the TRU Waste Acceptance Criteria as defined in the current approved issue of WIPP-DOE-069, "TRU Waste Acceptance Criteria for the Waste Isolation Pilot Plant."

Printed Name	Signature	Date

HS Form Number 10-5A (11/88)

C 1-31-93

REC. DATE
KW 1/6/93
LW 2-4-93
IV, V

PACKAGING CONDITION INSPECTION

LA00000054841

Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

I. GENERATOR'S PRE-USE VISUAL INSPECTION

Drum Lot Code	W	**Inspection Items**	**Initials**
Year Of Mfgr.	92	Ring, Bolt, & Nut	
Box Serial No.		Lid & Gasket	
Comments:		Chime	
		Dents	
		Gouges	
		Paint	

This container has been visually inspected and has been found to be free of damage that would make it unsuitable for TRU waste packaging.

Name	Signature	Date
MIKE R. MARTINEZ		09/12/92

II. DRIVER'S VISUAL INSPECTION

Inspection Items	Initials
Filter	
Labels	
Damage	
Closure Ring	
TID Seal No.	

This waste package was visually inspected at time of pickup as required by approved procedures, and was found to be free of obvious damage or defects.

Comments

Name	Signature	Date

III. TA-54 INSPECTION

Weight (lbs.)	*This waste package was visually inspected for handling damage before shipping, and, if the package is a drum, the closure ring bolt was tightened as required by approved procedures.*
TID Seal No.	
Comments:	

Name	Signature	Date

HS Form Number 10-5C (11/88)

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
54841

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA Code added based on Characterization Information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
DAVIS CHRISTENSEN		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/10/11

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000055317

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Drum Lot Code	F	Inspected Items	
Year of Manufacture	94	☒ Ring, Bolt, and Nut	☒ Chime	☒ Dents
Box Serial Number		☒ Lid and Gasket	☒ Gouges	☒ Paint
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.		Printed Name: Steven Griego	Date: 10/18/94
		Signature: Steven Griego	Normal As per conversation with generator DJH 6-20-95

2. GENERATOR'S PACKAGE INFORMATION

Group: NMT-7	Technical Area: TA-55	Building: PF-4	Program Code: KB12 5000
Normal ☒ Yes ☐ No			

Additional Information:

Lead Shielding 39.0 Kg. TID# B20917

Rough swipe alpha d.p.m. Lanthanum-139 # 7626

CODE	CONTAINER	INTERNAL SHIELDING	
		Type	Thickness (in.)
94	☒ Steel Drum (55 gal.)	☐ None	
82	☐ Standard Waste Box		
83	☐ Other (Def. TWCC)	LEAD	6.2E-12
84	☐ RH Canister		.E

Waste Profile Required Number: 1102

Carbon Filter ID: 21515

Process Batch Code: N/A

Gross Weight (lb.): 18.016E-12

Organic Material Wt. (lb.): 1.718E-17

Organic Material Volume (%): 10

TRUCON Code: 1141A

Date Closed (MM/DD/YY): 10/21/94

RADIONUCLIDE CONTENT

Material Type: ☒ Fee ☐ Tec — 5 | 14 | 17

Nuclide	Amount		Uncertainty		Ca Curie Ma Gram
Pu-238	5.911E-12	E	2.761E-13	E	C
Pu-239	3.916E-11	E	1.918E-12	E	C
Pu-240	1.912E-11	E	9.611E-13	E	C
Pu-241	6.612E-10	E	3.315E-11	E	C
Pu-242	5.716E-15	E	2.856E-16	E	C
U-234	6.218E-13	E	8.314E-16	E	C
U-235	2.518E-14	E	3.431E-17	E	C
U-238	7.617E-13	E	1.015E-15	E	C

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)
		.E
		.E
		.E
		.E

The data in this section were collected, and the waste described herein was packaged according to approved procedures.

Printed Name: Chester A. Smith Jr. Signature: Chester A. Smith Jr. Date: 05-03-95

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	10.4E+10	Survey Meter Model: RO-3C	Property Number: 2607	Calibration Void Date: 4/31/95
Neutron Dose Rate (mrem/h)	10.3E+10	Survey Meter Model: PNR-4	Property Number: 5212	Calibration Void Date: 5/6/95
Total Dose Rate (mrem/h)	10.7E+10	The data in this section were collected according to approved procedures.		
Alpha Contamination (dpm/100cm²)	10.01E+10	Printed Name: DON Archuleta		Date: 3/31/95
Beta-Gamma Cont. (dpm/100cm²)	10.01E+10	Signature: Don Archuleta		

4. CST-7 REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by CST-7. The generator is authorized to arrange transportation to TA-54 by AR 10-5.

Printed Name: J. Minton-Hughes Date: 5/22/95

Signature: Julia Minton-Hughes

THIS PAGE FOR CST-7 USE ONLY

5. DATA MANAGEMENT INFORMATION

	M M	D D	Y Y	Printed Name	Signature
Date Entered in Database	05	23	95	Charlotte Fernandez	Charlotte Fernandez
Date Entry Verified	06	20	95	Printed Name **V.G. Harkleroad**	Signature V.G. Harkleroad

6. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to pickup according to approved procedures and was found to be free of obvious damage or defects.	Inspector's Stamp Number TRU 1 INSPECTOR Rm	Date (*Inspection Valid for 30 Days*) 6-6-95

JH 6-20-95 6-20-95 CJ

7. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (*mrem/h*)	0.5 E 0	Survey Meter Model 120-2	Property Number 3409	Calibration Void Date 7-17-95
Neutron Dose Rate (*mrem/h*)	0.3 E 0	Survey Meter Model ESP-2	Property Number 6110	Calibration Void Date 6-23-95
Total Dose Rate (*mrem/h*)	0.7 E 0	*The data in this section were collected according to approved procedures.*		
Alpha Contamination (*dpm/100cm²*)	0.0 E + 0	Printed Name Andrew T. Moore		Date 6-8-95
Beta-Gamma Cont. (*dpm/100cm²*)	0.0 E + 0	Signature Andrew T. Moore		

8. STORAGE SITE INFORMATION

Received By (*Initials*) Rm	Date Received 6-9-95	ORIGINAL STORAGE DATA		
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		Building Number 153	Layer 1	Row Number 24 CJ
		Column Number 32	Date Stacked (MM,DD,YY) 06 13 95	
Printed Name Rick Martinez	Date 6-9-95	Printed Name Rick Martinez		Date 6-13-95
Signature Rick Martinez		Signature Rick Martinez		

9. REVIEW

The data entered in Sections 6, 7, and 8 have been reviewed according to approved procedures.	Printed Name Rick Martinez	Date 6-26-95
	Signature Rick Martinez	

10. WASTE ACCEPTANCE OFFICE

NCR Number	Hold Tag Number	Initials/Date	NCR Description	WE Number	Initials/Date

11. DATA MANAGEMENT INFORMATION

	M M	D D	Y Y	Printed Name	Signature
Date Entered in Database	06	29	95	Charlotte Fernandez	Charlotte Fernandez
Date Entry Verified	06	29	95	Printed Name **V.G. Harkleroad**	Signature V.G. Harkleroad

12. DUPLICATE COPY

	M M	D D	Y Y	Printed Name	Signature
Date Duplicate Filed	08	02	95	Charlotte Fernandez	Charlotte Fernandez

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
55317

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
DAVIS CHRISTENSEN		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/10/11

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000055868

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Inspected Items		
☑ Ring, Bolt, and Nut	☑ Chime	☑ Dents
☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name: MICHAEL GALLEGOS Date: 4-21-95

Signature: Michael Gallegos

2. GENERATOR'S PACKAGE INFORMATION

[redacted]

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (*mrem/h*)	1.0 E +/- 0	Survey Meter Model: PNR-4	Property Number: 4914	Calibration Void Date: 8/13/95
Neutron Dose Rate (*mrem/h*)	0.5 E +/- 0	Survey Meter Model: 12B3C	Property Number: 2648	Calibration Void Date: 04/13/95
Total Dose Rate (*mrem/h*)	1.5 E +/- 0	*The data in this section were collected according to approved procedures.*		
Alpha Contamination (*dpm/100cm²*)	0.0 E + 0	Printed Name: EDUARDO ESTRADA		Date: 06/28/95
Beta-Gamma Cont. (*dpm/100cm²*)	0.0 E + 0	Signature: Eduardo Estrada		

4. CST-7 REVIEW/AUTHORIZATION

[redacted]

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5. DATA MANAGEMENT INFORMATION

	M M	D D	Y Y	Printed Name	Signature
Date Entered in Database	08	16	95	Charlotte Fernandez	Charlotte Fernandez
Date Entry Verified	09	21	95	Printed Name Margaret Chan	Signature Margaret

6. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to pickup according to approved procedures and was found to be free of obvious damage or defects.	Inspector's Stamp Number	Date (Inspection Valid for 30 Days)
	INSPECTOR 4 TRU Rm	9-8-95

9-26-95 CF

7. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (*mrem/h*)	0.9 E 1 ± 10	Survey Meter Model RO2	Property Number 3417	Calibration Void Date 10-11-95
Neutron Dose Rate (*mrem/h*)	0.5 E 1 ± 10	Survey Meter Model ESP-2	Property Number 6110	Calibration Void Date 10-07-95
Total Dose Rate (*mrem/h*)	1.4 E 1 ± 10	*The data in this section were collected according to approved procedures.*		
Alpha Contamination (*dpm/100cm²*)	0.0 E 1 ± 10	Printed Name J. Troy Russell		Date 9-20-95
Beta-Gamma Cont. (*dpm/100cm²*)	0.0 E 1 ± 10	Signature J. Troy Russell		

9-27-95

8. STORAGE SITE INFORMATION

Received By (*Initials*) Rm	Date Received 9-14-95	ORIGINAL STORAGE DATA	
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		Building Number 153	Layer 2	Row Number 5
		Column Number 38	Date Stacked (MM.DD.YY) 09 21 95
Printed Name Rick Martinez	Date 9-14-95	Printed Name Rick Martinez	Date 9-28-95
Signature Rick Martinez		Signature Rick Martinez	

9. REVIEW

The data entered in Sections 6, 7, and 8 have been reviewed according to approved procedures.	Printed Name Rick Martinez	Date 9-28-95
	Signature Rick Martinez	

10. WASTE ACCEPTANCE OFFICE

NCR Number	Hold Tag Number	Initials/Date	NCR Description	WE Number	Initials/Date

11. DATA MANAGEMENT INFORMATION

	M M	D D	Y Y	Printed Name	Signature
Date Entered in Database	09	28	95	Charlotte Fernandez	Charlotte Fernandez
Date Entry Verified	10	02	95	Printed Name Margaret Chan	Signature Margaret

12. DUPLICATE COPY

	M M	D D	Y Y	Printed Name	Signature
Date Duplicate Filed	10	02	95	Charlotte Fernandez	Charlotte Fernandez

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
55868

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Gail Welsh	Gail M. Welsh	11/8/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

11/8/11

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000055873

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Inspected Items		
☐ Ring, Bolt, and Nut	☑ Chime	☐ Dents
☑ Lid and Gasket	☑ Gouges	☐ Paint

Printed Name: MICHAEL GALLEGOS Date: 5.16.95

Signature: Michael V Gallegos

2. GENERATOR'S PACKAGE INFORMATION

Shipping No. (Assigned): TED B22682

Waste Profile Number: 5587 Date Filled: 8/16/95

Waste Profile Number: 21616

Total Weight (lb): 19.32 E +2

Organic Material Wt. (lb): 1.32 E +0

Organic Material Volume (ft³): 0

TRU Mix Code: 111 1B

Date Closed (MM/DD/YY): 08/28/95

RADIONUCLIDE CONTENT

Material Type: ☑ Yes ☐ No SIZE 1

Nuclide	Amount	Uncertainty	C-Date Mo/Yr
Pu239	1.7015 E +03	8.5216 E +01	5
Pu238	5.6413 E +02	2.8121 E +02	5
Pu240	1.3219 E +02	6.6111 E +03	5
Pu241	2.1915 E +01	1.0990 E +01	5
Pu242	7.6111 E +07	3.8212 E +07	5

CONTAINER: ☑ 55-gal Drum (DF-gal) ☐ Standard Waste Box ☐ Other (Cat. 1/NOD) ☐ NA Container

INTERNAL SHIELDING: ☒ None

Type	Thickness (in.)

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)
-NONE-		

This data in this section was collected, and the waste described herein was packaged and labeled according to approved procedures.

Printed Name: EDUARDO ESTRADA Signature: Eduardo Estrada Date: 8/28/95

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (*mrem/h*)	1.5 E +0	Survey Meter Model: RO20	Property Number: 6475	Calibration Void Date: 11/10/95
Neutron Dose Rate (*mrem/h*)	0.5 E +0	Survey Meter Model: PNR-4	Property Number: 4913	Calibration Void Date: 09/16/95
Total Dose Rate (*mrem/h*)	2.0 E +0	*The data in this section were collected according to approved procedures.*		
Alpha Contamination (*dpm/100cm²*)	0.0 E +0	Printed Name: EDUARDO ESTRADA		Date: 08/25/95
Beta-Gamma Cont. (*dpm/100cm²*)	0.0 E +0	Signature: Eduardo Estrada		

4. CST-7 REVIEW/AUTHORIZATION

Printed Name: J. Martin Hughes Date: 8/28/95

Signature: John Martin Hughes

Form 1562 (2/94)

THIS PAGE FOR CST-7 USE ONLY

5. DATA MANAGEMENT INFORMATION

	M M	D D	Y Y	Printed Name	Signature
Date Entered in Database	09	05	95	Charlotte Fernandez	Charlotte Fernandez
Date Entry Verified	09	26	95	Margaret Chan	Margaret Chan

6. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to pickup according to approved procedures and was found to be free of obvious damage or defects.	Inspector's Stamp Number	Date (*Inspection Valid for 30 Days*)
	INSPECTOR 1 TRU Rm	9-8-95

9-26-95 CF

7. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (*mrem/h*)	0.5 E 1 ± 10	Survey Meter Model	RO-2	Property Number 3417	Calibration Void Date 10-11-95
Neutron Dose Rate (*mrem/h*)	0.5 E 1 ± 10	Survey Meter Model	ESP2	Property Number 6110	Calibration Void Date 10-09-95
Total Dose Rate (*mrem/h*)	1.0 E 1 ± 10	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (*dpm/100cm²*)	0.0 E 1 ± 50	Printed Name	J. Troy Russell		Date 9-20-95
Beta-Gamma Cont. (*dpm/100cm²*)	0.0 E 1 ± 50	Signature	J. Troy Russell		

9-22-95

8. STORAGE SITE INFORMATION

Received By (*Initials*) Rm	Date Received 9-14-95	ORIGINAL STORAGE DATA			
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		Building Number 153	Layer 3	Row Number	
		Column Number 40	Date Stacked (MM,DD,YY)	09 23 95	
Printed Name Rick Martinez	Date 9-14-95	Printed Name	Rick Martinez		Date 9-28-95
Signature Rick Martinez		Signature	Rick Martinez		

9. REVIEW

The data entered in Sections 6, 7, and 8 have been reviewed according to approved procedures.	Printed Name	Rick Martinez	Date 9-28-95
	Signature	Rick Martinez	

10. WASTE ACCEPTANCE OFFICE

NCR Number	Hold Tag Number	Initials/Date	NCR Description	WE Number	Initials/Date

11. DATA MANAGEMENT INFORMATION

	M M	D D	Y Y	Printed Name	Signature
Date Entered in Database	09	28	95	Charlotte Fernandez	Charlotte Fernandez
Date Entry Verified	10	02	95	Margaret Chan	Margaret Chan

12. DUPLICATE COPY

	M M	D D	Y Y	Printed Name	Signature
Date Duplicate Filed	10	02	95	Charlotte Fernandez	Charlotte Fernandez

Form 2177

Los Alamos NATIONAL LABORATORY EST. 1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
55873

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None

☐ Other (Call TWCO)	Type	Thickness (in.)
Filter Serial No. 01		
Filter Serial No. 02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
DAVIS CHRISTENSEN		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/10/11 LB

Form 2177 (6/10)

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000056262

1. GENERATOR'S PRE-USE VISUAL INSPECTION

	Inspected Items		
Drum Lot Code: 1 3 1 2	☐ Ring, Bolt, and Nut	☐ Chime	☑ Dents
Year of Manufacture: 1 9 9 5	☐ Lid and Gasket	☑ Gouges	☐ Paint
3013 Serial Number: 1 1 1 1 1 W I P	Printed Name: MICHAEL V GALLEGOS	Date: 10-16-96	
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	Signature: Michael Gallegos		

2. GENERATOR'S PACKAGE INFORMATION

Group: NMT-7 | Technical Area: TA-55 | Building: 4 | Program Code: K5213.04.02 | Normal: ☑ Yes ☐ No

Additional Information: 62523 RH Shipper Rem 3 of 3 Acon Solve Rem

CODE	CONTAINER	INTERNAL SHIELDING	Type	Thickness (in.)
01	☑ Steel Drum (55 gal.)	☑ None		
02	☐ Standard Waste Box			
03	☐ Other (Cell Liners)			
04	☐ RH Canister			

Waste Profile Reference Number: 2 8 3 7 1 0

Content Code: 1 4 4 3 2 E

Process Batch Code: 1 1 1 W I P

Gross Weight (lb.): 1 5 . 3 1 5 E 1 2

Organic Material Wt. (lb.): 1 6 . 0 E 1 E 1

Organic Material Volume (ft³): 1 1 1 0

TRUCON Code: 1 1 1 7 0 3

Date Closed (MM/DD/YY): 1 0 2 3 9 6

RADIONUCLIDE CONTENT

Material Type: ☑ Yes ☐ No — 5 1 2

Nuclide	Amount	Uncertainty	Curie Mo Gram
Pu-238	5.6 1 0 E -1 6	2.3 1 3 0 E -1 5	M
Pu-239	3.1 9 1 0 E -1 3	2.3 7 1 9 E -1 1	M
Pu-240	5.8 1 0 E -1 5	1.4 1 5 8 E -1 2	M
Pu-241	1.9 6 1 0 E -1 4	4.8 1 6 0 E -1 4	M
Pu-242	1.9 6 1 0 E -1 5	4.8 1 6 0 E -1 5	M
Am-241	3.5 5 2 E -1 4	3.2 6 1 4 E -1 4	M
	. E	. E	
	. E	. E	

NON-RADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)
Beryllium		. E
		. E
		. E
		. E

The data in this section were collected and the waste packaged in accordance with approved procedures.

Printed Name: Dennis R. Lucero | Signature: [signature] | Date: 10/31/96

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (*mrem/h*)	5.0 E +1	Survey Meter Model: 1000	Property Number: 0481	Calibration Void Date: 3-20-97
Neutron Dose Rate (*mrem/h*)	1.7 E +0	Survey Meter Model: PNR-4	Property Number: 4904	Calibration Void Date: 12-17-96
Total Dose Rate (*mrem/h*)	2.2 E +0	*The data in this section were collected according to approved procedures.*		
Alpha Contamination (*dpm/100cm²*)	0.0 E +0	Printed Name: RONALD CHAVEZ		Date: 10/31/96
Beta-Gamma Cont. (*dpm/100cm²*)	0.0 E +0	Signature: [signature]		

4. CST-7 REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by CST-7. The generator is authorized to ship the container(s) to TA-54 by AR 10-5.

Printed Name: [illegible] | Date: [illegible]

Signature: [illegible]

* See memo NMT-7-WM/EC-96-032 ** 1202

Form 1562 (2/94)

THIS PAGE FOR CST-7 USE ONLY

5. DATA MANAGEMENT INFORMATION

	M M	D D	Y Y	Printed Name	Signature
Date Entered in Database	1 1	2 1	9 6	Charlotte Fernandez	Charlotte Fernandez
Date Entry Verified	0 1	0 2	9 7	Sherrye Lovato	Sherrye Lovato

6. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to pickup according to approved procedures and was found to be free of obvious damage or defects.	Inspector's Stamp Number	Date (*Inspection Valid for 30 Days*)
	TRU INSPECTOR 1 RM	12-17-96

7. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (*mrem/h*)	0.4 E 1 + 0	Survey Meter Model: RO2	Property Number: 3442	Calibration Void Date: 3/27/97
Neutron Dose Rate (*mrem/h*)	0.4 E 1 + 0	Survey Meter Model: ESP1/NRD	Property Number: 6165	Calibration Void Date: 1/31/97
Total Dose Rate (*mrem/h*)	0.8 E 1 + 0	*The data in this section were collected according to approved procedures.*		
Alpha Contamination (*dpm/100cm²*)	0.0 E 1 + 0	Printed Name: W P Monroe		Date: 12/23/96
Beta-Gamma Cont. (*dpm/100cm²*)	0.0 E 1 + 0	Signature: W P Monroe		

8. STORAGE SITE INFORMATION

Received By (*Initials*)	Date Received	ORIGINAL STORAGE DATA		
RM	12-19-96	Building Number: 283	Layer: Holding Area	Row Number:
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		Column Number:	Date Stacked (*MM,DD,YY*):	
Printed Name: [illegible]	Date: 12-19-96	Printed Name: Rick Martinez		Date: 1-16-97
Signature: Rick Martinez		Signature: Rick Martinez		

9. REVIEW

The data entered in Sections 6, 7 and 8 have been reviewed according to approved procedures.	Printed Name: Rick Martinez	Date: 1-16-97
	Signature: Rick Martinez	

10. WASTE ACCEPTANCE OFFICE

NCR Number	Hold Tag Number	Initials/Date	NCR Description	WE Number	Initials/Date

11. DATA MANAGEMENT INFORMATION

	M M	D D	Y Y	Printed Name	Signature
Date Entered in Database	0 1	1 7	9 7	Charlotte Fernandez	Charlotte Fernandez
Date Entry Verified	0 1	2 2	9 7	PETER L. WICKER	Peter L. Wicker

12. DUPLICATE COPY

	M M	D D	Y Y	Printed Name	Signature
Date Duplicate Filed	0 1	2 2	9 7	Charlotte Fernandez	Charlotte Fernandez

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
56262

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None

Other (Call TWCO)	Type	Thickness (in.)
Filter Serial No. 01		
Filter Serial No. 02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
DAVIS CHRISTENSEN		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/16/11

Form 2177 (6/10)

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000056503

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Drum ID/Code: Hanford 6-55 HB-300 83C STD01	Inspected Items		
Year of Manufacture:	☒ Ring, Bolt, and Nut	☒ Chime	☒ Dents
Box Serial Number:	☒ Lid and Gasket	☒ Gouges	☒ Paint
This container has been visually inspected as specified in the applicable procedure and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	Printed Name: Jimmie Alvarado		Date: 8/31/93
	Signature: Jimmie Alvarado		

DGS 3/6/97

2. GENERATOR'S PACKAGE INFORMATION

DGS 3/7/97

Group ID: 3a1ES | Technical Area: 00 | Building: 00 | Program Code: | Normal: ☒ Yes ☐ No

Additional Information: All data based on a uniform distributed matrix

Waste Profile: Fantex Plant Waste

Profile: 53124898

Material Type: ☐ Yes ☒ No DGS 3/7/97 Est. Error

CODE	CONTAINER	INTERNAL SHELLING	TC Grams (pu)
01	☒ Steel Drum (55 gal.)	☒ None	
02	☐ Standard Waste Box	Type	
03	☐ Other (Use TWCO1)		
04	☐ RH Canister		

Waste Profile Related Number: DGS 3/7/97 3 15 7 9 2

Content Filler ID: 01 | | | | | 02

Process Batch Code: N/A

Gross Weight (lbs): 1 1 3 7 0 E + 1

Organic Material Wt (lb): Estimate 1 3 0 1 E + 1

Organic Material Volume (ft³): Estimate 1 7 1 5

TRUCON Code: 1A 1 6 5 1A

Date Closed (MMDDYY): 1 1 0 2 1 1 9 6

RADIONUCLIDE CONTENT				
Nuclide	Amount	Uncertainty	E-Cents M-Grams	
Pu 239	2.216 10	E 0 1 2	1.216 10	E 0 1 5 G
Pu 240	2.412 10	E 0 1 3	3.312 10	E 0 1 4 G
Am 241	8.612 10	E 0 1 3	2.212 10	E 0 1 5 G
U 233	2.311 10	E 0 1 3	3.111 10	E 0 1 5 G
		E		E
		E		E

NONRADIOACTIVE HAZARDOUS MATERIALS		
Name	EPA Code	Quantity
None		

The data in this section were collected, and the waste described herein was packaged and handled according to approved procedures.

Printed Name: [illegible] Signature: [illegible] Date: [illegible]

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	< 0.1 E + 0	Survey Meter Model: Victoreen 450BE	Property Number: 1177	Calibration Void Date: 12-3-96
Neutron Dose Rate (mrem/h)	< 0.1 E + 0	Survey Meter Model: Ludlum Rembell	Property Number: 87974	Calibration Void Date: 2-24-97
Total Dose Rate (mrem/h)	< 0.1 E + 0	The data in this section were collected according to approved procedures.		
Alpha Contamination (dpm/100cm²)	5.0 E + 0	Printed Name: James Taylor		Date: 10-28-96
Beta-Gamma Cont. (dpm/100cm²)	< 1.0 E + 1	Signature: James Taylor 07218		

LLD

4. CST-7 REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by CST-7. The generator is authorized to arrange transportation to TA-54 by 4R 10 .

Printed Name: Derek E. Stafford Date: 3/6/97

Signature: Derek E. Stafford

Form 1562 (2/94)

THIS PAGE FOR CST-7 USE ONLY

5. DATA MANAGEMENT INFORMATION

	M M	D D	Y Y	Printed Name	Signature
Date Entered in Database	03	18	97	Charlotte Fernandez	Charlotte Fernandez
Date Entry Verified	03	24	97	Karri Wilder	Karri Wilder

6. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to pickup according to approved procedures and was found to be free of obvious damage or defects.	Inspector's Stamp Number	Date (Inspection Valid for 30 Days)

7. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	0.1 E +10	Survey Meter Model	RO-20	Property Number 3447	Calibration Void Date 9/9/97
Neutron Dose Rate (mrem/h)	0.0 E +10	Survey Meter Model	ESP-1	Property Number 6110	Calibration Void Date 9/25/97
Total Dose Rate (mrem/h)	0.1 E +10	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm²)	0.0 E +0	Printed Name	Gary Hagemann		Date 3/11/97
Beta-Gamma Cont. (dpm/100cm²)	0.0 E +10	Signature	Gary Hagemann		

8. STORAGE SITE INFORMATION

Received By (Initials)	Date Received	ORIGINAL STORAGE DATA		
RM	3-11-97	Building Number 283	Layer Holding Area	Row Number
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		Column Number	Date Stacked (MM,DD,YY)	
Printed Name Rick Martinez	Date 3-11-97	Printed Name Rick Martinez		Date 3-26-97
Signature Rick Martz		Signature Rick Martz		

9. REVIEW

The data entered in Sections 6, 7, and 8 have been reviewed according to approved procedures.	Printed Name Rick Martinez	Date 3-26-97
	Signature Rick Martz	

10. WASTE ACCEPTANCE OFFICE

NCR Number	Hold Tag Number	Initials/Date	NCR Description	WE Number	Initials/Date

11. DATA MANAGEMENT INFORMATION

	M M	D D	Y Y	Printed Name	Signature
Date Entered In Database	06	27	97	Charlotte Fernandez	Charlotte Fernandez
Date Entry Verified	06	27	97	Tammy Lash	Tammy Lash

12. DUPLICATE COPY

	M M	D D	Y Y	Printed Name	Signature
Date Duplicate Filed	06	30	97	Charlotte Fernandez	Charlotte Fernandez

Form 2177

Los Alamos NATIONAL LABORATORY EST. 1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
56503

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None

Other (Call TWCO)	Type	Thickness (in.)
Filter Serial No. 01		
Filter Serial No. 02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Davis Christensen		6/9/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Form 2177 (6/10) 6/9/11

6-9-11

Los Alamos NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000056505

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Drum Lot Code: Hanford 10-55 H 4-10E STD STRD

Year of Manufacture: 1 9 1 0

Box Serial Number:

This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.

Inspected Items

☒ Ring, Bolt, and Nut	☒ Chime	☒ Dents
☒ Lid and Gasket	☒ Gouges	☐ Paint

Printed Name: Jimmie Alvarado — Date: 8/31/93

Signature: Jimmie Alvarado

2. GENERATOR'S PACKAGE INFORMATION

DOE 3/13/97

Group: PA-TEX — Technical Area: 53 — Building: 53-207 — Program Code: N/A — Normal: ☒ Yes ☐ No

Additional Information: A22 Data Used on a Uniformly Distributed Matrix

Pantex Plant Reserve

Drum # P53:1200

RADIONUCLIDE CONTENT

Material Type: ☐ Yes ☒ No

Nuclide	Ainount	Uncertainty	Curie/Gram
P 0 1 2 3 8	4.6 1 7 0 E 0 1 3	3.6 1 0 0 E 0 1 3	I
P 0 1 2 3 9	2.8 1 0 0 E 0 1 2	2.8 1 0 0 E 0 1 2	C
P 0 1 2 4 0	1.4 1 3 1 0 E 0 1 2	6.8 1 3 1 0 E 0 1 2	C
P 0 1 2 4 1	1.5 1 6 1 0 E 0 1 1	9.4 1 6 1 0 E 0 1 0	C
A M 2 4 1	2.4 1 0 1 0 E 0 1 3	3.2 1 6 1 0 E 0 1 2	I

CODE	CONTAINER	INTERNAL SHIELDING
01	☒ Steel Drum (55 gal.)	☒ None
02	☐ Standard Waste Box	Type: — Thickness (in.):
03	☐ Other (Get TWCC)	
04	☐ Pipe Canister	

Waste Profile Revised Number: Date 3/17/97 — 2 5 7 9 8

Carbon Filter ID: 55 — 1 a 1 a 1 1 5 — 02

Process Knowledge Code:

Gross Weight (lb): 1 • 2 1 E + 2

Organic Material Wt (lb): (estimate) 1 • 1 E + 1

Organic Material Volume (ft³): (estimate) 1 2 E 0

TRUCON Code: SA 1 1 1 • 1 E + 1

Date Closed (MMDDYY): 3 1 0 2 1 1 5 1 6

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (lb)
None		

This data is true, was collected, and the waste described herein was managed and packaged according to approved procedures.

Printed Name: [illegible] — Signature: [illegible] — Date: [illegible]

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (*mrem/h*)	0 • 9 E + 0	Survey Meter Model: Victoreen 450BE	Property Number: 1177 — Calibration Void Date: 12-3-96
Neutron Dose Rate (*mrem/h*)	< 0 • 1 E + 0	Survey Meter Model: Ludlum Pemball	Property Number: 87974 — Calibration Void Date: 2-24-97
Total Dose Rate (*mrem/h*)	0 • 9 E + 0	*The data in this section were collected according to approved procedures.*	
Alpha Contamination (*dpm/100cm²*)	5 • 0 E + 0	Printed Name: James Taylor	Date: 10-28-96
Beta-Gamma Cont. (*dpm/100cm²*)	< 1 • 0 E + 1 LLD	Signature: James Taylor 07218	

4. CST-7 REVIEW/AUTHORIZATION

This data package for this waste has been reviewed by CST-7. The generator is authorized to arrange transportation to TA-54 by ADR 6.0

Printed Name: Patrick G. Fairchild — Date: 3/17/97

Signature: Patrick G. Fairchild

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000056505

1. GENERATOR'S PRE-USE VISUAL INSPECTION

	Inspected Items		
	☒ Ring, Bolt, and Nut	☒ Chime	☒ Dents
	☒ Lid and Gasket	☒ Gouges	☒ Paint

(Container was visually inspected according to approved procedures and found to be free of damage that would make it unsuitable for TRU waste packaging.)

Printed Name: Jimmie Alvarado — Date: 8/31/93

Signature: Jimmie Alvarado

2. GENERATOR'S PACKAGE INFORMATION

DA-HTEX — DBS 3/13/97

Technical Area: 16 — Building: AMF-00 — Program Code: N/A — Normal: ☒ Yes ☐ No

Waste Description: Debris waste consisting of uniformly distributed matrix

Waste Profile Number: 9310.900

Container: DRUM — Type: 17H — Material: STEEL

Shielding: None

Liner: None

Packaging Configuration: Standard Waste Box — Type: — Thickness (in.): —

Solidification/Sorbent: — Type: — Quantity: —

Absorbent: — Type: — Quantity: —

Other: — Type: — Quantity: —

Weight of Waste (lbs): 2612.2

Total Weight (Tare + Waste): 2912.2

Container Material Volume (ft³): 17.5

Filter Code: —

Date Generated (MM/DD/YY): 10/28/96

RADIONUCLIDE CONTENT

Material Type: ☐ Yes ☒ No — DBS 3/13/97

Nuclide	Amount		Uncertainty		Curies or Gram
PU-238	4.4 E-03	±	2.6 E-04	±	C
PU-239	4.8 E-02	±	2.8 E-03	±	C
PU-240	1.1 E-02	±	6.5 E-04	±	C
PU-241	1.1 E-01	±	6.7 E-03	±	C
AM-241	7.5 E-03	±	7.3 E-04	±	C
	E	±	E	±	
	E	±	E	±	
	E	±	E	±	

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)
None		E
		E
		E
		E

The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures.

Printed Name: Mark S. Winkler — Signature: Mark S. Winkler 09978 — Date: 10-28-96

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

		Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (*mrem/h*)	0.9 E+0	Victoreen 450BE	1177	12-3-96
Neutron Dose Rate (*mrem/h*)	< 0.1 E+0	Ludlum Pemball	87974	2-24-97
Total Dose Rate (*mrem/h*)	0.9 E+0	*The data in this section were collected according to approved procedures.*		
Alpha Contamination (*dpm/100cm²*)	5.0 E+0	Printed Name: James Taylor		Date: 10-28-96
Beta-Gamma Cont. (*dpm/100cm²*)	< 1.0 E+1 LLD	Signature: James Taylor 07218		

4. CST-7 REVIEW/AUTHORIZATION

Waste acceptance for this waste has been reviewed by CST-7. The [illegible] is authorized to arrange transportation to TA-54 by AR 10-5.

