

Los Alamos National Laboratory

Federal Facility Compliance Order

Annual Site Treatment Plan Update

*for Fiscal Year ~~2009-2010~~ – Revision 12-
Revision 1*

LA-UR-~~1011-0182701874~~

~~June 30, 2010~~October 17, 2011

Los Alamos

NATIONAL LABORATORY

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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
LASO	Los Alamos Site Office
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
NNSA	National Nuclear Security Administration
NMED	New Mexico Environment Department
NRC	Nuclear Regulatory Commission
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

**FY09-FY10 Annual Update
Site Treatment Plan
Federal Facility Compliance Order**

June 30, 2010 October 7, 2011

INTRODUCTION

On October 6, 1992, Congress passed the Federal Facility Compliance Act (FFCA) to address compliance by the ~~United States~~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 219).

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 ~~FY09~~FY10, STP-covered MLLW inventories ~~decreased~~increased from approximately ~~59.46~~ 46.161 m³ to ~~46.161~~ 46.161 m³. 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 than in previous years. Although LANL shipped a portion of the newly reclassified 10-100 nCi/g Waste in FY10, most of the FY10 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 ~~FY09~~FY10. ~~A total of 9.1286 m³ of No~~ newly generated waste became covered during ~~FY09-FY10~~ and ~~217.774675.7787~~ 217.774675.7787 m³ of covered MLLW ~~waste~~ was treated, recycled, or disposed of, or otherwise deleted, during ~~FY09~~FY10.

Appendix A provides the detailed changes to the ~~FY09-FY10~~ covered MLLW inventory by treatability group, including the inventory at Technical Area (TA) 55 and the Chemistry and Metallurgy Research Building (CMR). Appendix B (Table B-1) lists the MLLW shipments in ~~FY09~~FY10. Table B-2 identifies other deleted waste. If any, a Administrative adjustments to the MLLW inventory are shown in Appendix C (Table C-1). The MLLW inventory reported in the ~~FY08-FY09~~ Annual Update is included as Appendix D.

Table 2.1-1: FY09-FY10 MLLW Inventory Summary

Contribution	Volume (m³)¹
Estimated MLLW Inventory Reported in <u>FY08-FY09</u> Annual Update	<u>45.922258.5520²</u>
Proposed Revision <u>2021.0</u>	
New Covered Waste (<u>0.0379 m³ LA-W908; 9.0907 m³ LA-W934</u>)	<u>9.12860</u>
Administrative adjustments ³²	<u>196.0042191.3258</u>
Offsite Treatment	<u>-217.761675.7787</u>
Offsite Recycle	NA ³
Onsite Decontamination	NA
Treatability Study Use	NA
Proposed Deletion under FFCO Section V.B (Appendix B, Table B-2)	-0.0010
Estimated MLLW Inventory Reported in <u>FY08-FY09-FY10</u> Annual Update	<u>45.9222161.4693</u>

¹ MLLW volumes are calculated using the conversion: 55 gallon container = 0.2082 m³; 85 gallon container = 0.3218

² NA = No Activity

³² Includes transfers of MTRU and other wastes into MLLW categories

³ NA = No Activity

2.2 MIXED TRANSURANIC (MTRU) INVENTORY SUMMARY

During FY09-FY10, STP-covered MTRU inventories decreased from approximately 3590-3216¹ m³ to 3217-2847 m³. Table 2.2-1 summarizes changes to the estimated MTRU covered waste inventory for FY09-FY10. 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. 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.

Administrative adjustments typically represent the following types of activities:

¹ The FY09 Annual Report stated the end-of-year inventory as 3217 m³; it should have been 3216 m³.

- LANL may correct database entries so that waste items that previously were not listed as STP waste are now identified as STP waste.
- 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 ~~new~~ 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 m³) ~~may result~~ in one drum of *Combined Combustible-Noncombustible Waste* (0.2080 m³) and one drum of *Noncombustible Waste* (0.2080 m³). ~~Likewise, repacking 20 drums of *Metallic Waste* (4.1600 m³) produced 20 drums of *Combined Combustible-Noncombustible Waste* (4.1600 m³) and one drum of *Noncombustible Waste* (0.2080 m³).~~ 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 FY08-FY09 (41.3078-43.629 m ³ at CMR/TA-55 and 3172.827¹3548.5197 m ³ at TA-54)	3216.4563589.8275
New Covered MTRU Waste at TA-54	21.15032.6560²
New Covered MTRU Waste at TA-55/CMR	1.7932.5618³
Covered MTRU Waste Shipped to WIPP	-319.312-300.7085
Net Administrative Adjustments for TA-54 FY09 in FY10	-68.149107.6406
Net Administrative Adjustments for CMR/TA-55 in FY10	-4.815-0.6165
Covered MTRU Inventory aAt End of FY09FY10	2847.1233216.4557

¹ The FY09 Annual Report rounded the FY09 end-of-year TA-54 inventory to 3172.826 m³; it should have been 3172.827 m³

² Includes ~~0.4160 m³ of any~~ new covered waste transferred from TA-55 ~~and CMR to TA-54~~ in FY10⁹

³ Any new covered waste transferred to TA-54 from TA-55 and CMR is not included

3.0 TREATMENT PROGRESS

3.1 OFFSITE TREATMENT

During ~~FY09~~FY10, 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,~~ ~~and Energy Solutions in Clive, Utah.~~ ~~Perma-Fix also owns Diversified Scientific Services, Inc. (DSSI) in Kingston, Tennessee.~~

- **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 labpaks, 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, ~~solvent extraction,~~ 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 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 (~~NRC~~) regulations (State of Washington licenses WN-I00393-1 & WN-I00508-1) and permitted under RCRA regulations through the State of Washington. The facility can perform thermal treatment, compaction, macroencapsulation, neutralization, and stabilization.

- ~~EnergySolutions~~

~~EnergySolutions (formerly Envirocare), located in Clive, Utah, is a RCRA facility that is licensed by the State of Utah and the EPA to receive, possess, use, treat, and dispose of mixed radioactive materials. EnergySolutions has a mixed waste treatment facility that incorporates treatment technologies designed to reduce the toxicity of waste materials prior to disposal. Current mixed waste treatment technologies used at EnergySolutions include stabilization, deactivation, neutralization, reduction/oxidation, chemical fixation, and polymer encapsulation. Disposal of the treated residue at EnergySolutions occurs after verification that the material meets applicable treatment standards.~~

Appendix B summarizes LANL's offsite shipments for treatment and/or disposal of covered MLLW in ~~FY09FY10~~. Approximately 21876 m³ of STP-covered MLLW ~~STP-covered waste~~ was shipped offsite for treatment and/or disposal.

3.2 OFFSITE RECYCLING

LANL did not recycle MLLW offsite in ~~FY09FY10~~.

3.3 ONSITE TREATMENT AND RECYCLING

LANL did not treat or recycle MLLW onsite in ~~FY09FY10~~.

3.4 ONSITE LEAD DECONTAMINATION

No LANL STP-covered MLLW was decontaminated onsite during ~~FY09FY10~~.

3.5 TREATABILITY STUDIES

LANL conducted no treatability studies in ~~FY09FY10~~.

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 ([Appendix C, G](#)). [The other major adjustment was the addition of containers of accumulated WIPP-prohibited items removed from MTRU STP inventory during repacking. These items were added to LA-W917 \(Compressed Gases Requiring Scrubbing\).](#)

3.6.2 Adjustments to MTRU Inventory

During the preparation of the [FY09-FY10](#) 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](#) ~~to MTRU waste~~. 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](#).

~~3.7 OTHER TYPES OF MIXED WASTE ACTIVITIES~~

~~One MLLW item (LA-W934) with a volume of 0.0100 m³ was sent for local analysis. The analysis expended the waste. This item is shown in Part II, Section 6.2, and in Appendix B, Table B-2.~~

4.0 TREATMENT TECHNOLOGY DEVELOPMENT

During [FY09FY10](#), 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 ~~FY09-FY10~~ 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 FY09 for shipment of mixed waste offsite for treatment and disposal at DOE and commercial facilities. Funding during ~~FY10-FY11~~ is also sufficient to meet all ~~FY10~~-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 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 is planned to be treated and disposed of before the end of FY13 if treatment/disposal capability and capacity is 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, 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 ~~FY09~~**FY10**.

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, 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 FY09-FY10;
 - 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 FY09

During FY09-FY10, DOE and LANS completed CP Activities on or before their required Compliance Dates as described in Table 2.1-1.

TABLE 2.1-1. FY09-FY10 FFCO AND STP MILESTONES

STP or FFCO	STP/FFCO Reference	Title/Text	Treatability Group	Compliance Date	Reference
STP	<u>3.1.8 (A)</u> <u>3.1.4(A)</u>	Complete shipping of existing waste to an offsite treatment facility or complete parallel option	LA-W9179	<u>9/30/2009</u> <u>12/31/2010</u>	ENV- <u>RRQES-0910-074214</u>
STP	<u>3.1.9 (A)</u>	<u>Complete shipping of existing waste to an offsite treatment facility or complete parallel option</u>	LA-W918	<u>12/31/2008</u>	ENV- <u>RRO-09-174</u>

2.2 Expedited Shipment Letters

LANL ~~did not request any expedited shipments during FY10 (Appendix I, Table I-1).~~ requested expedited shipment of *Nonhalogenated Organic Liquids (LA-W908)* waste items that would be included in Revision 20 of the STP in a letter dated April 23, 2009 (ENV RRO 09-028).