Printed Name: Patrick G. Stafford — Date: 3/6/97

Signature: Patrick G. Stafford

THIS PAGE FOR CST-7 USE ONLY

5. DATA MANAGEMENT INFORMATION

	M M D D Y Y	Printed Name	Signature
Date Entered in Database	03 / 18 / 97	Charlotte Fernandez	Charlotte Fernandez
Date Entry Verified	03/24/97	KARRI WILDER	Karri Wilder

6. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to pickup according to approved procedures and was found to be free of obvious damage or defects.	Inspector's Stamp Number	Date (*Inspection Valid for 30 Days*)

7. RECEIVING SITE HEALTH PHYSICS INFORMATION

Smear Dose Rate (mrem/hr)	Survey Meter Model RO-20	Property Number 3447	Calibration Void Date 7/9/97
Smear Dose Rate (mrem/hr)	Survey Meter Model FSP-1	Property Number 6110	Calibration Void Date 8/25/97
Total Dose Rate (mrem/hr)	*The data in this section were collected according to approved procedures.*		
Alpha Contamination (dpm/100cm²)	Printed Name GARY HAGEEMANN		Date 3/11/97
Fixed Smear Contamination (dpm/100cm²)	Signature		

8. STORAGE SITE INFORMATION

Received By (*Initials*) RM	Date Received 3/18/97	ORIGINAL STORAGE DATA
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		Building Number 283 / Level / Room Number
		Column Number / Row Number / Position
Printed Name Rick Martinez	Date 3-11-97	Printed Name Rick Martinez
Signature Rick Martinez		Signature Rick Martinez

9. REVIEW

The data entered in Sections 6, 7, and 8 have been reviewed according to approved procedures.	Printed Name Rick MARTINEZ	Date 3-26-97
	Signature Rick Martinez	

10. WASTE ACCEPTANCE OFFICE

NCR Number	Hold Tag Number	Initials/Date	NCR Description	WE Number	Initials/Date

11. DATA MANAGEMENT INFORMATION

	M M D D Y Y	Printed Name	Signature
Date Entered in Database	06 / 27 / 97	Charlotte Fernandez	Charlotte Fernandez
Date Entry Verified	06/29/97	TAMMY LASH	Tammy Lash

12. DUPLICATE COPY

	M M D D Y Y	Printed Name	Signature
Date Duplicate Filed	06 / 30 / 97	Charlotte Fernandez	Charlotte Fernandez

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
56505

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Davis Christensen		6/9/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

(5) 6/9/11

6-9-11

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000056619

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	[X] Ring, Bolt, and Nut	[X] Chime	[X] Dents
	[X] Lid and Gasket	[X] Gouges	[X] Paint
Name: VIGIL ROBERT A	Znumber: 091564		Date: JUL 16 1997

2. GENERATOR'S PACKAGE INFORMATION

Group	Technical Area	Building	Program Code	
NMT-7	55	PF-4	8J0700 KF14 1000 0000	[ ] Off-Normal

Additional Information: TID B26403

CONTAINER	LINER
[X] Steel Drum (*55 gal.*)	[X] None
[ ] Steel Drum (*85 gal.*)	[ ] 90 mil liner
[ ] Standard Waste Box	[ ] 125 mil liner
[ ] RH Canister	INTERNAL SHIELDING
[ ] Other (*Call TWCO*)	[X] None
[ ] Overpack	Type / Thickness (*in.*)
Carbon Filter ID: 01 4802	
Carbon Filter ID: 02	

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
PU-238	3.530E-5	4.470E-5	M
PU-239	3.310E-1	4.192E-1	M
PU-240	2.118E-2	2.682E-2	M
PU-241	7.060E-4	8.940E-4	M
PU-242	7.060E-5	8.940E-5	M
AM-241	5.613E-4	7.107E-4	M

Was Profile Request Number: 20711

Process Batch Code: NA

[ ] PDP Program Tracking No:

Gross Weight (*lb.*)	3.28E+2
Net Weight (*lb.*)	2.65E+2
Shipping Category	2001700280
LANL Waste Stream ID	TA-55-5
TRUCON Code	117B
Date Closed (*MMDDYY*)	JUL 28 1997

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (*g*)
None		

Accumulation Start Date (*MMDDYY*)

The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures.

Name: GALLEGOS MICHAEL | Znumber: 087896 | Date: JUL 30 1997

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

		Survey Date	Survey Meter Model	Property	Calibration Void Date
Gamma Dose Rate (*mrem/h*) (contact)	3.0E-1	JUL 30 1997	RO20	006487	SEP 13 1997
Neutron Dose Rate (*mrem/h*) (contact)	2.0E-1	JUL 30 1997	PNR-4	004906	OCT 2 1997
Total Dose Rate (*mrem/h*) (contact)	5.0E-1				
Total Dose Rate (*mrem/h*) (1 meter)	0.0E+0				
Alpha Contamination (*dpm/100cm^2*) (*rem*)	0.0E+0				
Beta-Gamma Cont. (*dpm/100cm^2*) (*rem*)	0.0E+0				

The data in this section were collected according to approved procedures.

Name: CHAVEZ RONALD | Znumber: 112026 | Date: JUL 30 1997

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by TRU Waste Management. The generator is authorized to arrange transportation to TA-54	Name: STAFFORD DARRIK G	
	Znumber: 110010	Date: SEP 8 1997

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to pickup according to approved procedures and was found to be free of obvious damage or defects.	Inspector's Stamp Number: TRU INSPECTOR 1 — RM	Date (*Inspection Valid for 30 Days*): 9-23-97

6. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (*mrem/h*): 1.5 E ± 0	Survey Meter Model: RO-20	Property Number: 3447	Calibration Void Date: 1-7-98
Neutron Dose Rate (*mrem/h*): 1.5 E ± 0	Survey Meter Model: ESP-1	Property Number: 8031	Calibration Void Date: 2-22-98
Total Dose Rate (*mrem/h*): 3.0 E ± 0	*The data in this section were collected according to approved procedures.*		
Alpha Contamination (*dpm/100cm²*): 0.0 E + 0	Printed Name: Marie Medina		Date: 9-29-97
Beta-Gamma Cont. (*dpm/100cm²*): 0.0 E + 0	Signature: Marie Medina		

7. STORAGE SITE INFORMATION

Received By (*Initials*): RM	Date Received: 9/25/97	ORIGINAL STORAGE DATA	
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		Building Number: 283 / Layer: 2 / Row Number: 6	
		Column Number: 71 / Date Stacked (*MM,DD,YY*): 10 02 97	
Printed Name: Rick Martinez	Date: 9-25-97	Printed Name: Rick Martinez	Date: 10-6-97
Signature: Rick Martinez		Signature: Rick Martinez	

8. WASTE ACCEPTANCE OFFICE

NCR Number	Hold Tag Number	Initials/Date	NCR Description	WE Number	Initials/Date

9. DATA MANAGEMENT INFORMATION

	M M D D Y Y	Printed Name	Signature
Date Entered In Database	11 06 97	Charlotte Fernandez	Charlotte Fernandez
Date Entry Verified	11 06 97	Tammy LASH	Tammy Lash

10. DUPLICATE COPY

	M M D D Y Y	Printed Name	Signature
Date Duplicate Filed	11 13 97	Charlotte Fernandez	Charlotte Fernandez

Los Alamos NATIONAL LABORATORY EST. 1943

Form 2177

TRU Waste Storage Record Change Form

Waste Package Serial Number
56619

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None

Other (Call TWCO)	Type	Thickness (in.)

Filter Serial No.		
01		
02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
DAVID CHRISTENSEN		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/16/11 CD

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000056889

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order # 1978889	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	[X] Ring, Bolt, and Nut	[X] Chime	[X] Dents
	[X] Lid and Gasket	[X] Gouges	[X] Paint
Name VIGIL ROBERT A	Znumber 091564	Date MAY 13 1998	

2. GENERATOR'S PACKAGE INFORMATION

Group NMT-7	Technical Area 55	Building PF-4	Program Code 8J0700 KG19 2000 1000	[ ] Off-Normal

Additional Information: TID

CONTAINER	LINER	INTERNAL SHIELDING
[X] Steel Drum (*55 gal.*)	[X] None	[X] None
[ ] Steel Drum (*85 gal.*)	[ ] 90 mil liner	
[ ] Standard Waste Box	[ ] 125 mil liner	
[ ] RH Canister		
[ ] Other (*Call TWCO*)		
[ ] Overpack	Type	Thickness (*in.*)
Carbon Filter ID 01 1494		
Carbon Filter ID 02		

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
PU-238	1.406E-2	7.978E-4	M
PU-239	1.228E+2	6.053E+0	M
PU-240	7.862E+0	4.049E-1	M
PU-241	2.670E-1	1.418E-2	M
PU-242	2.958E-2	1.705E-3	M
AM-241	2.124E-1	1.128E-2	M

Waste Profile Request Number	20210
Process Batch Code	NA
Gross Weight (*lb.*)	2.62E+2
Net Weight (*lb.*)	2.00E+2
Shipping Category	2000000000
LANL Waste Stream ID	TA-55-15
TRUCON Code	124A
Date Closed (*MMDDYY*)	NOV 19 1998

[ ] PDP Program Tracking No:

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (*g*)
None		

Accumulation Start Date (*MMDDYY*)

The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures.

Name GALLEGOS MICHAEL | Znumber 087896 | Date DEC 1 1998

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

		Survey Date	Survey Meter Model	Property	Calibration Void Date
Gamma Dose Rate (*mrem/h*) (contact)	3.0E+1	DEC 3 1998	RO20	006469	APR 14 1999
Neutron Dose Rate (*mrem/h*) (contact)	1.0E+0	DEC 3 1998	PNR-4	004904	APR 28 1999
Total Dose Rate (*mrem/h*) (contact)	3.1E+1				
Total Dose Rate (*mrem/h*) (1 meter)	1.0E+0				
Alpha Contamination (*dpm/100cm^2*) (*rem*)	0.0E+0				
Beta-Gamma Cont. (*dpm/100cm^2*) (*rem*)	0.0E+0				

The data in this section were collected according to approved procedures.

Name CHACON HAROLD K | Znumber 116142 | Date DEC 3 1998

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by TRU Waste Management. The generator is authorized to arrange transportation to TA-54.	Name: STAFFORD DARRIK G	
	Znumber: 110010	Date: JAN 29 1999

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to pickup according to approved procedures and was found to be free of obvious damage or defects.	Inspector's Stamp Number: 2 DGS	Date (*Inspection Valid for 30 Days*): 02/22/99

6. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (*mrem/h*)	2.0E-11	Survey Meter Model: RO-20	Property Number: 6047	Calibration Void Date: 7/28/99
Neutron Dose Rate (*mrem/h*)	3.0E-10	Survey Meter Model: ESP/PED	Property Number: 6110	Calibration Void Date: 8/19/99
Total Dose Rate (*mrem/h*)	2.3E-11	*The data in this section were collected according to approved procedures.*		
Alpha Contamination (*dpm/100cm²*)	0.0E+10	Printed Name: Tony L Bishop		Date: 3-1-99
Beta-Gamma Cont. (*dpm/100cm²*)	0.0E+10	Signature: T L Bishop		

7. STORAGE SITE INFORMATION

Received By (*Initials*): GW	Date Received: 2-23-99	ORIGINAL STORAGE DATA			
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		Building Number: 283	Layer: 3	Row Number: 7	
		Column Number: 89	Date Stacked (MM,DD,YY): 03/03/99		
Printed Name: Gail M. Welsh	Date: 2-23-99	Printed Name: Gail M. Welsh		Date: 3-15-99	
Signature: Gail M. Welsh		Signature: Gail M. Welsh			

8. WASTE ACCEPTANCE OFFICE

NCR Number	Hold Tag Number	Initials/Date	NCR Description	WE Number	Initials/Date

9. DATA MANAGEMENT INFORMATION

	MMDDYY	Printed Name	Signature
Date Entered In Database	032599	R MARTINEZ	R Martinez
Date Entry Verified	032599	Charlotte Fernandez	Charlotte Fernandez

10. DUPLICATE COPY

	MMDDYY	Printed Name	Signature
Date Duplicate Filed	032999	R MARTINEZ	R Martinez

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
56889

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None

☐ Other (Call TWCO)	Type	Thickness (in.)
Filter Serial No. 01		
Filter Serial No. 02		

Waste Profile Number 50823

Hazardous Materials		
Name	**EPA Code**	**Quantity (g)**
Lead	D008	454

Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
DAVIS CHRISTENSEN		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/10/11 CS

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000057189

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order # 2328415	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	[X] Ring, Bolt, and Nut	[X] Chime	[X] Dents
	[X] Lid and Gasket	[X] Gouges	[X] Paint
Name GALLEGOS MICHAEL	Znumber 087896		Date FEB 3 1999

2. GENERATOR'S PACKAGE INFORMATION

Group NMT-7	Technical Area 55	Building PF-4	Program Code 8J0700 KG19 2000 1000	[ ] Off-Normal

Additional Information: TID

CONTAINER	LINER
[X] Steel Drum (*55 gal.*)	[X] None
[ ] Steel Drum (*85 gal.*)	[ ] 90 mil liner
[ ] Standard Waste Box	[ ] 125 mil liner
[ ] RH Canister	INTERNAL SHIELDING
[ ] Other (*Call TWCO*)	[X] None
[ ] Overpack	Type / Thickness (*in.*)
Carbon Filter ID 01 1989	
Carbon Filter ID 02	

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
PU-238	2.846E-2	2.166E-2	M
PU-239	4.682E-3	3.564E-3	M
PU-240	6.446E-4	4.907E-4	M
PU-241	1.086E-4	8.264E-5	M
PU-242	3.053E-5	2.324E-5	M
AM-241	5.801E-5	4.416E-5	M

Waste Profile Request Number	30793
Process Batch Code	NA
Gross Weight (*lb.*)	1.25E+2
Net Weight (*lb.*)	6.44E+1
Shipping Category	2001700280
LANL Waste Stream ID	TA-55-5
TRUCON Code	117B
Date Closed (*MMDDYY*)	APR 12 1999

[ ] PDP Program Tracking No:

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (*g*)
None		

Accumulation Start Date (*MMDDYY*)

The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures.

Name WULFF DENNIS R | Znumber 093089 | Date MAY 6 1999

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

		Survey Date	Survey Meter Model	Property	Calibration Void Date
Gamma Dose Rate (*mrem/h*) (contact)	2.0E-1	APR 19 1999	RO20	006487	JUN 8 1999
Neutron Dose Rate (*mrem/h*) (contact)	8.0E-1	APR 19 1999	PNR-4	004904	APR 28 1999
Total Dose Rate (*mrem/h*) (contact)	1.0E+0				
Total Dose Rate (*mrem/h*) (1 meter)	0.0E+0				
Alpha Contamination (*dpm/100cm^2*) (*rem*)	0.0E+0				
Beta-Gamma Cont. (*dpm/100cm^2*) (*rem*)	0.0E+0				

The data in this section were collected according to approved procedures.

Name CHACON HAROLD K

Znumber 116142 | Date APR 19 1999

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by TRU Waste Management. The generator is authorized to arrange transportation to TA-54.	Name STAFFORD DARRIK G	
	Znumber 110010	Date MAY 17 1999

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to pickup according to approved procedures and was found to be free of obvious damage or defects.	Inspector's Stamp Number: D65	Date (*Inspection Valid for 30 Days*) 06/01/99

6. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (*mrem/h*)	10 E-10	Survey Meter Model RO-20	Property Number 3449	Calibration Void Date 8-23-99
Neutron Dose Rate (*mrem/h*)	11.4 E-10	Survey Meter Model ESP/NRD	Property Number 6105	Calibration Void Date 10-30-99
Total Dose Rate (*mrem/h*)	22.4 E-10	*The data in this section were collected according to approved procedures.*		
Alpha Contamination (*dpm/100cm²*)	0.0 E+0	Printed Name S Trujillo		Date 6-4-99
Beta-Gamma Cont. (*dpm/100cm²*)	0.0 E+0	Signature S. Trujillo		

7. STORAGE SITE INFORMATION

Received By (*Initials*) GW	Date Received 6-2-99	ORIGINAL STORAGE DATA		
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		Building Number 283	Layer Holding Area	Row Number
		Column Number	Date Stacked (MM,DD,YY) 06 08 99	
Printed Name Gail M. Welsh	Date 6-4-99	Printed Name Gail M. Welsh		Date 6-14-99
Signature Gail M. Welsh		Signature Gail M. Welsh		

8. WASTE ACCEPTANCE OFFICE

NCR Number	Hold Tag Number	Initials/Date	NCR Description	WE Number	Initials/Date

9. DATA MANAGEMENT INFORMATION

	MM DD YY			
Date Entered In Database	06 25 99	Printed Name R MARTINEZ	Signature R Martinez	
Date Entry Verified	06 25 99	Printed Name Lisa Bustos	Signature Lisa Bustos	

10. DUPLICATE COPY

Date Duplicate Filed	MM DD YY 06 25 99	Printed Name Lisa Bustos	Signature Lisa Bustos

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
57189

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Hazardous Materials		
Name	**EPA Code**	**Quantity (g)**
Lead	D008	454

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Gail Welsh	Gail M. Welsh	11/8/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

11/8/11

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000057335

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order # PR2246691	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging	[X] Ring, Bolt, and Nut	[X] Chime	[X] Dents
	[X] Lid and Gasket	[X] Gouges	[X] Paint
Name LEHMAN CHARLES JR	Znumber 071894		Date NOV 11 1998

2. GENERATOR'S PACKAGE INFORMATION

Group NMT-7	Technical 55	Building PF-4	Program Code 8J0700 KG19 3000 3000

Additional Information TID	RADIONUCLIDE CONTENT			
	Nuclide	Amount	Uncertainty	C=Curie M=Gram
	PU-238	3.275E-2	1.329E-2	M
Container / **Liner**	PU-239	7.597E+1	9.045E+0	M
[X] Steel Drum (55 gal.) / [ ] None	PU-240	5.522E+0	9.096E-1	M
[ ] Steel Drum (85 gal. Overpack) / [ ] 90 mil liner	PU-241	2.487E-1	6.261E-2	M
[ ] Standard Waste Box / [X] 125 mil liner	PU-242	2.719E+0	1.353E+0	M
[ ] RH Canister / INTERNAL SHIELDING	AM-241	2.935E+1	3.062E+1	M
[ ] Other (Cali TWCO) / [ ] None	U-235	4.191E+1	4.191E+1	M
[ ] Standard Waste Box Overpack / Type / Thickness (in.)	U-238	1.709E+1	1.709E+1	M
Carbon Filter ID 01 PS-1908 / LEAD / 6.3E-2				
02				

Waste Profile Request Number 31409	[X] DP [ ] NON DP If Non-DP waste, attach DOE approval document
Process Batch Code NA	
Gross Weight (lb. 7.01E+2	**NONRADIOACTIVE HAZARDOUS MATERIALS**
Net Weight (lb.) 5.35E+2	Name / EPA Code / Quantity (g)
Shipping Category 1000400133	None
LANL Waste Stream ID TA-55-14	
TRUCON Code 114B	
Date Closed (MMDDYY) NOV 18 1999	Accumulation Start Date (MMDDYY)

The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures.

Name VEAZEY GERALD W | Znumber 097730 | Date JUL 2 2003

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

		Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)	3.0E-1	JUN 24 2003	RO3C	002690	SEP 4 2003
Neutron Dose Rate (mrem/h)	1.0E-1	JUN 24 2003	ESP/NRD	006112	OCT 25 2003
Total Dose Rate (mrem/h) (contact)	4.0E-1				
Total Dose Rate (mrem/h) (1 meter)	0.0E+0	*The data in this section were collected accordig to approved procedures*			
Alpha Contamination ($dpm/100cm^2$)	0.0E+0	Name ARCHULETA PAULINE V			
Beta-Gamma Cont. ($dpm/100cm^2$)	0.0E+0	Znumber 116145		Date JUN 26 2003	

Modifications to Computer Generated Data Invalidate this Form

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by TRU Waste Management. The generator is authorized to arrange transportation to TA-54	Name VALDEZ GABRIEL V	
	Znumber 119403	Date JUL 17 2003

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to transport according to approved procedures. It meets WAC packaging and labeling requirements and is free from obvious damage and defects	Printed Name Gabriel Valdez	Date *(Inspection Valid for 30 Days)* 7-31-03
	Signature Gabriel Valdez	

6. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	3.0 E +01	Survey Meter Model RO20	Property Number 9895	Calibration Void Date 9-27-03
Neutron Dose Rate (mrem/h)	2.5 E +01	Survey Meter Model SNRD	Property Number 13590	Calibration Void Date 2-14-04
Total Dose Rate (mrem/h)	5.5 E +01	The data in this section were collected accordig to approved procedures.		
Alpha Contamination (dpm/100cm²)	0.0 E +00	Printed Name Jessica Bustos		Date 8-6-03
Beta-Gamma Cont. (dpm/100cm²)	3.0 E +01	Signature Jessica Bustos		

7. STORAGE SITE INFORMATION

Received By (Initials) JB	Date Received 7-31-03	**ORIGINAL STORAGE DATA**	
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		Building Number 375	Layer	Row Number
		Column Number 26	Date Stacked (MM,DD,YY)	
Printed Name Joe R Lujan	Date 7-31-03	Printed Name Kenny Snodgrass	Date 8-30-04
Signature Joe R Lujan		Signature Kenny Snodgrass	

8. WASTE ACCEPTANCE OFFICE

Initals/Date	WE Description

NCR Number	Initials/Date	NCR Description

9. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered In Database	05 25 04	Printed Name Charlotte Fernandez	Signature Charlotte Fernandez
Date Entry Verified	06 03 04	Printed Name Jolynn Martinez	Signature Jolynn Martinez

10. DUPLICATE COPY

M M D D Y Y

Date Duplicate Filed	06 03 04	Printed Name Jolynn Martinez	Signature Jolynn Martinez

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
57335

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None

☐ Other (Call TWCO)	Type	Thickness (in.)
Filter Serial No. 01		
Filter Serial No. 02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
DAVIS CHRISTENSEN		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/6/11 LP

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000057381

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order # 49661-001	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging	[X] Ring, Bolt, and Nut	[X] Chime	[X] Dents
	[X] Lid and Gasket	[X] Gouges	[X] Paint
Name LEHMAN CHARLES JR	Znumber 071894		Date JUN 20 2002

2. GENERATOR'S PACKAGE INFORMATION

Group NMT-7	Technical 55	Building PF-4	Program Code 8J0700 KG19 3000 3000
Additional Information TID			

Container	Liner
[X] Steel Drum (55 gal.)	[ ] None
[ ] Steel Drum (85 gal. Overpack)	[ ] 90 mil liner
[ ] Standard Waste Box	[X] 125 mil liner
[ ] RH Canister	INTERNAL SHIELDING
[ ] Other (Call TWCO)	[ ] None
[ ] Standard Waste Box Overpack	Type: Thickness (in.):
Carbon Filter ID: 01 LANL-808, 02	LEAD 6.3E-2

Waste Profile Request Number	31409
Process Batch Code	NA
Gross Weight (lb.)	7.23E+2
Net Weight (lb.)	5.57E+2
Shipping Category	1000400133
LANL Waste Stream ID	TA-55-14
TRUCON Code	114B
Date Closed (MMDDYY)	JUL 24 2002

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
PU-238	1.623E-3	2.660E-5	M
PU-239	1.522E+1	2.495E-1	M
PU-240	9.735E-1	1.596E-2	M
PU-241	3.245E-2	5.320E-4	M
PU-242	3.245E-3	5.320E-5	M
AM-241	5.995E+0	1.600E-1	M

[X] DP [ ] NON DP If Non-DP waste, attach DOE approval document

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)
None		

Accumulation Start Date (MMDDYY)

The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures.

Name VEAZEY GERALD W | Znumber 097730 | Date JUL 2 2003

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

		Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)	4.0E-1	AUG 15 2002	RO3C	002605	DEC 4 2002
Neutron Dose Rate (mrem/h)	1.0E-1	AUG 15 2002	ESP/NRD	008025	AUG 28 2002
Total Dose Rate (mrem/h) (contact)	5.0E-1				
Total Dose Rate (mrem/h) (1 meter)	0.0E+0	*The data in this section were collected accordig to approved procedures*			
Alpha Contamination (dpm/100cm^2)	0.0E+0	Name ARCHULETA PAULINE V			
Beta-Gamma Cont. (dpm/100cm^2)	0.0E+0	Znumber 116145		Date AUG 22 2002	

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by TRU Waste Management. The generator is authorized to arrange transportation to TA-54	Name WELSH GAIL M	
	Znumber 114849	Date JUL 8 2003

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to transport according to approved procedures. It meets WAC packaging and labeling requirements and is free from obvious damage and defects	Printed Name Gabriel Toledez	Date *(Inspection Valid for 30 Days)* 7-31-03
	Signature Gabriel Toledez	

6. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	4.0 E 01	Survey Meter Model RO20	Property Number 9895	Calibration Void Date 9-27-03
Neutron Dose Rate (mrem/h)	5.0 E 01	Survey Meter Model SNRD	Property Number 13590	Calibration Void Date 2-14-04
Total Dose Rate (mrem/h)	9.0 E 01	The data in this section were collected accordig to approved procedures.		
Alpha Contamination ($dpm/100cm^2$)	8.3 E 01	Printed Name Jessica Bustos		Date 8-6-03
Beta-Gamma Cont. ($dpm/100cm^2$)	5.7 E 01	Signature Jessica Bustos		

7. STORAGE SITE INFORMATION

Received By (Initials) JB	Date Received 7-31-03	ORIGINAL STORAGE DATA	
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		Building Number 375	Layer / Row Number
		Column Number 10	Date Stacked (MM,DD,YY)
Printed Name Joe E Lujan	Date 7-31-03	Printed Name Sammy Barela	Date 4-30-04
Signature Joe E Lujan		Signature Sammy Barela	

8. WASTE ACCEPTANCE OFFICE

Initals/Date	WE Description

NCR Number	Initials/Date	NCR Description

9. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered In Database	05 25 04	Printed Name Charlotte Fernandez	Signature Charlotte Fernandez	
Date Entry Verified	06 03 04	Printed Name Jolynn Martinez	Signature Jolynn Martinez	

10. DUPLICATE COPY

M M D D Y Y

Date Duplicate Filed	06 03 04	Printed Name Jolynn Martinez	Signature Jolynn Martinez

Form 2177

Los Alamos NATIONAL LABORATORY EST. 1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
57381

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number 58823

Hazardous Materials		
Name	EPA Code	Quantity (g)
Lead	D008	454

Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
DAVIS CHRISTENSEN		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/6/11

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000057617

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order # 49661-001	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging	[X] Ring, Bolt, and Nut	[X] Chime	[X] Dents
	[X] Lid and Gasket	[X] Gouges	[X] Paint
Name SPARKS DAVY A	Znumber 095428		Date JUL 26 2002

2. GENERATOR'S PACKAGE INFORMATION

Group NMT-7	Technical 55	Building PF-4	Program Code 8J0700 KG19 3000 3000

Additional Information
Handling Code: S01,T04 TID

Container	Liner
[X] Steel Drum (55 gal.)	[ ] None
[ ] Steel Drum (85 gal. Overpack)	[ ] 90 mil liner
[ ] Standard Waste Box	[X] 125 mil liner
[ ] RH Canister	INTERNAL SHIELDING
[ ] Other (Call TWCO)	[ ] None
[ ] Standard Waste Box Overpack	Type: LEAD; Thickness (in.): 6.3E-2
Carbon Filter ID: 01 LANL790; 02	

Waste Profile Request Number	31409
Process Batch Code	NA
Gross Weight (lb.)	7.78E+2
Net Weight (lb.)	6.14E+2
Shipping Category	1000400133
LANL Waste Stream ID	TA-55-14
TRUCON Code	114B
Date Closed (MMDDYY)	MAR 4 2003

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
PU-238	5.606E-3	4.937E-4	M
PU-239	5.257E+1	4.630E+0	M
PU-240	3.364E+0	2.962E-1	M
PU-241	1.121E-1	9.874E-3	M
PU-242	1.121E-2	9.874E-4	M
AM-241	7.921E+0	8.300E-2	M

[X] DP [ ] NON DP If Non-DP waste, attach DOE approval document

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)
None		

Accumulation Start Date (MMDDYY)

The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures.

Name VEAZEY GERALD W | Znumber 097730 | Date JUL 28 2003

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

		Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)					
Neutron Dose Rate (mrem/h)		Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)	0.0E+0				
Total Dose Rate (mrem/h) (1 meter)	0.0E+0	*The data in this section were collected accordig to approved procedures*			
Alpha Contamination (dpm/100cm^2)		Name Not Required			
Beta-Gamma Cont. (dpm/100cm^2)		Znumber		Date	

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

e data package for this waste has been reviewed by TRU Waste anagement. The generator is authorized to arrange transportation TA-54	Name WELSH GAIL M	
	Znumber 114849	Date JUL 29 2003

5. PRELOAD VISUAL INSPECTION

is waste package was visually inspected prior to nsport according to approved procedures. It ets WAC packaging and labeling requirements d is free from obvious damage and defects	Printed Name Gail M. Welsh	Date (Inspection Valid for 30 Days) 8-28-03
	Signature Gail M. Welsh	

6. RECEIVING SITE HEALTH PHYSICS INFORMATION

mma Dose Rate (mrem/h)	5.0 E +0	Survey Meter Model RO20	Property Number 6493	Calibration Void Date 10-1-03
utron Dose Rate (mrem/h)	* 8.0 E +0	Survey Meter Model SNRD	Property Number 13137	Calibration Void Date 6-6-04
tal Dose Rate (mrem/h)	13.0 E +0	The data in this section were collected accordig to approved procedures.		
oha Contamination (dpm/100cm²)	5.2 E +1	Printed Name Jessica Bustos		Date 9-15-03
ta-Gamma Cont. (dpm/100cm²)	4.8 E +0	Signature Jessica Bustos		

7. STORAGE SITE INFORMATION

ceived By (initials) RM	Date Received 8-28-03	ORIGINAL STORAGE DATA			
is waste package was visually inspected and found to be properly labeled and good condition. It was accepted and inspected according to approved ocedures.		Building Number 153	Layer	Row Number	
		Column Number 107	Date Stacked (MM,DD,YY) 08 29 03		
nted Name Rick Martinez	Date 8-28-03	Printed Name Rick Martinez		Date 8-29-03	
gnature Rick Martz		Signature Rick Martz			

8. WASTE ACCEPTANCE OFFICE

Initals/Date	WE Description

NCR Number	Initials/Date	NCR Description

9. DATA MANAGEMENT INFORMATION

M M D D Y Y

te Entered in Database 10 2 2 03	Printed Name Jolynn Martinez	Signature Jolynn Martinez	
te Entry Verified 10 2 3 03	Printed Name Lisa Bustos	Signature Lisa Bustos	

10. DUPLICATE COPY

M M D D Y Y

te Duplicate Filed 10 2 8 03	Printed Name Jolynn Martinez	Signature Jolynn Martinez

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number: 57617

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None

☐ Other (Call TWCO)	Type	Thickness (in.)
Filter Serial No. 01		
Filter Serial No. 02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
DAVIS CHRISTENSEN		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/10/11

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000057620

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order # 49661-001	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging	[X] Ring, Bolt, and Nut	[X] Chime	[X] Dents
	[X] Lid and Gasket	[X] Gouges	[X] Paint
Name SPARKS DAVY A	Znumber 095428		Date AUG 16 2002

2. GENERATOR'S PACKAGE INFORMATION

Group NMT-7	Technical 55	Building PF-4	Program Code 8J0700 KG19 3000 3000

Additional Information
Handling Code: S01,T04 TID

Container	Liner
[X] Steel Drum (55 gal.)	[ ] None
[ ] Steel Drum (85 gal. Overpack)	[ ] 90 mil liner
[ ] Standard Waste Box	[X] 125 mil liner
[ ] RH Canister	INTERNAL SHIELDING
[ ] Other (Call TWCO)	[ ] None
[ ] Standard Waste Box Overpack	Type: — Thickness (in.): —
Carbon Filter ID: 01 LANL-795; 02	Type: LEAD Thickness (in.): 6.3E-2

Waste Profile Request Number	31409
Process Batch Code	NA
Gross Weight (lb.)	8.21E+2
Net Weight (lb.)	6.59E+2
Shipping Category	1000400133
LANL Waste Stream ID	TA-55-14
TRUCON Code	114B
Date Closed (MMDDYY)	APR 2 2003

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
PU-238	2.892E-3	1.021E-4	M
PU-239	2.712E+1	9.578E-1	M
PU-240	1.735E+0	6.128E-2	M
PU-241	5.784E-2	2.043E-3	M
PU-242	5.784E-3	2.043E-4	M
AM-241	6.595E+0	7.501E-2	M

[X] DP [ ] NON DP If Non-DP waste, attach DOE approval document

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)
None		

Accumulation Start Date (MMDDYY)

The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures.