2.3 Correspondence

Between October 1, ~~2008~~2009, and March 31, ~~2010~~2011, LANL communicated with NMED on issues related to

- Revisions ~~19 and 20~~ 18 and 19 of the Annual STP Update, and
- ~~Correspondence with NMED for previous FYs,~~
- ~~FY09-FY10~~ waste shipments, and
- ~~Proposed changes to Revision 20 of the Annual STP Update.~~

This correspondence is listed in Appendix I (Table I-42). Correspondence previously listed in ~~Part II~~ Appendix I, Table ~~2-1-BI-2~~ of Revision ~~19-20~~ 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 ~~2021.0~~ in accordance with FFCO Section IX, *Deletion of Waste*. These deletions are proposed because the waste was shipped offsite for treatment, disposal, or ~~recycling~~ recycling or were otherwise determined not to be mixed wastes. ~~In addition, one item was sent for analysis and was expended in the analysis.~~ These covered ~~covered~~ wastes are included in Appendix B (~~Tables B-1 and B-2~~), 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 ~~FY08-FY09~~ and were proposed to become covered wastes in ~~FY09-FY10~~. These covered wastes are included in Appendix ~~AE~~. ~~LANL is not requesting an extension of milestones to treat and dispose of this new covered waste.~~ Additional waste to be added to the STP is identified in ~~Part II~~, Section 6.1.

5.0 PROPOSED CHANGES TO THE COMPLIANCE PLAN SCHEDULE

~~LANL is requesting an extension of a CP milestone in the STP for High Activity Waste (LA-W934). Activity 3.2(J) requires that LANL “complete shipping of wastes to an offsite treatment facility, or submit documentation assigning waste items to applicable treatability groups or complete parallel option.” High Activity Waste is described in Section 3.2 of the CP (Mixed Waste Requiring Further Characterization or for which Technology Assessment Has Not Been Done).~~
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 ~~December 31, 2015~~ June 30, 2014.

I. Compliance Dates and Waste Description

Current approved compliance date: December 31, 2010

Proposed Revision 20 compliance date: December 31, 2013

LA-W917: These wastes ~~are generally heterogeneous and~~ 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: ~~December 31, 2015~~ June 30, 2014

The *High Activity Waste* items in LANL's inventory as of September 30, 2009, are identified in Table 5-1.

Table 5-1: High Activity Waste in LANL's MLLW Inventory with Associated EPA Codes

<u>Container Number</u>	<u>Description</u>	<u>Associated EPA Codes</u>	<u>Volume (m³)</u>
<u>C08199082</u>	<u>Lead-lined glovebox</u>	<u>D008</u>	<u>4.9843</u>
<u>C08199080</u>	<u>Lead-lined glovebox</u>	<u>D008</u>	<u>4.1064</u>
<u>C05179323</u>	<u>Lead-lined glovebox</u>	<u>D008</u>	<u>19.3900</u>
<u>C00130818</u>	<u>Tritium traps with mercury contamination and unknown radioactivity</u>	<u>D009</u>	<u>0.0125</u>
<u>C00130819</u>	<u>Tritium traps with mercury contamination and unknown radioactivity</u>	<u>D009</u>	<u>0.0100</u>
<u>C00130820</u>	<u>Tritiated squib assemblies with unknown radioactivity</u>	<u>D008</u>	<u>0.0010</u>
<u>C00130821</u>	<u>Tritiated squib assemblies with unknown radioactivity</u>	<u>D008</u>	<u>0.0010</u>
<u>C01136479</u>	<u>Portsmouth debris</u>	<u>D004, D007, D008</u>	<u>0.2082</u>
<u>C01136480</u>	<u>Portsmouth debris</u>	<u>D004, D007, D008</u>	<u>0.2082</u>
<u>C05180336</u>	<u>Portsmouth debris</u>	<u>D007, D008</u>	<u>0.2082</u>
<u>C06186549</u>	<u>High tritium with reactive lithium</u>	<u>D001, D003</u>	<u>0.1136</u>
<u>C06186550</u>	<u>High tritium with reactive lithium</u>	<u>D001, D003</u>	<u>0.1136</u>
<u>C07190323</u>	<u>Sludges from MTRU program</u>	<u>D009, F001, F002</u>	<u>0.8496</u>

Container Number	Description	Associated EPA Codes	Volume (m³)
C09203611	Mole sieves and squib assemblies with very high tritium	D008	0.3215
C09203612	Mole sieves and squib assemblies with very high tritium	D008	0.3215
C09203613	Mole sieves and squib assemblies with very high tritium	D008	0.3215
C09203614	Mole sieves and squib assemblies with very high tritium	D008	0.3215

II. Treatment Process

The preferred treatment processes for the *High Activity Waste* items **LA-W917**: The preferred treatment process is shipment offsite for treatment to meet LDRs. These wastes ~~are generally heterogeneous and~~ 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. ~~include sorting and segregation, macroencapsulation, amalgamation, reaction and stabilization at commercial facilities to meet LDR.~~

III. Availability of Commercial Facilities

LANL ~~contacted~~ uses the facilities identified in Appendix H ~~to determine if those facilities would accept these High Activity Waste items (Table 5-2) for treatment and disposal of MLLW. No additional facilities are needed to treat the current inventory of Compressed Gases (LA-W917). Commercial treatment facilities are available for most, but not all, of the waste items listed in Table 5-1. Perma-Fix was the only positive respondent to LANL's request for bids and treatment options for these wastes. The Perma-Fix facilities are the only commercial facilities that have the current capability to treat and dispose of LANL's High Activity Waste.~~

Table 5-2. Commercial Facilities Contacted

Commercial Facility	Location	Comments	Results
Perma-Fix	Florida		Unwilling or unable to get the necessary exceptions or changes to their RCRA Permit or NRC license.
M&EC (a Perma-Fix facility)	Tennessee	Now owned by Perma-Fix	Responded with bids and timeframes, dependant on facility upgrades and changes to their Authorization Basis; existing commitments prevent

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Commercial Facility	Location	Comments	Results
			M&EC from accepting this waste until they have completed their existing commitments.
DSSI (a Perma-Fix facility)	Tennessee	Now owned by Perma-Fix	Unwilling or unable to get the necessary exceptions or changes to their RCRA Permit or NRC license.
Perma-Fix Northwest	Washington	Now owned by Perma-Fix	Unwilling or unable to get the necessary exceptions or changes to their RCRA Permit or NRC license.
Waste Control Specialists	Texas		Unwilling or unable to get the necessary exceptions or changes to their RCRA Permit or NRC license.
EnergySolutions of Utah	Utah		Unwilling or unable to get the necessary exceptions or changes to their RCRA Permit or NRC license.
Bear Creek Operations	Tennessee	Now owned by EnergySolutions	Not able to accept Class C waste; unwilling or unable to get the necessary exceptions or changes to their RCRA Permit or NRC license.
Nuclear Fuel Services	Tennessee		Unwilling or unable to get the necessary exceptions or changes to their RCRA Permit or NRC license.
Integrated Environmental Services	Tennessee		Unwilling or unable to get the necessary exceptions or changes to their RCRA Permit or NRC license.
NNSI	Texas		Unwilling or unable to get the necessary exceptions or changes to their RCRA Permit or NRC license.

IV. Justification for Milestone

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.

IV. — Justification for Extension of Activity 3.2(J)

~~Three items (C01136479, C01136480, and C05180336) cannot be treated until the appropriate Perma-Fix facility has sufficient capacity to accept those items. Perma-Fix representatives have stated that, due to current Authorization Basis limitations, the facility is not likely to be able to accept those items before 2012.~~

~~Due to discrepancies in the documentation associated with several of the waste containers, LANL must provide additional characterization data in order to meet Perma-Fix's acceptance criteria and to ensure proper shipping according to U.S. Department of Transportation standards. LANL intends to perform additional characterization of the waste in four containers (C09203611, C09203612, C09203613, C09203614) at the Weapons Engineering Tritium Facility at TA-16, where the waste was generated. Although TA-16 is not currently authorized or operational to perform the characterization, it already possesses the engineering controls needed to handle tritium waste.~~

~~Before TA-16 can accept the waste, it must update its Authorization Basis to ensure that the engineering and administrative controls are appropriate for the kinds of hazards present in the waste. The process for updating the safety basis includes a phased approach of testing the capabilities of the facility for handling the waste. The safety basis is then customized for the unique characteristics of the waste that would be characterized and repackaged. At least eight months will be required for an approved Authorization~~

~~Basis change to allow the facility to repackage and characterize these waste containers. Once the Authorization Basis is in place, LANL must arrange the transport of each container to the characterization facility in such a way that it is not removed from a permitted treatment/storage/disposal facility for more than one day (24-hour period).~~

~~TA-16 already possesses the calorimetry capability that is needed to analyze high levels of tritium that may be present, as well as the gloveboxes to protect workers, and the monitored stack to measure any tritium emissions. TA-54 lacks the calorimetry capability, the engineering controls, and the monitored stack needed for tritium work. Although TA-54 could be modified to perform the characterization, it would take considerably longer to purchase, fabricate, install, and obtain the Authorization Basis to operate the necessary capability than it would to perform the work at TA-16.~~

~~LANL intends to perform additional characterization of four waste containers (C00130818, C00130819, C00130820, C00130821) at TA-16 (or at TA-54 or another LANL facility if they can be authorized to conduct the work in a timely fashion). The additional Authorization Basis to accept the remaining containers at TA-16 or another LANL facility may not occur until the year 2013 due to the phased approach to establish the engineering and administrative controls for the Authorization Basis discussed above.~~

~~Perma-Fix expects the appropriate characterization to be completed before any arrangements are made to transport this waste. If the additional characterization demonstrates that tritium levels are significantly different from the current information, LANL may review the disposal options to determine if the waste may be treated, stored, or disposed of at another commercial facility.~~

~~LANL proposes to manage the remaining *High Activity Waste* in order to eliminate the onsite STP inventory of the *High Activity Waste* by end of 2013. First, LANL plans to characterize and repack certain containers of *High Activity Waste* in order to confirm that the most appropriate offsite treatment and disposal alternatives have been selected. The process required to characterize the waste will delay shipment until 2013. Second, LANL will continue to ship *High Activity Waste* offsite according to the schedule in Figure 5-1. Shipment of the remaining waste is contingent upon the Perma-Fix facility and the LANL facility having the appropriate Authorization Basis or new capabilities becoming available at other facilities.~~

~~LANL requests an extension of the milestone for shipment of the *High Activity Waste* items until December 31, 2013. Although many of the remaining items can be shipped offsite once they are more accurately characterized in 2010, 2011, and 2012, the currently permitted facilities may not have the capacity to accept the final waste until 2013 due to facility license limitations on inventory. Until that capacity is available, the only option is continued onsite storage of the waste.~~

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

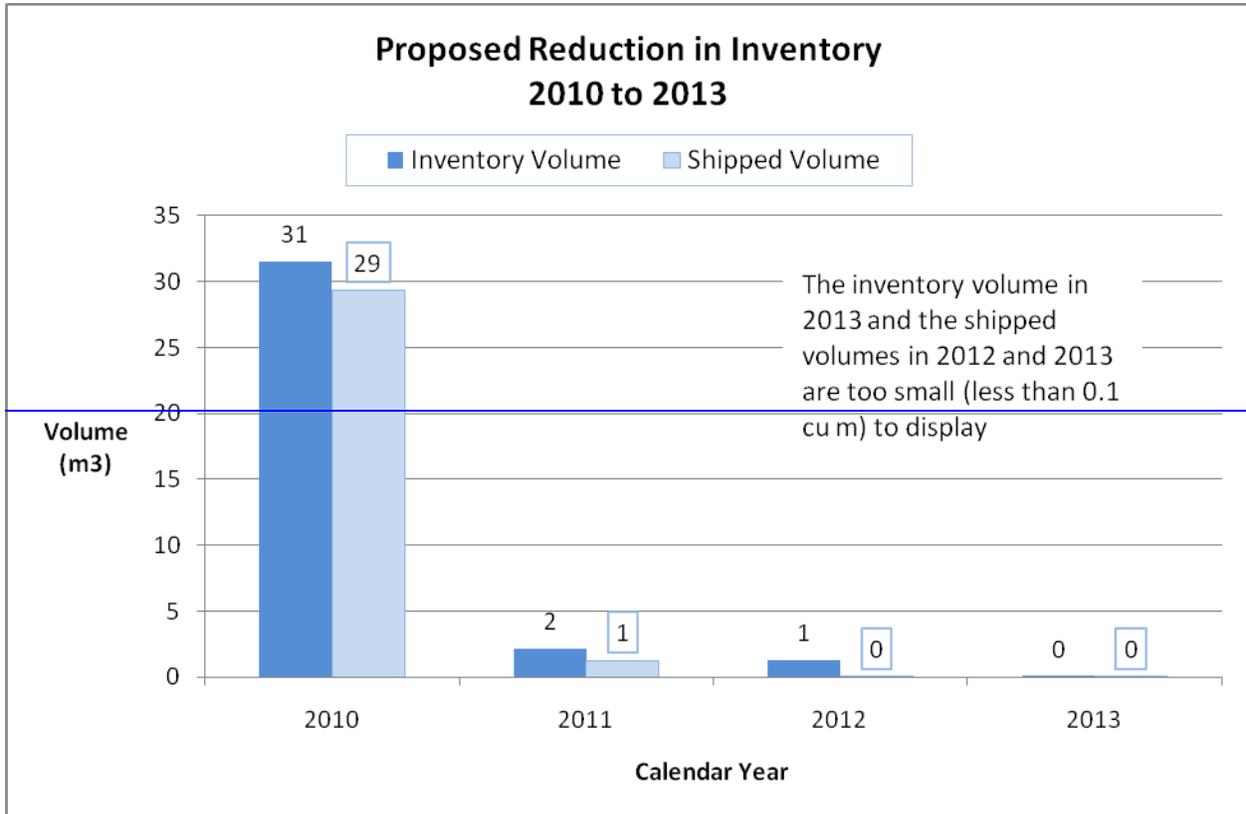


Figure 5-1: Proposed schedule for LA-W934 inventory reduction.

6.0 DETAILED DESCRIPTION OF THE PROPOSED REVISION

The purpose of this revision request is to reflect changes in the [MLLW-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/~~strikeout~~ version provided to NMED.

LANL is proposing to revise the CP text to reflect the following changes in STP-covered [MLLW](#) inventories:

- Increases and decreases in covered mixed waste inventories due to the addition of new covered waste and offsite shipments during ~~FY09-FY10~~ and other changes in the STP inventory; and
- ~~Extension Establishment of the new~~ Compliance Dates for one mixed waste treatability group (LA-W934 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 Waste Additions~~

The ~~total~~ volume of ~~covered MLLW waste~~ that is requested for addition is ~~9.2422 m³ (9.1286 m³ of new covered waste [Table 6.1.1-1] and 0.11364.1640 m³ of newly identified-categorized MLLW (LA-W917) [Table C-1])~~ and 46.6194 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)
3.1.11	LA-W908	Nonhalogenated Organic Liquids	0.0379
3.2	LA-W934	High Activity Waste	9.0907
Total			9.1286

6.1.2 ~~Mixed Transuranic (MTRU) Waste Additions~~

The ~~total~~ volume of new covered MTRU waste that is requested for addition is ~~35.2178-22.943 m³~~ (Table 6.1.2-1). LANL also requests addition of 64.896 m³ of Combustible-Noncombustible Waste and 4.576 m³ of Noncombustible Waste that was previously managed in the TRU inventory (Appendix G, Table G-1).

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

<u>CP Section</u>	<u>Treatability Group</u>	<u>Volume (m3)</u>
<u>4.0</u>	<u><i>Combined Combustible-Noncombustible Waste</i></u>	<u>19.1641</u>
<u>4.0</u>	<u><i>Combustible Waste</i></u>	<u>0.322</u>
<u>4.0</u>	<u><i>Solidified Inorganic and Organic Waste</i></u>	<u>1.664</u>
	<u><i>Total TA-54 New Covered</i></u>	<u>21.150</u>
<u>4.0</u>	<u><i>Combined Combustible-Noncombustible Waste at CMR</i></u>	<u>0.416</u>
<u>4.0</u>	<u><i>Combined Combustible-Noncombustible Waste at TA-54</i></u>	<u>0.567</u>
<u>4.0</u>	<u><i>Noncombustible Waste at TA-54</i></u>	<u>0.810</u>
	<u><i>Total CMR and TA-55 New Covered</i></u>	<u>1.793</u>
	<u><i>Total New Covered Waste</i></u>	<u>22.943</u>
<u>CP Section</u>	<u>Treatability Group</u>	<u>Volume (m³)</u>
4.0	<i>Combined Combustible-Noncombustible Waste</i>	25.7920 ¹
4.0	<i>Metallic Waste</i>	2.5618 ²
4.0	<i>Solidified Inorganic and Organic Waste</i>	6.8640 ¹
	<i>Total</i>	35.2178

¹ Includes new covered wastes from ~~TA-55~~CMR that were transferred to TA-54

² ~~New covered wastes at TA-55~~

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 ~~Waste~~

LANL is requesting that covered MLLW ~~waste~~ identified in Appendix B be deleted from the STP. These covered wastes were ~~either~~ shipped offsite for treatment and disposal or recycling, ~~or in one case, were expended during analysis.~~ The total volume of covered MLLW ~~waste~~ that is requested for deletion under this Revision to the CP is ~~247.774~~775.7787 m³ (Appendix B, Tables B-1 ~~and B-2~~).

6.2.2 Deletion of MTRU Waste

LANL is requesting that a total of ~~300.7085~~319.312-m³ 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 m³ of STP-covered MTRU waste that was characterized as non-mixed waste after removal of WIPP-prohibited items (Appendix G, Table G-1).

6.2.3 Other Deletions of ~~FY09-FY10~~ Waste

No waste is proposed for deletion due to recycling or onsite treatment in ~~FY09~~FY10. No waste was shipped offsite for treatability studies.

6.3 Adjustments to the Original (October 4, 1995) STP-Covered MLLW ~~STP-Covered Waste~~ 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 Extension Establishment of New Milestone Activity Dates

~~Because treatment options are not available for all remaining waste in the LA-W934 waste stream,~~ LANL is requesting extensions of the new compliance milestones for newly recharacterized LA-W917 waste these wastes (Table 6.5-1) as discussed in Part II, Section 5.0.