Name VEAZEY GERALD W | Znumber 097730 | Date JUL 28 2003

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

		Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)	5.0E-1	APR 3 2003	RO3C	002690	SEP 4 2003
Neutron Dose Rate (mrem/h)	2.0E-1	APR 3 2003	ESP/NRD	007385	AUG 1 2003
Total Dose Rate (mrem/h) (contact)	7.0E-1				
Total Dose Rate (mrem/h) (1 meter)	0.0E+0	*The data in this section were collected accordig to approved procedures*			
Alpha Contamination ($dpm/100cm^2$)	0.0E+0	Name ARCHULETA PAULINE V			
Beta-Gamma Cont. ($dpm/100cm^2$)	0.0E+0	Znumber 116145		Date APR 9 2003	

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by TRU Waste Management. The generator is authorized to arrange transportation to TA-54	Name VALDEZ GABRIEL V	
	Znumber 119403	Date AUG 6 2003

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to transport according to approved procedures. It meets WAC packaging and labeling requirements and is free from obvious damage and defects	Printed Name Gail M. Welsh	Date *(Inspection Valid for 30 Days)* 8-28-03
	Signature Gail M. Welsh	

6. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	5.0 E 01	Survey Meter Model RO20	Property Number 6493	Calibration Void Date 10-1-03
Neutron Dose Rate (mrem/h)	2.5 E 01	Survey Meter Model SNRD	Property Number 13137	Calibration Void Date 6-6-04
Total Dose Rate (mrem/h)	7.5 E 01	The data in this section were collected accordig to approved procedures.		
Alpha Contamination (dpm/100cm²)	9.3 E 01	Printed Name J. Bustos		Date 9-15-03
Beta-Gamma Cont. (dpm/100cm²)	6.9 E 01	Signature Jessica Bustos		

7. STORAGE SITE INFORMATION

Received By (Initials) Rm	Date Received 8-28-03	ORIGINAL STORAGE DATA	
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		Building Number 153	Layer / Row Number
		Column Number 107	Date Stacked (MM,DD,YY) 08 29 03
Printed Name Rick Martinez	Date 8-28-03	Printed Name Rick Martinez	Date 8-29-03
Signature Rick Martz		Signature Rick Martz	

8. WASTE ACCEPTANCE OFFICE

Initals/Date	WE Description

NCR Number	Initials/Date	NCR Description

9. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered In Database	10 22 03	Printed Name Jolynn Martinez	Signature Jolynn Martinez
Date Entry Verified	10 23 03	Printed Name Lisa Bustos	Signature Lisa Bustos

10. DUPLICATE COPY

M M D D Y Y

Date Duplicate Filed	10 28 03	Printed Name Jolynn Martinez	Signature Jolynn Martinez

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
57620

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None

Other (Call TWCO)	Type	Thickness (in.)
Filter Serial No. 01		
Filter Serial No. 02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
DAVIS CHRISTENSEN		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)	*The data in this section were collected according to approved procedures.*			
Total Dose Rate (mrem/h) (1 meter)				
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/10/11

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000057623

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order # 49661-001	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging	[X] Ring, Bolt, and Nut	[X] Chime	[X] Dents
	[X] Lid and Gasket	[X] Gouges	[X] Paint
Name LEHMAN CHARLES JR	Znumber 071894		Date FEB 28 2003

2. GENERATOR'S PACKAGE INFORMATION

Group NMT-7	Technical 55	Building PF-4	Program Code 8J0700 KG19 3000 3000
Additional Information Handling Code: S01,T04 TID			

Container	Liner		
[X] Steel Drum (55 gal.)	[ ] None		
[ ] Steel Drum (85 gal. Overpack)	[ ] 90 mil liner		
[ ] Standard Waste Box	[X] 125 mil liner		
[ ] RH Canister	INTERNAL SHIELDING		
[ ] Other (Call TWCO)	[ ] None		
[ ] Standard Waste Box Overpack	Type	Thickness (in.)	
Carbon Filter ID 01 LANL-816	LEAD	6.3E-2	
02			

Waste Profile Request Number	31409
Process Batch Code	NA
Gross Weight (lb.	7.08E+2
Net Weight (lb.)	5.42E+2
Shipping Category	1000400133
LANL Waste Stream ID	TA-55-14
TRUCON Code	114B
Date Closed (MMDDYY)	APR 27 2003

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
PU-238	4.416E-3	3.175E-4	M
PU-239	4.141E+1	2.978E+0	M
PU-240	2.649E+0	1.905E-1	M
PU-241	8.831E-2	6.350E-3	M
PU-242	8.831E-3	6.350E-4	M
AM-241	7.816E+0	9.800E-2	M

[X] DP [ ] NON DP If Non-DP waste, attach DOE approval document

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)
None		

Accumulation Start Date (MMDDYY)

The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures.

Name VEAZEY GERALD W | Znumber 097730 | Date JUL 28 2003

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)				
Neutron Dose Rate (mrem/h)				

Total Dose Rate (mrem/h) (contact) 0.0E+0	
Total Dose Rate (mrem/h) (1 meter) 0.0E+0	*The data in this section were collected accordig to approved procedures*
Alpha Contamination (dpm/100cm^2)	Name Not Required
Beta-Gamma Cont. (dpm/100cm^2)	Znumber / Date

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by TRU Waste Management. The generator is authorized to arrange transportation to TA-54	Name VALDEZ GABRIEL V	
	Znumber 119403	Date AUG 6 2003

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to transport according to approved procedures. It meets WAC packaging and labeling requirements and is free from obvious damage and defects.	Printed Name Gail M. Welsh	Date 8-28-03 *(Inspection Valid for 30 Days)*
	Signature Gail M. Welsh	

6. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	4.0 E +/- 1	Survey Meter Model RO20	Property Number 6493	Calibration Void Date 10-1-03	
Neutron Dose Rate (mrem/h)	1.2 E +/- 0	Survey Meter Model SNRD	Property Number 13137	Calibration Void Date 6-6-04	
Total Dose Rate (mrem/h)	1.6 E +/- 0	The data in this section were collected accordig to approved procedures.			
Alpha Contamination (dpm/100cm²)	0.0 E +/- 0	Printed Name J. Bustos		Date 9-15-03	
Beta-Gamma Cont. (dpm/100cm²)	1.6 E +/- 0	Signature Jessica Bustos			

7. STORAGE SITE INFORMATION

Received By (Initials) Rm	Date Received 8-28-03	ORIGINAL STORAGE DATA	
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		Building Number 153	Layer / Row Number
		Column Number 107	Date Stacked (MM,DD,YY) 08 29 03
Printed Name Rick Martinez	Date 8-28-03	Printed Name Rick Martinez	Date 8-29-03
Signature Rick Martz		Signature Rick Martz	

8. WASTE ACCEPTANCE OFFICE

Initals/Date	WE Description

NCR Number	Initials/Date	NCR Description

9. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered In Database	11 19 03	Printed Name Jolynn Martinez	Signature Jolynn Martinez
Date Entry Verified	11 19 03	Printed Name Jolynn Martinez	Signature Jolynn Martinez

10. DUPLICATE COPY

M M D D Y Y

Date Duplicate Filed	11 19 03	Printed Name Jolynn Martinez	Signature Jolynn Martinez

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
57623

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None

Other (Call TWCO)	Type	Thickness (in.)
Filter Serial No. 01		
Filter Serial No. 02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials		
Name	**EPA Code**	**Quantity (g)**
Lead	D008	454

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
DAVIS CHRISTENSEN		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/5/11

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000057671

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order # 52073	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging	[X] Ring, Bolt, and Nut	[X] Chime	[X] Dents
	[X] Lid and Gasket	[X] Gouges	[X] Paint
Name ORTEGA LORETTA T	Znumber 117237		Date OCT 29 2007

2. GENERATOR'S PACKAGE INFORMATION

Group C-AAC	Technical 3	Building 29	Program Code 3C010A KT11 7000 0001
Additional Information Handling Code: S01	TID Physical Form: Solid		

Container	Liner
[X] Steel Drum (55 gal.)	[X] None
[ ] Steel Drum (85 gal. Overpack)	[ ] 90 mil liner
[ ] Standard Waste Box	[ ] 125 mil liner
[ ] RH Canister	**INTERNAL SHIELDING**
[ ] Other (Call TWCO)	[X] None
[ ] Standard Waste Box Overpack	Type / Thickness (in.)
Carbon Filter ID 01 JH565	
02	

Waste Profile Request Number	35758
Process Batch Code	NA
Gross Weight (lb.)	1.34E+2
Net Weight (lb.)	6.90E+1
Shipping Category	3003400681
LANL Waste Stream ID	TA-3-10
TRUCON Code	125F
Date Closed (MMDDYY)	NOV 4 2008

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
PU-238	5.130E-5	4.620E-6	M
PU-239	4.811E-1	4.333E-2	M
PU-240	3.078E-2	2.772E-3	M
PU-241	1.026E-3	9.240E-5	M
PU-242	1.026E-4	9.240E-6	M
AM-241	7.330E-3	8.810E-4	M
AM-243	1.570E-4	1.000E-5	M
NP-237	1.780E-3	2.030E-4	M
U-235	1.070E-1	4.083E-2	M
U-238	8.050E-3	3.073E-3	M

[X] DP [ ] NON DP If Non-DP waste, attach DOE approval document

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)
None		

Accumulation Start Date (MMDDYY)

The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures.

Name ORTEGA LORETTA T	Znumber 117237	Date NOV 6 2008

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

		Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)					
Neutron Dose Rate (mrem/h)		Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)	0.0E+0				
Total Dose Rate (mrem/h) (1 meter)	0.0E+0	*The data in this section were collected accordig to approved procedures*			
Alpha Contamination ($dpm/100cm^2$)		Name Not Required			
Beta-Gamma Cont. ($dpm/100cm^2$)		Znumber		Date	

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by TRU Waste Management. The generator is authorized to arrange transportation to TA-54	Name MULLEN LORI A	
	Znumber 102337	Date NOV 17 2008

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to transport according to approved procedures. It meets WAC packaging and labeling requirements and is free from obvious damage and defects	Printed Name José D. Ortega	Date *(Inspection Valid for 30 Days)* 4-29-09
	Signature José D. Ortega	

6. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	1.0 E ± 0	Survey Meter Model R020	Property Number 12721	Calibration Void Date 10-7-09
Neutron Dose Rate (mrem/h)	2.5 E ± 1	Survey Meter Model SNRD	Property Number 13135	Calibration Void Date 3-6-10
Total Dose Rate (mrem/h)	1.25 E ± 0	The data in this section were collected accordig to approved procedures.		
Alpha Contamination ($dpm/100cm^2$)	2.0 E ± 0	Printed Name Jessica Bustos		Date 4-29-09
Beta-Gamma Cont. ($dpm/100cm^2$)	0.0 E ± 0	Signature Jessica Bustos		

7. STORAGE SITE INFORMATION

Received By (Initials)	Date Received 4/29/09	ORIGINAL STORAGE DATA		
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		Building Number 901	Layer N/A	Row Number N/A
		Column Number N/A	Date Stacked (MM,DD,YY) 04 29 09	
Printed Name Alfred D. Vega	Date 4/29/09	Printed Name Alfred D. Vega		Date 4/29/09
Signature		Signature		

8. WASTE ACCEPTANCE OFFICE

Initals/Date	WE Description

NCR Number	Initials/Date	NCR Description

9. DATA MANAGEMENT INFORMATION

	M M D D Y Y		
Date Entered In Database		Printed Name	Signature
Date Entry Verified		Printed Name	Signature

10. DUPLICATE COPY

	M M D D Y Y		
Date Duplicate Filed		Printed Name	Signature

Entered 5/1/09

Entered 5/1/09

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
57671

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None

☐ Other (Call TWCO)	Type	Thickness (in.)
Filter Serial No. 01		
Filter Serial No. 02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Gail Welsh	Gail M. Welsh	6/17/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

6/21/2011

6-16-11

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000058196

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order #	PR2676197	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.		[X] Ring, Bolt, and Nut	[X] Chime	[X] Dents
		[X] Lid and Gasket	[X] Gouges	[X] Paint
Name	VIGIL ROBERT A	Znumber	091564	Date APR 27 2000

2. GENERATOR'S PACKAGE INFORMATION

Group	Technical Area	Building	Program Code
NMT-7	55	PF-4	8J0700 KG19 3000 2000

Additional Information: TID

CONTAINER	LINER
[X] Steel Drum (*55 gal.*)	[X] None
[ ] Steel Drum (*85 gal.* Overpack)	[ ] 90 mil liner
[ ] Standard Waste Box	[ ] 125 mil liner
[ ] RH Canister	INTERNAL SHIELDING
[ ] Other (*Call TWCO*)	[X] None
[ ] Standard Waste Box Overpack	Type / Thickness (*in.*)
Carbon Filter ID 01 FS-999	
Carbon Filter ID 02	

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
PU-238	5.608E-3	5.649E-4	M
PU-239	5.259E+1	5.298E+0	M
PU-240	3.365E+0	3.389E-1	M
PU-241	1.122E-1	1.130E-2	M
PU-242	1.122E-2	1.130E-3	M
AM-241	8.917E-2	8.982E-3	M

Waste Profile Request Number	30691
Process Batch Code	NA
Gross Weight (*lb.*)	1.01E+2
Net Weight (*lb.*)	4.33E+1
Shipping Category	3003400110
LANL Waste Stream ID	TA-55-3
TRUCON Code	116E
Date Closed (*MMDDYY*)	DEC 7 2000

[X] DP [ ] NON DP If Non-DP waste, attach DOE approval documentation

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (*g*)
None		

Accumulation Start Date (*MMDDYY*)

The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures.

Name	Znumber	Date
WULFF DENNIS R	093089	APR 9 2001

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

		Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (*mrem/h*) (contact)	7.0E+1	DEC 13 2000	RO20	006489	FEB 22 2001
Neutron Dose Rate (*mrem/h*) (contact)	8.0E-1	DEC 13 2000	SNRD	013113	MAR 17 2001
Total Dose Rate (*mrem/h*) (contact)	7.1E+1				
Total Dose Rate (*mrem/h*) (1 meter)	5.0E+0				
Alpha Contamination ($dpm/100cm^2$)	0.0E+0				
Beta-Gamma Cont. ($dpm/100cm^2$)	0.0E+0				

The data in this section were collected according to approved procedures.

Name	Znumber	Date
CHACON HAROLD K	116142	DEC 13 2000

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by TRU Waste Management. The generator is authorized to arrange transportation to TA-54.	Name: ARMIJO JODY A	
	Znumber: 108696	Date: MAY 31 2001

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to transport according to approved procedures. It meets WAC packaging and labeling requirements and is free from obvious damage and defects.	Printed Name: Jody Armijo	Date (Inspection Valid for 30 Days): 9-17-01
	Signature: Jody L. Armijo	

6. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	7.0 E ± 1	Survey Meter Model: RO-20	Property Number: 9848	Calibration Void Date: 10-11-01
Neutron Dose Rate (mrem/h)	1.7 E ± 0	Survey Meter Model: E600/SNRD	Property Number: 12048 / 13136	Calibration Void Date: 11-14-01 / 4-2-02
Total Dose Rate (mrem/h)	7.2 E ± 1	The data in this section were collected according to approved procedures.		
Alpha Contamination ($dpm/100cm^2$)	0.0 E + 0	Printed Name: Tony L Bishop		Date: 10/2/01
Beta-Gamma Cont. ($dpm/100cm^2$)	0.0 E + 0	Signature: Tony L Bishop		

7. STORAGE SITE INFORMATION

Received By (initials): Gv	Date Received: 9-21-01	ORIGINAL STORAGE DATA		
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		Building Number: 283	Layer: 03	Row Number: 08
		Column Number: 91	Date Stacked (MM,DD,YY): 09 25 01	
Printed Name: Gabriel Valdez	Date: 9-21-01	Printed Name: Gabriel Valdez		Date: 10-10-01
Signature: Gabriel Valdez		Signature: Gabriel Valdez		

8. WASTE ACCEPTANCE OFFICE

Initials/Date	WE Description

NCR Number	Initials/Date	NCR Description

9. DATA MANAGEMENT INFORMATION

	M M D D Y Y	Printed Name	Signature
Date Entered In Database	10 10 1	Michelle P. Campos	Michelle Campos
Date Entry Verified	10 21 2 011	Charlotte Fernandez	Charlotte Fernandez

10. DUPLICATE COPY

	M M D D Y Y	Printed Name	Signature
Date Duplicate Filed	12 17 01	Eric Carlos Romero	Eric Romero

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number 58196

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Gail Welsh	Gail Welsh	6/17/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Form 2177 (6/10) 6/21/2011

6-16-11

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000059204

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order # 31766-00-1-01

This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.

Inspected Items: ☑ Ring, Bolt, and Nut; ☑ Chime; ☑ Dents; ☑ Lid and Gasket; ☑ Gouges; ☑ Paint

Printed Name	Signature	Date
Robert Rios	Robert Rios	10/21/01

2. GENERATOR'S PACKAGE INFORMATION

Group	Technical Area	Building	Cost Center	Program Code	Cost Acct.	Work Pkg.
KRES-MT	50	69	7H01	M348	0101	0510

Additional Information: Drum was previously Lot #1 Barcode 2196824 Drum Filter # LANL 309

Container	Liner
☑ Steel Drum (55 gal.)	☐ None
☐ Steel Drum (85 gal. Overpack)	☑ 90 mil liner
☐ Standard Waste Box	☐ 125 mil liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☑ None
☐ Other (Call TWCO)	Type / Thickness (in.)
Drum Carbon Filter ID 01 6101 LANL 506	
02	

Waste Profile Number: 34246

Process Batch Code:

Gross Weight (lb.): 1.31 E+02

Net Weight (lb.): 5.7 E+01

Shipping Category: 2001700108

LANL Waste Stream ID: TA50-02

TRUCON Code: 117F

Date Closed (MM/DD/YY): 11-15-01

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
Am241	2.05 E+02	. E+-	C
Cs137	1.95 E+08	. E+-	C
Na22	4.82 E+08	. E+-	C
Np237	2.40 E+07	. E+-	C
Pu238	3.52 E+01	. E+-	C
Pu239	2.92 E+02	. E+-	C
Pu241	2.21 E+01	. E+-	C
Th228	5.45 E+07	. E+-	C
U235	3.33 E+07	. E+-	C
	. E+-	. E+-	
	. E+-	. E+-	

☑ DP ☐ NON-DP If Non-DP waste, attach DOE approval documentation.

NONRADOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)
None		. E+-
		. E+-
		. E+-

Accumulation Start Date (MM/DD/YY):

The data in this section were collected, and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Joseph Valdez	Joseph Valdez	11-15-01

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

		Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)	<0.1 E+-0	11/15/01	Eberline RO20	9860	2/10/02
Neutron Dose Rate (mrem/h) (contact)	<0.1 E+-0	11/15/01	SNRD	13596	4/23/02
Total Dose Rate (mrem/h) (contact)	<0.1 E+-0				
Total Dose Rate (mrem/h) (1 meter)	MDA E+-0				
Alpha Contamination (dpm/100cm²)	<MDA E+-0				
Beta-Gamma Cont. (dpm/100cm²)	<MDA E+-0				

The data in this section were collected according to approved procedures.

Printed Name	Signature	Date
Randy Martinez	Randy Martinez	11/15/01

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed. Based on the information provided, this waste meets the WAC requirements for storage at TA-54.	Printed Name: Jody Armijo	Date: 8/27/02
	Signature: Jody Armijo	

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to transport according to approved procedures. It meets WAC packaging and labeling requirements and is free from obvious damage and defects.	Printed Name: Jody Armijo	Date (Inspection Valid for 30 Days): 9/4/02
	Signature: Jody Armijo	

6. RECEIVING SITE HEATH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h) (contact)	0.0 E 0	Survey Date: 9-13-02	Survey Meter Model: RO20	Property Number: 6476	Calibration Void Date: 1-9-03
Neutron Dose Rate (mrem/h) (contact)	0.0 E 0	Survey Date: 9-13-02	Survey Meter Model: SURO	Property Number: 13743	Calibration Void Date: 7-1-03
Total Dose Rate (mrem/h) (contact)	0.0 E 0				
Total Dose Rate (mrem/h) (1 meter)	0.0 E 0	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm²)	0.0 E 0	Printed Name: J.T. Miller			
Beta-Gamma Cont. (dpm/100cm²)	0.0 E 0	Signature: J.T. Miller		Date: 9-17-02	

7. STORAGE SITE INFORMATION

Received By (Initials): L.B.	Date Received: 9-03-02	ORIGINAL STORAGE DATA	
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		Building Number:	Layer: 914 / Row Number:
		Column Number:	Date Stacked (MM/DD/YY): 9-13-02
Printed Name: Larry Brito	Date: 9-06-02	Printed Name: Larry Brito	Date: 10-10-02
Signature: Larry Brito		Signature: Larry Brito	

8. WASTE ACCEPTANCE OFFICE

Initials/Date	WE Description

NCR Number	Initials/Date	NCR Description

9. DATA MANGEMENT INFORMATION

	M M	D D	Y Y	Printed Name	Signature
Data Entered in Database	1 1	0 5	0 2	Charlotte Fernandez	Charlotte Fernandez
Date Entry Verified	1 1	0 6	0 2	Billy Martinez	Billy Martinez

10. DUPLICATE COPY

	M M	D D	Y Y	Printed Name	Signature
Date Duplicate Filed	1 1	0 6	0 2	Michelle Martinez	Michelle Martinez

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number 59204

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Gail Welsh	Gail M. Welsh	11/8/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

11/8/11

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000059277

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order # 41278-001-02	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☑ Ring, Bolt, and Nut	☑ Chime	☑ Dents
	☑ Lid and Gasket	☑ Gouges	☑ Paint

Printed Name	Signature	Date
Steve Martinez		10/23/02

2. GENERATOR'S PACKAGE INFORMATION

Group	Technical Area	Building	Cost Center	Program Code	Cost Acct.	Work Pkg.
RRES-AT	50	69	~~7H0100~~ 7H07	M348	0101	0510

Additional Information: Bag filter # LANL-423 DOM 5/01; 55966>>59277

GW 7/2/03

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
See Original TWSR	. E + -	. E + -	
	. E + -	. E + -	
	. E + -	. E + -	
	. E + -	. E + -	
	. E + -	. E + -	
	. E + -	. E + -	
	. E + -	. E + -	
	. E + -	. E + -	
	. E + -	. E + -	
	. E + -	. E + -	

Container	Liner	Internal Shielding
☑ Steel Drum (55 gal.)	☐ None	☑ None
☐ Steel Drum (85 gal. Overpack)	☑ 90 mil liner	
☐ Standard Waste Box	☐ 125 mil liner	
☐ Standard Waste Box Overpack		
☐ RH Canister		
☐ Other (Call TWCO)	Type:	Thickness (in.):

Carbon Filter ID: 01 LANL-173; 02 DOM 6/01

Waste Profile Number: 32358

Process Batch Code:

☑ DP ☐ NON-DP If Non-DP waste, attach DOE approval documentation.

Gross Weight (lb.): 11.82 E + - +1

Net Weight (lb.): 45.0 E + - 0

Shipping Category: 30 0340 0108

LANL Waste Stream ID: TA-55-19

TRUCON Code: LA 116F

Date Closed (MM/DD/YY): 11/5/02

Accumulation Start Date (MM/DD/YY): N/A

NONRADOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)
None		. E + -
		. E + -
		. E + -

The data in this section were collected, and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Joshua L. Lopez		11/5/02

3. GENERATOR/SITE HEALTH PHYSICS INFORMATION

		Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)	3.2 E + . 0	11/7/02	Eberline	6500	4/9/03
Neutron Dose Rate (mrem/h) (contact)	<0.1 E + . 0	11/7/02	SNRD	13113	4/26/03
Total Dose Rate (mrem/h) (contact)	3.2 E + . 0				
Total Dose Rate (mrem/h) (1 meter)	NDA E + -				
Alpha Contamination (dpm/100cm²)	<MDA E + -				
Beta-Gamma Cont. (dpm/100cm²)	<MDA. E + -				

The data in this section were collected according to approved procedures.

Printed Name	Signature	Date
Richard Netzer		11/7/02

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed. Based on the information provided, this waste meets the WAC requirements for storage at TA-54.	Printed Name: Jody Arnold	Date: 12/18/02
	Signature: Jody Arnold	

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to transport according to approved procedures. It meets WAC packaging and labeling requirements and is free from obvious damage and defects.	Printed Name: Gail M. Webb	Date (Inspection Valid for 30 Days): 6-11-03
	Signature: Gail M. Webb	

6. RECEIVING SITE HEATH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h) (contact)	3.5 E +0	Survey Date: 6-12-03	Survey Meter Model: R420	Property Number: 9878	Calibration Void Date: 10-15-03
Neutron Dose Rate (mrem/h) (contact)	9.0 E +1	Survey Date: 6-12-03	Survey Meter Model: SNRD	Property Number: 13743	Calibration Void Date: 7-1-03
Total Dose Rate (mrem/h) (contact)	4.4 E +0				
Total Dose Rate (mrem/h) (1 meter)	1.0 E +0	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm²)	2.3 E +0	Printed Name: Jessica Bustos			
Beta-Gamma Cont. (dpm/100cm²)	1.9 E +0	Signature: Jessica Bustos		Date: 6-23-03	

7. STORAGE SITE INFORMATION

Received By (Initials): L.B.	Date Received: 6-11-03	ORIGINAL STORAGE DATA	
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		Building Number: 900	Layer	Row Number
		Column Number	Date Stacked (MM/DD/YY): 6-11-03
Printed Name: Larry Brito	Date: 6-23-03	Printed Name: Larry Brito	Date: 6-23-03
Signature: Larry Brito		Signature: Larry Brito	

8. WASTE ACCEPTANCE OFFICE

Initials/Date	WE Description

NCR Number	Initials/Date	NCR Description

9. DATA MANGEMENT INFORMATION

	M M	D D	Y Y		
Data Entered in Database	07	30	03	Printed Name: Jolynn Martinez	Signature: Jolynn Martinez
Date Entry Verified	07	31	03	Printed Name: Blair Romero	Signature: Blair Romero

10. DUPLICATE COPY

	M M	D D	Y Y		
Date Duplicate Filed	08	04	03	Printed Name: Jolynn Martinez	Signature: Jolynn Martinez

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number 59277

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Gail Welsh	Gail M. Welsh	11/8/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Form 2177 (6/10)

11/8/11

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000059290

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order # 41278-001-02	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☑ Ring, Bolt, and Nut	☑ Chime	☑ Dents
	☑ Lid and Gasket	☑ Gouges	☑ Paint
Printed Name: Joshua L. Lopez	Signature: Joshua Lopez		Date: 11/6/02

2. GENERATOR'S PACKAGE INFORMATION

Group	Technical Area	Building	Cost Center	Program Code	Cost Acct.	Work Pkg.
RRES-AT	50	69	7H0100	M348	0101	0510

Additional Information

Bag filter # LANL-312 DOM 5/01

54653>>59290

Container	Liner
☑ Steel Drum (55 gal.)	☐ None
☐ Steel Drum (85 gal. Overpack)	☑ 90 mil liner
☐ Standard Waste Box	☐ 125 mil liner
☐ Standard Waste Box Overpack	**Internal Shielding**
☐ RH Canister	☑ None
☐ Other (Call TWCO)	Type: — Thickness (in.): . E + -
Carbon Filter ID 01: LANL-1258	Type: — Thickness (in.): . E + -
Carbon Filter ID 02: DOM 9/96	Type: — Thickness (in.): . E + -

Waste Profile Number: 32358

Process Batch Code:

Gross Weight (lb.): 39.04 E + - +1

Net Weight (lb.): 31.58 E + - +1

Shipping Category: 30 0340 0108

LANL Waste Stream ID: TA-00-02

TRUCON Code: LA 125D

Date Closed (MM/DD/YY): 11/19/02

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
See Original TWSR	. E + -	. E + -	
	. E + -	. E + -	
	. E + -	. E + -	
	. E + -	. E + -	
	. E + -	. E + -	
	. E + -	. E + -	
	. E + -	. E + -	
	. E + -	. E + -	
	. E + -	. E + -	
	. E + -	. E + -	

☑ DP ☐ NON-DP If Non-DP waste, attach DOE approval documentation.

NONRADOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)
None		. E + -
		. E + -
		. E + -

Accumulation Start Date (MM/DD/YY): N/A

The data in this section were collected, and waste described herein was packaged and labeled according to approved procedures.

Printed Name: Steve Martinez | Signature: Steve Martinez | Date: 11/19/02

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

		Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)	1.0 E + - 0	11/19/02	Eberline	6500	4/9/03
Neutron Dose Rate (mrem/h) (contact)	<0.1 E + - 0	Survey Date 11/19/02	Survey Meter Model SNRD	Property Number 13113	Calibration Void Date 4/26/03
Total Dose Rate (mrem/h) (contact)	1.0 E + - 0				
Total Dose Rate (mrem/h) (1 meter)	NDA E + -	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm²)	<MDA E + -	Printed Name: Richard Netzer			
Beta-Gamma Cont. (dpm/100cm²)	<MDA. E + -	Signature: Richard Netzer		Date: 11/19/02	

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed. Based on the information provided, this waste meets the WAC requirements for storage at TA-54.	Printed Name Gail M. Welsh	Date 1/14/03
	Signature Gail M. Welsh	

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to transport according to approved procedures. It meets WAC packaging and labeling requirements and is free from obvious damage and defects.	Printed Name Gail M. Welsh	Date (Inspection Valid for 30 Days) 2/5/03
	Signature Gail M. Welsh	

6. RECEIVING SITE HEATH PHYSICS INFORMATION

		Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)	4.5 E +0	2-19-03	RO20	9871	7-10-03
Neutron Dose Rate (mrem/h) (contact)	0.0 E +0	2-19-03	SWRD	1374	7-1-03
Total Dose Rate (mrem/h) (contact)	4.5 E +0				
Total Dose Rate (mrem/h) (1 meter)	2.0 E +0	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm²)	1.6 E +1	Printed Name Jessica Bustos			
Beta-Gamma Cont. (dpm/100cm²)	2.0 E +0	Signature Jessica Bustos		Date 2-19-03	

7. STORAGE SITE INFORMATION

Received By (Initials) L.B.	Date Received 2-5-03	ORIGINAL STORAGE DATA	
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		Building Number 174	Layer / Row Number
		Column Number	Date Stacked (MM/DD/YY) 2-26-03
Printed Name Larry Brito	Date 2-6-03	Printed Name Larry Brito	Date 4-11-03
Signature Larry Brito		Signature Larry Brito	

8. WASTE ACCEPTANCE OFFICE

Initials/Date	WE Description

NCR Number	Initials/Date	NCR Description

9. DATA MANGEMENT INFORMATION

	M M D D Y Y		
Data Entered in Database	0 4 2 1 0 3	Printed Name Charlotte Fernandez	Signature Charlotte Fernandez
Date Entry Verified	0 4 2 2 0 3	Printed Name ZACH SANCHEZ	Signature

10. DUPLICATE COPY

	M M D D Y Y		
Date Duplicate Filed	0 4 2 2 0 3	Printed Name Zach Sanchez	Signature

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number 59290

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Hazardous Materials		
Name	**EPA Code**	**Quantity (g)**
Lead	D008	454

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	
Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Gail Welsh	Gail M. Welsh	11/8/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

11/8/11

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000061034

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order # 75944-001-03A1	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☑ Ring, Bolt, and Nut	☑ Chime	☑ Dents
	☑ Lid and Gasket	☑ Gouges	☑ Paint

Printed Name	Signature	Date
Chris Vigil	Chris Vigil	6/26/03

2. GENERATOR'S PACKAGE INFORMATION GW 8/5/03

Group	Technical Area	Building	Cost Center	Program Code	Cost Acct.	Work Pkg.
RRES-CH	50	69	7H0700	~~M248~~ M325	~~8101~~ 0000	~~0510~~ 0000

Additional Information

Bag filter Nucfil 036 FD-148 DOM 6/03

56665>>61034

Container	Liner
☑ Steel Drum (55 gal.)	☐ None
☐ Steel Drum (85 gal. Overpack)	☑ 90 mil liner
☐ Standard Waste Box	☐ 125 mil liner
☐ Standard Waste Box Overpack	**Internal Shielding**
☐ RH Canister	☑ None
☐ Other (Call TWCO)	Type: — Thickness (in.): . E + -

Carbon Filter ID		Type	Thickness (in.)
01	019 DS CD-19	Nucfil	. E + -
02	DOM 3/03		. E + -

Waste Profile Number 32358

Process Batch Code

Gross Weight (lb.) 24-52 E + - +1

Net Weight (lb.) 16-94 E + - +1

Shipping Category 30 0340 0108

LANL Waste Stream ID TA-55-30

TRUCON Code LA125D

Date Closed (MM/DD/YY) 7/7/03

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
See Original TWSR	. E + -	. E + -	
	. E + -	. E + -	
	. E + -	. E + -	
	. E + -	. E + -	
	. E + -	. E + -	
	. E + -	. E + -	
	. E + -	. E + -	
	. E + -	. E + -	
	. E + -	. E + -	
	. E + -	. E + -	

☑ DP ☐ NON-DP If Non-DP waste, attach DOE approval documentation.

NONRADOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)
none		. E + -
		. E + -
		. E + -

Accumulation Start Date (MM/DD/YY) N/A

The data in this section were collected, and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Joseph Valdez	Joseph Valdez	7/7/03

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

			Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)	1.0	E + - 0	7/7/03	RO-20	6047	10/1/03
Neutron Dose Rate (mrem/h) (contact)	<0.1	E + - 0	7/7/03	NRD	8006	9/16/03
Total Dose Rate (mrem/h) (contact)	1.0	E + - 0				
Total Dose Rate (mrem/h) (1 meter)	NDA	E + -				
Alpha Contamination (dpm/100cm²)	<MDA	E + -				
Beta-Gamma Cont. (dpm/100cm²)	<MDA.	E + -				

The data in this section were collected according to approved procedures.

Printed Name	Signature	Date
Randy Martinez	FOR RANDY MARTINEZ	7/7/03

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed. Based on the information provided, this waste meets the WAC requirements for storage at TA-54.	Printed Name: Gail M. Welsh	Date: 7-11-03
	Signature: Gail M. Welsh	

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to transport according to approved procedures. It meets WAC packaging and labeling requirements and is free from obvious damage and defects.	Printed Name: Gail M. Welsh	Date (Inspection Valid for 30 Days): 7-16-03
	Signature: Gail M. Welsh	

6. RECEIVING SITE HEATH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h) (contact)	1.4 E +0	Survey Date: 7-17-3	Survey Meter Model: RO20	Property Number: 9837	Calibration Void Date: 10-29-3
Neutron Dose Rate (mrem/h) (contact)	~~8.0~~ E +1	Survey Date: 7-17-3	Survey Meter Model: SNRD	Property Number: 13570	Calibration Void Date: 2-14-4
Total Dose Rate (mrem/h) (contact)	1.65 E +0				
Total Dose Rate (mrem/h) (1 meter)	4.5 E +1	The data in this section were collected according to approved procedures.			
Alpha Contamination (dpm/100cm²)	0.0 E +0	Printed Name: Lucero			
Beta-Gamma Cont. (dpm/100cm²)	0.0 E +0	Signature:		Date: 7-25-3	

2-5-01

7. STORAGE SITE INFORMATION

Received By (Initials)	Date Received: 7/16/03	ORIGINAL STORAGE DATA		
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures		Building Number: 49	Layer: N/A	Row Number: N/A
		Column Number: 221	Date Stacked (MM/DD/YY): 10/8/03	
Printed Name: Alfred D. Vell	Date: 7/16/03	Printed Name: Alfred D. Vell		Date: 10/8/03
Signature: Alfred D. Vell		Signature: Alfred D. Vell		

8. WASTE ACCEPTANCE OFFICE

Initials/Date	WE Description

NCR Number	Initials/Date	NCR Description

9. DATA MANGEMENT INFORMATION

	M M D D Y Y	Printed Name	Signature
Data Entered in Database	10 2 2 03	Jolynn Martinez	Jolynn Martinez
Date Entry Verified	10 2 3 03	Bev Martinez	Bev Martinez

10. DUPLICATE COPY

	M M D D Y Y	Printed Name	Signature
Date Duplicate Filed	10 29 03	Jolynn Martinez	Jolynn Martinez

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number 61034

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Gail Welsh	Gail M. Welsh	11/8/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Form 2177 (6/10)

11/8/11

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000061797

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order # 28455 Serial # 31165	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging	[X] Ring, Bolt, and Nut	[X] Chime	[X] Dents
	[X] Lid and Gasket	[X] Gouges	[X] Paint
Name SANCHEZ JUDY J	Znumber 099045		Date OCT 22 2003

2. GENERATOR'S PACKAGE INFORMATION

Group NMT-7	Technical 55	Building PF-4	Program Code 8J0700 KG19 3000 2000
Additional Information Handling Code: S01	TID Physical Form: Solid		

Container	Liner
[X] Steel Drum (55 gal.)	[X] None
[ ] Steel Drum (85 gal. Overpack)	[ ] 90 mil liner
[ ] Standard Waste Box	[ ] 125 mil liner
[ ] RH Canister	**INTERNAL SHIELDING**
[ ] Other (Call TWCO)	[X] None
[ ] Standard Waste Box Overpack	Type / Thickness (in.)
Carbon Filter ID 01 1001-949	
Carbon Filter ID 02 703-21	

Waste Profile Request Number	35245
Process Batch Code	NA
Gross Weight (lb.)	3.70E+2
Net Weight (lb.)	3.00E+1
Shipping Category	3003400486
LANL Waste Stream ID	LA-NHD01
TRUCON Code	125H
Date Closed (MMDDYY)	OCT 27 2003

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
PU-238	1.086E-2	1.974E-4	M
PU-239	1.018E+2	1.851E+0	M
PU-240	6.514E+0	1.184E-1	M
PU-241	2.171E-1	3.948E-3	M
PU-242	2.171E-2	3.948E-4	M
AM-241	1.726E-1	3.139E-3	M

[X] DP [ ] NON DP If Non-DP waste, attach DOE approval document

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)
None		

Accumulation Start Date (MMDDYY)

The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures.