Table 6.5-1: Proposed ~~Extensions of~~ Milestone Activity Compliance Dates

Milestone Activity	Treatability Group	Revision 19 <u>20</u> Compliance Date	Proposed Extended Compliance Date	Rationale For Proposed Extension
3.2(J)	LA-W934 High Activity Waste	12/31/2010	12/31/2013	An extension of this compliance date is requested because there is no path forward at this time for some of this waste stream and because LANL must more fully characterize some of the waste to confirm.
<u>3.1.8(A)</u>	<u>LA-W917 Compressed Gases Requiring Scrubbing</u>	<u>none</u>	<u>12/31/2015/30/2014</u>	<u>LANL will schedule shipment as part of routine waste shipment.</u>

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 ~~Extension Establishment of New~~ Proposed Milestones

LANL is requesting ~~an extension a~~ new of the milestone for the ~~LA-W934-LA-W917~~ waste streams ~~since there is no current milestone for shipping this waste offsite, due to the lack of treatment facilities that could treat and dispose of these wastes and the need to further characterize some of the waste. Section 5.0 of Part II contains a detailed justification for the extension.~~

7.2 Addition of New Covered Waste

Waste that was newly generated in ~~FY08~~FY09, which was not treated within 12 months of generation, became new covered waste during ~~FY09-FY10~~ (see ~~Appendices Appendix A and 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 ~~FY09FY10, and the analysis of one MLLW item, which was expended during analysis.~~ Deletion of this covered waste is proposed in order to more accurately reflect the LANL STP inventory as of the end of ~~FY09FY10~~.

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 ~~FY109~~.

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 210

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.

~~Compliance dates for the activities identified in Table 2.1.2-1 may be found in Part III, Section 3.1.~~

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 forty-five (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) 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 ~~prior to shipment~~ should DOE ship ~~mixed low level waste (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) 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) 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 a 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 which 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 ~~regulatory~~, federal ~~regulatory~~, 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 ~~forty-five~~45 days, in place of documentation, that waste was received at a recycling facility.

Table 2.6-1: Requirements for Recycling

- | |
|---|
| <p>A. Meet all regulatory requirements for recycling/re-use.
A.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.</p> |
|---|

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 2.6₂ ~~(Recycling/Re-Use₂)~~ or be proposed for deletion in accordance with Section IX₂ ~~(Deletion of Waste₂)~~ 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

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- 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 ~~this~~ 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)
<i>Lead Blankets</i>	LA-W903	D007, D008	0.00
<i>Soil With Heavy Metals</i>	LA-W904	D004, D005, D006, D007, D008, D009, D010, D011	0.00
<i>ER Soils</i>	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)
<i>Aqueous Organic Liquids</i>	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)
<i>Aqueous Organic Liquids</i>	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	0.000-2082 [†]
Totals			0-20820.00

[†]This waste was previously covered MTRU waste in the CMR/TA 55 Inventory; it was reclassified as MLLW.

Table 3.1.4-3: Activities and Compliance Dates for Organic-Contaminated Solids

Activity	Compliance Dates
A. Complete shipping of existing wastes to an offsite treatment facility or complete parallel option	12/31/10
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

3.1.5 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

<i>Activated Or Inseparable Lead</i>	LA-W921	D008	0.00
<i>Noncombustible Debris</i>	LA-W922 LA-W922-17	D001, D002, D004, D005, D006, D007, D008, D009, D010, D011	0.00 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)
<i>Aqueous Wastes With Heavy Metals</i>	LA-W913	D001, D002, D003, D004, D005, D006, D007, D008, D009, D010, D011	0.00
<i>Corrosive Solutions</i>	LA-W914	D001, D002	0.00
<i>Aqueous Cyanides, Nitrates, Chromates, And Arsenates</i>	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)
<i>Water-Reactive Wastes</i> 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)
<i>Compressed Gases Requiring Scrubbing</i>	LA-W917 LA-W917-21	D001, D002, D003, D008, D009, P056	0.004 1.640

Totals			<u>0.00004,1640</u>
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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 off-site treatment facility or complete parallel option	Completed 9/30/09 <u>12/31/2015</u> <u>6/30/2014</u>
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 Requiring Oxidation

Treatability group	MWIR waste ID	RCRA codes	Net volume (m ³)
<i>Compressed Gases Requiring Oxidation</i>	LA-W918	D001, U226	0.00
Totals			0.00

~~**Table 3.1.9-2: Activities and Compliance Dates for Compressed Gases Requiring Oxidation**~~

Activity	Compliance Dates
A. Complete shipping of existing wastes to an offsite treatment facility or complete parallel option	Completed 9/30/09
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

3.1.10 Elemental Mercury

Table 3.1.10-1: Treatability Groups for Elemental Mercury

Treatability group	MWIR waste ID	RCRA codes	Net volume (m ³)
<i>Elemental Mercury</i>	LA-W920 LA-W920-16	D006, D009, F005	0.00 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, Liquid and Solid Oxidizers

Treatability Group	MWIR waste ID	RCRA codes	Net volume (m ³)
<i>Halogenated Organic Liquids</i>	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
<i>Nonhalogenated Organic Liquids</i>	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
<i>Bulk Oils</i>	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
<i>PCB Wastes With RCRA Components</i>	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

Table 3.1.11-2: Additional Treatability Groups

Treatability group	MWIR waste ID	RCRA codes	Net volume (m ³)
<i>Liquid And Solid</i>	LA-W923	D001, D003, D005	0.00

Oxidizers			
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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

Table 3.2-2: Additional Wastes Requiring Characterization or Assessment

Treatability Group	MWIR Waste ID	RCRA Codes	Net Volume (m3)
Lead Wastes - TBD	LA-W924-15	D003, D008	0.00
	LA-W924-16		0.00
	LA-W924-17		0.00
Mercury Wastes – TBD	LA-W925-4	D003, D007, D008, D009 F001, F002, F005	0.00
	LA-W925-5		
	LA-W925-6		
	LA-W925-15		
	LA-W925-16		
	LA-W925-17		
Explosives	LA-W932	D003	0.00
Labpacks	LA-W933	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
	LA-W933-17		
High Activity Waste	LA-W934	D001, D003, D008, D009	31.50122.1709
	LA-W934-16		
	LA-W934-19		

	LA-W934-20		
Totals			<u>31.50122.1709</u>

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

Activity	Compliance Dates
G. Complete sampling and analysis plan	1/30/99
H. Complete sampling and analysis	9/30/01
I. Complete determination of treatment options	12/20/01
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

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

Treatability group	MWIR waste ID	First Category	Second Category	Totals
		Net volume (m ³)	Net volume (m ³)	Net volume (m ³)
<i>Lead For Surface Decontamination</i>	LA-W930-0	0.00	0.00	0.00
	LA-W930-5			
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

Treatability group	MWIR waste ID	First Category	Second Category	Totals
		Net volume (m ³)	Net volume (m ³)	Net volume (m ³)
<i>Lead For Surface Decontamination</i>	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)
<i>Nonradioactive Or Suspect Waste Items To Be Surveyed</i>	LA-W929-0(1)	0.00
<i>Nonradioactive Or Suspect Waste Items To Receive RCRA And Radiological Characterization</i>	LA-W929-0(2)	0.00
<i>Nonradioactive Or Suspect Waste Items That Cannot Or Should Not Be Sampled</i>	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)
<i>Nonradioactive Or Suspect Waste Items</i>	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 (m ³)
Lead Requiring Sorting	LA-W931	D008	-0.00
Totals			-0.00

Treatment:

Wastes in this treatability group ~~are generally heterogeneous and~~ 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 3.3.4-2: 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	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	14.2128 155.1344
Totals			14.2128 155.1344

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. Central Characterization Project (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 3.3.4-3: 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

3.4 Management of "Missing" Items

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

Category	MWIR waste ID	Net volume (m ³)
<i>Missing/Nonexistent/TBV</i>	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 will verify the absence of all "*Missing/nonexistent/TBV*" items container-by-container, as each STP waste item is being sampled, repackaged, or otherwise prepared for on- or offsite treatment. The final verification of all "*Missing/nonexistent/TBV*" items will be completed by April 21, 2004, at which time all remaining MLLW items in the original STP inventory will have been treated. At that time, LANL will request deletion of all missing or nonexistent items from the STP.