Name GALLEGOS MICHAEL	Znumber 087896	Date OCT 27 2003

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)				
Neutron Dose Rate (mrem/h)				
Total Dose Rate (mrem/h) (contact) 0.0E+0				
Total Dose Rate (mrem/h) (1 meter) 0.0E+0	*The data in this section were collected accordig to approved procedures*			
Alpha Contamination ($dpm/100cm^2$)	Name Not Required			
Beta-Gamma Cont. ($dpm/100cm^2$)	Znumber		Date	

Modifications to Computer Generated Data Invalidate this Form

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by TRU Waste Management. The generator is authorized to arrange transportation to TA-54	Name WELSH GAIL M	
	Znumber 114849	Date NOV 5 2003

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to transport according to approved procedures. It meets WAC packaging and labeling requirements and is free from obvious damage and defects	Printed Name Gail M. Welsh	Date *(Inspection Valid for 30 Days)* 2/3/05
	Signature Gail M. Welsh	

6. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	2.0 E ±01	Survey Meter Model R020	Property Number 6494	Calibration Void Date 5-10-05
Neutron Dose Rate (mrem/h)	5.0 E ±01	Survey Meter Model SNRD	Property Number 13579	Calibration Void Date 11-5-05
Total Dose Rate (mrem/h)	7.0 E ±01	The data in this section were collected accordig to approved procedures.		
Alpha Contamination ($dpm/100cm^2$)	9.8 E ±01	Printed Name Jessica Bustos		Date 2-7-05
Beta-Gamma Cont. ($dpm/100cm^2$)	0.0 E ±00	Signature Jessica Bustos		

7. STORAGE SITE INFORMATION

Received By (Initials) JG	Date Received 2/3/05	**ORIGINAL STORAGE DATA**	
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		Building Number 901	Layer / Row Number
		Column Number	Date Stacked (MM,DD,YY) 02 03 05
Printed Name Ivan Garcia	Date 2/3/05	Printed Name Ivan Garcia	Date 2/3/05
Signature		Signature	

8. WASTE ACCEPTANCE OFFICE

Initals/Date	WE Description

NCR Number	Initials/Date	NCR Description

9. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered In Database	02/10/05	Printed Name Jolynn Martinez	Signature Jolynn Martinez
Date Entry Verified	02/10/05	Printed Name Jolynn Martinez	Signature Jolynn Martinez

10. DUPLICATE COPY

M M D D Y Y

Date Duplicate Filed	02/10/05	Printed Name Jolynn Martinez	Signature Jolynn Martinez

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
61797

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None

☐ Other (Call TWCO)	Type	Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Gail Welsh	Gail M. Welsh	6/17/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Form 2177 (6/10)

Ent 6/21/2011

LM 6-16-11

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000061798

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order # 28455 Serial # 31170,3139	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging	[X] Ring, Bolt, and Nut	[X] Chime	[X] Dents
	[X] Lid and Gasket	[X] Gouges	[X] Paint
Name MONTAGUE CHARLENE L	Znumber 110850		Date OCT 22 2003

2. GENERATOR'S PACKAGE INFORMATION

Group NMT-7	Technical 55	Building PF-4	Program Code 8J0700 KG19 3000 2000
Additional Information Handling Code: S01	TID Physical Form: Solid		

Container	Liner
[X] Steel Drum (55 gal.)	[X] None
[ ] Steel Drum (85 gal. Overpack)	[ ] 90 mil liner
[ ] Standard Waste Box	[ ] 125 mil liner
[ ] RH Canister	**INTERNAL SHIELDING**
[ ] Other (Call TWCO)	[X] None
[ ] Standard Waste Box Overpack	Type / Thickness (in.)
Carbon Filter ID 01 1001-953	
Carbon Filter ID 02 703-28	

Waste Profile Request Number	35245
Process Batch Code	NA
Gross Weight (lb.)	3.70E+2
Net Weight (lb.)	2.92E+1
Shipping Category	3003400486
LANL Waste Stream ID	LA-NHD01
TRUCON Code	125H
Date Closed (MMDDYY)	OCT 23 2003

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
PU-238	1.193E-2	2.206E-4	M
PU-239	1.119E+2	2.069E+0	M
PU-240	7.157E+0	1.324E-1	M
PU-241	2.386E-1	4.412E-3	M
PU-242	2.386E-2	4.412E-4	M
AM-241	1.896E-1	3.508E-3	M

[X] DP [ ] NON DP If Non-DP waste, attach DOE approval document

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)
None		

Accumulation Start Date (MMDDYY)

The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures.

Name GALLEGOS MICHAEL | Znumber 087896 | Date OCT 27 2003

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)				
Neutron Dose Rate (mrem/h)				
Total Dose Rate (mrem/h) (contact) 0.0E+0				
Total Dose Rate (mrem/h) (1 meter) 0.0E+0	*The data in this section were collected accordig to approved procedures*			
Alpha Contamination ($dpm/100cm^2$)	Name Not Required			
Beta-Gamma Cont. ($dpm/100cm^2$)	Znumber		Date	

Modifications to Computer Generated Data Invalidate this Form

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by TRU Waste Management. The generator is authorized to arrange transportation to TA-54	Name WELSH GAIL M	
	Znumber 114849	Date NOV 5 2003

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to transport according to approved procedures. It meets WAC packaging and labeling requirements and is free from obvious damage and defects	Printed Name Gail M. Welsh	Date *(Inspection Valid for 30 Days)* 2-3/05
	Signature Gail M. Welsh	

6. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	5.0 E +/- 1	Survey Meter Model R020	Property Number 6494	Calibration Void Date 5-10-05
Neutron Dose Rate (mrem/h)	6.0 E +/- 1	Survey Meter Model SNRD	Property Number 13579	Calibration Void Date 11-5-05
Total Dose Rate (mrem/h)	1.1 E +/- 0	The data in this section were collected accordig to approved procedures.		
Alpha Contamination (dpm/100cm²)	1.1 E +/- 0	Printed Name Jessica Bustos		Date 2-7-05
Beta-Gamma Cont. (dpm/100cm²)	0.0 E +/- 0	Signature Jessica Bustos		

7. STORAGE SITE INFORMATION

Received By (Initials) JG	Date Received 2/3/05	**ORIGINAL STORAGE DATA**	
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		Building Number 901	Layer / Row Number
		Column Number	Date Stacked (MM,DD,YY) 02 03 05
Printed Name Juan Garcia	Date 2/3/05	Printed Name Juan Garcia	Date 2/3/05
Signature		Signature	

8. WASTE ACCEPTANCE OFFICE

Initals/Date	WE Description

NCR Number	Initials/Date	NCR Description

9. DATA MANAGEMENT INFORMATION

	M M D D Y Y	Printed Name	Signature
Date Entered In Database	02/10/05	Jolynn Martinez	Jolynn Martinez
Date Entry Verified	02/10/05	Jolynn Martinez	Jolynn Martinez

10. DUPLICATE COPY

	M M D D Y Y	Printed Name	Signature
Date Duplicate Filed	02/10/05	Jolynn Martinez	Jolynn Martinez

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
61798

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.		Type	Thickness (in.)
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Gail Welsh	Gail M. Welsh	6/17/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Form 2177 (6/10)

6/16/11

04-218

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000061804

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order # 77929	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging	[X] Ring, Bolt, and Nut	[X] Chime	[X] Dents
	[X] Lid and Gasket	[X] Gouges	[X] Paint
Name AYERS GEORGETTE Y	Znumber 104999		Date OCT 29 2003

2. GENERATOR'S PACKAGE INFORMATION

Group NMT-7	Technical 55	Building PF-4	Program Code 8J0700 KG19 3000 3000
Additional Information Handling Code: S01,T04	TID Physical Form: Solid		

Container	Liner
[X] Steel Drum (55 gal.)	[ ] None
[ ] Steel Drum (85 gal. Overpack)	[ ] 90 mil liner
[ ] Standard Waste Box	[X] 125 mil liner
[ ] RH Canister	INTERNAL SHIELDING
[ ] Other (Call TWCO)	[ ] None
[ ] Standard Waste Box Overpack	Type: LEAD; Thickness (in.): 6.3E-2
Carbon Filter ID: 01 LANL-871; 02	

Waste Profile Request Number	31409
Process Batch Code	NA
Gross Weight (lb.)	7.36E+2
Net Weight (lb.)	5.73E+2
Shipping Category	1000400133
LANL Waste Stream ID	TA-55-14
TRUCON Code	114B
Date Closed (MMDDYY)	DEC 9 2003

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
PU-238	7.767E-3	1.317E-4	M
PU-239	7.284E+1	1.235E+0	M
PU-240	4.660E+0	7.904E-2	M
PU-241	1.553E-1	2.635E-3	M
PU-242	1.553E-2	2.635E-4	M
AM-241	7.440E+0	2.088E-2	M

[X] DP [ ] NON DP If Non-DP waste, attach DOE approval document

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)
None		

Accumulation Start Date (MMDDYY)

The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures.

Name VEAZEY GERALD W | Znumber 097730 | Date FEB 10 2004

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)				
Neutron Dose Rate (mrem/h)				

Total Dose Rate (mrem/h) (contact)	0.0E+0
Total Dose Rate (mrem/h) (1 meter)	0.0E+0
Alpha Contamination ($dpm/100cm^2$)	
Beta-Gamma Cont. ($dpm/100cm^2$)	

The data in this section were collected accordig to approved procedures

Name Not Required

Znumber | Date

Modifications to Computer Generated Data Invalidate this Form

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by TRU Waste Management. The generator is authorized to arrange transportation to TA-54	Name VALDEZ GABRIEL V	
	Znumber 119403	Date FEB 11 2004

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to transport according to approved procedures. It meets WAC packaging and labeling requirements and is free from obvious damage and defects	Printed Name Gail M. Welsh	Date *(Inspection Valid for 30 Days)* 5-27-04
	Signature Gail M. Welsh	

6. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	4.0 E +/- 1	Survey Meter Model	R020	Property Number	9885	Calibration Void Date 10-13-04
Neutron Dose Rate (mrem/h)	1.3 E +/- 0	Survey Meter Model	SNRD	Property Number	13580	Calibration Void Date 1-7-05
Total Dose Rate (mrem/h)	1.7 E +/- 0	The data in this section were collected accordig to approved procedures.				
Alpha Contamination (dpm/100cm²)	2.0 E +/- 0	Printed Name	Jessica Bustos			Date 6-1-04
Beta-Gamma Cont. (dpm/100cm²)	1.0 E +/- 0	Signature	Jessica Bustos			

7. STORAGE SITE INFORMATION

Received By (initials)	Date Received 5/27/04	**ORIGINAL STORAGE DATA**			
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		Building Number 901	Layer —	Row Number —	
		Column Number —	Date Stacked (MM,DD,YY) 05 27 04		
Printed Name Alfred D. Vall	Date 5/27/04	Printed Name Alfred D. Vall		Date 5/27/04	
Signature D. Vall		Signature D. Vall			

8. WASTE ACCEPTANCE OFFICE

Initals/Date	WE Description

NCR Number	Initials/Date	NCR Description

9. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered In Database	01 02 15 04	Printed Name Jolynn Martinez	Signature Jolynn Martinez
Date Entry Verified	01 02 15 04	Printed Name Jolynn Martinez	Signature Jolynn Martinez

10. DUPLICATE COPY

M M D D Y Y

Date Duplicate Filed	01 02 15 04	Printed Name Jolynn Martinez	Signature Jolynn Martinez

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
61804

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number 50823

Hazardous Materials		
Name	**EPA Code**	**Quantity (g)**
Lead	D008	454

Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	
Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
DAVIS CHRISTENSEN		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Form 2177 (6/10)

5/10/11

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000061846

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order # 33144	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging	[X] Ring, Bolt, and Nut	[X] Chime	[X] Dents
	[X] Lid and Gasket	[X] Gouges	[X] Paint
Name SPARKS DAVY A	Znumber 095428	Date APR 20 2006	

2. GENERATOR'S PACKAGE INFORMATION

Group WS-FWS	Technical 55	Building PF-4	Program Code 6G040A KGB3 0000 0000

Additional Information
Handling Code: S01,T04
TID 609465
Physical Form: Solid

Container	Liner
[X] Steel Drum (55 gal.)	[X] None
[ ] Steel Drum (85 gal. Overpack)	[ ] 90 mil liner
[ ] Standard Waste Box	[ ] 125 mil liner
[ ] RH Canister	**INTERNAL SHIELDING**
[ ] Other (Call TWCO)	[ ] None
[ ] Standard Waste Box Overpack	Type: LEAD; Thickness (in.): 6.3E-2
Carbon Filter ID 01 LD255	
02	

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	G=Curie M=Gram
PU-238	6.429E-3	9.683E-5	M
PU-239	6.029E+1	9.081E-1	M
PU-240	3.858E+0	5.810E-2	M
PU-241	1.286E-1	1.937E-3	M
PU-242	1.286E-2	1.937E-4	M
AM-241	7.697E+0	1.026E-1	M

Waste Profile Request Number	31409
Process Batch Code	NA
Gross Weight (lb.)	7.55E+2
Net Weight (lb.)	5.97E+2
Shipping Category	1000400103
LANL Waste Stream ID	TA-55-14
TRUCON Code	114B
Date Closed (MMDDYY)	AUG 24 2006

[ ] DP [X] NON DP If Non-DP waste, attach DOE approval document

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)
None		

Accumulation Start Date (MMDDYY)

The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures.

Name SMITH CHESTER A JR | Znumber 087715 | Date AUG 31 2006

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)				
Neutron Dose Rate (mrem/h)				
Total Dose Rate (mrem/h) (contact)	0.0E+0			
Total Dose Rate (mrem/h) (1 meter)	0.0E+0			
Alpha Contamination ($dpm/100cm^2$)				
Beta-Gamma Cont. ($dpm/100cm^2$)				

The data in this section were collected accordig to approved procedures

Name Not Required
Znumber
Date

Modifications to Computer Generated Data Invalidate this Form

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by TRU Waste Management. The generator is authorized to arrange transportation to TA-54	Name MULLEN LORI A	
	Znumber 102337	Date DEC 18 2006

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to transport according to approved procedures. It meets WAC packaging and labeling requirements and is free from obvious damage and defects	Printed Name Gabriel Valdez	Date *(Inspection Valid for 30 Days)* 2/8/07
	Signature Gabriel Valdez	

6. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	8.0 E ± 0	Survey Meter Model RO20	Property Number 9381	Calibration Void Date 4-24-07	
Neutron Dose Rate (mrem/h)	5.0 E ± 1	Survey Meter Model SNRD	Property Number 18127	Calibration Void Date 10-16-07	
Total Dose Rate (mrem/h)	8.5 E ± 0	The data in this section were collected accordig to approved procedures.			
Alpha Contamination (dpm/100cm²)	1.3 E ± 0	Printed Name Jessica Bustos		Date 2-26-07	
Beta-Gamma Cont. (dpm/100cm²)	5.6 E ± 1	Signature Jessica Bustos			

7. STORAGE SITE INFORMATION

Received By (Initials) JG	Date Received 2-8-07	**ORIGINAL STORAGE DATA**	
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		Building Number 104	Layer 2	Row Number 4
		Column Number 106	Date Stacked (MM,DD,YY) 02 08 07
Printed Name Juan Garcia	Date 2-8-07	Printed Name Juan Garcia	Date 02/08/07
Signature J Garcia		Signature J Garcia	

8. WASTE ACCEPTANCE OFFICE

Initals/Date	WE Description

NCR Number	Initials/Date	NCR Description

9. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered In Database	03 14 07	Printed Name Charlotte Fernandez	Signature Charlotte Fernandez
Date Entry Verified	03 14 07	Printed Name Bev Martinez	Signature Bev Martinez

10. DUPLICATE COPY

M M D D Y Y

Date Duplicate Filed	03 14 07	Printed Name Bev Martinez	Signature Bev Martinez

Form 2177

Los Alamos NATIONAL LABORATORY EST. 1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
61846

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number 50823

Hazardous Materials		
Name	**EPA Code**	**Quantity (g)**
Lead	D008	454

Gross Weight (lb.)
Net Weight (lb.)
Shipping Category
LANL Waste Stream ID
TRUCON Code

Date Closed (MM/DD/YY):
Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
DAVIS CHRISTENSEN		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/10/11 JS.

Form 2177 (6/10)

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000061851

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order # 33144	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging	[X] Ring, Bolt, and Nut	[X] Chime	[X] Dents
	[X] Lid and Gasket	[X] Gouges	[X] Paint
Name ROMERO EDWARD L	Znumber 094476		Date MAY 15 2006

2. GENERATOR'S PACKAGE INFORMATION

Group WS-FWS	Technical 55	Building PF-4	Program Code 6G040A KGB3 0507 0000
Additional Information Handling Code: S01,T04	TID 517579 Physical Form: Solid		

Container	Liner
[X] Steel Drum (55 gal.)	[ ] None
[ ] Steel Drum (85 gal. Overpack)	[ ] 90 mil liner
[ ] Standard Waste Box	[X] 125 mil liner
[ ] RH Canister	**INTERNAL SHIELDING**
[ ] Other (Call TWCO)	[ ] None
[ ] Standard Waste Box Overpack	Type: LEAD; Thickness (in.): 6.3E-2
Carbon Filter ID 01 LD-249	
02	

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
PU-238	5.708E-4	1.251E-5	M
PU-239	5.353E+0	1.173E-1	M
PU-240	3.425E-1	7.506E-3	M
PU-241	1.142E-2	2.502E-4	M
PU-242	1.142E-3	2.502E-5	M
AM-241	5.310E-1	8.246E-3	M

Waste Profile Request Number	31409
Process Batch Code	NA
Gross Weight (lb.	8.08E+2
Net Weight (lb.)	6.51E+2
Shipping Category	1000400103
LANL Waste Stream ID	TA-55-14
TRUCON Code	114B
Date Closed (MMDDYY)	SEP 25 2006

[X] DP [ ] NON DP If Non-DP waste, attach DOE approval document

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)
None		

Accumulation Start Date (MMDDYY)

The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures.

Name SMITH CHESTER A JR | Znumber 087715 | Date OCT 5 2006

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)				
Neutron Dose Rate (mrem/h)				
Total Dose Rate (mrem/h) (contact) 0.0E+0				
Total Dose Rate (mrem/h) (1 meter) 0.0E+0	*The data in this section were collected accordig to approved procedures*			
Alpha Contamination ($dpm/100cm^2$)	Name Not Required			
Beta-Gamma Cont. ($dpm/100cm^2$)	Znumber		Date	

Modifications to Computer Generated Data Invalidate this Form

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by TRU Waste Management. The generator is authorized to arrange transportation to TA-54	Name MULLEN LORI A	
	Znumber 102337	Date DEC 18 2006

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to transport according to approved procedures. It meets WAC packaging and labeling requirements and is free from obvious damage and defects	Printed Name Gabriel Valdez	Date *(Inspection Valid for 30 Days)* 2/8/07
	Signature Gabriel Valdez	

6. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	1.0 E (+) 0	Survey Meter Model R020	Property Number 9381	Calibration Void Date 4-24-07	
Neutron Dose Rate (mrem/h)	2.5 E (+) 1	Survey Meter Model SNRD	Property Number 13127	Calibration Void Date 10-16-07	
Total Dose Rate (mrem/h)	1.25 E (+) 0	The data in this section were collected accordig to approved procedures.			
Alpha Contamination ($dpm/100cm^2$)	1.1 E (+) 0	Printed Name Jessica Bustos		Date 2-26-07	
Beta-Gamma Cont. ($dpm/100cm^2$)	1.4 E (+) 0	Signature Jessica Bustos			

7. STORAGE SITE INFORMATION

Received By (Initials) JG	Date Received 2-8-07	ORIGINAL STORAGE DATA			
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		Building Number 104	Layer 1	Row Number 5	
		Column Number 106	Date Stacked (MM,DD,YY) 02 08 07		
Printed Name Juan Garcia	Date 2-8-07	Printed Name Juan Garcia		Date 02-8-07	
Signature Juan Garcia		Signature Juan Garcia			

8. WASTE ACCEPTANCE OFFICE

Initals/Date	WE Description

NCR Number	Initials/Date	NCR Description

9. DATA MANAGEMENT INFORMATION

	M M D D Y Y	Printed Name	Signature
Date Entered In Database	03 14 07	Charlotte Fernandez	Charlotte Fernandez
Date Entry Verified	03 14 07	Bev Martinez	Bev Martinez

10. DUPLICATE COPY

	M M D D Y Y	Printed Name	Signature
Date Duplicate Filed	03 14 07	Bev Martinez	Bev Martinez

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
61851

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
DAVIS CHRISTENSEN		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/10/11 LM

Form 2177 (6/10)

Los Alamos NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000062456

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order # 58494	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging	[X] Ring, Bolt, and Nut	[X] Chime	[X] Dents
	[X] Lid and Gasket	[X] Gouges	[X] Paint
Name WULFF DENNIS R	Znumber 093089		Date SEP 20 2005

2. GENERATOR'S PACKAGE INFORMATION

Group NMT-7	Technical 55	Building PF-4	Program Code 8J0700 KG11 0103 0200

Additional Information	TID
Handling Code: S01	Physical Form: Solid
Oversize TRU waste. Beryllium contamina	
ted.	

Container	Liner
[ ] Steel Drum (55 gal.)	[X] None
[ ] Steel Drum (85 gal. Overpack)	[ ] 90 mil liner
[ ] Standard Waste Box	[ ] 125 mil liner
[ ] RH Canister	**INTERNAL SHIELDING**
[X] Other (Call TWCO)	[X] None
[ ] Standard Waste Box Overpack	Type / Thickness (in.)
Carbon Filter ID 01 024681	
02 024688	

Waste Profile Request Number	36759
Process Batch Code	NA
Gross Weight (lb.	3.79E+3
Net Weight (lb.)	1.90E+3
Shipping Category	0000000000
LANL Waste Stream ID	TA-55-30
TRUCON Code	TBD
Date Closed (MMDDYY)	NOV 17 2005

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
PU-238	2.571E-4	1.017E-3	M
PU-239	2.411E+0	9.540E+0	M
PU-240	1.543E-1	6.103E-1	M
PU-241	5.142E-3	2.034E-2	M
PU-242	5.142E-4	2.034E-3	M
AM-241	4.088E-3	1.617E-2	M

[X] DP [ ] NON DP If Non-DP waste, attach DOE approval document

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)
arsenic	D004	-1.0
barium	D005	-1.0
cadmium	D006	-1.0

Accumulation Start Date (MMDDYY) OCT 17 2003

The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures.

Name WULFF DENNIS R	Znumber 093089	Date JAN 23 2006

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)				
Neutron Dose Rate (mrem/h)				
Total Dose Rate (mrem/h) (contact) 0.0E+0				
Total Dose Rate (mrem/h) (1 meter) 0.0E+0	*The data in this section were collected accordig to approved procedures*			
Alpha Contamination ($dpm/100cm^2$)	Name Not Required			
Beta-Gamma Cont. ($dpm/100cm^2$)	Znumber		Date	

Modifications to Computer Generated Data Invalidate this Form

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

Supplemental Page

LA00000062456

2. GENERATOR'S PACKAGE INFORMATION (continued)

NONRADIOACTIVE HAZARDOUS MATERIALS			RADIONUCLIDE CONTENT			
Name	EPA Code	Quantity (q)	Nuclide	Amount	Uncertainty	C=Curie M=Gram
chromium	D007	-1.0				M
lead	D008	-1.0				M
mercury	D009	-1.0				M
selenium	D010	-1.0				M
silver	D011	-1.0				M
benzene	D018	-1.0				M
carbon tetrachloride	D019	-1.0				M
chlorobenzene	D021	-1.0				M
chloroform	D022	-1.0				M
pyridine	D038	-1.0				M
tetrachloroethylene	D039	-1.0				M
trichloroethylene	D040	-1.0				M
methyl ethyl ketone	D035	-1.0				M
chlorinated fluorocarbons	F001	-1.0				M
trichloroethylene	F001	-1.0				M
1,1,2-trichloro-1,2,2-trifluoroetha	F002	-1.0				M
chlorobenzene	F002	-1.0				M
methylene chloride	F002	-1.0				M
tetrachloroethylene	F002	-1.0				M
acetone	F003	-1.0				M
ethyl ether	F003	-1.0				M
methanol	F003	-1.0				M
n-butyl alcohol	F003	-1.0				M
xylene	F003	-1.0				M
methyl ethyl ketone	F005	-1.0				M
pyridine	F005	-1.0				M
toluene	F005	-1.0				M

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by TRU Waste Management. The generator is authorized to arrange transportation to TA-54	Name WELSH GAIL M	
	Znumber 114849	Date FEB 9 2006

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to transport according to approved procedures. It meets WAC packaging and labeling requirements and is free from obvious damage and defects	Printed Name Gabriel Valdez	Date *(Inspection Valid for 30 Days)* 4/13/06
	Signature Gabriel Valdez	

6. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	• E +/-	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h)	• E +/-	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h)	• E +/-	The data in this section were collected accordig to approved procedures.		
Alpha Contamination ($dpm/100cm^2$)	• E +/-	Printed Name		Date
Beta-Gamma Cont. ($dpm/100cm^2$)	• E +/-	Signature		

7. STORAGE SITE INFORMATION

Received By (initials)	Date Received	ORIGINAL STORAGE DATA		
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		Building Number	Layer	Row Number
		Column Number	Date Stacked (MM,DD,YY)	
Printed Name	Date	Printed Name		Date
Signature		Signature		

8. WASTE ACCEPTANCE OFFICE

Initials/Date	WE Description

NCR Number	Initials/Date	NCR Description

9. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered in Database		Printed Name	Signature
Date Entry Verified		Printed Name	Signature

10. DUPLICATE COPY

M M D D Y Y

Date Duplicate Filed		Printed Name	Signature

Form 2177

Los Alamos NATIONAL LABORATORY EST. 1943

TRU Waste Storage Record Change Form

Waste Package Serial Number 62456

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New Volume based on physical measurements of the container. Davis Christensen 4/1/11

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

8.97

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☒ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.		Type	Thickness (in.)
	01		
	02		

Hazardous Materials		
Name	EPA Code	Quantity (g)

Waste Profile Number	
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	
Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Davis Christensen		4/4/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm²)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm²)	Signature			

Form 2177 (6/10)

Los Alamos
NATIONAL LABORATORY

TRU WASTE STORAGE RECORD

LA00000062646

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order # 87871	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging	[X] Ring, Bolt, and Nut	[X] Chime	[X] Dents
	[X] Lid and Gasket	[X] Gouges	[X] Paint
Name MONTAGUE CHARLENE L	Znumber 110850		Date MAR 30 2004

2. GENERATOR'S PACKAGE INFORMATION

Group NMT-7	Technical 55	Building PF-4	Program Code 8J0700 KG19 3000 2000
Additional Information Handling Code: S01	TID Physical Form: Solid		

Container	Liner
[X] Steel Drum (55 gal.)	[X] None
[ ] Steel Drum (85 gal. Overpack)	[ ] 90 mil liner
[ ] Standard Waste Box	[ ] 125 mil liner
[ ] RH Canister	**INTERNAL SHIELDING**
[ ] Other (Call TWCO)	[X] None
[ ] Standard Waste Box Overpack	Type / Thickness (in.)
Carbon Filter ID 01 903-2996	
02	

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
PU-238	1.144E-2	1.014E-4	M
PU-239	1.073E+2	9.509E-1	M
PU-240	6.863E+0	6.084E-2	M
PU-241	2.288E-1	2.028E-3	M
PU-242	2.288E-2	2.028E-4	M
AM-241	1.819E-1	1.612E-3	M

Waste Profile Request Number	34161
Process Batch Code	NA
Gross Weight (lb.	7.45E+1
Net Weight (lb.)	1.30E+1
Shipping Category	2000000000
LANL Waste Stream ID	LANIN03NC
TRUCON Code	124A
Date Closed (MMDDYY)	MAR 31 2004

[X] DP [ ] NON DP If Non-DP waste, attach DOE approval document

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)
None		

Accumulation Start Date (MMDDYY)

The data in this section were collected, and the waste described herein was packaged and labeled according to approved procedures.

Name WULFF DENNIS R	Znumber 093089	Date APR 7 2004

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)				
Neutron Dose Rate (mrem/h)				

Total Dose Rate (mrem/h) (contact) 0.0E+0	
Total Dose Rate (mrem/h) (1 meter) 0.0E+0	*The data in this section were collected accordig to approved procedures*
Alpha Contamination ($dpm/100cm^2$)	Name Not Required
Beta-Gamma Cont. ($dpm/100cm^2$)	Znumber / Date

Modifications to Computer Generated Data Invalidate this Form

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed by TRU Waste Management. The generator is authorized to arrange transportation to TA-54	Name VALDEZ GABRIEL V	
	Znumber 119403	Date APR 12 2004

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to transport according to approved procedures. It meets WAC packaging and labeling requirements and is free from obvious damage and defects	Printed Name Gabriel Valdez	Date *(Inspection Valid for 30 Days)* 6-1-04
	Signature Gabl Valdez	

6. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h)	2.0 E +/- 0	Survey Meter Model RO20	Property Number 6465	Calibration Void Date 6-17-04
Neutron Dose Rate (mrem/h)	1.0 E +/- 0	Survey Meter Model SNRD	Property Number 13108	Calibration Void Date 12-9-04
Total Dose Rate (mrem/h)	3.0 E +/- 0	The data in this section were collected accordig to approved procedures.		
Alpha Contamination (dpm/100cm²)	9.0 E +/- 1	Printed Name Jessica Bustos		Date 6-4-04
Beta-Gamma Cont. (dpm/100cm²)	1.8 E +/- 0	Signature Jessica Bustos		

7. STORAGE SITE INFORMATION

Received By (Initials) (EC)	Date Received 6.1.04	**ORIGINAL STORAGE DATA**	
This waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures.		Building Number 901	Layer / Row Number
		Column Number	Date Stacked (MM,DD,YY)
Printed Name Erral Cohn	Date 6.1.04	Printed Name Erral Cohn	Date 6.1.04
Signature Erral Cohn		Signature Erral Cohn	

8. WASTE ACCEPTANCE OFFICE

Initals/Date	WE Description

NCR Number	Initials/Date	NCR Description

9. DATA MANAGEMENT INFORMATION

M M D D Y Y

Date Entered In Database	06 16 04	Printed Name Jolynn Martinez	Signature Jolynn Martinez
Date Entry Verified	06 16 04	Printed Name Jolynn Martinez	Signature Jolynn Martinez

10. DUPLICATE COPY

M M D D Y Y

Date Duplicate Filed	06 16 04	Printed Name Jolynn Martinez	Signature Jolynn Martinez

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number 62646

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number: 50823

Hazardous Materials		
Name	**EPA Code**	**Quantity (g)**
Lead	D008	454

Gross Weight (lb.)
Net Weight (lb.)
Shipping Category
LANL Waste Stream ID
TRUCON Code

Date Closed (MM/DD/YY):
Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

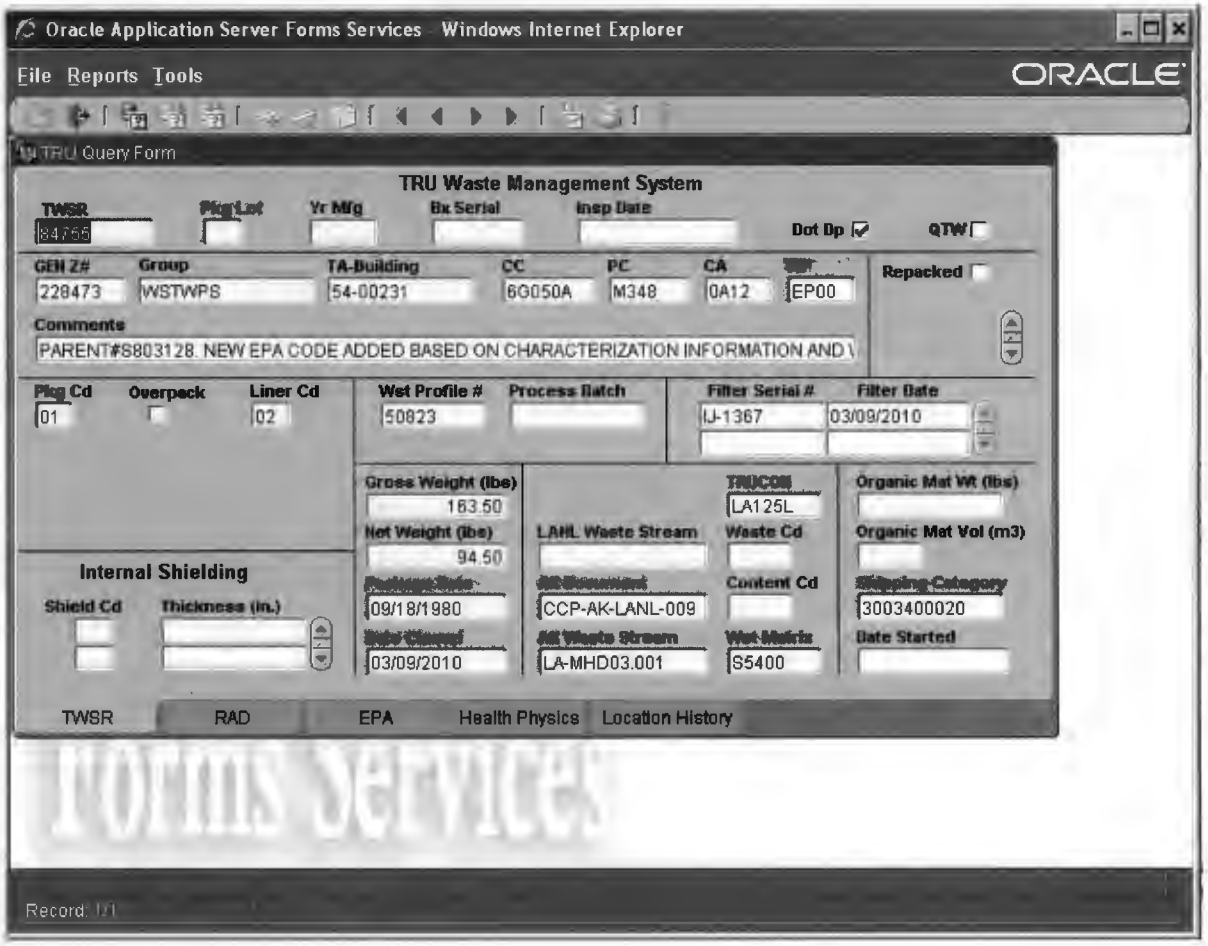
Printed Name	Signature	Date
Gail Welsh	Gail M. Welsh	11/8/11

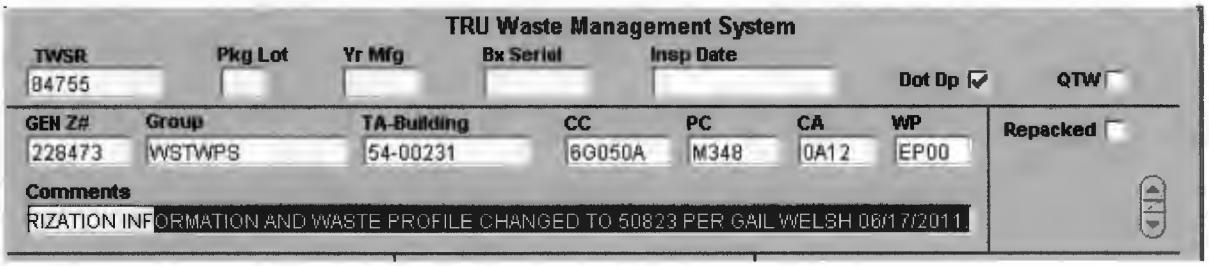
3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

11/8/11

84755


Oracle Application Server Forms Services - Windows Internet Explorer
File Reports Tools
ORACLE
TRU Query Form
TRU Waste Management System
TWSR
84755
Pkg Lot
Yr Mfg
Bx Serial
Insp Date
Dot Dp
QTW
GEN Z#
228473
Group
WSTWPS
TA-Building
54-00231
CC
6G050A
PC
M348
CA
0A12
WP
EP00
Repacked
Comments
PARENT#S803128. NEW EPA CODE ADDED BASED ON CHARACTERIZATION INFORMATION AND
Pkg Cd
01
Overpack
Liner Cd
02
Wst Profile #
50823
Process Batch
Filter Serial #
IJ-1367
Filter Date
03/09/2010
Gross Weight (lbs)
163.50
Net Weight (lbs)
94.50
09/18/1980
03/09/2010
LANL Waste Stream
CCP-AK-LANL-009
LA-MHD03.001
TRUCON
LA125L
Waste Cd
Content Cd
S5400
Organic Mat Wt (lbs)
Organic Mat Vol (m3)
3003400020
Date Started
Internal Shielding
Shield Cd
Thickness (in.)
TWSR
RAD
EPA
Health Physics
Location History
Forms Services
Record: 1/1


TRU Waste Management System
TWSR
84755
Pkg Lot
Yr Mfg
Bx Serial
Insp Date
Dot Dp
QTW
GEN Z#
228473
Group
WSTWPS
TA-Building
54-00231
CC
6G050A
PC
M348
CA
0A12
WP
EP00
Repacked
Comments
RIZATION INFORMATION AND WASTE PROFILE CHANGED TO 50823 PER GAIL WELSH 06/17/2011.

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

Copy Filed By CMB-11

H-7 Waste Management
Ext 6095 MS-592

LASL RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

1. FORM NUMBER: 8 8 0 3128

2. DATE (M M D D Y Y): 0 8 0 8 8 0

3. RETRIEVABLE SERIAL NO.: 0 0 9 7 1 2

4. ORIGIN OF WASTE

GROUP	TA	BLDG.	SUBBLDG.	ROOM
CMB 1	3	39	3	

5. WASTE CODE: 4 6 1

6. WASTE DESCRIPTION: CMB-1 DRUM VIA CAR-11

7. NUMBERS OF WASTE PACKAGES

PLASTIC BAGS	CARDBOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME - ft³
		1	55		

8. GROSS VOLUME: 55 00 — UNITS (M = METER³, F = FEET³, G = GALLON)

9. PACKAGE RADIATION AT:

SURFACE MR/HR	1 METER MR/HR
15	0

10. GROSS WEIGHT: 6 1 0 0 — UNITS (K = KILOGRAM, P = POUND, T = TON)

11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS:

12. RADIONUCLIDE CONTENT

NUCLIDE	AMOUNT	±	UNITS (C = CURIE, M = GRAM)	ERROR ON AMOUNT	±	AMOUNT DETERMINED BY: (A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE)	SS MATERIALS WRITEOFF ACCOUNT	SS MATERIALS WRITEOFF PROJECT CODE
MFP	2.985	E	G		E	E	741	309
PU 239	1.3	E	G		E	M	741	309
		E			E			
		E			E			

LEON DUVAL CMB-1
WASTE GENERATOR
Signature certifies that waste is in accordance with all applicable disposal requirements.

E. M. Lewis 8/8/80
H-1 AREA REPRESENTATIVE
Signature certifies that waste package or shipment is safe to handle and transport.

[signature]
RONALD LEARNER (AR MEMBRANE)

13. DATE DISPOSED (M M D D Y Y): 0 9 1 8 8 0

14. DISPOSAL/STORAGE LOCATION

AREA	SHAFT	PIT	POST(S)	LAYER	ROW
4		P1	1H-T		3C

15. SHAFT SURFACE DOSE

MR/HR

10-79

H-7 WASTE MANAGEMENT REPRESENTATIVE [signature]

Printed: 28-JAN-98

DRUM RETRIEVAL DATA FORM

ORIGINAL DATA (from TRU Waste Database)

DRUM NO.	LABEL NO.	DRUM SIZE (m3)	CONTENT DESCRIPTION	WEIGHT (lbs)	SURFACE DOSE RATE (mrem/hr)	POSSIBLE H2 > LFL (Y/N)
004712	S803128	0.21	Waste_cd: 61, cmb-1 drum via cmb-11	134.5	15.0	N

NEW DATA (complete during retrieval)

RETRIEVAL DATE (m/d/y)	SURFACE DOSE RATE (mrem/hr)	DRUM CONDITION		COMMENTS
4/13/98	15.0	GOOD	X	This drum is to be vented and placed into storage. Apply one barcode label to drum
		SUSPECT"O"		This drum is to be vented, overpacked, and placed into storage. Mark top of drum with an "O" for overpack. Apply one barcode label to drum
		SUSPECT"S"		This drum is to be vented and placed into storage. Mark top of drum with a "S" for suspect with no overpack. Apply one barcode label to drum
		DENTS		Description:
		RUST		Description:
		PITTING CORROSION		Description:
		DAMAGED (breached)		This drum is to be overpacked or repacked, and placed into storage. overpack/repack container.
		OVERPACK		Overpack container size:
		REPACK		Repack container size:

Drum Manufacturing or Purchasing Data:

Signature: Charlie Villareal Date: 4/9/98

WM-F056,R.0(11/96)

DATE	2/2/98	TIME	4:13:18 PM

OPERATOR	Dino Martinez
DRUM ID	04712
RSWD	
DRUM CONDITION	Good - no significant wear and/or damage.
SUSPECTED HIGH %H2	NO

DRUM WEIGHT	139
%H2 IN DRUM	0.00
FINAL EVAC. PRES.	11.17
DRUM PRESSURE	23.43
EVAC OVERRIDE?	YES

The fields below need to be updated for each drum.

VENT SERIAL #	2246
DRUM BURN?	NO
LID CONTAMINATION?	NO
VENT THREADS STRIPPED?	NO

Form 2177

Los Alamos NATIONAL LABORATORY EST. 1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
84755

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.		Type	Thickness (in.)
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Gail Welsh	Gail M. Welsh	6/17/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Encl 6/21/2011

6-16-11

Los Alamos NATIONAL LABORATORY EST. 1943

TRU WASTE STORAGE RECORD

85030

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order # 411731	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	[✓] Ring, Bolt, and Nut	[✓] Chime	[✓] Dents
	[✓] Lid and Gasket	[✓] Gouges	[✓] Paint
Printed Name Tillie Gallegos	Signature Tillie Gallegos	Date 4-1-10	

2. GENERATOR'S PACKAGE INFORMATION

Group	Technical Area	Building	Cost Center	Program Code	Cost Acct.	Work Pkg.
WSTWPS	50	00069	6G050A	M348	0A12	EP00

Additional Information: PARENT # 56504

[X] DP [ ] NON-DP If Non-DP waste, attach DOE approval documentation.

Container	Liner
[X] Steel Drum (55 gal.)	[ ] None
[ ] Pipe Overpack Type:	[ ] 90 mil liner
[ ] Steel Drum (85 gal. Overpack)	[ ] 125 mil liner
[ ] Standard Waste Box	[X] Fiberboard liner
[ ] Standard Waste Box Overpack	**Internal Shielding**
[ ] RH Canister	[X] None
[ ] Other (Call TWCO)	Type / Thickness (in.)
Filter Serial No. 01 JJ-129	02

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
AM241	2.37E-04	3.29E-05	M
PU238	2.83E-05	3.93E-06	M
PU239	8.36E-02	1.16E-02	M
PU240	5.39E-03	7.49E-04	M
PU241	1.22E-04	1.69E-05	M

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)

Waste Profile Number	32358
Gross Weight (lb.)	1.61E+02
Net Weight (lb.)	9.24E+01
Shipping Category	3003400020
LANL Waste Stream ID	
TRUCON Code	LA125M
Date Closed (MM/DD/YY)	04/01/10

Accumulation Start Date (MM/DD/YY)

The data in this section were collected, and waste described herein was packaged and labeled according to approved procedures.

Printed Name Tillie Gallegos | Signature Tillie Gallegos | Date 4-1-10

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

		Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)	2.00E-01	4-1-10	RO20	9959	5-31-10
Neutron Dose Rate (mrem/h) (contact)	2.50E-01	4-1-10	ESP-NRD	7400	12-7-10
Total Dose Rate (mrem/h) (contact)	4.50E-01				
Total Dose Rate (mrem/h) (1 meter)	3.5E-01				
Alpha Contamination (dpm/100cm2)	4.44E+00				
Beta-Gamma Cont. (dpm/100cm2)	3.97E+00				

The data in this section collected according to approved procedures.

Printed Name Jerse

Signature [signature] Date 4-1-10

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed. Based on the information provided, this waste meets the WAC requirements for storage at TA-54.	Printed Name: Bev Martinez	Date: 4/1/10
	Signature: Bev Martinez	

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to transport according to approved procedures. It meets WAC packaging and labeling requirements and is free from obvious damage and defects.	Printed Name: Tammy Lath	Date: 4-1-10
	Signature: Tammy Lath	

6. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h) (contact)	2.0 E -01	Survey Date: 04-02-10	Survey Meter Model: SNRD	Property Number: 14706	Calibration Void Date: 8-31-10
Neutron Dose Rate (mrem/h) (contact)	2.5 E -01	Survey Date: 04-02-10	Survey Meter Model: RO20	Property Number: 9346	Calibration Void Date: 7-28-10
Total Dose Rate (mrem/h) (contact)	4.5 E -01				
Total Dose Rate (mrem/h) (1 meter)	3.5 E -01	*The data in this section collected according to approved procedures.*			
Alpha Contamination (dpm/100cm2)	1.4 E 00	Printed Name: Joe Archer			
Beta-Gamma Cont. (dpm/100cm2)	7.7 E 00	Signature: Joe Archer			Date: 04-02-10

7. STORAGE SITE INFORMATION

Received By (Initials): BM	Date Received: 4.2.10	**ORIGINAL STORAGE DATA**	
This Waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures		Building Number: 909	Layer: —	Row Number: —
		Column Number: STAGE	Date Stacked (MM/DD/YY): 4.2.10
Printed Name: BENITO MAESTAS	Date: 4.2.10	Printed Name: BENITO MAESTAS	Date: 4.2.10
Signature: BM		Signature: BM	

8. WASTE ACCEPTANCE OFFICE

Initials/Date	WE Description

NCR Number	Initials/Date	NCR Description

9. DATA MANAGEMENT INFORMATION

	M M D D Y Y		
Data Entered in Database		Printed Name	Signature
Date Entry Verified		Printed Name	Signature

10. DUPLICATE COPY

	M M D D Y Y		
Date Duplicate Filed		Printed Name	Signature

Encl 4/8/2010 Encl 4/8/2010

Form 2177

Los Alamos NATIONAL LABORATORY EST. 1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
85030

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Davis Christensen		6/9/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Form 2177 (6/10) (5) 6/9/11

6-9-11

Los Alamos NATIONAL LABORATORY EST. 1943

TRU WASTE STORAGE RECORD

86428

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order # 41840	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	✓ Ring, Bolt, and Nut	✓ Chime	✓ Dents
	✓ Lid and Gasket	✓ Gouges	✓ Paint
Printed Name: Julie Gallegos	Signature: Julie Gallegos		Date: 7-8-10

2. GENERATOR'S PACKAGE INFORMATION

Group	Technical Area	Building	Cost Center	Program Code	Cost Acct.	Work Pkg.
WSTWPS	50	00069	6G050A	M348	0A12	EP00

Additional Information: PARENT # S843541

[X] DP [ ] NON-DP If Non-DP waste, attach DOE approval documentation.

Container	Liner
[X] Steel Drum (55 gal.)	[ ] None
[ ] Pipe Overpack Type:	[ ] 90 mil liner
[ ] Steel Drum (85 gal. Overpack)	[ ] 125 mil liner
[ ] Standard Waste Box	[X] Fiberboard liner
[ ] Standard Waste Box Overpack	**Internal Shielding**
[ ] RH Canister	[X] None
[ ] Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.: 01 DK-110; 02

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
AM241	1.20E-03	1.71E-04	M
PU238	6.19E-05	8.81E-06	M
PU239	5.80E-01	8.25E-02	M
PU240	3.70E-02	5.27E-03	M
PU241	1.20E-03	1.71E-04	M
PU242	1.20E-04	1.71E-05	M

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)

Waste Profile Number	32358
Gross Weight (lb.)	1.23E+02
Net Weight (lb.)	5.44E+01
Shipping Category	3003400020
LANL Waste Stream ID	LA-MHD03.001
TRUCON Code	LA125M
Date Closed (MM/DD/YY)	07/08/10

Accumulation Start Date (MM/DD/YY): 09/23/84

The data in this section were collected, and waste described herein was packaged and labeled according to approved procedures.

Printed Name: Julie Gallegos | Signature: Julie Gallegos | Date: 7.8.10

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

		Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)	4.00E+00	7-8-10	RO20	9831	9-11-10
Neutron Dose Rate (mrem/h) (contact)	2.00E+00	7-8-10	ESP-NRD	7400	12-7-10
Total Dose Rate (mrem/h) (contact)	6.00E+00				
Total Dose Rate (mrem/h) (1 meter)	7.00E-01	*The data in this section collected according to approved procedures.*			
Alpha Contamination (dpm/100cm2)	1.16E+00	Printed Name: Taylor Anderson			
Beta-Gamma Cont. (dpm/100cm2)	6.21E+00	Signature:		Date: 7-8-10	

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed. Based on the information provided, this waste meets the WAC requirements for storage at TA-54.	Printed Name: Lori Mullen	Date: 7-12-10
	Signature: Lori Mullen	

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to transport according to approved procedures. It meets WAC packaging and labeling requirements and is free from obvious damage and defects.	Printed Name: Erica Salazar	Date: 7/13/10
	Signature:	

6. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h) (contact) 4.5E0	Survey Date: 7.13.10	Survey Meter Model: 3020	Property Number: 04466	Calibration Void Date: 11.14.10
Neutron Dose Rate (mrem/h) (contact) 4.0E-1	Survey Date: 7.13.10	Survey Meter Model: SNRS	Property Number: 13597	Calibration Void Date: 2.2.11
Total Dose Rate (mrem/h) (contact) 5.04.9E0				
Total Dose Rate (mrem/h) (1 meter) 7.5E-1	*The data in this section collected according to approved procedures.*			
Alpha Contamination (dpm/100cm2) 2.0E-1	Printed Name: Nilsa Sanchez			
Beta-Gamma Cont. (dpm/100cm2) 4.0E0	Signature:		Date: 7.13.10	

7. STORAGE SITE INFORMATION

Received By (Initials): VM	Date Received: 7/13/10	**ORIGINAL STORAGE DATA**	
This Waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures		Building Number: 909	Layer: —	Row Number: —
		Column Number: —	Date Stacked (MM/DD/YY): 7/13/10
Printed Name: Valerie Martinez	Date: 7/13/10	Printed Name: Valerie Martinez	Date: 7/13/10
Signature: Valerie Martinez		Signature: Valerie Martinez	

8. WASTE ACCEPTANCE OFFICE

Initials/Date	WE Description

NCR Number	Initials/Date	NCR Description

9. DATA MANAGEMENT INFORMATION

	M M D D Y Y		
Data Entered in Database		Printed Name	Signature
Date Entry Verified		Printed Name	Signature

10. DUPLICATE COPY

	M M D D Y Y		
Date Duplicate Filed		Printed Name	Signature

Ent 8/10/2010 JDS

Ent 8/10/2010 JDS

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
86428

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date
Davis Christensen		

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information Drum cannot be shipped to LIIPP. J.F.J. 5/10/11

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Pressurized container	D003	1

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Davis Christensen		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Form 2177 (6/10)

5/10/11

Los Alamos NATIONAL LABORATORY EST. 1943

TRU WASTE STORAGE RECORD

86544

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order # 412014	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☑ Ring, Bolt, and Nut	☑ Chime	☑ Dents
	☑ Lid and Gasket	☑ Gouges	☑ Paint
Printed Name: Terisia Coleman	Signature: TColeman	Date: 7-15-10	

2. GENERATOR'S PACKAGE INFORMATION

Group	Technical Area	Building	Cost Center	Program Code	Cost Acct.	Work Pkg.
WSTWPS	54	00412	6G050A	M348	0A12	EP00

Additional Information: PARENT #S825642

☒ DP ☐ NON-DP If Non-DP waste, attach DOE approval documentation.

Container	Liner
☒ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☒ Fiberboard liner
☐ Standard Waste Box Overpack	**Internal Shielding**
☐ RH Canister	☒ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.	Type	Thickness (in.)
01 BK-1184		
02		

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
AM241	6.90E-03	8.42E-04	C
AM243	5.80E-07	8.24E-08	C
CS137	.00E+00	.00E+00	C
NP237	1.06E-07	2.37E-08	C
PU238	5.22E-05	1.60E-05	C
PU239	1.90E-03	5.17E-04	C

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)

Waste Profile Number	32358
Gross Weight (lb.)	1.60E+02
Net Weight (lb.)	9.10E+01
Shipping Category	3003400020
LANL Waste Stream ID	LA-MHD01.001
TRUCON Code	LA125M
Date Closed (MM/DD/YY)	07/15/10
Accumulation Start Date (MM/DD/YY)	11/09/82

The data in this section were collected, and waste described herein was packaged and labeled according to approved procedures.

Printed Name: Terisia Coleman | Signature: TColeman | Date: 7-15-10

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

		Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)	1.00E-01	7-15-10	1028	12740	11-18-10
Neutron Dose Rate (mrem/h) (contact)	2.50E-01	7-15-10	5NRD	14710	4-7-11
Total Dose Rate (mrem/h) (contact)	3.50E-01				
Total Dose Rate (mrem/h) (1 meter)	3.50E-01				
Alpha Contamination (dpm/100cm2)	5.50E-01				
Beta-Gamma Cont. (dpm/100cm2)	1.10E+01				

The data in this section collected according to approved procedures.

Printed Name: Taylor Anderson

Signature: [signature] Date: 9-30-10

Los Alamos NATIONAL LABORATORY EST. 1943

TRU WASTE STORAGE RECORD

86544

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. GENERATOR'S PACKAGE INFORMATION

Group	Technical Area	Building	Cost Center	Program Code	Cost Acct.	Work Pkg.

Additional Information

☐ DP ☐ NON-DP If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	**Internal Shielding**
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.		Type	Thickness (in.)
	01		
	02		

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
PU240	4.44E-04	1.36E-04	C
PU241	4.48E-03	1.38E-03	C
PU242	2.56E-08	7.84E-09	C
SR90	.00E+00	.00E+00	C
U233	.00E+00	.00E+00	C
U234	.00E+00	.00E+00	C

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)

Waste Profile Number	
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	
Date Closed (MM/DD/YY)	Accumulation Start Date (MM/DD/YY)

The data in this section were collected, and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)				
Neutron Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)				
Alpha Contamination (dpm/100cm2)				
Beta-Gamma Cont. (dpm/100cm2)				

The data in this section collected according to approved procedures.

Printed Name		
Signature		Date

Los Alamos NATIONAL LABORATORY — EST. 1943

TRU WASTE STORAGE RECORD

86544

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gougee	☐ Paint

Printed Name	Signature	Date

2. GENERATOR'S PACKAGE INFORMATION

Group	Technical Area	Building	Cost Center	Program Code	Cost Acct.	Work Pkg.

Additional Information

☐ DP ☐ NON-DP If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	**Internal Shielding**
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)
Filter Serial No. 01	
Filter Serial No. 02	

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
U235	.00E+00	.00E+00	C
U238	.00E+00	.00E+00	C

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)

Waste Profile Number	
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	
Date Closed (MM/DD/YY)	Accumulation Start Date (MM/DD/YY)

The data in this section were collected, and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)				
Neutron Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (contact)	*The data in this section collected according to approved procedures.*			
Total Dose Rate (mrem/h) (1 meter)				
Alpha Contamination (dpm/100cm2)	Printed Name			
Beta-Gamma Cont. (dpm/100cm2)	Signature		Date	

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed. Based on the information provided, this waste meets the WAC requirements for storage at TA-54.	Printed Name: Tammy Lash	Date: 10-4-10
	Signature: Tammy Lash	

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to transport according to approved procedures. It meets WAC packaging and labeling requirements and is free from obvious damage and defects.	Printed Name	Date
	Signature	

6. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section collected according to approved procedures.*			
Alpha Contamination (dpm/100cm2)	Printed Name			
Beta-Gamma Cont. (dpm/100cm2)	Signature			Date

7. STORAGE SITE INFORMATION

Received By (Initials)	Date Received	ORIGINAL STORAGE DATA		
This Waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures		Building Number	Layer	Row Number
		Column Number	Date Stacked (MM/DD/YY)	
Printed Name	Date	Printed Name		Date
Signature		Signature		

8. WASTE ACCEPTANCE OFFICE

Initials/Date	WE Description

NCR Number	Initials/Date	NCR Description

9. DATA MANAGEMENT INFORMATION

	M M D D Y Y		
Data Entered in Database		Printed Name	Signature
Date Entry Verified		Printed Name	Signature

10. DUPLICATE COPY

	M M D D Y Y		
Date Duplicate Filed		Printed Name	Signature

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
86544

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None

☐ Other (Call TWCO)	Type	Thickness (in.)
Filter Serial No. 01		
Filter Serial No. 02		

Hazardous Materials		
Name	EPA Code	Quantity (g)
Lead	D008	454

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Gail Welsh	Gail M. Welsh	6/17/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Form 2177 (6/10)

Encl. 6/21/2011

LH 6-16-11

Los Alamos NATIONAL LABORATORY EST. 1943

TRU WASTE STORAGE RECORD

86661

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order # 473086	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☑ Ring, Bolt, and Nut	☑ Chime	☑ Dents
	☑ Lid and Gasket	☑ Gouges	☑ Paint
Printed Name: Julie Gallegos	Signature: Julie Gallegos	Date: 7-21-10	

2. GENERATOR'S PACKAGE INFORMATION

Group	Technical Area	Building	Cost Center	Program Code	Cost Acct.	Work Pkg.
WSTWPS	50	00069	6G050A	M348	0A12	EP00

Additional Information: PARENT # S852896

☒ DP ☐ NON-DP If Non-DP waste, attach DOE approval documentation.

Container	Liner
☒ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☒ Fiberboard liner
☐ Standard Waste Box Overpack	**Internal Shielding**
☐ RH Canister	☒ None
☐ Other (Call TWCO)	Type / Thickness (in.)
Filter Serial No. 01 DK-141	
Filter Serial No. 02	

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
AM241	1.98E-02	2.41E-03	M
CS137	9.90E-08	1.20E-08	M
PU238	1.21E-03	1.47E-04	M
PU239	1.62E+00	1.97E-01	M
PU240	3.27E-01	3.98E-02	M
PU241	2.33E-02	2.83E-03	M

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)

Waste Profile Number	32358
Gross Weight (lb.)	2.04E+02
Net Weight (lb.)	1.35E+02
Shipping Category	3003400020
LANL Waste Stream ID	LA-MHD01.001
TRUCON Code	LA125M
Date Closed (MM/DD/YY)	07/21/10
Accumulation Start Date (MM/DD/YY)	05/13/85

The data in this section were collected, and waste described herein was packaged and labeled according to approved procedures.

Printed Name: Julie Gallegos | Signature: Julie Gallegos | Date: 7-21-10

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

		Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)	5.00E-01	7-21-10	RO-20	9831	9-11-10
Neutron Dose Rate (mrem/h) (contact)	2.50E-01	7-21-10	Esp-NRD	7466	12-7-10
Total Dose Rate (mrem/h) (contact)	7.50E-01				
Total Dose Rate (mrem/h) (1 meter)	3.50E-01	*The data in this section collected according to approved procedures.*			
Alpha Contamination (dpm/100cm2)	5.47E+00	Printed Name: THOMAS GARCIA			
Beta-Gamma Cont. (dpm/100cm2)	8.21E+00	Signature:		Date: 7-21-10	

Los Alamos NATIONAL LABORATORY EST. 1943

TRU WASTE STORAGE RECORD

86661

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. GENERATOR'S PACKAGE INFORMATION

Group	Technical Area	Building	Cost Center	Program Code	Cost Acct.	Work Pkg.

Additional Information

☐ DP ☐ NON-DP If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	**Internal Shielding**
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.		Type	Thickness (in.)
	01		
	02		

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
PU242	7.02E-03	8.54E-04	M
SR90	6.31E-08	7.67E-09	M
U234	3.96E-04	4.81E-05	M
U235	1.78E-03	2.16E-04	M

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)

Waste Profile Number	
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	
Date Closed (MM/DD/YY)	Accumulation Start Date (MM/DD/YY)

The data in this section were collected, and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)				
Neutron Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (contact)	*The data in this section collected according to approved procedures.*			
Total Dose Rate (mrem/h) (1 meter)				
Alpha Contamination (dpm/100cm2)	Printed Name			
Beta-Gamma Cont. (dpm/100cm2)	Signature		Date	

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed. Based on the information provided, this waste meets the WAC requirements for storage at TA-54.	Printed Name: Stephen Kosler	Date: 7/22/10
	Signature: Stephen Kosler	

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to transport according to approved procedures. It meets WAC packaging and labeling requirements and is free from obvious damage and defects.	Printed Name: Erica Salazar	Date: 7/26/10
	Signature:	

6. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h) (contact)	5.0 E-1	Survey Date: 7-26-10	Survey Meter Model: RO20	Property Number: 64166	Calibration Void Date: 11-14-10
Neutron Dose Rate (mrem/h) (contact)	2.5 E-1	Survey Date: 7-26-10	Survey Meter Model: ESPINRD	Property Number: 7414	Calibration Void Date: 5-6-11
Total Dose Rate (mrem/h) (contact)	7.5 E-1				
Total Dose Rate (mrem/h) (1 meter)	3.5 E-1	*The data in this section collected according to approved procedures.*			
Alpha Contamination (dpm/100cm2)	1.9 E 0	Printed Name: Jessica Bustos			
Beta-Gamma Cont. (dpm/100cm2)	6.1 E 0	Signature: Jessica Bustos			Date: 7-26-10

7. STORAGE SITE INFORMATION

Received By (Initials): MV	Date Received: 7/26/10	**ORIGINAL STORAGE DATA**	
This Waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures		Building Number: 909	Layer: —
		Row Number	
		Column Number: Staging	Date Stacked (MM/DD/YY): 7/26/10
Printed Name: Michael Vigil	Date: 7/26/10	Printed Name: Michael Vigil	Date: 7/26/10
Signature: Michael Vigil		Signature: Michael Vigil	

8. WASTE ACCEPTANCE OFFICE

Initials/Date	WE Description

NCR Number	Initials/Date	NCR Description

9. DATA MANAGEMENT INFORMATION

	M M D D Y Y		
Data Entered In Database		Printed Name	Signature
Data Entry Verified		Printed Name	Signature

10. DUPLICATE COPY

	M M D D Y Y		
Date Duplicate Filed		Printed Name	Signature

Eout 8/5/2010 Eout 8/5/2010

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
86661

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.		Type	Thickness (in.)
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Gail Welsh	Gail M. Welsh	6/17/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

6/21/2011

6-16-11

Los Alamos NATIONAL LABORATORY EST. 1943

TRU WASTE STORAGE RECORD

87066

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	[X] Ring, Bolt, and Nut	[X] Chime	[X] Dents
	[X] Lid and Gasket	[X] Gouges	[X] Paint

Printed Name	Signature	Date
Roberto Pena		9/16/10

2. GENERATOR'S PACKAGE INFORMATION

Group	Technical Area	Building	Cost Center	Program Code	Cost Acct.	Work Pkg.
WSTWPS	54	00412	6G050A	M348	0A12	EP00

Additional Information
PARENT #S825714 SERIAL #WTS-12-STD-010

[X] DP [ ] NON-DP If Non-DP waste, attach DOE approval documentation.

Container	Liner
[ ] Steel Drum (55 gal.)	[X] None
[X] Pipe Overpack Type: 20	[ ] 90 mil liner
[ ] Steel Drum (85 gal. Overpack)	[ ] 125 mil liner
[ ] Standard Waste Box	[ ] Fiberboard liner
[ ] Standard Waste Box Overpack	**Internal Shielding**
[ ] RH Canister	[X] None
[ ] Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
01	JJ-436		
02			

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
AM241	2.55E-02	3.57E-03	M
CS137	5.49E-07	7.69E-08	M
PU238	1.41E-03	1.98E-04	M
PU239	1.02E+01	1.44E+00	M
PU240	6.84E-01	9.58E-02	M
PU241	2.67E-02	3.75E-03	M

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)

Waste Profile Number	32358
Gross Weight (lb.)	3.24E+02
Net Weight (lb.)	-3.00E+00
Shipping Category	3003400061
LANL Waste Stream ID	LA-MHD01.001
TRUCON Code	LA125N
Date Closed (MM/DD/YY)	09/16/10
Accumulation Start Date (MM/DD/YY)	12/29/82

The data in this section were collected, and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Roberto Pena		9/16/10

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

		Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)	3.00E-01	9-16-10	1000	12740	11-18-10
Neutron Dose Rate (mrem/h) (contact)	2.50E-01	9-16-10	EMD	14710	4-7-11
Total Dose Rate (mrem/h) (contact)	5.50E-01				
Total Dose Rate (mrem/h) (1 meter)	3.50E-01	*The data in this section collected according to approved procedures.*			
Alpha Contamination (dpm/100cm2)	.00E+00	Printed Name			
Beta-Gamma Cont. (dpm/100cm2)	5.42E+00	Signature		Date	9-27-10

Los Alamos NATIONAL LABORATORY EST. 1943

TRU WASTE STORAGE RECORD

87066

1. GENERATOR'S PRE-USE VISUAL INSPECTION

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. GENERATOR'S PACKAGE INFORMATION

Group	Technical Area	Building	Cost Center	Program Code	Cost Acct.	Work Pkg.