At any time during the re-verification process, should any of these items be discovered to exist, NMED will be notified, and approval will be requested for assignment of the rediscovered items to the appropriate treatability group. If necessary, they will 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 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 Table A-1: FY09-FY10 MLLW Inventory¹ Detailed Update by Treatability Group

CP* Sec.	MWIR* Waste ID and Treatability Group/Category	FY08FY09 Annual Update (m ³) ¹	Proposed Revision <u>2021.0</u> (m ³)	Comments ²	FY09-FY10 Annual Update (m ³)	Projection FY101-FY145 (m ³)
3.1.1	LA-W901 <i>IPA Wastes</i>	0	0		0	0
3.1.1	LA-W902 <i>Scintillation Fluids</i>	0	0		0	0
3.1.2	LA-W903 <i>Lead Blankets</i>	0	0		0	0
3.1.2	LA-W904 <i>Soil with Heavy Metals</i>	0	0		0	0
3.1.2	LA-W905 <i>ER Soils</i>	0	0		0	0
3.1.3	LA-W906 <i>Aqueous Organic Liquids</i>	0	0		0	0
3.1.4	LA-W911 <i>Organic-Contaminated Combustible Solids</i>	0	<u>0.11360</u>	<i>Administrative Adjustment - reclassified from LLW inventory</i>	0	0
			<u>-0.1136</u>	<i>Shipped offsite for treatment/disposal</i>		
3.1.4	LA-W919 <i>Organic-Contaminated Noncombustible Solids</i>	0.2082	<u>-0.20820</u>	<i>Shipped offsite for treatment/disposal</i>	<u>0.20820</u>	0
3.1.5	LA-W912 <i>Combustible Debris</i>	0	0		0	0
3.1.5	LA-W921 <i>Activated or Inseparable Lead</i>	0	0		0	0
3.1.5	LA-W922 <i>Noncombustible Debris</i>	0	<u>00</u>		<u>00</u>	<u>01.3000</u>
3.1.6	LA-W913 <i>Aqueous Wastes with Heavy Metals</i>	0	0		0	0
3.1.6	LA-W914 <i>Corrosive Solutions</i>	0	0		0	0

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CP* Sec.	MWIR* Waste ID and Treatability Group/Category	<u>FY08FY09</u> Annual Update (m ³) ¹	Proposed Revision <u>2021.0</u> (m ³)	Comments ²	<u>FY09-FY10</u> Annual Update (m ³)	Projection <u>FY101-FY145</u> (m ³)
3.1.6	LA-W915 <i>Aqueous Cyanides, Nitrates, Chromates, and Arsenates</i>	0	0		0	0
3.1.7	LA-W916 <i>Water-Reactive Wastes</i>	0	0		0	<u>0</u>
3.1.8	LA-W917 <i>Compressed Gases Requiring Scrubbing</i>	<u>0.00890</u>	<u>-0.00804.1640</u>	Shipped offsite for treatment/disposal <u>Administrative Adjustment</u> (prohibited items from MTRU STP inventory ⁴ added from MTRU inventory)	<u>04.1640</u>	0
3.1.9	LA-W918 <i>Compressed Gases Requiring Oxidation</i>	<u>0.06020</u>	<u>-0.06020</u>	Shipped offsite for treatment/disposal	0	0
3.1.10	LA-W920 <i>Elemental Mercury</i>	0	0		0	
3.1.11	LA-W907 <i>Halogenated Organic Liquids</i>	0	0		0	0
3.1.11	LA-W908 <i>Nonhalogenated Organic Liquids</i>	0	<u>0.03790</u>	New Covered ²	0	0
		<u>0</u>	<u>-0.0379</u>	Shipped offsite for treatment/disposal	<u>0</u>	<u>0</u>
3.1.11	LA-W909 <i>Bulk Oils</i>	0	0		0	0
3.1.11	LA-W910 <i>Polychlorinated Biphenyl (PCB) Wastes with Resource Conservation and Recovery Act (RCRA) Components</i>	0	0		0	<u>0</u>
3.1.11	LA-W923 <i>Liquid and Solid Oxidizers</i>	0	0		0	0
3.2	LA-W924 <i>Lead Wastes – TBD</i>	0	0		0	<u>0</u>
3.2	LA-W925 <i>Mercury Wastes – TBD</i>	<u>0.47320</u>	<u>-0.37870</u>	Shipped offsite for treatment/disposal	0	0
			<u>-0.0945</u>	<u>Administrative Adjustment</u>		

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CP* Sec.	MWIR* Waste ID and Treatability Group/Category	<u>FY08FY09</u> Annual Update (m ³) ¹	Proposed Revision <u>2021.0</u> (m ³)	Comments ²	<u>FY09-FY10</u> Annual Update (m ³)	Projection <u>FY101-FY145</u> (m ³)
3.2	LA-W926 <i>Compressed Gases – TBD</i>	0	0		0	0
3.2	LA-W927 <i>Biochemical Laboratory Wastes</i>	0	0		0	0
3.2	LA-W928 <i>Dewatered Treatment Sludge</i>	0	0		0	0
3.2	LA-W932 <i>Explosives</i>	0	0		0	<u>0</u>
3.2	LA-W933 <i>Lab Packs</i> <i>Labpacks</i>	0	0		0	0
3.2	LA-W934 <i>High Activity Waste</i> ³	<u>43.436631.5012</u>	<u>-0.2082-29.3303</u>	Administrative Adjustment Shipped offsite for treatment/disposal	<u>31.50122.1709</u>	0.1000
			<u>9.0907</u>	New Covered ²		
			<u>-20.8169</u>	Shipped offsite for treatment/disposal		
			<u>-0.0010</u>	Analyzed and expended in analysis		
3.3.1	LA-W930 <i>Lead for Surface Decontamination</i>	0	0		0	0
3.3.2	LA-W929 <i>Nonradioactive or Suspect Waste Items to be Surveyed</i>	0	0		0	0
3.3.3	LA-W931 <i>Lead Requiring Sorting</i>	0	0		0	0
3.3.4	LA-W935 <i>10-100 nCi/g Waste</i> ³	<u>14.365814.2128</u>	<u>196.1933187.1618</u>	Administrative Adjustment	<u>14.2128155.1344</u>	<u>625460.0000</u> ³⁴
			<u>-196.3463-46.2402</u>	Shipped offsite for treatment/disposal		
3.4	<i>Missing/ nonexistent/ TBV category</i>	0	0		0	N/A
	TOTALS	<u>58.552045.9222</u>			<u>161.469345.9222</u>	

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

¹ MLLW waste volumes are calculated using the conversion: 55-gallon container = 0.2082 m³; 85-gallon container = 0.32158 m³

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

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² New covered waste is mixed waste that was newly generated in the previous FY and became subject to the STP in the current FY.

^{2,3} 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.

³ Shipment details are in Appendix B; Administrative adjustments are in Appendix C.

⁴ LANL anticipates that a large volume of formerly TRU and MTRU waste will be retrieved beginning in FY10 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 mixed-STP mixed waste.

APPENDIX B. CURRENT YEAR MLLW SHIPMENT DETAIL

Table B-1. MLLW Shipped Offsite for Treatment and Disposal in FY09FY10

<u>CP Section</u>	<u>MWIR No.</u>	<u>Treatability Group</u>	<u>Manifest Number</u>	<u>Destination</u>	<u>Date Shipped</u>	<u>Date NMED Notified</u>	<u>Volume (m3)</u>
3.1.4	LA-W919	<i>Organic-Contaminated Combustible Solids</i>	000369350JJK	Perma-Fix/FL	9/20/2010	(ENV-ES-10-214)	0.2082
<u>LA-W919 Total</u>							<u>0.2082</u>
3.2	LA-W934	<i>High Activity Waste</i>	000366428JJK	Perma-Fix/M&EC	3/11/2010	4/16/2010 (ENV-RRO-10-020)	0.8496
3.2	LA-W934	<i>High Activity Waste</i>	000366428JJK	Perma-Fix/NW	1/26/2010	2/18/2010 (ENV-RRO-10-011)	4.9843
3.2	LA-W934	<i>High Activity Waste</i>	000366429JJK	Perma-Fix/NW	1/26/2010	2/18/2010 (ENV-RRO-10-011)	19.3900
3.2	LA-W934	<i>High Activity Waste</i>	000366430JJK	Perma-Fix/NW	1/26/2010	2/18/2010 (ENV-RRO-10-011)	4.1064
<u>LA-W934 Total</u>							<u>29.3303</u>
3.3.4	LA-W935	<i>10-100 nCi/g Waste</i>	000364484JJK	Perma-Fix/M&EC	10/28/2009	12/14/2009 (ENV-ES-09-085)	19.3824
3.3.4	LA-W935	<i>10-100 nCi/g Waste</i>	000365615JJK	Perma-Fix/NW	11/18/2009	12/22/2009 (ENV-RRO-09-087)	12.4920
3.3.4	LA-W935	<i>10-100 nCi/g Waste</i>	000366367JJK	Perma-Fix/M&EC	12/21/2009	1/8/2010 (ENV-RRO-10-002)	3.9558
3.3.4	LA-W935	<i>10-100 nCi/g Waste</i>	000367210JJK	Perma-Fix/M&EC	3/11/2010	4/16/2010 (ENV-RRO-10-019)	7.9116
3.3.4	LA-W935	<i>10-100 nCi/g Waste</i>	000367221JJK	Perma-Fix/NW	3/11/2010	4/16/2010 (ENV-RRO-10-019)	2.4984
<u>LA-W935 Total</u>							<u>46.2402</u>
<u>Grand Total</u>							<u>75.7787</u>

<u>CP Section</u>	<u>MWIR No.</u>	<u>Treatability Group</u>	<u>Manifest Number</u>	<u>Destination</u>	<u>Date Shipped</u>	<u>Date NMED Notified</u>	<u>Volume (m3)</u>
3.1.4	LA-W919	<i>Organic-Contaminated Combustible Solids</i>	000369350JJK	Perma-Fix/FL	9/20/2010	(ENV-ES-10-214)	0.2082
<u>LA-W919 Total</u>							<u>0.2082</u>
3.2	LA-W934	<i>High Activity Waste</i>	000366428JJK	Perma-Fix/M&EC	3/11/2010	4/16/2010 (ENV-RRO-10-020)	0.8496
3.2	LA-W934	<i>High Activity Waste</i>		Perma-Fix/NW	1/26/2010	2/18/2010 (ENV-RRO-10-011)	4.9843
3.2	LA-W934	<i>High Activity Waste</i>	000366429JJK	Perma-Fix/NW	1/26/2010	2/18/2010 (ENV-RRO-10-011)	19.3900
3.2	LA-W934	<i>High Activity Waste</i>	000366430JJK	Perma-Fix/NW	1/26/2010	2/18/2010 (ENV-RRO-10-011)	4.1064
<u>LA-W934 Total</u>							
3.3.4	LA-W935	<i>10-100 nCi/g Waste</i>	00036034JJK	Perma-Fix/NW	1/15/2009	2/25/2009 (ENV-RRO-09-013)	1.2676[†]
3.3.4	LA-W935	<i>10-100 nCi/g Waste</i>	000364085JJK	Perma-Fix/NW	3/12/2009	4/28/2009 (ENV-RRO-09-029)	3.1230

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CP Section	MWIR No.	Treatability Group	Manifest Number	Destination	Date Shipped	Date NMED Notified	Volume (m ³)
3.1.4	LA-W919	<i>Organic-Contaminated Combustible Solids</i>	000369350JJK	Perma-Fix/FL	9/20/2010	(ENV ES-10-214)	0.2082
3.3.4	LA-W935	<i>10-100 nCi/g Waste</i>	000364091JJK	Perma-Fix/NW	3/26/2009	5/7/2009 (ENV RRO-09-030)	1.0410
3.3.4	LA-W935	<i>10-100 nCi/g Waste</i>	000364102JJK	Perma-Fix/NW	4/9/2009	5/14/2009 (ENV RRO-09-031)	1.9106 [†]
3.3.4	LA-W935	<i>10-100 nCi/g Waste</i>	000364109JJK	Perma-Fix/NW	4/23/2009	5/29/2009 (ENV RRO-09-039)	1.4574
3.3.4	LA-W935	<i>10-100 nCi/g Waste</i>	000364131JJK	Perma-Fix/NW	5/7/2009	6/15/2009 (ENV RRO-09-043)	1.2492
3.3.4	LA-W935	<i>10-100 nCi/g Waste</i>	000364159JJK	Perma-Fix/M&EC	6/4/2009	6/30/2009 (ENV RRO-044)	17.6205
3.3.4	LA-W935	<i>10-100 nCi/g Waste</i>	000364154JJK	Perma-Fix/NW	6/11/2009	7/24/2009 (ENV RRO-09-046)	2.0239
3.3.4	LA-W935	<i>10-100 nCi/g Waste</i>	000364180JJK	Perma-Fix/M&EC	6/18/2009	7/24/2009 (ENV RRO-09-047)	19.1854
3.3.4	LA-W935	<i>10-100 nCi/g Waste</i>	000364183JJK	Perma-Fix/M&EC	6/25/2009	8/11/2009 (ENV RRO-09-056)	18.647
3.3.4	LA-W935	<i>10-100 nCi/g Waste</i>	000364209JJK	Perma-Fix/M&EC	7/16/2009	8/17/2009 (ENV RRO-09-058)	18.647
3.3.4	LA-W935	<i>10-100 nCi/g Waste</i>	000364215JJK	Perma-Fix/M&EC	7/23/2009	8/17/2009 (ENV RRO-09-059)	14.5711 [†]
3.3.4	LA-W935	<i>10-100 nCi/g Waste</i>	000364243JJK	Perma-Fix/FL	8/6/2009	9/18/2009 (ENV RRO-09-063)	18.6983
3.3.4	LA-W935	<i>10-100 nCi/g Waste</i>	000364256JJK	Perma-Fix/M&EC	8/20/2009	9/18/2009 (ENV RRO-09-064)	17.0724
3.3.4	LA-W935	<i>10-100 nCi/g Waste</i>	000364264JJK	Perma-Fix/M&EC	9/2/2009	10/1/2009 (ENV RRO-09-068)	15.2112
3.3.4	LA-W935	<i>10-100 nCi/g Waste</i>	000364362JJK	Perma-Fix/M&EC	9/17/2009	10/19/2009 (ENV RRO-09-072)	20.0308
3.3.4	LA-W935	<i>10-100 nCi/g Waste</i>	000364364JJK	Perma-Fix/M&EC	9/24/2009	10/19/2009 (ENV RRO-09-073)	21.6383
3.3.4	LA-W935	<i>10-100 nCi/g Waste</i>	000364378JJK	Perma-Fix/NW	9/28/2009	11/9/2009 (ENV RRO-09-079)	2.9516
LA-W935 Total							196.3463
Grand Total							217.7617

[†]Volumes shipped are different from volumes reported in the referenced notification letter.

Table B-2. Other Deleted MLLW

CP Section	MWIR No.	Treatability Group	Disposition	Date of Action	Date NMED Notified	Volume (m ³)
3.2	LA-W934	<i>High Activity Waste</i>	Sent for analysis and expended in analysis process	12/2/2008	Revision 20 STP Annual Update	0.0100

APPENDIX C. CURRENT YEAR MLLW ADMINISTRATIVE ADJUSTMENTS

Table C-1. Administrative Adjustments

CP Section	MWIR Number	Administrative Adjustment	Volume (m ³)
3.1.4	LA-W911	LLW reclassified as MLLW (LA-W911)	0.1136
Total Net Adjustments for LA-W911			0.1136
3.2	LA-W925	Volume of item (0.1136 m ³) reported in FY08 as (0.2082 m ³)	-0.0946
	LA-W925	Rounding adjustment	0.0001
Total Net Adjustments for LA-W925			-0.0945
3.2	LA-W934	Database correction—transferred to MTRU STP Inventory in a prior year	-0.2082
Total Net Adjustments for LA-W934			-0.2082
3.3.4	LA-W935	Recharacterized as MLLW (LA-W935) from LLW inventory	0.2082
3.1.8	LA-W917	Addition of WIPP-Prohibited Items removed during repacking of MTRU STP containers	4.1640
Total Net Adjustments for LA-917			4.1640
3.3.4	LA-W935	Transferred into LA-W935 from MTRU STP Inventory	195.9851140.5406 ¹
		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
		Increase in inventory due to TRU (non-mixed) inventory reclassified and managed as MLLW (LA-W935)	46.6194
Total Net Adjustments for LA-935			187.1618196.1933
Total Net Adjustments			196.0042191.3258

¹ Volume of waste transferred to MLLW (LA-W934W935) calculated using the MLLW convention of converting gallons to cubic meters (55 gallons = 0.2082 m³; 85 gallons = 0.32158 m³); the equivalent volume removed from the MTRU Inventory was 495.8935140.407 m³

APPENDIX D. PREVIOUS YEAR MLLW INVENTORY DETAIL

TABLE D-1: ~~FY08 MLLW Inventory Detailed Update by Treatability Group~~
Table DA-1: FY09 MLLW Inventory¹ Detailed Update by Treatability Group

<u>CP* Sec.</u>	<u>MWIR* Waste ID and Treatability Group/Category</u>	<u>FY08 Annual Update (m³)¹</u>	<u>Proposed Revision 20.0 (m³)</u>	<u>Comments²</u>	<u>FY09 Annual Update (m³)</u>	<u>Projection FY10-FY14 (m³)</u>
3.1.1	LA-W901 <i>IPA Wastes</i>	0	0		0	0
3.1.1	LA-W902 <i>Scintillation Fluids</i>	0	0		0	0
3.1.2	LA-W903 <i>Lead Blankets</i>	0	0		0	0
3.1.2	LA-W904 <i>Soil with Heavy Metals</i>	0	0		0	0
3.1.2	LA-W905 <i>ER Soils</i>	0	0		0	0
3.1.3	LA-W906 <i>Aqueous Organic Liquids</i>	0	0		0	0
3.1.4	LA-W911 <i>Organic-Contaminated Combustible Solids</i>	0	0.1136	Administrative Adjustment - reclassified from LLW inventory	0	0
			-0.1136	Shipped offsite for treatment/disposal		
3.1.4	LA-W919 <i>Organic-Contaminated Noncombustible Solids</i>	0.2082	0		0.2082	0
3.1.5	LA-W912 <i>Combustible Debris</i>	0	0		0	0
3.1.5	LA-W921 <i>Activated or Inseparable Lead</i>	0	0		0	0
3.1.5	LA-W922 <i>Noncombustible Debris</i>	0	0		0	0
3.1.6	LA-W913 <i>Aqueous Wastes with Heavy Metals</i>	0	0		0	0
3.1.6	LA-W914 <i>Corrosive Solutions</i>	0	0		0	0
3.1.6	LA-W915 <i>Aqueous Cyanides, Nitrates, Chromates, and Arsenates</i>	0	0		0	0