Additional Information

☐ DP ☐ NON-DP If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No. 01 / 02

RADIONUCLIDE CONTENT

Nuclide	Amount	Uncertainty	C=Curie M=Gram
PU242	4.16E-03	5.82E-04	M
SR90	3.50E-07	4.90E-08	M
U234	2.89E-04	4.04E-05	M
U235	1.09E-02	1.52E-03	M

NONRADIOACTIVE HAZARDOUS MATERIALS

Name	EPA Code	Quantity (g)

Waste Profile Number	
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	
Date Closed (MM/DD/YY)	Accumulation Start Date (MM/DD/YY)

The data in this section were collected, and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date

3. GENERATOR SITE HEALTH PHYSICS INFORMATION

	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Gamma Dose Rate (mrem/h) (contact)				
Neutron Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section collected according to approved procedures.*			
Alpha Contamination (dpm/100cm2)	Printed Name			
Beta-Gamma Cont. (dpm/100cm2)	Signature		Date	

4. TRU WASTE MANAGEMENT REVIEW/AUTHORIZATION

The data package for this waste has been reviewed. Based on the information provided, this waste meets the WAC requirements for storage at TA-54.	Printed Name: Tammy Lash	Date: 9-27-10
	Signature: Tammy Lash	

5. PRELOAD VISUAL INSPECTION

This waste package was visually inspected prior to transport according to approved procedures. It meets WAC packaging and labeling requirements and is free from obvious damage and defects.	Printed Name	Date
	Signature	

6. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section collected according to approved procedures.*			
Alpha Contamination (dpm/100cm2)	Printed Name			
Beta-Gamma Cont. (dpm/100cm2)	Signature			Date

7. STORAGE SITE INFORMATION

Received By (Initials)	Date Received	ORIGINAL STORAGE DATA		
This Waste package was visually inspected and found to be properly labeled and in good condition. It was accepted and inspected according to approved procedures		Building Number	Layer	Row Number
		Column Number	Date Stacked (MM/DD/YY)	
Printed Name	Date	Printed Name		Date
Signature		Signature		

8. WASTE ACCEPTANCE OFFICE

Initials/Date	WE Description

NCR Number	Initials/Date	NCR Description

9. DATA MANAGEMENT INFORMATION

	M M D D Y Y		
Data Entered in Database		Printed Name	Signature
Date Entry Verified		Printed Name	Signature

10. DUPLICATE COPY

	M M D D Y Y		
Date Duplicate Filed		Printed Name	Signature

Form 2177

Los Alamos NATIONAL LABORATORY EST. 1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
87066

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.		Type	Thickness (in.)
	01		
	02		

Hazardous Materials		
Name	**EPA Code**	**Quantity (g)**
Lead	D008	454

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Gail Welsh	Gail M. Welsh	6/17/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Form 2177 (6/10)

6/21/2011

6-16-11

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

H-7 Waste Management
Ext. 5095 MS-592

LASL RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

1. FORM NUMBER: S 8 0 2610

2. DATE (M M D D Y Y)	3. RETRIEVABLE SERIAL NO.	4. ORIGIN OF WASTE: GROUP	TA	BLDG.	WING	ROOM	5. WASTE CODE
0 1 1 7 8 0	0 0 5 2 1 4	C M B 1 1	55	P f 4		132	A 6 0

6. WASTE DESCRIPTION:

7. NUMBERS OF WASTE PACKAGES: PLASTIC BAGS	CARD-BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME ft³	8. GROSS VOLUME (M = METER³, F = FEET³, G = GALLON)	UNITS	9. PACKAGE RADIATION AT: SURFACE MR/HR	1 METER MR/HR
		1	55			2	M	7.1	5

10. GROSS WEIGHT (K = KILOGRAM, P = POUND, T = TON)	UNITS	11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS
44.3	K	

12. RADIONUCLIDE CONTENT: NUCLIDE	AMOUNT	±	UNITS (C = CURIE, M = GRAM)	ERROR ON AMOUNT	±	AMOUNT DETERMINED BY: (A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE)	SS MATERIALS WRITEOFF: ACCOUNT	PROJECT CODE
Pu 239	0.02	E +1	M		E	M	741	309
Pu 241	1.47	E +0	M		E	M	741	309
		E			E			
		E			E			

Ronald J. Cabbit
WASTE GENERATOR
Signature certifies that waste is in accordance with all applicable disposal requirements.

H-1 AREA REPRESENTATIVE
Signature certifies that waste package or shipment is safe to handle and transport.

GROUP LEADER (AS NECESSARY)

13. DATE DISPOSED (M M D D Y Y)	14. DISPOSAL/STORAGE LOCATION: AREA	SHAFT	PIT	POST(S)	LAYER	POS.	15. SHAFT SURFACE DOSE MR/HR
0 2 1 5 8 0	G		P1	7-8	1	C	

10-79

H-7 WASTE MANAGEMENT REPRESENTATIVE

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S802610

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Gail Welsh	Gail M. Welsh	6/17/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Form 2177 (6/10) 6/21/2011

6/16/11

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

H-7 Waste Management
Ext 6095 MS-592

LASL RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

1. FORM NUMBER: S 8 0 2997

2. DATE (M M D D Y Y): 0 6 2 6 8 0

3. RETRIEVABLE SERIAL NO.: 0 0 5 6 9 3

4. ORIGIN OF WASTE: GROUP: C M B | TA: 5 | BLDG.: 3 SM 29 | WING: 2 | ROOM:

5. WASTE CODE: A 6 1

6. WASTE DESCRIPTION: C M B 5 S M 2 9 W I N G 2

7. NUMBERS OF WASTE PACKAGES

PLASTIC BAGS	CARD-BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME - ft³
		1	55		

M = METER³ F = FEET³ G = GALLON

8. GROSS VOLUME: 2 | UNITS: M

9. PACKAGE RADIATION AT:

SURFACE MR/HR	1 METER MR/HR
	1

10. GROSS WEIGHT: 4 4 3 | UNITS: K (K = KILOGRAM, P = POUND, T = TON)

11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS:

12. RADIONUCLIDE CONTENT (C = CURIE, M = GRAM)

NUCLIDE	AMOUNT	±	UNITS	ERROR ON AMOUNT	±	AMOUNT DETERMINED BY: (A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE)	SS MATERIALS WRITEOFF ACCOUNT	SS MATERIALS WRITEOFF PROJECT CODE
P U 5 4	5 8	E -1	M		E	M	741	309
P U 8 3	[illegible]	E -1	M		E	M	741	309
		E			E			
		E			E			

7-21-80

Arnold J. Cubbitt
WASTE GENERATOR
Signature certifies that waste is in accordance with all applicable disposal requirements.

Co. Hemphreys
H-1 AREA REPRESENTATIVE
Signature certifies that waste package or shipment is safe to handle and transport.

Chris Hodge
GROSS [illegible] SUMMARY

13. DATE DISPOSED (M M D D Y Y): 0 7 2 8 8 0

14. DISPOSAL/STORAGE LOCATION

AREA	SHAFT	PIT	POST(S)	LAYER	ROOM
G		P1	13	1	W

15. SHAFT SURFACE DOSE

MR/HR

10-79

H-7 WASTE MANAGEMENT REPRESENTATIVE _____

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number S802997

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Davis Christensen		6/23/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Form 2177 (8/10)

6/23/11

6/23/11

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

1. FORM NUMBER S, 8 10689 — 11/10 LC

LASL RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

2. DATE (M M D D Y Y)	3. RETRIEVABLE SERIAL NO.	4. ORIGIN OF WASTE					5. WASTE CODE
		GROUP	TA	BLDG.	WING	ROOM	
08/23/81	01289 2	H1	50	1		3H	A05 1

6. WASTE DESCRIPTION: PLATINUM METAL-SOLIDS 80-8 GRAMS PT

7. NUMBERS OF WASTE PACKAGES						8. GROSS VOLUME	UNITS (M = METER^3, F = FEET^3, G = GALLON)	9. PACKAGE RADIATION AT:	
PLASTIC BAGS	CARD BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME-ft^3			SURFACE MR/HR	1 METER MR/HR
		1	55			55.0	G	1	0

10. GROSS WEIGHT	UNITS (K = KILOGRAM, P = POUND, T = TON)	11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS
80.0	P	CF 1/1/1973

12. RADIONUCLIDE CONTENT				C = CURIE, M = GRAM				AMOUNT DETERMINED BY: A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE	SS MATERIALS WRITEOFF	
NUCLIDE	AMOUNT		±	UNITS	ERROR ON AMOUNT		±		ACCOUNT	PROJECT CODE
U235	2.420	E	-4	C		E		E		
		E				E				
		E				E				
		E				E				
		E				E				
		E				E				

Fernando H-1 D+D — WASTE GENERATOR. *Signature certifies that waste is in accordance with all applicable disposal requirements.*

John Lucero — H-1 AREA REPRESENTATIVE. *Signature certifies that waste package or shipment is safe to handle and transport.*

GROUP LEADER (AS NECESSARY)

13. DATE DISPOSED (M M D D Y Y)	14. DISPOSAL/STORAGE LOCATION						15. SHAFT SURFACE DOSE
	AREA	SHAFT	PIT	POST(S)	LAYER	POS.	MR/HR
11/04/81	G		P1	24	3	0	

H-7 WASTE MANAGEMENT REPRESENTATIVE R. Dana

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S810689

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None

☐ Other (Call TWCO)	Type	Thickness (in.)
Filter Serial No. 01		
Filter Serial No. 02		

Hazardous Materials		
Name	**EPA Code**	**Quantity (g)**
Lead	D008	454

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	
Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Gail Welsh	Gail M. Welsh	11/8/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date

Total Dose Rate (mrem/h) (contact)	
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*
Alpha Contamination (dpm/100cm^2)	Printed Name / Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature

11/8/11

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

1. FORM NUMBER S. # 13519

2/25/91

LASL RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

2. DATE (M M D D Y Y)	3. RETRIEVABLE SERIAL NO.	4. ORIGIN OF WASTE				5. WASTE CODE
		GROUP	TA	BLDG.	WING / ROOM	
01/16/91	007860	CMB-11	55	PF4	414 / 432	960

6. WASTE DESCRIPTION

ROOM TRASH

7. NUMBERS OF WASTE PACKAGES						8. GROSS VOLUME	UNITS (M = METER^3, F = FEET^3, G = GALLON)	9. PACKAGE RADIATION AT:	
PLASTIC BAGS	CARD BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME-ft^3			SURFACE MR/HR	1 METER MR/HR
		1	55			.2	M	2	1

10. GROSS WEIGHT	UNITS (K = KILOGRAM, P = POUND, T = TON)	11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS
500	K	

12. RADIONUCLIDE CONTENT				C = CURIE, M = GRAM				AMOUNT DETERMINED BY: A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE	SS MATERIALS WRITEOFF	
NUCLIDE	AMOUNT	±		UNITS	ERROR ON AMOUNT	±			ACCOUNT	PROJECT CODE
Pu-239	2300	E	~1	M		E		M	741	309
		E				E				
		E				E				
		E				E				
		E				E				
		E				E				

Joe Duran — WASTE GENERATOR
Signature certifies that waste is in accordance with all applicable disposal requirements.

Ed Pacheco 1-21-91 — H-1 AREA REPRESENTATIVE
Signature certifies that waste package or shipment is safe to handle and transport.

Kate Campo Joyce Hess — GROUP LEADER (IF NECESSARY)

13. DATE DISPOSED (M M D D Y Y)	14. DISPOSAL/STORAGE LOCATION						15. SHAFT SURFACE DOSE
	AREA	SHAFT	PIT	POST(S)	LAYER	POS.	MR/HR
02/08/91	B		P1	18	4	W	

H-7 WASTE MANAGEMENT REPRESENTATIVE C. Ulmet

Form 2177

Los Alamos NATIONAL LABORATORY EST. 1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S813519

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date
Davis Christensen		

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information 5/10/11
Drum can not be shipped to WIPP.

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Pressurized container	D003	1

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Davis Christensen		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date

Total Dose Rate (mrem/h) (contact)	
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*
Alpha Contamination (dpm/100cm^2)	Printed Name / Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature

Form 2177 (6/10)

5/10/11

PLEASE READ INSTRUCTIONS ON BACK OF FORM ✓

LASL RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

1. FORM NUMBER	10/1/81
S 8 13884	

2. DATE (M M D D Y Y)	3. RETRIEVABLE SERIAL NO.	4. ORIGIN OF WASTE					5. WASTE CODE
		GROUP	TA	BLDG.	WING	ROOM	
09 15 81	0 1 2 5 1 9	X X X X	9 9				4 1 9

6. WASTE DESCRIPTION

LOVELACE-ITRI WASTE, DRUM NO. 19

7. NUMBERS OF WASTE PACKAGES						8. GROSS VOLUME	UNITS (M = METER^3, F = FEET^3, G = GALLON)	9. PACKAGE RADIATION AT:	
PLASTIC BAGS	CARD BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME-ft^3			SURFACE MR HR	1 METER MR-HR
		1	55			5.50	G	0	0

10 GROSS WEIGHT	UNITS (K = KILOGRAM, P = POUND, T = TON)	11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS
145.0	P	90-MIL LINED DRUM

12. RADIONUCLIDE CONTENT.			UNITS (C = CURIE, M = GRAM)			AMOUNT DETERMINED BY: A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE	SS MATERIALS WRITEOFF	
NUCLIDE	AMOUNT	±		ERROR ON AMOUNT	±		ACCOUNT	PROJECT CODE
PU239	3.000	E +0M		1.000	E +0E			
		E			E			
		E			E			
		E			E			
		E			E			
		E			E			

J. J. Romero
WASTE GENERATOR
Signature certifies that waste is in accordance with all applicable disposal requirements

H-1 AREA REPRESENTATIVE
Signature certifies that waste package or shipment is safe to handle and transport.

GROUP LEADER (AS NECESSARY)

13. DATE DISPOSED (M M D D Y Y)	14. DISPOSAL STORAGE LOCATION						15. SHAFT SURFACE DOSE MR/HR
	AREA	SHAFT	PIT	POST(S)	LAYER	POS.	
09 29 81	G		P123		4	C	

H-7 WASTE MANAGEMENT REPRESENTATIVE R. Dance

HSE 7-1A(10/80)

Form 2177

Los Alamos NATIONAL LABORATORY EST. 1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
SB13 884

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date
Lem Montoya		5/7/12

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information: Overpack for Transport to WCRRF

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☑ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO) Type	Thickness (in.)

Filter Serial No.			
	01		
	02		

Hazardous Materials		
Name	EPA Code	Quantity (g)

Waste Profile Number	
Gross Weight (lb.) 217	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	
Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Lem Montoya		5/12/12

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm²)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm²)	Signature			

Form 2177 (6/10)

yppt. 5/11/12 GS

PLEASE READ INSTRUCTIONS ON BACK CARFFULLY

1. FORM NUMBER: S. B. 14870

LASL RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

1/13

H-7 Waste Management
Ext 6098 MS 597

2. DATE: M M D D Y Y — 1 1 2 4 8 0

3. RETRIEVABLE SERIAL NO.: 0 0 9 7 5 7

4. ORIGIN OF WASTE

GROUP	TA	BLDG.	WING	ROOM
CMB 11	55	PFH		4 3 2

5. WASTE CODE: A 6 1

6. WASTE DESCRIPTION

7. NUMBERS OF WASTE PACKAGES

PLASTIC BAGS	CARD BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME-ft³
		1	55		

8. GROSS VOLUME: .2 — UNITS: M (M = METER³, F = FEET³, G = GALLON)

9. PACKAGE RADIATION AT:

SURFACE MR/HR	1 METER MR/HR
4	1

10. GROSS WEIGHT: 66.5 — UNITS: K (K = KILOGRAM, P = POUND, T = TON)

11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS

12. RADIONUCLIDE CONTENT

NUCLIDE	AMOUNT	±	UNITS (C = CURIE, M = GRAM)	ERROR ON AMOUNT	±	AMOUNT DETERMINED BY (A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE)	SS MATERIALS WRITEOFF ACCOUNT	SS MATERIALS WRITEOFF PROJECT CODE
Pu 502	203.0	E +/-	M		E M		741	309
Pu 504		E			E		741	309
		E			E			
		E			E			
		E			E			
		E			E			

E Parrish
WASTE GENERATOR
Signature certifies that waste is in accordance with all applicable disposal requirements.

E Parrish
H-1 AREA REPRESENTATIVE
Signature certifies that waste package or shipment is safe to handle and transport

R Martinez
GROUP LEADER (AS NECESSARY)

13. DATE DISPOSED: M M D D Y Y — 0 1 0 6 8 1

14. DISPOSAL/STORAGE LOCATION

AREA	SHAFT	PIT	POST(S)	LAYER	POS.
2		P1	1 M	1	E

15. SHAFT SURFACE DOSE

MR/HR

H-7 WASTE MANAGEMENT REPRESENTATIVE

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S814870

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.		Type	Thickness (in.)
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Gail Welsh	Gail M. Welsh	6/17/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Form 2177 (6/10)

6/21/2011

6-16-11

LASL RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

1/12 88

1. FORM NUMBER: S 8 1 4872

2. DATE: 09/19/80

3. RETRIEVABLE SERIAL NO.: 008953

4. ORIGIN OF WASTE: GROUP: CMB-11 | TA: 55 | BLDG.: PF-4 | WING: | ROOM: 432

5. WASTE CODE: 460

6. WASTE DESCRIPTION:

7. NUMBERS OF WASTE PACKAGES: PLASTIC BAGS | CARD-BOARD BOXES | DRUMS: NO. 155, GAL. | WOODEN CRATES: NO., VOLUME - ft³

M = METER³, F = FEET³, G = GALLON

8. GROSS VOLUME: 24 | UNITS: F

9. PACKAGE RADIATION AT: SURFACE MR/HR: 3 | 1 METER MR/HR: 1

10. GROSS WEIGHT: 790 | UNITS: K

K = KILOGRAM, P = POUND, T = TON

11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS:

12. RADIONUCLIDE CONTENT

NUCLIDE	AMOUNT	±	UNITS	ERROR ON AMOUNT	±	AMOUNT DETERMINED BY: A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE	SS MATERIALS WRITEOFF: ACCOUNT	PROJECT CODE
Pu-238	528.23	E +0	M		E	M	741	309
Pu-239	54 3.51	E +1	M		E	M	741	309
Pu-241	83	E			E		741	309
		E			E			

C = CURIE, M = GRAM

9/24/80

WASTE GENERATOR — Signature certifies that waste is in accordance with all applicable disposal requirements.

H-1 AREA REPRESENTATIVE — Signature certifies that waste package or shipment is safe to handle and transport.

GROUP LEADER (IF NECESSARY)

13. DATE DISPOSED: 01/06/81

14. DISPOSAL/STORAGE LOCATION: AREA: 5 | SHAFT | PIT: P1 | POSITION: 17 | LAYER: 3 | POS.: W

15. SHAFT SURFACE DOSE: MR/HR

10-79

H-7 WASTE MANAGEMENT REPRESENTATIVE

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S814872

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None

☐ Other (Call TWCO)	Type	Thickness (in.)
Filter Serial No. 01		
Filter Serial No. 02		

Waste Profile Number 50823	Hazardous Materials		
	Name	EPA Code	Quantity (g)
Gross Weight (lb.)	Lead	D008	454
Net Weight (lb.)			
Shipping Category			
LANL Waste Stream ID			
TRUCON Code			

Date Closed (MM/DD/YY): Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
DAVIS CHRISTENSEN		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The date in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/10/11

Form 2177 (6/10)

LASL RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

1/12 JA

1. FORM NUMBER	2. DATE	3. RETRIEVABLE SERIAL NO.	4. ORIGIN OF WASTE					5. WASTE CODE
			GROUP	TA	BLDG	WING	ROOM	
S 8 1 4921	09 12 80	00561.0	CME-1	35	M-29	S		A60

6. WASTE DESCRIPTION: CMB-1 VIA CMB-11

7. NUMBERS OF WASTE PACKAGES						8. GROSS VOLUME	UNITS (M = METER³, F = FEET³, G = GALLON)	9. PACKAGE RADIATION AT:	
PLASTIC BAGS	CARD-BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME - ft³			SURFACE MR/HR	1 METER MR/HR
		155				2	M	1	0

10. GROSS WEIGHT: 461 K (K = KILOGRAM, P = POUND, T = TON)

11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS

12 RADIONUCLIDE CONTENT				C = CURIE, M = GRAM			AMOUNT DETERMINED BY (A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE)	SS MATERIALS WRITEOFF	
NUCLIDE	AMOUNT			UNITS	ERROR ON AMOUNT			ACCOUNT	PROJECT CODE
Pu 540.7		E	-1	M		E	M	741	309
MFP 2.93		E	-4	C		E	M	741	309
		E				E			
		E				E			

9/24/80

T. K. Dowdell
WASTE GENERATOR

Henry Arand
H-1 AREA REPRESENTATIVE
Signature certifies that waste package or shipment is safe to handle and transport

L. L. Martinez
GROUP LEADER (AS NECESSARY)

14 DISPOSAL/STORAGE LOCATION						15 SHAFT SURFACE DOSE
DATE DISPOSED	AREA	SHAFT	PIT	POST SI	LAYER	POS	MR/HR

10-79

H-7 WASTE MANAGEMENT REPRESENTATIVE

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S814921

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date
Davis Christensen		

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information Drum cannot be shipped to WIPP. LJC. 5/10/11

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Pressurized container	D003	1

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Davis Christensen		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Form 2177 (6/10)

5/10/11

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

H-7 Waste Management
Ext 6095 MS-592

LASL RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

1. FORM NUMBER: S 18344

2. DATE (M M D D Y Y): 1 1 9 8 1

3. RETRIEVABLE SERIAL NO.: 0 1 9 5 5

4. ORIGIN OF WASTE: GROUP: CMB-11 | TA: 55 | BLDG.: P-5-4 | WING: | ROOM: 4-3-2

5. WASTE CODE: 4 6 0

6. WASTE DESCRIPTION: Combustible

7. NUMBERS OF WASTE PACKAGES

PLASTIC BAGS	CARD-BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME - ft³
		1	55		

M = METER³ F = FEET³ G = GALLON

8. GROSS VOLUME: 2 | UNITS: M

9. PACKAGE RADIATION AT:

SURFACE MR/HR	1 METER MR/HR
1	0

10. GROSS WEIGHT: 5 1 3 | UNITS: K

K = KILOGRAM P = POUND T = TON

11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS:

12. RADIONUCLIDE CONTENT

C = CURIE M = GRAM

NUCLIDE	AMOUNT	±	UNITS	ERROR ON AMOUNT	±	AMOUNT DETERMINED BY: A = ANALYSIS M = MEASUREMENT E = ESTIMATE	SS MATERIALS WRITEOFF ACCOUNT	SS MATERIALS WRITEOFF PROJECT CODE
Cs-137	5.4	E			E	A	741	309
		E			E			
		E			E			
		E			E			

Mary Lou Daniel
WASTE GENERATOR
Signature certifies that waste is in accordance with all applicable disposal requirements.

11-20-81
H-1 AREA REPRESENTATIVE
Signature certifies that waste package or shipment is safe to handle and transport.

Faye Hsue
GROUP LEADER (AS NECESSARY)
KS

13. DATE DISPOSED (M M D D Y Y): 1 2 0 1 8 1

14. DISPOSAL/STORAGE LOCATION

AREA	SHAFT	PIT	POST(S)	LAYER	POS.
G		P1	25	2C	

15. SHAFT SURFACE DOSE

MR/HR

H-7 WASTE MANAGEMENT REPRESENTATIVE: R. Dann

4-80

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S818344

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None

Other (Call TWCO)	Type	Thickness (in.)
Filter Serial No. 01		
Filter Serial No. 02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
DAVIS CHRISTENSEN		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/10/11 LP

Form 2177 (6/10)

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

1. FORM NUMBER S 8 2 3081

LOS ALAMOS RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

H-7 Waste Management
Ext 6095 MS-592

2. DATE (M M D D Y Y) 04 07 82

3. RETRIEVABLE SERIAL NO. 007538

4. ORIGIN OF WASTE

GROUP	TA	BLDG.	WING	ROOM
CMB-11	55	184		432

5. WASTE CODE A116

6. WASTE DESCRIPTION combustible

7. NUMBERS OF WASTE PACKAGES

PLASTIC BAGS	CARD BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME-ft³
		1	55		

8. GROSS VOLUME .2 UNITS: M (M = METER³, F = FEET³, G = GALLON)

9. PACKAGE RADIATION AT:

SURFACE MR/HR	1 METER MR/HR
1.8	1.9

10. GROSS WEIGHT 809 UNITS: K (K = KILOGRAM, P = POUND, T = TON)

11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS

12. RADIONUCLIDE CONTENT

NUCLIDE	AMOUNT	±	UNITS (C = CURIE, M = GRAM)	ERROR ON AMOUNT	±	AMOUNT DETERMINED BY: (A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE)	SS MATERIALS WRITEOFF ACCOUNT	SS MATERIALS WRITEOFF PROJECT CODE
Pu-154	2.0 E+1	E	M	E		M	741	208
Pu-156	2.0 E+1	E	M	E		M	741	208
Am-241		E		E				
		E		E				
		E		E				
		E		E				

WASTE GENERATOR — *Signature certifies that waste is in accordance with all applicable disposal requirements.*

H-7 AREA REPRESENTATIVE — *Signature certifies that waste package or shipment is safe to handle and transport.*

GROUP LEADER OR HIGHER

13. DATE DISPOSED (M M D D Y Y) 05 18 82

14. DISPOSAL/STORAGE LOCATION

AREA	SHAFT	PIT	POST(S)	LAYER	POS.
G		P2	3 -	3	E

15. SHAFT SURFACE DOSE MR/HR

H-7 WASTE MANAGEMENT REPRESENTATIVE R Dawe

HS-E 7-1A (10/81)

Form 2177

Los Alamos NATIONAL LABORATORY EST. 1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S823081

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	510823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
DAVIS CHRISTENSEN		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/10/11

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

LOS ALAMOS RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

H 7 Waste Management
Ext 6095 MS 592

1. FORM NUMBER
S 8 2 4433

2. DATE (M M D D Y Y)	3. RETRIEVABLE SERIAL NO.	4. ORIGIN OF WASTE					5. WASTE CODE
		GROUP	TA	BLDG.	WING	ROOM	
07 27 82	010270	CMB-11	55	PF-4		432	A16

6. WASTE DESCRIPTION
COMBUSTIBLE

7. NUMBERS OF WASTE PACKAGES						8. GROSS VOLUME	UNITS (M = METER^3, F = FEET^3, G = GALLON)	9. PACKAGE RADIATION AT:	
PLASTIC BAGS	CARD BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME ft^3			SURFACE MR/HR	1 METER MR/HR
		1	55			.7	M	26	3

10. GROSS WEIGHT	UNITS (K = KILOGRAM, P = POUND, T = TON)	11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS
661	K	

12. RADIONUCLIDE CONTENT				C = CURIE, M = GRAM				AMOUNT DETERMINED BY: A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE	SS MATERIALS WRITEOFF	
NUCLIDE	AMOUNT		±	UNITS	ERROR ON AMOUNT		±		ACCOUNT	PROJECT CODE
Pu 239	523.1	E	±1	M		E		M	741	309
Pu 241	531.5	E	±1	M		E		M	741	309
Pu 238	56	E				E			741	309
Am 241		E				E				
		E				E				
		E				E				

WASTE GENERATOR — Signature certifies that waste is in accordance with all applicable disposal requirements.

H 1 AREA REPRESENTATIVE — Signature certifies that waste package or shipment is safe to handle and transport.

GRP. LEADER (IF NECESSARY)

13. DATE DISPOSED (M M D D Y Y)	14. DISPOSAL/STORAGE LOCATION						15. SHAFT SURFACE DOSE
	AREA	SHAFT	PIT	POST(S)	LAYER	POS.	MR/HR
04 02 84	G		8	25	3	C	

H-7 WASTE MANAGEMENT REPRESENTATIVE

HS-F 7-1A (10/81)

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S824433

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO) Type	Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number 50873

Hazardous Materials		
Name	EPA Code	Quantity (g)
Lead	D008	454

Gross Weight (lb.)
Net Weight (lb.)
Shipping Category
LANL Waste Stream ID
TRUCON Code

Date Closed (MM/DD/YY):
Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
DAVIS CHRISTENSEN		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/10/11

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

1. FORM NUMBER: S,8,2, 4441

LOS ALAMOS RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

H-7 Waste Management
Ext 6095 MS-592

2. DATE (M M D D Y Y)	3. RETRIEVABLE SERIAL NO.	4. ORIGIN OF WASTE: GROUP	TA	BLDG.	WING	ROOM	5. WASTE CODE
0,7,2,8,8,2	0,1,0,9,1,7	CMB1/V	55	PF4		432	1,1,6

6. WASTE DESCRIPTION: Combustible

7. NUMBERS OF WASTE PACKAGES: PLASTIC BAGS	CARD BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME-ft³
		1	55		

8. GROSS VOLUME	UNITS (M = METER³, F = FEET³, G = GALLON)
24	

9. PACKAGE RADIATION AT: SURFACE MR/HR	1 METER MR/HR
5	1

10. GROSS WEIGHT	UNITS (K = KILOGRAM, P = POUND, T = TON)
96.8	K

11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS: lined drum <200 lbs

12. RADIONUCLIDE CONTENT: NUCLIDE	AMOUNT	±		UNITS (C = CURIE, M = GRAM)	ERROR ON AMOUNT	±		AMOUNT DETERMINED BY: (A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE)	SS MATERIALS WRITEOFF: ACCOUNT	PROJECT CODE
Pu 239	1	E	± 1	M		E		M	741	309
Am 241		E				E				
		E				E				
		E				E				
		E				E				
		E				E				

WASTE GENERATOR
Signature certifies that waste is in accordance with all applicable disposal requirements.

R-1 AREA REPRESENTATIVE
Signature certifies that waste package or shipment is safe to handle and transport.

GROUP LEADER (AS NECESSARY)

13. DATE DISPOSED (M M D D Y Y)	14. DISPOSAL STORAGE LOCATION: AREA	SHAFT	PIT	POST(S)	LAYER	POS	15. SHAFT SURFACE DOSE MR/HR
0,9,0,2,8,2	G		P2	5	3	E	

H-7 WASTE MANAGEMENT REPRESENTATIVE

HS-E 7-1A (10/81)

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S824441

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Hazardous Materials		
Name	**EPA Code**	**Quantity (g)**
Lead	D008	454

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
DAVIS CHRISTENSEN		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

SD 5/9/11

Form 2177 (6/10)

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY ✓

LOS ALAMOS RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

H-7 Waste Management
Ext 6005 MS 592

1. FORM NUMBER
S, B, 2 4498

2. DATE (M M D D Y Y)	3. RETRIEVABLE SERIAL NO	4. ORIGIN OF WASTE: GROUP	TA	BLDG.	WING	ROOM	5. WASTE CODE
08/28/2	010975	CMB-11	55	-1	PF4	452	418

6. WASTE DESCRIPTION
COMBUSTIBLE

7. NUMBERS OF WASTE PACKAGES: PLASTIC BAGS	CARD BOARD BOXES	DRUMS NO	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME-ft³
		1	55		

8. GROSS VOLUME	UNITS (M = METER³, F = FEET³, G = GALLON)
.2	M

9. PACKAGE RADIATION AT: SURFACE MR/HR	1 METER MR/HR
0	0

10. GROSS WEIGHT	UNITS (K = KILOGRAM, P = POUND, T = TON)
600	K

11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS

12. RADIONUCLIDE CONTENT: NUCLIDE	AMOUNT	±	UNITS (C = CURIE, M = GRAM)	ERROR ON AMOUNT	±	AMOUNT DETERMINED BY (A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE)	SS MATERIALS WRITEOFF: ACCOUNT	PROJECT CODE
Pu 238	8.0E-01	E -1	M	0.0E	E	M	741	309
		E			E			
		E			E			
		E			E			
		E			E			
		E			E			

WASTE GENERATOR — *Signature certifies that waste is in accordance with all applicable disposal requirements.*

H-7 AREA REPRESENTATIVE — *Signature certifies that waste package or shipment is safe to handle and transport.*

GROUP LEADER (AS NECESSARY)

13. DATE DISPOSED (M M D D Y Y)
09/01/82

14. DISPOSAL/STORAGE LOCATION: AREA	SHAFT	PIT	POST(S)	LAYER	POS.	15. SHAFT SURFACE DOSE MR/HR
G		92	4	4	C	

H-7 WASTE MANAGEMENT REPRESENTATIVE

HS-E 7-1A (10/81)

Form 2177

Los Alamos NATIONAL LABORATORY EST. 1943

TRU Waste Storage Record Change Form

Waste Package Serial Number S824498

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information. Note: This drum can not be shipped to WIPP.

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.		Type	Thickness (in.)
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Pressurized Container	D003	1

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Davis Christensen		6/23/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Encl 6/23/2011

6/23/11

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

LOS ALAMOS RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

H-7 Waste [illegible]
Ext 6095 [illegible]

1. FORM NUMBER
S 8 2 4659

2. DATE (M M D D Y Y)	3. RETRIEVABLE SERIAL NO.	4. ORIGIN OF WASTE					5. WASTE CODE
		GROUP	TA	BLDG.	WING	ROOM	
09 27 82	01 27 32	MST	0055	PF4		432	A27

6. WASTE DESCRIPTION: Leached Solids

7. NUMBERS OF WASTE PACKAGES						8. GROSS VOLUME	UNITS (M = METER^3, F = FEET^3, G = GALLON)	9. PACKAGE RADIATION AT:	
PLASTIC BAGS	CARD BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME-ft^3			SURFACE MR/HR	1 METER MR/HR
		1	55			2	M	12	0

10. GROSS WEIGHT: 120.5 K (K = KILOGRAM, P = POUND, T = TON)

11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS: MST 12

12. RADIONUCLIDE CONTENT					C = CURIE M = GRAM			AMOUNT DETERMINED BY: A = ANALYSIS M = MEASUREMENT E = ESTIMATE	SS MATERIALS WRITEOFF	
NUCLIDE	AMOUNT		±	UNITS	ERROR ON AMOUNT		±		ACCOUNT	PROJECT CODE
Pu 238	7.45	E	+0	M		E		A	741	309
		E				E				
		E				E				
		E				E				
		E				E				
		E				E				

WASTE GENERATOR — *Signature certifies that waste is in accordance with all applicable disposal requirements.*

H-7 AREA REPRESENTATIVE — *Signature certifies that waste package or shipment is safe to handle and transport.*

GROUP LEADER (AS NECESSARY)

13. DATE DISPOSED (M M D D Y Y)	14. DISPOSAL/STORAGE LOCATION						15. SHAFT SURFACE DOSE
	AREA	SHAFT	PIT	POST(S)	LAYER	POS.	MR/HR
11 04 82	G		P	47 -	2	E	

H-7 WASTE MANAGEMENT REPRESENTATIVE

HS-E 7-1A (10/81)

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S824659

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.		Type	Thickness (in.)
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Gail Welsh	Gail M. Welsh	11/8/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

11/8/11

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

1. FORM NUMBER
S 8 2 4699

LOS ALAMOS RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

H-7 Waste
Ext 6095

2. DATE (M M D D Y Y)	3. RETRIEVABLE SERIAL NO.	4. ORIGIN OF WASTE: GROUP	TA	BLDG.	WING	ROOM	5. WASTE CODE
10 04 82	097341	MST-10	55	PF		152	116

6. WASTE DESCRIPTION: combustible

7. NUMBERS OF WASTE PACKAGES: PLASTIC BAGS	CARD BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME ft³	8. GROSS VOLUME	UNITS (M = METER³, F = FEET³, G = GALLON)	9. PACKAGE RADIATION AT: SURFACE MR/HR	1 METER MR/HR
		1	55			82	M	2	0

10. GROSS WEIGHT	UNITS (K = KILOGRAM, P = POUND, T = TON)	11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS
579	K	MST12, 13

12. RADIONUCLIDE CONTENT: NUCLIDE	AMOUNT	±	UNITS (C = CURIE, M = GRAM)	ERROR ON AMOUNT	±	AMOUNT DETERMINED BY: (A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE)	SS MATERIALS WRITEOFF: ACCOUNT	PROJECT CODE
Pu 238	4.00.0	E	M		E	M	741	309
Pu 239	400.0	E	M		E	M	744	309
		E			E			
		E			E			
		E			E			
		E			E			

10-13-82

WASTE GENERATOR
Signature certifies that waste is in accordance with all applicable disposal requirements.