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3.1.7	LA-W916 <i>Water-Reactive Wastes</i>	0	0		0	
3.1.8	LA-W917 <i>Compressed Gases Requiring Scrubbing</i>	0.0080	-0.0080	Shipped offsite for treatment/disposal	0	0
3.1.9	LA-W918 <i>Compressed Gases Requiring Oxidation</i>	0.0602	-0.0602	Shipped offsite for treatment/disposal	0	0
3.1.10	LA-W920 <i>Elemental Mercury</i>	0	0		0	
3.1.11	LA-W907 <i>Halogenated Organic Liquids</i>	0	0		0	0
3.1.11	LA-W908 <i>Nonhalogenated Organic Liquids</i>	0	0.0379	New Covered ³	0	0
			-0.0379	Shipped offsite for treatment/disposal		
3.1.11	LA-W909 <i>Bulk Oils</i>	0	0		0	0
3.1.11	LA-W910 <i>Polychlorinated Biphenyl (PCB) Wastes with Resource Conservation and Recovery Act (RCRA) Components</i>	0	0		0	
3.1.11	LA-W923 <i>Liquid and Solid Oxidizers</i>	0	0		0	0
3.2	LA-W924 <i>Lead Wastes – TBD</i>	0	0		0	
3.2	LA-W925 <i>Mercury Wastes – TBD</i>	0.4732	-0.3787	Shipped offsite for treatment/disposal	0	0
			-0.0945	Administrative Adjustment		
3.2	LA-W926 <i>Compressed Gases – TBD</i>	0	0		0	0
3.2	LA-W927 <i>Biochemical Laboratory Wastes</i>	0	0		0	0
3.2	LA-W928 <i>Dewatered Treatment Sludge</i>	0	0		0	0
3.2	LA-W932 <i>Explosives</i>	0	0		0	
3.2	LA-W933 <i>Lab Packs Labpacks</i>	0	0		0	0

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3.2	LA-W934 <i>High Activity Waste³</i>	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 <i>Lead for Surface Decontamination</i>	0	0		0	0
3.3.2	LA-W929 <i>Nonradioactive or Suspect Waste Items to be Surveyed</i>	0	0		0	0
3.3.3	LA-W931 <i>Lead Requiring Sorting</i>	0	0		0	0
3.3.4	LA-W935 <i>10-100 nCi/g Waste³</i>	14.3658	196.1933	Administrative Adjustment	14.2128	625.0000 ³
			-196.3463	Shipped offsite for treatment/disposal		
3.4	<i>Missing/ nonexistent/ TBV category</i>	0	0		0	N/A
	TOTALS	58.5520			45.9222	

<u>CP* Sec.</u>	<u>MWIR* Waste ID and Treatability Group/Category</u>	<u>FY07 Annual Update (m³)</u>	<u>Proposed Revision 19.0 (m³)⁴</u>	<u>Comments²</u>	<u>FY08 Annual Update (m³)</u>	<u>Projection FY09-FY13 (m³)</u>
3.1.1	LA-W901 <i>IPA Wastes</i>	0	0		0	0
3.1.1	LA-W902 <i>Scintillation Fluids</i>	0	0		0	0
3.1.2	LA-W903 <i>Lead Blankets</i>	0	0		0	0
3.1.2	LA-W904 <i>Soil with Heavy Metals</i>	0	0		0	0
3.1.2	LA-W905 <i>ER Soils</i>	0	0		0	0

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3.1.3	LA-W906 <i>Aqueous Organic Liquids</i>	0	0		0	0
3.1.4	LA-W911 <i>Organic-Contaminated Combustible Solids</i>	0	0		0	0
3.1.4	LA-W919 <i>Organic-Contaminated Noncombustible Solids</i>	0	0.2082	Administrative Adjustment: reclassified from Covered MTRU Inventory at CMR/TA-55 to MLLW Inventory LA-W919	0.2082	0
3.1.5	LA-W912 <i>Combustible Debris</i>	0	0		0	0
3.1.5	LA-W921 <i>Activated or Inseparable Lead</i>	0	0		0	0
3.1.5	LA-W922 <i>Noncombustible Debris</i>	0.0015	-0.0015	Shipped to Perma-Fix (FL)— 9/22/2008	0	2.0000
3.1.6	LA-W913 <i>Aqueous Wastes with Heavy Metals</i>	0	0		0	0
3.1.6	LA-W914 <i>Corrosive Solutions</i>	0	0		0	0
3.1.6	LA-W915 <i>Aqueous Cyanides, Nitrates, Chromates, and Arsenates</i>	0	0		0	0
3.1.7	LA-W916 <i>Water- Reactive Wastes</i>	0	0		0	
3.1.8	LA-W917 <i>Compressed Gases Requiring Scrubbing</i>	0.0080	0		0.0080	0
3.1.9	LA-W918 <i>Compressed Gases Requiring Oxidation</i>	0.0602	0		0.0602	0
3.1.10	LA-W920 <i>Elemental Mercury</i>	0	0		0	
3.1.11	LA-W907 <i>Halogenated Organic Liquids</i>	0	0		0	0
3.1.11	LA-W908 <i>Nonhalogenated Organic Liquids</i>	0.0009	-0.0009	Shipped to Perma-Fix (FL)— 9/22/2008	0	0
3.1.11	LA-W909 <i>Bulk Oils</i>	0	0		0	0

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3.1.11	LA-W910 <i>Polychlorinated Biphenyl (PCB) Wastes with Resource Conservation and Recovery Act (RCRA) Components</i>	0	0		0	
3.1.11	LA-W923 <i>Liquid and Solid Oxidizers</i>	0	0		0	0
3.2	LA-W924 <i>Lead Wastes—TBD</i>	0	0		0	
3.2	LA-W925 <i>Mercury Wastes—TBD</i>	0.6814	-0.2082	Shipped to M&EC—3/17/2008	0.4732	1.5000
3.2	LA-W926 <i>Compressed Gases—TBD</i>	0	0		0	0
3.2	LA-W927 <i>Biochemical Laboratory Wastes</i>	0	0		0	0
3.2	LA-W928 <i>Dewatered Treatment Sludge</i>	0	0		0	0
3.2	LA-W932 <i>Explosives</i>	0	0		0	
3.2	LA-W933 <i>Lab Packs</i>	0	0		0	2.0000
3.2	LA-W934 <i>High Activity Waste²</i>	42.1506	7.8167 -1.2860 7.0788 -14.8955 ⁵	Administrative Adjustment (reclassified from Covered MTRU Inventory) New Covered ⁴ Administrative Adjustment (reclassified from LA-W935 to LA- W934) Shipped to M&EC—8/4/2008 (7.8167 m ³ reclassified from MTRU and 7.0788 reclassified from LA-W935; no existing waste shipped)	43.4366	0.1000
3.3.1	LA-W930 <i>Lead for Surface Decontamination</i>	0	0		0	0
3.3.2	LA-W929 <i>Nonradioactive or Suspect Waste Items to be Surveyed</i>	0	0		0	0
3.3.3	LA-W931 <i>Lead Requiring Sorting</i>	0	0		0	0

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3.3.4	LA-W935 <i>10-100 nCi/g Waste²</i>	13.1166	23.5266	Administrative Adjustment (reclassified from LA-W935 from Covered MTRU Inventory)	14.3658	251.0000
			-16.0314	Shipped to M&EC 4/14/2008 (11.6592 m ³ existing waste and 4.3722 m ³ waste reclassified from covered MTRU)		
			-7.0788	Administrative Adjustment (Decreased inventory through reclassification of waste as LA-W934 from LA-W935)		
			0.8328	Administrative Adjustment (Waste scheduled to ship in FY07 was returned to inventory in FY08)		
3.4	<i>Missing/nonexistent/TBV category</i>	0	0		0	N/A
	TOTALS	56.0192⁶			58.5520	

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

¹ MLLW waste volumes are calculated using the conversion: 55-gallon container = 0.2082 m³

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 m³, rather than 14.8955 m³; one container was actually 0.3215 m³, rather than the reported volume of 0.2082 m³

⁶ Table 2.1-1 contains an adjustment of -0.0008 m³, 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 Group^{1,2})

Treatability Group	FY08 FY09 Annual Update (m ³)	Proposed Revision 2021.0 (m ³)	Comments ³	FY09-FY10 Annual Update (m ³) ³	Projection FY10-FY11- FY14-FY15 (m ³)
<i>Cemented Sludge</i>	<u>990.542</u> 132 <u>1.9267</u>				
		0	New Covered ⁴		
		153.702 <u>58</u> <u>5.064</u>	Shipped Offsite		
		177.682 <u>163.200</u>	Administrative Adjustments		
			FY09-FY10 Subtotal Cemented Sludge	<u>742.278</u> 990. <u>5422</u> (90.542)	<u>90</u>
<i>Combustible - Noncombustible Waste</i>	<u>1837.988</u> 18 <u>38.0604</u>				
		<u>25.792</u> <u>019</u> <u>.164</u>	New Covered		
		116.688 <u>02</u> <u>12.616</u>	Shipped Offsite		
		<u>90.824</u> <u>126</u> <u>.638</u>	Administrative Adjustments		
			FY09-FY10 Subtotal Combustible-Noncombustible Waste	<u>1771.174</u> <u>18</u> <u>37.9884</u> (1837.988)	<u>100</u>
<i>Combustible Waste</i>	<u>37.165</u> 60.1 <u>212</u>				
		<u>90.322</u>	New Covered		
		1.456 <u>03.3</u> <u>28</u>	Shipped Offsite		
		15.825 <u>21.5002</u>	Administrative Adjustments		
			FY09-FY10 Subtotal Combustible Waste	<u>18.334</u> <u>37.16</u> <u>50</u> (37.165)	<u>0</u>
<i>Glass Waste</i>	<u>0.832</u> 1.456 <u>0</u>				
		0	New Covered		
		0	Shipped Offsite		