H-1 AREA REPRESENTATIVE
Signature certifies that waste package or shipment is safe to handle and transport.

GROUP LEADER (AS NECESSARY)

13. DATE DISPOSED (M M D D Y Y)	14. DISPOSAL/STORAGE LOCATION: AREA	SHAFT	PIT	POST(S)	LAYER	POS.	15. SHAFT SURFACE DOSE MR/HR
10 13 82	G		P2	8	2	W	

H-7 WASTE MANAGEMENT REPRESENTATIVE R. Garcia

HS-E 7-1A (10/81)

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S824699

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None

☐ Other (Call TWCO)	Type	Thickness (in.)
Filter Serial No. 01		
Filter Serial No. 02		

Waste Profile Number 50873	Hazardous Materials		
	Name	EPA Code	Quantity (g)
Gross Weight (lb.)	Lead	D008	454
Net Weight (lb.)			
Shipping Category			
LANL Waste Stream ID			
TRUCON Code			

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
DAVIS CHRISTENSEN		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Mete Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/5/11

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

LOS ALAMOS RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

H-7 Waste Management
Ext 6095 MS-592

1. FORM NUMBER
S 8 2 5713

2. DATE (M M D D Y Y)	3. RETRIEVABLE SERIAL NO.	4. ORIGIN OF WASTE					5. WASTE CODE
		GROUP	TA	BLDG.	WING	ROOM	
1 1 0 8 8 2	0 1 0 8 3 2	MST DO	55	-FF4		432	452

6. WASTE DESCRIPTION

non Combustible

7. NUMBERS OF WASTE PACKAGES						8. GROSS VOLUME	UNITS (M = METER^3, F = FEET^3, G = GALLON)	9. PACKAGE RADIATION AT:	
PLASTIC BAGS	CARD BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME-ft^3			SURFACE MR/HR	1 METER MR/HR
		1	55			2	M	7	3

10. GROSS WEIGHT	UNITS (K = KILOGRAM, P = POUND, T = TON)	11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS
145	K	MSTL

12. RADIONUCLIDE CONTENT				C = CURIE, M = GRAM				AMOUNT DETERMINED BY: A = ANALYSIS, M = MEASUREM, E = ESTIMATE	3S MATERIALS WRITEOFF	
NUCLIDE	AMOUNT	±		UNITS	ERROR ON AMOUNT	±			ACCOUNT	PROJECT CODE
Pu 239	9.948	E	±2M			E		M	7412	08
Am 241		E				E				
		E				E				
		E				E				
		E				E				
		E				E				

12-10-82

WASTE GENERATOR — *Signature certifies that waste is in accordance with all applicable disposal requirements.*

H-1 AREA REPRESENTATIVE — *Signature certifies that waste package or shipment is safe to handle and transport.*

GROUP LEADER (AS NECESSARY)

13. DATE DISPOSED (M M D D Y Y)	14. DISPOSAL/STORAGE LOCATION						15. SHAFT SURFACE DOSE
	AREA	SHAFT	PIT	POST(S)	LAYER	POS.	MR/HR
1 2 2 9 8 2	G		P	28 -	3	W	

H-7 WASTE MANAGEMENT REPRESENTATIVE R. Dorn

HS-E 7-1A (10/81)

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number S825713

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.		Type	Thickness (in.)
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name DAVIS CHRISTENSEN Signature [signature] Date 5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Form 2177 (6/10)

5/6/11

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

LOS ALAMOS RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

H-7 Waste Management
Ext 6095 MS J592

1. FORM NUMBER
S 8 3 - 0719

2. DATE (M M D D Y Y)	3. RETRIEVABLE SERIAL NO.
0 1 1 9 8 3	0 0 9 0 1 5

4. ORIGIN OF WASTE					5. WASTE CODE
GROUP	TA	BLDG.	WING	ROOM	
N S T 1 4	0 3	0 5 M 2 9	9	9 1 6 0	4 4 1

6. WASTE DESCRIPTION

CELL 15 COLD TRASH 1 GA CANS

7. NUMBERS OF WASTE PACKAGES					
PLASTIC BAGS	CARD BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME-ft³
		1	55		

8. GROSS VOLUME	UNITS (M = METER³, F = FEET³, G = GALLON)
5 5 0	G

9. PACKAGE RADIATION AT:	
SURFACE MR/HR	1 METER MR/HR
1 1 0	1 1 0

10. GROSS WEIGHT	UNITS (K = KILOGRAM, P = POUND, T = TON)

11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS

PLASTIC 1 GAL CANS

12. RADIONUCLIDE CONTENT				C = CURIE, M = GRAM				AMOUNT DETERMINED BY: A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE	SS MATERIALS WRITEOFF	
NUCLIDE	AMOUNT		±	UNITS	ERROR ON AMOUNT		±		ACCOUNT	PROJECT CODE
U 235	4	E	-1	M		E		E		
PU 239	1	E	-1	M		E		E		
MFP	3	E	-2	C		E		M		
		E				E				
		E				E				
		E				E				

Manuel R Lopez
WASTE GENERATOR
Signature certifies that waste is in accordance with all applicable disposal requirements.

H-7 AREA REPRESENTATIVE
Signature certifies that waste package or shipment is safe to handle and transport.

GROUP LEADER (AS NECESSARY)

13. DATE DISPOSED (M M D D Y Y)
0 1 1 2 8 3

14. DISPOSAL/STORAGE LOCATION					
AREA	SHAFT	PIT	POST(S)	LAYER	POS.
G		82	9 - 1	3	C

15. SHAFT SURFACE DOSE
MR/HR

H-7 WASTE MANAGEMENT REPRESENTATIVE R. Lane

HSE 7-1A (10/81)

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S830719

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None

☐ Other (Call TWCO)	Type	Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
DAVIS CHRISTENSEN		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/10/11

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

LOS ALAMOS RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

H-7 Waste Management
Ext 6095 MS J592

1. FORM NUMBER
S,8,3, 2420

2. DATE (M M D D Y Y)	3. RETRIEVABLE SERIAL NO.	4. ORIGIN OF WASTE: GROUP	TA	BLDG.	WING	ROOM	5. WASTE CODE
0,2,1,8,8,3	0,1,0,8,0,2	M,S,T,D,O	55	PF4		434	A27

6. WASTE DESCRIPTION

Leached Solids

7. NUMBERS OF WASTE PACKAGES: PLASTIC BAGS	CARD BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME-ft³
		1	55		

8. GROSS VOLUME	UNITS (M = METER³, F = FEET³, G = GALLON)
2	M

9. PACKAGE RADIATION AT: SURFACE MR/HR	1 METER MR/HR
1	1

10. GROSS WEIGHT	UNITS (K = KILOGRAM, P = POUND, T = TON)
2,1,2,3	K

11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS

MS,T,1,2, Rm 434

12. RADIONUCLIDE CONTENT: NUCLIDE	AMOUNT	±	UNITS (C = CURIE, M = GRAM)	ERROR ON AMOUNT	±	AMOUNT DETERMINED BY (A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE)	SS MATERIALS WRITEOFF: ACCOUNT	PROJECT CODE
Pu 52/4 85		E +1 M			E	A	741	309
		E			E			
		E			E			
		E			E			
		F			E			
		F			E			

2-23-83

esparza
WASTE GENERATOR

H-1 AREA REPRESENTATIVE

RL Scarbrough
GROUP LEADER (AS NECESSARY)

13. DATE DISPOSED (M M D D Y Y)	14. DISPOSAL/STORAGE LOCATION: AREA	SHAFT	PIT	POST(S)	LAYER	POS.	15. SHAFT SURFACE DOSE MR/HR
0,3,0,2,8,3	G		P2	10	12	E	

H-7 WASTE MANAGEMENT REPRESENTATIVE B R Wenzi

HS-E 7-1A (10/81)

Signature certifies waste met acceptance criteria, and all disposal requirements were met.

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S832420

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.		Type	Thickness (in.)
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Gail Welsh	Gail M. Welsh	11/8/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Form 2177 (6/10)

11/8/11

5833020

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

LOS ALAMOS RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

H-7 Waste Management
Ext 6095 MS J592

1. FORM NUMBER
S 8 3 3020

2. DATE (M M D D Y Y)	3. RETRIEVABLE SERIAL NO.
0 4 0 4 8 3	0 1 0 8 6 1

4. ORIGIN OF WASTE					5. WASTE CODE
GROUP	TA	BLDG.	WING	ROOM	
M S T D O	5 5	P F 4		4 3 2	A 1 6

6. WASTE DESCRIPTION: Combustible

7. NUMBERS OF WASTE PACKAGES					
PLASTIC BAGS	CARD BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME-ft³
		1	55		

8. GROSS VOLUME	UNITS (M METER³, F FEET³, G GALLON)
.2	

9. PACKAGE RADIATION AT:	
SURFACE MR/HR	1 METER MR/HR
4	2

10. GROSS WEIGHT	UNITS (K KILOGRAM, P POUND, T TON)
0 5 2.2	K

11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS: MST-12

12. RADIONUCLIDE CONTENT							AMOUNT DETERMINED BY (A ANALYSIS, M MEASUREMENT, E ESTIMATE)	SS MATERIALS WRITEOFF	
NUCLIDE	AMOUNT	±	UNITS (C CURIE, M GRAM)	ERROR ON AMOUNT	±			ACCOUNT	PROJECT CODE
Pu 239	5.64 E-08	41	m			m		741	208

D. Blankenship — WASTE GENERATOR
Signature certifies that waste is in accordance with all applicable disposal requirements

E. Davis 4-6-83 — H-1 AREA REPRESENTATIVE
Signature certifies that waste package or shipment is safe to handle and transport.

A. M. Scarborough — GROUP LEADER (AS NECESSARY)

13. DATE DISPOSED (M M D D Y Y)
0 4 1 3 8 3

14. DISPOSAL/STORAGE LOCATION					
AREA	SHAFT	PIT	POST(S)	LAYER	POS.
G		P 2	1 0 - 1 1	3	W

15. SHAFT SURFACE DOSE
MR/HR

H-7 WASTE MANAGEMENT REPRESENTATIVE P. Davis

HS-E 7-1A (10/81)

Signature certifies waste met acceptance criteria, and all disposal requirements were met.

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S833020

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number 50823

Hazardous Materials		
Name	EPA Code	Quantity (g)
Lead	D008	454

Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
DAVIS CHRISTENSEN		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Form 2177 (6/10)

5/10/11

3M

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

1. FORM NUMBER
S,8,4 2490

LOS ALAMOS RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

HSE-7 Waste Management
Ext 6095 MS J592

2. DATE (M M D D Y Y)	3. RETRIEVABLE SERIAL NO.	4. ORIGIN OF WASTE: GROUP	TA	BLDG.	WING	ROOM	5. WASTE CODE
0209 84	01/5041	MST	053	PF4		413Z	051Z

6. WASTE DESCRIPTION: Non-Combustible

7. NUMBERS OF WASTE PACKAGES: PLASTIC BAGS	CARD BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME-ft³	8. GROSS VOLUME	UNITS (M = METER³, F = FEET³, G = GALLON)	9. PACKAGE RADIATION AT: SURFACE MR/HR	1 METER MR/HR
		1	55			.22		2	1

10. GROSS WEIGHT	UNITS (K = KILOGRAM, P = POUND, T = TON)	11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS
981	K	MST 12, 13

12. RADIONUCLIDE CONTENT: NUCLIDE	AMOUNT	±	UNITS (C = CURIE, M = GRAM)	ERROR ON AMOUNT	±	AMOUNT DETERMINED BY: A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE	SS MATERIALS WRITEOFF: ACCOUNT	PROJECT CODE
Pu 242	9.32	E +04	M	.1	E -01		741	309
Pu 238	.18	E +01	M	.1	E -01		741	309
Pu 246		E			E		741	309
		E			E			
		E			E			
		E			E			

Ignacio P. Cano — WASTE GENERATOR
Signature certifies that waste is in accordance with all applicable disposal requirements.

2-15-84 — HSE-1 AREA REPRESENTATIVE
Signature certifies that waste package or shipment is safe to handle and transport.

A. W. Lowrey — GROUP LEADER (AS NECESSARY)

13. DATE DISPOSED (M M D D Y Y)	14. DISPOSAL/STORAGE LOCATION: AREA	SHAFT	PIT	POST(S)	LAYER	POS.	15. SHAFT SURFACE DOSE MR/HR
03/13/84	G1		P2	16	4	E	

HSE-7 WASTE MANAGEMENT REPRESENTATIVE — ROSILA F. GARCIA
Signature certifies waste met acceptance criteria, and all disposal requirements were met.

HS Form Number 10-2A (12/83)

Form 2177

Los Alamos NATIONAL LABORATORY EST. 1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S842490

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name: Davis Christensen	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information: New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.		Type	Thickness (in.)
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Davis Christensen	Davis Christensen	5/25/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/24/11

3/6/84

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

1. [redacted]
B.S.A. 2562

LOS ALAMOS RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

HSE 7 Waste Management
Ext 6095 MS J592

2. DATE (M M D D Y Y)	3. RETRIEVABLE SERIAL NO.
03/29/84	01/5/1616

4. ORIGIN OF WASTE					5. WASTE CODE
GROUP	TA	BLDG.	WING	ROOM	
MST	DO	55	PF4	432	A19

6. WASTE DESCRIPTION
MIXED COMBUSTIBLE/NON-COMBUSTIBLE

7. NUMBERS OF WASTE PACKAGES					
PLASTIC BAGS	CARD BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME-ft³
		1	55		

8. GROSS VOLUME	UNITS (M = METER³, F = FEET³, G = GALLON)
2	M

9. PACKAGE RADIATION AT:	
SURFACE MR/HR	1 METER MR/HR
1	1

10. GROSS WEIGHT	UNITS (K = KILOGRAM, P = POUND, T = TON)
620	K

11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS
MST/3 TRITIUM CONTAMINATED RM305

12. RADIONUCLIDE CONTENT								AMOUNT DETERMINED BY (A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE)	SS MATERIALS WRITEOFF	
NUCLIDE	AMOUNT		±	UNITS (C = CURIE, M = GRAM)	ERROR ON AMOUNT		±		ACCOUNT	PROJECT CODE
Pu 239		E	+0	m		E		m	741	309
H 3		E				E				
		E				E				
		E				E				
		E				E				
		E				E				

Ray E. Brown — WASTE GENERATION
[signature] 3/6/84 — HSE-1 AREA REPRESENTATIVE
[signature] — GROUP LEADER (OR DESIGNEE)

Signature certifies that the [illegible] applicable [illegible]

13. DATE DISPOSED (M M D D Y Y)	14. DISPOSAL/STORAGE LOCATION						15. SHAFT SURFACE DOSE
	AREA	SHAFT	PIT	POST(S)	LAYER	POS.	MR/HR
03/30/84	G		P2	16 17	1	E	

HSE-7 WASTE MANAGEMENT REPRESENTATIVE ROSILA F. GARCIA

[redacted] 89-8A (10/83)

Signature certifies waste met acceptance criteria, and all disposal requirements were met.

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S842562

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name: Leon Montoya	Signature: [signature]	Date: 5/22/12	

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information: Overpack for transport to WCRRF

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☒ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO) Type	Thickness (in.)

Filter Serial No.			
	01 19DS		
	02 BM-45		

Hazardous Materials		
Name	EPA Code	Quantity (g)

Waste Profile Number	
Gross Weight (lb.)	236
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	
Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Leon Montoya	[signature]	5/22/12

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm²)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm²)	Signature			

Form 2177 (6/10)

Uptt. 5/22/12

9/14

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

1. FORM NUMBER: S, 8, 4, 3527

LOS ALAMOS RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

HSE-7 Waste Management
Ext 6095 MS J592

2. DATE (M M D D Y Y)	3. RETRIEVABLE SERIAL NO.	4. ORIGIN OF WASTE: GROUP	TA	BLDG.	WING	ROOM	5. WASTE CODE
0 9 1 4 8 4	0 1 4 5 7 2	M S T 5	3	2 9	2		A 6 0

6. WASTE DESCRIPTION: COMBUSTIBLES

7. NUMBERS OF WASTE PACKAGES: PLASTIC BAGS	CARD BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME ft³	8. GROSS VOLUME	UNITS (M = METER³, F = FEET³, G = GALLON)	9. PACKAGE RADIATION AT: SURFACE MR/HR	1 METER MR/HR
		1	55			.2	M	2	1

10. GROSS WEIGHT	UNITS (K = KILOGRAM, P = POUND, T = TON)	11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS
482	K	MST 5 VIA MST 10

12. RADIONUCLIDE CONTENT: NUCLIDE	AMOUNT	±	UNITS (C = CURIE, M = GRAM)	ERROR ON AMOUNT	±	AMOUNT DETERMINED BY (A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE)	SS MATERIALS WRITEOFF: ACCOUNT	PROJECT CODE
PU 239		E			E			
MFP	4.978	E	-	C	E	M	741	309
		E			E			
		E			E			
		E			E			
		E			E			

W. K. Gibson
WASTE GENERATOR

HSE-1 AREA REPRESENTATIVE

Kate Camp
GROUP LEADER (AS NECESSARY)

applicable disposal requirements

safe to handle and transport

13. DATE DISPOSED (M M D D Y Y)	14. DISPOSAL/STORAGE LOCATION: AREA	SHAFT	PIT	POST(S)	LAYER	POS.	15. SHAFT SURFACE DOSE MR/HR
1 1 0 1 8 4	G		82	18	3	E	

HSE-7 WASTE MANAGEMENT REPRESENTATIVE ROSILA F. GARCIA

Signature certifies waste met acceptance criteria, and all disposal requirements were met.

Form Number 10-8A (1/83)

Form 2177

Los Alamos NATIONAL LABORATORY EST. 1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S843527

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date
Davis Christensen		

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information 5.7d. 5/10/11
Drum Can not be shipped to WIPP.

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Pressurized container	D003	1

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Davis Christensen		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/10/11

4/12/84

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

1. FORM NUMBER
S 8 4 4335

LOS ALAMOS RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

HSE-7 Waste Management
Ext 6095 MS J592

2. DATE (M M D D Y Y)	3. RETRIEVABLE SERIAL NO.	4. ORIGIN OF WASTE					5. WASTE CODE
		GROUP	TA	BLDG.	WING	ROOM	
04 10 84	015137	CHM 1	3	SM 29	3		A18

6. WASTE DESCRIPTION
COMBUSTIBLE

7. NUMBERS OF WASTE PACKAGES						8. GROSS VOLUME	UNITS (M = METER^3, F = FEET^3, G = GALLON)	9. PACKAGE RADIATION AT:	
PLASTIC BAGS	CARD BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME ft^3			SURFACE MR/HR	1 METER MR/HR
		1	55			2	M		

10. GROSS WEIGHT	UNITS (K = KILOGRAM, P = POUND, T = TON)	11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS
464	K	CHM-1 VIE MST-10

12. RADIONUCLIDE CONTENT			UNITS (C = CURIE, M = GRAM)	ERROR ON AMOUNT		AMOUNT DETERMINED BY: (A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE)	SS MATERIALS WRITEOFF	
NUCLIDE	AMOUNT	±			±		ACCOUNT	PROJECT CODE
PU 54	E	+0	M	E		M	741	309
	E			E				
	E			E				
	E			E				
	E			E				
	E			E				

D. MARTINEZ CHM-1

A. N. Moore IV
WASTE GENERATOR

HSE-1 AREA REPRESENTATIVE

GROUP LEADER (AS NECESSARY)

13. DATE DISPOSED (M M D D Y Y)	14. DISPOSAL/STORAGE LOCATION						15. SHAFT SURFACE DOSE
	AREA	SHAFT	PIT	POST(S)	LAYER	POS.	MR/HR
04 15 84	G		B2	18	2	E	

HSE-7 WASTE MANAGEMENT REPRESENTATIVE ROSILA E. GARCIA

Signature certifies waste met acceptance criteria and all disposal requirements were met.

HS Form Number 10-2A (12/83)

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S844335

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Gail Welsh	Gail M. Welsh	11/8/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

11/8/11

B/L

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

LOS ALAMOS RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

HSE-7 Waste Management
Ext 6095 MS J592

1. FORM NUMBER
S,8,4, 5317

2. DATE (M M D D Y Y)	3. RETRIEVABLE SERIAL NO.	4. ORIGIN OF WASTE					5. WASTE CODE
		GROUP	TA	BLDG.	WING	ROOM	
0 4 2 7 8 4	0 1 5 3 8 8	MST-5	03	SM-29	2		A60

6. WASTE DESCRIPTION: Combustible

7. NUMBERS OF WASTE PACKAGES						8. GROSS VOLUME	UNITS (M = METER^3, F = FEET^3, G = GALLON)	9. PACKAGE RADIATION AT:	
PLASTIC BAGS	CARD BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME ft^3			SURFACE MR/HR	1 METER MR/HR
		1	55			2	M	3	1

10. GROSS WEIGHT	UNITS (K = KILOGRAM, P = POUND, T = TON)	11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS
590	K	MSTS VIA METRO

12. RADIONUCLIDE CONTENT								AMOUNT DETERMINED BY (A ANALYSIS, M MEASUREMENT, E ESTIMATE)	SS MATERIALS WRITEOFF	
NUCLIDE	AMOUNT	±	UNITS (C = CURIE, M = GRAM)	ERROR ON AMOUNT	±				ACCOUNT	PROJECT CODE
MFP	7.961	E	-4 C		E		M		741	304
PU 83		E			E					
		E			E					
		E			E					
		E			E					
		E			E					

T. K. Bibaum
WASTE GENERATOR

HSE-1 AREA REPRESENTATIVE

5/10/84

Kate Camp
GROUP LEADER (IF NECESSARY)

13. DATE DISPOSED (M M D D Y Y)	14. DISPOSAL STORAGE LOCATION						15. SHAFT SURFACE DOSE
	AREA	SHAFT	PIT	POST(S)	LAYER	POS	MR/HR
1 1 0 5 8 4	G		P2	18	1	C	

HSE-7 WASTE MANAGEMENT REPRESENTATIVE ROSILA F. GARCIA

Signature certifies waste met acceptance criteria, and all disposal requirements were met.

HS Form Number 10-2A (12/83)

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S845317

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number: 50823

Hazardous Materials		
Name	EPA Code	Quantity (g)
Lead	D008	454

Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Davis Christensen		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/10/11

11-5

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

1. FORM NUMBER: S.B.4. 6070

LOS ALAMOS RADIOACTIVE SOLID WASTE DISPOSAL RECORD

HSE-7 Waste Management
Ext 6095 MS J592

2. DATE (M M D D Y Y)	3. RETRIEVABLE SERIAL NO.	4. ORIGIN OF WASTE: GROUP	TA	BLDG.	WING	ROOM	5. WASTE CODE
12 30 84	01 83 84	CHM	01	3SM	29	5	452

6. WASTE DESCRIPTION: Non Combustible

7. NUMBERS OF WASTE PACKAGES: PLASTIC BAGS	CARD-BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME-ft³	8. GROSS VOLUME	UNITS (M = METER³, F = FEET³, G = GALLON)	9. PACKAGE RADIATION AT: SURFACE MR/HR	1 METER MR/HR
			55			2	R	3	2

10. GROSS WEIGHT	UNITS (K = KILOGRAM, P = POUND, T = TON)	11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS
645	K	CHM / VIA MSTIO

12. RADIONUCLIDE CONTENT: NUCLIDE	AMOUNT	±	UNITS (C = CURIE, M = GRAM)	ERROR ON AMOUNT	±	AMOUNT DETERMINED BY: (A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE)	SS MATERIALS WRITEOFF: ACCOUNT	PROJECT CODE
Pu	5461	E 1	M		E	M	741	309
		E			E			
		E			E			
		E			E			
		E			E			
		E			E			

William J. Bauer
WASTE GENERATOR
Signature certifies that waste is in accordance with all applicable disposal requirements

Virginia Ray 1-6-84
HSE-1 AREA REPRESENTATIVE
Signature certifies that waste package is safe to handle and transport

GROUP LEADER (AS NECESSARY)

13. DATE DISPOSED (M M D D Y Y)	14. DISPOSAL/STORAGE LOCATION: AREA	SHAFT	PIT	POST(S)	LAYER	POS.	15. SHAFT SURFACE DOSE MR/HR
12 19 84	G1		B12	19	3	C	

HSE-7 WASTE MANAGEMENT REPRESENTATIVE: ROSILA F. CASTILLA

Signature certifies waste met acceptance criteria, and all disposal requirements were met

HS Form Number 10-2A (12/83)

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S846070

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information. Note: This drum can not be shipped to WIPP.

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Pressurized Container	D003	1

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Gail Welsh	Gail M. Welsh	2/15/12

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

2/15/12

12-7

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

LOS ALAMOS RADIOACTIVE SOLID WASTE DISPOSAL RECORD

HSE-7 Waste Management
Ext 6095 MS J592

1. [illegible]
5,8,4,6669

2. DATE (M M D D Y Y)	3. RETRIEVABLE SERIAL NO.
12/8/84	0,19,476

4. ORIGIN OF WASTE					5. WASTE CODE
GROUP	TA	BLDG.	WING	ROOM	
MST10	55	PFA		432	A16

6. WASTE DESCRIPTION: COMBUSTIBLE PLASTIC

7. NUMBERS OF WASTE PACKAGES						8. GROSS VOLUME	UNITS (M = METER^3, F = FEET^3, G = GALLON)	9. PACKAGE RADIATION AT:	
PLASTIC BAGS	CARD-BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME-ft^3			SURFACE MR/HR	1 METER MR/HR
		1	55			2	M	9	4

10. GROSS WEIGHT	UNITS (K = KILOGRAM, P = POUND, T = TON)	11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS
625	K	MST/1/1/24/3

12. RADIONUCLIDE CONTENT				C = CURIE, M = GRAM				AMOUNT DETERMINED BY: A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE	SS MATERIALS WRITEOFF	
NUCLIDE	AMOUNT		±	UNITS	ERROR ON AMOUNT		±		ACCOUNT	PROJECT CODE
Pu 239	5	E	+1	M		E		M	741	309
		E				E				
		E				E				
		E				E				
		E				E				
		E				E				

WASTE GENERATOR — Signature certifies that waste is in accordance with all applicable disposal requirements

HSE-1 AREA REPRESENTATIVE — Signature certifies that waste [illegible] is safe to handle and transport

12-17-84

GROUP LEADER (AS NECESSARY)

13. DATE DISPOSED (M M D D Y Y)	14. DISPOSAL/STORAGE LOCATION						15. SHAFT SURFACE DOSE
	AREA	SHAFT	PIT	POST(S)	LAYER	POS.	MR/HR
12 19 84	G		P	2	10	E	

HSE-7 WASTE MANAGEMENT REPRESENTATIVE: ROSILA F. GARCIA

Signature certifies waste met acceptance criteria, and all disposal requirements were met

HB Form Number 10-84 (1/83)

Form 2177

Los Alamos NATIONAL LABORATORY EST. 1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S846669

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number 50823

Hazardous Materials		
Name	EPA Code	Quantity (g)
Lead	D008	454

Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Davis Christensen		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/10/11

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY 1-11

LOS ALAMOS RADIOACTIVE SOLID WASTE DISPOSAL RECORD

HSE-7 Waste Management
Ext 6095 MS J592

1. FORM NUMBER
S.R.S. 1430

2. DATE	3. RETRIEVABLE SERIAL NO.	4. ORIGIN OF WASTE					5. WASTE CODE
M M D D Y Y		GROUP	TA	BLDG.	WING	ROOM	
0 1 0 3 8 5	0 1 9 5 5 4	M S T 1 0	5 5	P F 4		4 3 2	4 5 2

3. WASTE DESCRIPTION
N.O.N. COMBUSTIBLE

7. NUMBERS OF WASTE PACKAGES						8. GROSS VOLUME	UNITS (M = METER^3, F = FEET^3, G = GALLON)	9. PACKAGE RADIATION AT	
PLASTIC BAGS	CARD-BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME ft^3			SURFACE MR/HR	1 METER MR/HR
		1 5 5				2 4		2	0

10. GROSS WEIGHT	UNITS (K = KILOGRAM, P = POUND, T = TON)	11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS
7 8 9 1	K	M S T 1 2

12. RADIONUCLIDE CONTENT								AMOUNT DETERMINED BY (A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE)	SS MATERIALS WRITEOFF	
NUCLIDE	AMOUNT		±	UNITS (C = CURIE, M = GRAM)	ERROR ON AMOUNT		±		ACCOUNT	PROJECT CODE
Pu 52693		E	+/-	M		E		M	741	309
		E				E				
		E				E				
		E				E				
		E				E				
		E				E				

WASTE GENERATOR — *Signature certifies that waste is in accordance with all applicable disposal requirements.*

HSE-1 AREA REPRESENTATIVE — *Signature certifies that waste package or shipment is safe to handle and transport.*

GROUP LEADER (AS NECESSARY)

13. DATE DISPOSED	14. DISPOSAL/STORAGE LOCATION						15. SHAFT SURFACE DOSE
M M D D Y Y	AREA	SHAFT	PIT	POST(S)	LAYER	ROW	MR/HR
0 3 1 2 8 5	G		P 2	2 1	4	C	

HSE-7 WASTE MANAGEMENT REPRESENTATIVE — *Signature certifies waste met acceptance criteria and all disposal requirements were met.*

DOE Form Number 1430-2A (12/83)

Form 2177

Los Alamos NATIONAL LABORATORY EST. 1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S851430

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date
Davis Christensen		

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Davis Christensen		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Form 2177 (6/10)

5/10/11

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

1. FORM NUMBER
S 8 5 1708

LOS ALAMOS RADIOACTIVE SOLID WASTE DISPOSAL RECORD

HSE-7 Waste Management
[illegible] MS 1592

2. DATE (M M D D Y Y)	3. RETRIEVABLE SERIAL NO	4. ORIGIN OF WASTE: GROUP	TA	BLDG.	WING	ROOM	5. WASTE CODE
12 25 85	018648	MST10	55	1FH		432	A18

6. WASTE DESCRIPTION: Combustible

7. NUMBERS OF WASTE PACKAGES: PLASTIC BAGS	CARD-BOARD BOXES	DRUMS NO.	DRUMS GAL	WOODEN CRATES NO.	WOODEN CRATES VOLUME-ft³
		1	55		

8 GROSS VOLUME	UNITS (M = METER³, F = FEET³, G = GALLON)	9. PACKAGE RADIATION AT: SURFACE MR/HR	1 METER MR/HR
2	M	8	

10. GROSS WEIGHT	UNITS (K = KILOGRAM, P = POUND, T = TON)
657	K

11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS: MST 12

12. RADIONUCLIDE CONTENT: NUCLIDE	AMOUNT	±	UNITS (C = CURIE, M = GRAM)	ERROR ON AMOUNT	±	AMOUNT DETERMINED BY (A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE)	SS MATERIALS WRITEOFF: ACCOUNT	PROJECT CODE
U-235		E	M		E	M	741	309
Pu-239		E	M		E	M	741	309
		E			E			
		E			E			
		E			E			
		E			E			

R. Dawson — WASTE GENERATOR

[illegible] — HSE-1 AREA REPRESENTATIVE

Kate Camp — GROUP LEADER (AS NECESSARY)

13. DATE DISPOSED (M M D D Y Y)	14. DISPOSAL/STORAGE LOCATION: AREA	SHAFT	PIT	POST(S)	LAYER	FOS.	15. SHAFT SURFACE DOSE MR/HR
01 11 86	G		PR	21	4	W	

HSE-7 WASTE MANAGEMENT REPRESENTATIVE: R. Dawson

Signature certifies waste conforms acceptance criteria, and all disposal requirements were met

HS Form Number 10-2A (12/83)

Form 2177

Los Alamos NATIONAL LABORATORY EST. 1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S851708

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date
Davis Christensen		

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None

☐ Other (Call TWCO)	Type	Thickness (in.)
Filter Serial No. 01		
Filter Serial No. 02		

Hazardous Materials		
Name	EPA Code	Quantity (g)
Lead	D008	454

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	
Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Davis Christensen		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Form 2177 (6/10)

5/10/11

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

LOS ALAMOS RADIOACTIVE SOLID WASTE DISPOSAL RECORD

HSE-7 Waste Management
Ext 6095 MS J592

1. FORM NUMBER	2. DATE (MM DD YY)	3. RETRIEVABLE SERIAL NO.	4. ORIGIN OF WASTE: GROUP	TA	BLDG.	WING	ROOM	5. WASTE CODE
S,8,5, 1711	0,1,2,5,8,5	0,1,9,3,7,6	M,S,T,1,0	5,5	,P,F,4		4,9,2	A,1,6

6. WASTE DESCRIPTION: Combustible

7. NUMBERS OF WASTE PACKAGES: PLASTIC BAGS	CARD-BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME-ft³	8. GROSS VOLUME	UNITS (M = METER³, F = FEET³, G = GALLON)	9. PACKAGE RADIATION AT: SURFACE MR/HR	1 METER MR/HR
			1,5,5			,2	M	,5	,2

10. GROSS WEIGHT: 5,9,4 UNITS (K = KILOGRAM, P = POUND, T = TON): K

11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS: M,S,T,1,2,4,1,3

12. RADIONUCLIDE CONTENT: NUCLIDE	AMOUNT	±	UNITS (C = CURIE, M = GRAM)	ERROR ON AMOUNT	±	AMOUNT DETERMINED BY: (A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE)	SS MATERIALS WRITEOFF: ACCOUNT	PROJECT CODE
Pu 239	,5,2,9,9	E ,4,1	M	,1,4	E ,1,1	M	741	309
		E			E			
		E			E			
		E			E			
		E			E			
		E			E			

WASTE GENERATOR — Signature certifies that waste is in accordance with all applicable disposal requirements.

HSE-1 AREA REPRESENTATIVE — Signature certifies that waste package or shipment is safe to handle and transport.

GROUP LEADER (AS NECESSARY)

13. DATE DISPOSED (M M D D Y Y)	14. DISPOSAL/STORAGE LOCATION: AREA	SHAFT	PIT	POST(S)	LAYER	POS.	15. SHAFT SURFACE DOSE MR/HR
0,2,/,1,2,8,5	G1		P2-21		4	W	

HSE-7 WASTE MANAGEMENT REPRESENTATIVE

Signature certifies waste met acceptance criteria, and all disposal requirements were met.

HS Form Number 10-2A (12/83)

Form 2177

Los Alamos NATIONAL LABORATORY EST. 1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S851711

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None

☐ Other (Call TWCO)	Type	Thickness (in.)
Filter Serial No. 01		
Filter Serial No. 02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Gail Welsh	Gail M. Welsh	8/22/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)				
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

The data in this section were collected according to approved procedures.

Form 2177 (6/10)

Encl 8/22/2011

Encl 8/22/2011

8/22/11

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY 8/12

LOS ALAMOS RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

H-7 Waste Management
Ext 6095 MS J592

1. FORM NUMBER
S 8 5 2015

MICHELLE L. BJARKE

2. DATE (M M D D Y Y)
07 28 83

3. RETRIEVABLE SERIAL NO.
020311

4. ORIGIN OF WASTE				
GROUP	TA	BLDG.	WING	ROOM
MST DO	55	PF4		432

5. WASTE CODE
A18

6. WASTE DESCRIPTION
Combustible ETA-12 WIPE GAS TESTED

7. NUMBERS OF WASTE PACKAGES					
PLASTIC BAGS	CARD BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME ft³
		1	55		

8. GROSS VOLUME	UNITS (M = METER³, F = FEET³, G = GALLON)
.2	M

9. PACKAGE RADIATION AT:	
SURFACE MR/HR	1 METER MR/HR
5	1

10. GROSS WEIGHT	UNITS (K - KILOGRAM, P - POUND, T - TON)
29.5	K

DRUM # MST 1011 R1 2011

11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS

MST 1011 = 30gal UD 55gal = HAS S#233978

12. RADIONUCLIDE CONTENT				UNITS (C - CURIE, M - GRAM)	ERROR ON AMOUNT			AMOUNT DETERMINED BY: (A - ANALYSIS, M - MEASUREMENT, E - ESTIMATE)	SS MATERIALS WRITEOFF	
NUCLIDE	AMOUNT		±				±		ACCOUNT	PROJECT CODE
Pu 239/240	83.2	E	± 0	M		E		M	741	309
		E				E				
		E				E				
		E				E				
		E				E				
		E				E				

T. Espinoza
WASTE GENERATOR
Signature certifies that waste is properly packaged with all applicable disposal requirements

E. Wan. 11 Aug 83
H-1 AREA REPRESENTATIVE
Signature certifies that waste package or shipment is safe to handle and transport.

C.M. Seabourne
GROUP LEADER (AS NECESSARY)

13. DATE DISPOSED (M M D D Y Y)
08 21 83

14. DISPOSAL/STORAGE LOCATION					
AREA	SHAFT	PIT	POST(S)	LAYER	POS
G		P4	7	4	C

15. SHAFT SURFACE DOSE
MR/HR

H-7 WASTE MANAGEMENT REPRESENTATIVE ROSILA F. GARCIA

Signature certifies waste met acceptance criteria, and all disposal requirements

S-E 7-1A (10/81)

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S852015

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date
Davis Christensen		

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None

☐ Other (Call TWCO)	Type	Thickness (in.)
Filter Serial No. 01		
Filter Serial No. 02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Davis Christensen		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/10/11

6/12

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

LOS ALAMOS RADIOACTIVE SOLID WASTE DISPOSAL RECORD FORM

H-7 Waste Management
Ext 6095 MS J592

1. FORM NUMBER
S, 8 5,2 0 1 9

MICHELLE L. BJARKE

2 DATE (M M D D Y Y)
1 0 2 7 8 3

3. RETRIEVABLE SERIAL NO.
0 2 0 5 1 9

4. ORIGIN OF WASTE				
GROUP	TA	BLDG.	WING	ROOM
M S T D O	5 5	P F 4		4 3 2

5. WASTE CODE
A 1 6

6. WASTE DESCRIPTION
Combustible BFB-116 WIPP GAS TESTED

7. NUMBERS OF WASTE PACKAGES					
PLASTIC BAGS	CARD BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME-ft³
		1	55		

8. GROSS VOLUME	UNITS (M = METER³, F = FEET³, G = GALLON)
.2	M

9. PACKAGE RADIATION AT:	
SURFACE MR/HR	1 METER MR/HR
3	1

10. GROSS WEIGHT	UNITS (K = KILOGRAM, P = POUND, T = TON)
4 6 3	K

Pm 204 TQK

11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS
MSTI1-30GAL IN 55GAL-WAS S834725

12. RADIONUCLIDE CONTENT				UNITS (C = CURIE, M = GRAM)	ERROR ON AMOUNT			AMOUNT DETERMINED BY: (A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE)	SS MATERIALS WRITEOFF	
NUCLIDE	AMOUNT		±				±		ACCOUNT	PROJECT CODE
Pu 8 3 2 9 2 8		E	+0	M		E		M	7 4 1	3 D 9
		E				E				
		E				E				
		E				E				
		E				E				
		E				E				

Patricia Arbizaga
WASTE GENERATOR
Signature certifies that waste is in accordance with all applicable disposal requirements

E W Penn 11-8-85 BM
H-1 AREA REPRESENTATIVE
Signature certifies that waste package or shipment is safe to handle and transport

A M Scarborough
GROUP LEADER (AS NECESSARY)

13. DATE DISPOSED (M M D D Y Y)
1 1 0 8 8 5

14. DISPOSAL/STORAGE LOCATION					
AREA	SHAFT	PIT	POST(S)	LAYER	POS.
6		P4	7 - 1	4	W

15. SHAFT SURFACE DOSE
MR/HR

H-7 WASTE MANAGEMENT REPRESENTATIVE ROSILA F. GARCIA

Signature certifies wastes met acceptance criteria, and all special requirements were met

HS-E 7-1A (10/81)

Form 2177

Los Alamos NATIONAL LABORATORY EST. 1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S852019

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date
Davis Christensen		

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO) Type	Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Davis Christensen		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Form 2177 (6/10)

5/10/11

10/3

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

LOS ALAMOS RADIOACTIVE SOLID WASTE DISPOSAL RECORD

HSE-7 Waste Management
Ext 6095 MS J592

1. FORM NUMBER	2. DATE	3. RETRIEVABLE SERIAL NO.	4. ORIGIN OF WASTE					5. WASTE CODE
			GROUP	TA	BLDG.	WING	ROOM	
S,8,5,5279	M M D D Y Y 0,9,2,5,8,5	0,2,0,9,7,8	M,S,T,-5	0,3	S,M,-,2,9	2		A,6,1

6. WASTE DESCRIPTION: Non-Combustible

7. NUMBERS OF WASTE PACKAGES						8. GROSS VOLUME	UNITS (M = METER^3, F = FEET^3, G = GALLON)	9. PACKAGE RADIATION AT:	
PLASTIC BAGS	CARD-BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME-ft^3			SURFACE MR/HR	1 METER MR/HR
		1	55			2	M		

10. GROSS WEIGHT: 6607 K (K = KILOGRAM, P = POUND, T = TON)

11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS: MSIT-SI Via MSIT/O A0927

12. RADIONUCLIDE CONTENT				UNITS (C = CURIE, M = GRAM)	ERROR ON AMOUNT			AMOUNT DETERMINED BY: (A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE)	SS MATERIALS WRITEOFF	
NUCLIDE	AMOUNT		±				±		ACCOUNT	PROJECT CODE
MFP	2,5,3,4	E	-14	C		E		M	741	309
Pu,83,		E				E				
Pu,54,		E				E				
		E				E				
		E				E				
		E				E				

mfp

W. Gibson Modesta Espinoza
WASTE GENERATION
Signature certifies that waste is in accordance with all applicable disposal requirements.

V. Gruber 10-2-85
HSE-1 AREA REPRESENTATIVE
Signature certifies that waste package or shipment safe to handle and transport.

Kate Camp
GROUP LEADER (IF NECESSARY)

13. DATE DISPOSED	14. DISPOSAL/STORAGE LOCATION						15. SHAFT SURFACE DOSE
M M D D Y Y	AREA	SHAFT	PIT	POST(S)	LAYER	POS.	MR/HR
1,0,1,0,8,5	G		P4	7	1	C	

ROSILA F. GARCIA
HSE-7 WASTE MANAGEMENT REPRESENTATIVE
Signature certifies waste met acceptance criteria, and all disposal requirements were met

HS Form Number 10-2A (12/83)

Form 2177

Los Alamos NATIONAL LABORATORY EST. 1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S855279

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name: Davis Christensen	Signature:		Date:

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information: New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Davis Christensen		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/10/11

175

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

LOS ALAMOS RADIOACTIVE SOLID WASTE DISPOSAL RECORD

HSE-7 Waste Management
Ext 6095 MS J592

1. FORM NUMBER
S 8 5 5283

2. DATE (M M D D Y Y)	3. RETRIEVABLE SERIAL NO.	4. ORIGIN OF WASTE					5. WASTE CODE
		GROUP	TA	BLDG.	WING	ROOM	
09 25 85	0 2 1 5 0 4	M S T 1	0 5 5	P F 4		4 3 2	A F 8

6. WASTE DESCRIPTION
NONCOMBUSTIBLE

7. NUMBERS OF WASTE PACKAGES						8. GROSS VOLUME	UNITS (M = METER^3, F = FEET^3, G = GALLON)	9. PACKAGE RADIATION AT:	
PLASTIC BAGS	CARD-BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME-ft^3			SURFACE MR/HR	1 METER MR/HR
		1	55			12	M	4	2

10. GROSS WEIGHT	UNITS (K = KILOGRAM, P = POUND, T = TON)	11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS
7194		MST 13 A0936 Tritium Cont

12. RADIONUCLIDE CONTENT				C = CURIE, M = GRAM				AMOUNT DETERMINED BY: A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE	SS MATERIALS WRITEOFF	
NUCLIDE	AMOUNT		±	UNITS	ERROR ON AMOUNT		±		ACCOUNT	PROJECT CODE
Pu 239	190	E	± 1	M		E		M	741	309
H^3 ~~1.37~~		E		M		E		M	741	309
		E				E				
		E				E				
		E				E				
		E				E				

Ellen Lisinger
WASTE GENERATOR
Signature certifies that waste is in accordance with all applicable disposal requirements.

HSE-7 AREA REPRESENTATIVE
Signature certifies that waste package or shipment is safe to handle and transport.

A M Scarborough
~~GROUP LEADER (IF NECESSARY)~~

13. DATE DISPOSED (M M D D Y Y)
10 10 85

14. DISPOSAL/STORAGE LOCATION					
AREA	SHAFT	PIT	POST(S)	LAYER	POS.
G		P4	7	4	E

15. SHAFT SURFACE DOSE
MR/HR

HSE-7 WASTE MANAGEMENT REPRESENTATIVE ROSILA F. GARCIA
Signature certifies waste met acceptance criteria, and all disposal requirements were met.

HS Form Number 10-2A (12/83)

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S855283

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date
Davis Christensen		

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information LJJ. 5/10/11
Drum Can not be shipped to WIPP.

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO) Type	Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Pressurized container	D003	1

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Davis Christensen		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Form 2177 (6/10)

5/10/11

C

Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

RADIOACTIVE SOLID WASTE DISPOSAL RECORD

NOTE: Read instructions on back carefully before completing this form

5/23
RD 7/7/86

HSE-7 Waste Management
Ext 6095, MS J592

1. Form Number: SWD 1390

2. Date: 03/28/86

3. Retrievable Serial Number: 0203167

4. Origin of Waste: Group MST-5; TA 03; Building SM-29; Wing [redacted]; Room 1130

5. Waste Code: A610

6. Waste Description: HIGH LEVEL TYPE-3 TRU COMBUSTIBLE WASTE

7. Numbers of Waste Packages

Plastic Bags	Card-Board Boxes	Drums No.	Drums Gal.	Wooden Crates No.	Wooden Crates Volume-ft³
		1	55		

8. Gross Volume: Amount 55 0 G; Units (M = meter³, F = foot³, G = gallon) [redacted]

9. Package Radiation at

Surface (mr/hr)	1 Meter (mr/hr)
1	1

10. Gross Weight: Amount 405 K; Units (K = kilogram, P = pound, T = ton) [redacted]

11. Additional Description of Packaging and Packaging Materials: MST-5 via MST-10 A-02160 TRANSFER TAG SEQ. # 13386

12. Radionuclidic Content

Nuclide	Amount	±	Units (C = curie, M = gram)	Error on Amount	±	Amount Determined By: A = analysis, M = measurement, E = estimate	SS Materials Write-Off Account	SS Materials Write-Off Project Code
PU83		E	[redacted]		E	[redacted]		
MFP	1.0170	E -5			E	M	741	389
		E			E			
		E			E			
		E			E			
		E			E			

APPROVALS

Waste Generator (Print Name Here): W.K. GIBSON, MST-5
Signature certifies that waste is in accordance with all applicable waste acceptance requirements. (Signature) W.K. Gibson

HSE-7/10/11 Area Representative (Print Name Here): VIRGINIA [illegible]
Signature certifies that waste packages or shipment is safe to handle and transport. (Signature) [illegible] 4-21-86

Group Leader (Print Name Here): AN Seaborg

13. Date Disposed: 07/08/86

14. Disposal/Storage Location

Area	Shaft	Pit	Post(s)	Layer	Pos.
G1		P14	1ST	3	C

15. Shaft Surface Dose: mr/hr

HSE-7 Waste Management Representative (Print Name Here): ROSILA F. GARCIA
Signature certifies that waste acceptance criteria and all disposal requirements were met. (Signature) Rosila F Garcia

Form Number HS 10-2A (12/85)

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S861390

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None

☐ Other (Call TWCO)	Type	Thickness (in.)
Filter Serial No. 01		
Filter Serial No. 02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Gail Welsh	Gail M. Welsh	11/8/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Form 2177 (6/10)

11/8/11

5/7

Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

RADIOACTIVE SOLID WASTE DISPOSAL RECORD

HSE-7 Waste Management
Ext. 6095, MS J592

1. Form Number	2. Date	3. Retrievable Serial Number	4. Origin of Waste					5. Waste Code
			Group	TA	Building	Wing	Room	
SWB 2545	09/18/86	022830	MST10	55	PF4	[redacted]	432	A18

6. Waste Description

COMBUSTIBLE

7. Numbers of Waste Packages						8. Gross Volume		9. Package Radiation at	
Plastic Bags	Card-Board Boxes	Drums No.	Drums Gal.	Wooden Crates No.	Wooden Crates Volume-ft³	Amount	Units (M = meter³, F = foot³, G = gallon)	Surface (mr/hr)	1 Meter (mr/hr)
		1	55			2	[redacted]	10	1

10. Gross Weight		11. Additional Description of Packaging and Packaging Materials
Amount	Units (K = kilogram, P = pound, T = ton)	
624	[redacted]	MST 111, 112, 113 A02192

12. Radionuclide Content					Amount Determined By: A = analysis, M = measurement, E = estimate	SS Materials Write-Off	
Nuclide	Amount	±	Units (C = curie, M = gram)	Error on Amount ±		Account	Project Code
Pu 252	9.100 E	+1	[redacted]	E	M [redacted]	741	309
	E			E			
	E			E			
	E			E			
	E			E			
	E			E			

APPROVALS

Waste Generator (Print Name Here)	Waste Management Representative (Print Name Here)	Group Leader (Optional)
ELLEN G. TISINGER	F.E. SMITH	C.M. Scarborough
Signature certifies that waste acceptance criteria and all disposal requirements were met. (Signature) Ellen G. Tisinger	Signature certifies that waste package or shipment is safe to handle and transport. (Signature) [redacted] 5-6-8	

13. Date Disposed	14. Disposal/Storage Location						15. Shaft Surface Dose
	Area	Shaft	Pit	Post(s)	Layer	Pos.	mr/hr
05/13/86	G		P14	14T15	1	C	

Waste Management Representative (Print Name Here)
PAMELA F. GARCIA

Signature certifies that waste acceptance criteria and all disposal requirements were met. (Signature)
[redacted]

Form 2177

Los Alamos NATIONAL LABORATORY EST. 1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S862515

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date
Davis Christensen		

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.		Type	Thickness (in.)
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Davis Christensen		5/5/4

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

5/10/11

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Los Alamos, New Mexico 87545

RADIOACTIVE SOLID WASTE DISPOSAL RECORD

HSE-7 / Waste Management
Ext. 6096, MS J592

1. Form Number	2. Date	3. Retrievable Serial Number	4. Origin of Waste					5. Waste Code
			Group	TA	Building	Wing	Room	
S86 4195	M M D D Y Y 08 22 86	022402	MST	105	PF4	[redacted]	432	A52

6. Waste Description: NONCOMBUSTIBLE

7. Numbers of Waste Packages						8. Gross Volume		9. Package Radiation at	
Plastic Bags	Card-Board Boxes	Drums No	Drums Gal.	Wooden Crates No.	Wooden Crates Volume-ft³	Amount	(M = meter³ F = foot³ G = gallon)	Surface (mr/hr)	1 Meter (mr/hr)
		1	55			2	M [redacted]	3	1

10. Gross Weight		11. Additional Description of Packaging and Packaging Materials
Amount	(K = kilogram P = pound T = ton)	
5712	K [redacted]	MST 10, 12 A02870

12. Radionuclide Content

Nuclide	Amount	±	(C = curie M = gram)	Error on Amount	±	Amount Determined By: (A = analysis M = measurement E = estimate)	SS Materials Write-Off Account	SS Materials Write-Off Project Code
PU 52	1000	E +1	M [redacted]		E	M [redacted]	741	309
		E			E			
		E			E			
		E			E			
		E			E			
		E			E			

APPROVALS

Waste Generator (Print Name Here)	HSE-1/-10/-11 Area Representative (Print Name Here)	Additional Signature (Optional)
ELLEN G. TISINGER	Ken Corrigan	Wm Stansbury
Ellen G. Tisinger	Ken Corrigan 9-10-86	

13. Date Disposed	14. Disposal/Storage Location						15. Shaft Surface Dose
	Area	Shaft	Pit	Post(s)	Layer	Pos	mr/hr
M M D D Y Y 10 18 86	G1		PIT	19T	3	W	

HSE-7 Waste Management Representative (Print Name Here)	Received	Logbook	Computer	Verified
[redacted]	AC	[illegible]	[illegible]	[illegible]
Signature certifies that waste acceptance criteria and all disposal requirements were met (Signature) [redacted]	Date 9/16/86	Date 9/17/86	Date 10/14	Date 10/21

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S864195

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.			
	01		
	02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Gail Welsh	Gail M. Welsh	11/8/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Form 2177 (6/10)

11/8/11

Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

RADIOACTIVE SOLID WASTE DISPOSAL RECORD

1. Form Number: S|8|6| 4259

2. Date (M M D D Y Y)	3. Retrievable Serial Number	4. Origin of Waste: Group	TA	Building	Wing	Room	5. Waste Code
0 9 0 5 8 6	0 2 3 3 7 3	M S T 1 0 5 5		P F 4	[redacted]	4 3 2	A 6 1

6. Waste Description: NONCOMBUSTIBLE

7. Numbers of Waste Packages: Plastic Bags	Card-Board Boxes	Drums: No.	Drums: Gal.	Wooden Crates: No.	Wooden Crates: Volume-ft³	8. Gross Volume: Amount	(M = meter³, F = foot³, G = gallon)	9. Package Radiation at: Surface (mr/hr)	1 Meter (mr/hr)
		1	55			2	M [redacted]	~~30~~ 15	~~10~~ 2

10. Gross Weight: Amount 811 K [redacted] (K = kilogram, P = pound, T = ton)

11. Additional Description of Packaging and Packaging Materials: MST 12, 13 A02727

12. Radionuclide Content

Nuclide	Amount	±	(C = curie, M = gram)	Error on Amount	±	Amount Determined By (A = analysis, M = measurement, E = estimate)	SS Materials Write-Off: Account	Project Code
Pu 152	9700	E +1	M [redacted]		E	M [redacted]	741	309
Pu 153	6400	E +1	M		E	M	741	309
Pu 156	1100	E -1	M		E	M	741	309
		E			E			
		E			E			
		E			E			

APPROVALS

Waste Generator (Print Name Here)	HSE-1/-10/-11 Area Representative (Print Name Here)	Additional Signatures (Optional)
ELLEN G. TISINGER	R.L. Mitchell (Guillen)	Ronald W Blankenship
Ellen G. Tisinger	R.S. Mitchell (Guillen) 9-1-86	

13. Date Disposed (M M D D Y Y)	14. Disposal/Storage Location: Area	Shaft	Pit	Post(s)	Layer	Pos.	15. Shaft Surface Dose (mr/hr)
0 9 0 8 8 6	G1		P14	20T	21	C	

HSE-7 Waste Management Representative (Print Name Here)	Received	Logbook	Computer	Verified
ROSILA F. GARCIA	KC	PDS	PR	D.P.
(Signature) [signature]	Date 9/12/86	Date 9/16/86	Date 10/1	Date 10/24

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number
S864259

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint

Printed Name	Signature	Date
Davis Christensen		

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None

☐ Other (Call TWCO)	Type	Thickness (in.)
Filter Serial No. 01		
Filter Serial No. 02		

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	

Hazardous Materials

Name	EPA Code	Quantity (g)
Lead	D008	454

Date Closed (MM/DD/YY):

Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Davis Christensen		5/5/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

Form 2177 (6/10)

5/10/11

Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

RADIOACTIVE SOLID WASTE DISPOSAL RECORD

NOTE: Read instructions on back carefully before completing this form.

HSE-7 Waste Management
Ext. 6095, MS J592

1. Form Number: S 8 7 0236

2. Date: M M D D Y Y — 02/18/87

3. Retrievable Serial Number: ~~MS~~ 23 7 9 9 1

4. Origin of Waste

Group	TA	Building	Wing	Room
MST-10	55	PF-4	[redacted]	432

5. Waste Code: A52

6. Waste Description: Mod-Combustible

7. Numbers of Waste Packages

Plastic Bags	Card-Board Boxes	Drums No.	Drums Gal.	Wooden Crates No.	Wooden Crates Volume-ft³
		1	55		

8. Gross Volume

Amount	(M = meter³ F = foot³ G = gallon)
2	M

9. Package Radiation at

Surface (mr/hr)	1 Meter (mr/hr)
2	1

10. Gross Weight

Amount	(K = kilogram P = pound T = ton)
891	K

11. Additional Description of Packaging and Packaging Materials: MST-12 A03 4 9 9 1

12. Radionuclide Content

Nuclide	Amount	±	(C = curie M = gram)	Error on Amount	±	Amount Determined By: (A = analysis M = measurement E = estimate)	SS Materials Write-Off Account	SS Materials Write-Off Project Code
Pu 252	3.980 E	+0	M	E		M	741	309
	E			E				
	E			E				
	E			E				
	E			E				
	E			E				

APPROVALS

Waste Generator *(Print Name Here)*: Patricia A. Espinoza
Signature certifies that waste is in accordance with all applicable disposal requirements. *(Signature)*: Patricia A. Espinoza

HSE-1/-10/-11 Area Representative *(Print Name Here)*: VIRLINIA Guillen; JAMI MORGAN
Signature certifies that waste package or shipment is safe to handle and transport. *(Signature)*: Jami Morgan 3-2-87

Additional Signatures *(Optional)*: azm; Leon Saraniza

13. Date Disposed: M M D D Y Y — 04/14/87

14. Disposal/Storage Location

Area	Shaft	Pit	Post(s)	Layer	Pos.
G		P4	212T	A	W

15. Shaft Surface Dose (mr/hr):

HSE-7 Waste Management Representative *(Print Name Here)*: ROSILA F. GARCIA
Signature certifies that waste acceptance criteria and all disposal requirements were met. *(Signature)*: Rosila Garcia

Received	Logbook	Computer	Verified
AC	RS	TR	D.P.
Date 3-2-87	Date 3-3-87	Date 4-22	Date 4/27

Form 2177

Los Alamos NATIONAL LABORATORY EST.1943

TRU Waste Storage Record Change Form

Waste Package Serial Number S870236

Specify the waste package serial number (TWSR Serial Number) in the upper right-hand corner of the form. Include on the form, any data that has changed from the initial data supplied on the original TWSR. Submit the completed and signed TWSR Change Form to WES-WTS.

1. Generator's Pre-Use Visual Inspection

Purchase Order #	Inspected Items		
This container has been visually inspected according to approved procedures and has been found to be free of damage that would make it unsuitable for TRU waste packaging.	☐ Ring, Bolt, and Nut	☐ Chime	☐ Dents
	☐ Lid and Gasket	☐ Gouges	☐ Paint
Printed Name	Signature		Date

2. Generator's Package Information

Group	Technical Area	Building	Cost Center	Program Code	Cost Account	Work Package

Additional Information
New EPA code added based on Characterization information

☐ DP ☐ Non-DP
If Non-DP waste, attach DOE approval documentation.

Container	Liner
☐ Steel Drum (55 gal.)	☐ None
☐ Pipe Overpack Type:	☐ 90 mil liner
☐ Steel Drum (85 gal. Overpack)	☐ 125 mil liner
☐ Standard Waste Box	☐ Fiberboard liner
☐ Standard Waste Box Overpack	Internal Shielding
☐ RH Canister	☐ None
☐ Other (Call TWCO)	Type / Thickness (in.)

Filter Serial No.		Type	Thickness (in.)
	01		
	02		

Hazardous Materials		
Name	**EPA Code**	**Quantity (g)**
Lead	D008	454

Waste Profile Number	50823
Gross Weight (lb.)	
Net Weight (lb.)	
Shipping Category	
LANL Waste Stream ID	
TRUCON Code	
Date Closed (MM/DD/YY):	Accumulation Start Date (MM/DD/YY):

The data in this section were collected and waste described herein was packaged and labeled according to approved procedures.

Printed Name	Signature	Date
Gail Welsh	Gail M. Welsh	11/8/11

3. Generator Site Health Physics Information

Gamma Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Neutron Dose Rate (mrem/h) (contact)	Survey Date	Survey Meter Model	Property Number	Calibration Void Date
Total Dose Rate (mrem/h) (contact)				
Total Dose Rate (mrem/h) (1 meter)	*The data in this section were collected according to approved procedures.*			
Alpha Contamination (dpm/100cm^2)	Printed Name			Date
Beta-Gamma Cont. (dpm/100cm^2)	Signature			

11/8/11

1340

Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

RADIOACTIVE SOLID WASTE DISPOSAL RECORD

NOTE: Read instructions on back carefully before completing this form.

HSE-7 Waste Management
Ext. 6095, MS J592

1. Form Number: S 9 0 211R

2. Date: M M D D Y Y: 0 1 0 2 9 0

3. Retrievable Serial Number: 0 2 5 4 0 3

4. Origin of Waste

Group	TA	Building	Wing	Program Code
NMT-7	55	PF-4		K530

5. Waste Code: A 1 8

6. Waste Description: 55 GAL DRM WITH COMB TRASH FOR DISCARD

7. Numbers of Waste Packages

Plastic Bags	Card-Board Boxes	Drums No.	Drums Gal.	Wooden Crates No.	Wooden Crates Volume-ft³
		1	55		

8. Gross Volume: Amount 55 (M = meter³, F = foot³, G = gallon) G

9. Package Radiation at

Surface (mr/hr)	1 Meter (mr/hr)
mc2 1	0

10. Gross Weight: Amount 1 0 1 2 (K = kilogram, P = pound, T = ton) P

11. Additional Description of Packaging and Packaging Materials: B13091 ~~B11258~~ B3 MT MST-5 COMB WASTE/DISC.

12. Radionuclide Content

Nuclide	Amount	±	(C = curie, M = gram)	Error on Amount	±	Amount Determined By: (A = analysis, M = measurement, E = estimate)	SS Materials Write-Off Account	SS Materials Write-Off Project Code
PU83	1.140 E+0		M	1.580 E-1		M	741	345
	E			E				
	E			E				
	E			E				
	E			E				
	E			E				

APPROVALS

Waste Generator (Print Name Here)	HSE-1/-10/-11 Area Representative (Print Name Here)	Additional Signatures (Optional)
CLINT SCARLOTT	Michael C. Loibl	
Signature certifies that the waste is as represented here and that **ALL** applicable acceptance and disposal/storage criteria have been met. (Signature) CW Scarlott	Signature certifies that waste package or shipment is safe to handle and transport. (Signature) Michael C Loibl 3/13/90	

13. Date Disposed: M M D D Y Y: 0 6 1 3 9 0

14. Disposal/Storage Location

Area	Shaft	Pit	Post(s)	Layer	Pos.
G		P4	29T	04	W

15. Shaft Surface Dose: mr/hr

HSE-7 Waste Management Representative (Print Name Here)	Received	Logbook	Computer	Verified
LORI SCHNEIDER	AC	JD	DS	
Signature certifies that all waste receiving, handling, and disposal/storage requirements were met. (Signature) Lori Schneider	Date 4/23/90	Date 6/11/90	Date 6/29/90	Date

Form Number HS 10-2A (12/89)

Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

RSWD Form Number	Retrievable Serial Number
S 9 0 2 1 1 2	0 2 5 4 0 3

NONCERTIFIED TRU WASTE SUPPLEMENTAL DATA SHEET

I. Waste Generator's Package Information

Organic Material Weight (lb.) 3.8 E + 1 **Organic Material Volume (%)** 100

Internal Shielding Type	Thickness (in.)	Nonradioactive Hazardous Materials Name	EPA Code	Quantity (g)
☑ None				
☐ Lead	• E	NONE		• E
☐ Steel	• E			• E
☐ Concrete	• E			• E
☐ Other	• E			• E

Internal Packaging

☑ Plastic bags
Number 2
Thickness 5 ML
☐ 90-mil HDPE Liner
☐ Blocking
☐ Other

Additional Information

Fixed Alpha NDA Seal ~~#B11858~~
Lud 139-3658 #B13091
*WDR's NOT USED – OK DLB 3/22/90

The waste described herein was prepared, packaged, and documented such that it meets all of the applicable requirements of AR 10-5 of the Los Alamos **Health and Safety Manual.** *The data are correct and complete to the best of my knowledge.*

Printed Name	Signature	Date
CLINT SCARLOTT	Clint Scarlott	01-02-90

II. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose rate (mrem/h)	0.5 E + 0	Survey Meter Model RO-3C	Property No. 2685
Neutron Dose Rate (mrem/h)	0.0 E + 0	Survey Meter Model PNR-4	Property No. 5288
Total Dose Rate (mrem/h)	0.5 E + 0	*The data in this section were collected as prescribed in approved procedures.*	
Alpha contamination (dpm/100cm²)	0.0 E + 0	Printed Name Michael C. Loibl	Date 3/18/90
Beta-Gamma Cont. (dpm/100cm²)	0.0 E + 0	Signature Michael C Loibl	

III. HSE-7 AUTHORIZATION

The data package for this waste has been reviewed by HSE-7. The generator is authorized to arrange transportation to TA-54.

Printed Name	Signature	Date
BRUCE LE BRUN	Bruce Le Brun	3/22/90

IV. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose rate (mrem/h)	3.0 E + 0	Survey Meter Model RO3C	Property No. 002633
Neutron Dose Rate (mrem/h)	~~0.~~ E ~~0~~	Survey Meter Model PNR-4	Property No. 005214
Total Dose Rate (mrem/h)	3.0 E + ~~0~~	*The data in this section were collected as prescribed in approved procedures.*	
Alpha contamination (dpm/100cm²)	~~0.~~ E + ~~0~~	Printed Name RUSSELL W. JUNG	Date 5/3/90
Beta-Gamma Cont. (dpm/100cm²)	~~0.~~ E + ~~0~~	Signature Russell W. Jung RWJ	

HS Form Number 10-5B (11/88)

Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

RSWD Form Number	Retrievable Serial Number
S 9 0 2 1 1 2	0 2 5 4 0 3

NONCERTIFIED TRU WASTE SUPPLEMENTAL DATA SHEET

I. Waste Generator's Package Information

Organic Material Weight (lb.) 3.8 E + 1 | **Organic Material Volume (%)** 100

Internal Shielding		Nonradioactive Hazardous Materials		
Type	Thickness (in.)	Name	EPA Code	Quantity (g)
☒ None				
☐ Lead	• E	NONE		• E
☐ Steel	• E			• E
☐ Concrete	• E			• E
☐ Other	• E			• E

Internal Packaging	Additional Information
☒ Plastic bags	Fixed Alpha NDA Seal # B11258
Number 2	Lwd 139-3658
Thickness 5 ML	*WOOD'S NOT USED – OK DLB 3/22/90
☐ 90-mil HDPE Liner	
☐ Blocking	
☐ Other	

The waste described herein was prepared, packaged, and documented such that it meets all of the applicable requirements of AR 10-5 of the Los Alamos **Health and Safety Manual.** *The data are correct and complete to the best of my knowledge.*

Printed Name	Signature	Date
CLINT SCARLOTT	Clint Scarlott	01-02-90

II. GENERATOR SITE HEALTH PHYSICS INFORMATION

Gamma Dose rate (mrem/h) 0.5 E + 0	Survey Meter Model RO-3C	Property No. 2685	
Neutron Dose Rate (mrem/h) 0.0 E + 0	Survey Meter Model PNR-4	Property No. 5288	
Total Dose Rate (mrem/h) 0.5 E + 0	*The data in this section were collected as prescribed in approved procedures.*		
Alpha contamination (dpm/100cm²) 0.0 E + 0	Printed Name Michael C. Loibl	Date 3/10/90	
Beta-Gamma Cont. (dpm/100cm²) 0.0 E + 0	Signature Michael C Loibl		

III. HSE-7 AUTHORIZATION

The data package for this waste has been reviewed by HSE-7. The generator is authorized to arrange transportation to TA-54.

Printed Name	Signature	Date
BRUCE LE BRUN	Bruce Le Brun	3/22/90

IV. RECEIVING SITE HEALTH PHYSICS INFORMATION

Gamma Dose rate (mrem/h) • E	Survey Meter Model	Property No.	
Neutron Dose Rate (mrem/h) • E	Survey Meter Model	Property No.	
Total Dose Rate (mrem/h) • E	*The data in this section were collected as prescribed in approved procedures.*		
Alpha contamination (dpm/100cm²) • E +	Printed Name	Date	
Beta-Gamma Cont. (dpm/100cm²) • E +	Signature		

HS Form Number 10-5B (11/88)