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		-0.6240	Administrative Adjustments		
			FY09-FY10 Subtotal Glass Waste	0.2080.8320 (0.832)	0
Leaded Glovebox Waste	6.03210.40 00	0	New Covered		
		<u>-0.20800</u>	Shipped Offsite		
		<u>-6.032- 4.1600</u>	Administrative Adjustments		
			FY09-FY10 Subtotal Leaded Glovebox Waste	06.0320 (6.032)	0
Metallic Waste	56.05759.1 499	0	New Covered		
		<u>- 1.19800.6 24</u>	Shipped Offsite		
		<u>-6.675- 1.8949</u>	Administrative Adjustments		
			FY09-FY10 Subtotal Metallic Waste	48.75856.05 70 (56.057)	0
Non-combustible Waste	86.68983.2 470	<u>23.50400</u>	New Covered		
		<u>- 3.95208.7 36</u>	Shipped Offsite		
		<u>3.7477.39 35</u>	Administrative Adjustments		
			FY09-FY10 Subtotal Noncombustible Waste	81.70086.68 85 (86.689)	100
Solidified Inorganic and Organic Waste	157.522174 .1585	<u>6.86401.6 64</u>	New Covered		
		<u>- 23.50408. 944</u>	Shipped Offsite		
		<u>- 6.1780.00 30</u>	Administrative Adjustments		
			FY09-FY10 Subtotal Solidified Inorganic and Organic Waste	157.5215 (157.522)14 4.064	10
TOTAL FY09:	3172.826⁵³ 548.5197		Total FY09-FY10 Inventory:	2806.51631 72.8266 (3172.826)⁵⁶	210

¹ MTRU waste volumes are calculated using the conversion: 55-gallon container = 0.2080 m³; 85-gallon container = 0.3215 m³.

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² FY09-FY10 volumes are also represented to three decimal places to facilitate reporting waste volumes in FY10 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 m³; it should have been 3172.827 m³.

^{5,6} The total can be expressed as 3172.826 m³ by summing the rounded 3 decimal place subtotals for each treatability group or 3172.827 m³ by rounding the original 4 decimal place total volume. 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 CMR⁴

Location	FY08-FY09 MTRU Inventory (m ³) ¹	Treatability Group	Proposed Revision 20 21 (m ³)	Comments ² Comments ¹	FY09-FY10 MTRU Inventory (m ³)
CMR	<u>2.76072.940</u>	Combustible- Noncombustible Waste	<u>0.1793</u>	Administrative Adjustment	<u>2.9400</u>
		Combustible- Noncombustible Waste	<u>0.416</u>	New Covered	
<u>Total FY10 CMR Inventory</u>					<u>3.356</u>
TA-55	<u>0.20800</u>	Combustible- Noncombustible Waste	<u>0.20800.567</u>	New Covered	<u>0</u>
		Combustible- Noncombustible Waste	<u>1.363-0.4160</u>	Administrative Adjustment	
<u>FY10 TA-55 Combustible-Noncombustible Waste Inventory</u>					<u>1.930</u>
TA-55	<u>1.2480</u>	Combustible Waste	<u>0-1.248</u>	Administrative Adjustment	<u>1.2480</u>
<u>FY10 TA-55 Combustible Waste Inventory</u>					<u>0</u>
TA-55	<u>34.241336.803</u>	Metallic Waste	<u>-4.8162.5618</u>	Administrative Adjustment New Covered	<u>36.8031</u>
<u>FY10 TA-55 Metallic Waste Inventory</u>					<u>31.987</u>
TA-55	<u>1.9000</u>	Noncombustible Waste	<u>00.810</u>	New Covered	<u>1.9000</u>
		Noncombustible Waste	<u>0.416</u>	Administrative Adjustment	
<u>FY10 TA-55 Noncombustible Waste Inventory</u>					<u>3.126</u>
TA-55	<u>0.94980.738</u>	Solid Organic and Inorganic Waste	<u>-0.5300.2080</u>	Administrative Adjustment New Covered	<u>0.7380</u>
		Solid Organic and Inorganic Waste	<u>-0.4198</u>	Administrative Adjustment	
<u>FY10 TA-55 Solidified Organic and Inorganic Waste Inventory</u>					<u>0.208</u>
<u>Total FY10 TA-55 Inventory</u>					<u>37.251</u>

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Location	FY08-FY09 MTRU Inventory (m³)¹	Treatability Group	Proposed Revision 20 <u>21</u> (m³)	Comments² Comments¹	FY09-FY10 MTRU Inventory (m³)
Total CMR/TA- 55 Inventory	<u>43.62941,3078</u>³		<u>Total CMR/TA-55 Inventory</u>		<u>40.60743,6291</u>

¹ The CMR and TA-55 MTRU inventory was not separated into treatability groups in the FY08 Annual Update; in this annual update, the treatability groups have been broken out to provide consistency with the TA-54 Inventory in Table E-1.

² Shipping details are found in Appendix F and Administrative Adjustments are found in Appendix G. Since all waste is shipped from TA-54, there is no shipping data for CMR/TA-55, only transfers to TA-54.

³ The total CMR/TA-55 volume at the end of FY08 was not explicitly stated in the FY08 Annual Report. The total volume shown is the sum of the inventory volume at the beginning of FY08 (45.5 m³) and the adjustments (- 4.1922 m³) from Part I Table 2.2-1 of the FY08 Update.

APPENDIX F. FY09-FY10 MTRU WASTE SHIPMENTS TO WIPP

Table F-1: FY09-FY10 MTRU Shipments to WIPP

	<u>Treatability Group</u>	<u>Shipment Date</u>	<u>FY09 Inventor y Volume (m³)</u>	<u>New Covered Volume (m³)</u>	<u>Total Removed from Inventory (m³)</u>	<u>Total Volume Shipped (m³)</u>
	<u>Cemented Sludge</u>	<u>11/16/2009</u>	<u>1.040</u>	<u>0</u>	<u>1.040</u>	<u>1.040</u>
		<u>11/20/2009</u>	<u>0.832</u>	<u>0</u>	<u>0.832</u>	<u>0.832</u>
		<u>2/9/2010</u>	<u>1.362</u>	<u>0</u>	<u>1.362</u>	<u>1.248</u>
		<u>2/10/2010</u>	<u>1.570</u>	<u>0</u>	<u>1.570</u>	<u>1.456</u>
		<u>2/11/2010</u>	<u>1.154</u>	<u>0</u>	<u>1.154</u>	<u>1.040</u>
		<u>2/12/2010</u>	<u>4.596</u>	<u>0</u>	<u>4.596</u>	<u>4.368</u>
		<u>2/13/2010</u>	<u>5.032</u>	<u>0</u>	<u>5.032</u>	<u>4.576</u>
		<u>2/14/2010</u>	<u>5.448</u>	<u>0</u>	<u>5.448</u>	<u>4.992</u>
		<u>2/19/2010</u>	<u>5.562</u>	<u>0</u>	<u>5.562</u>	<u>4.992</u>
		<u>2/20/2010</u>	<u>6.018</u>	<u>0</u>	<u>6.018</u>	<u>4.992</u>
		<u>2/21/2010</u>	<u>6.890</u>	<u>0</u>	<u>6.890</u>	<u>5.408</u>
		<u>2/27/2010</u>	<u>6.092</u>	<u>0</u>	<u>6.092</u>	<u>5.408</u>
		<u>3/4/2010</u>	<u>6.662</u>	<u>0</u>	<u>6.662</u>	<u>5.408</u>
		<u>3/8/2010</u>	<u>3.388</u>	<u>0</u>	<u>3.388</u>	<u>2.704</u>
		<u>4/27/2010</u>	<u>5.602</u>	<u>0</u>	<u>5.602</u>	<u>4.576</u>
		<u>5/18/2010</u>	<u>1.040</u>	<u>0</u>	<u>1.040</u>	<u>1.040</u>
		<u>5/19/2010</u>	<u>2.234</u>	<u>0</u>	<u>2.234</u>	<u>1.664</u>
		<u>5/20/2010</u>	<u>2.254</u>	<u>0</u>	<u>2.254</u>	<u>1.456</u>
		<u>6/22/2010</u>	<u>1.684</u>	<u>0</u>	<u>1.684</u>	<u>1.456</u>
		<u>6/23/2010</u>	<u>3.522</u>	<u>0</u>	<u>3.522</u>	<u>2.496</u>
		<u>6/28/2010</u>	<u>6.588</u>	<u>0</u>	<u>6.588</u>	<u>4.992</u>
		<u>6/30/2010</u>	<u>1.798</u>	<u>0</u>	<u>1.798</u>	<u>1.456</u>
		<u>7/7/2010</u>	<u>2.140</u>	<u>0</u>	<u>2.140</u>	<u>1.456</u>
		<u>7/8/2010</u>	<u>2.026</u>	<u>0</u>	<u>2.026</u>	<u>1.456</u>
		<u>7/14/2010</u>	<u>0.530</u>	<u>0</u>	<u>0.530</u>	<u>0.416</u>
	<u>Cemented Sludge Total</u>		<u>85.064</u>	<u>0</u>	<u>85.064</u>	<u>70.928</u>
	<u>Combustible-Noncombustible Waste</u>	<u>10/1/2009</u>	<u>1.456</u>	<u>0</u>	<u>1.456</u>	<u>1.456</u>
		<u>10/2/2009</u>	<u>1.248</u>	<u>0</u>	<u>1.248</u>	<u>1.248</u>
		<u>10/6/2009</u>	<u>1.986</u>	<u>0</u>	<u>1.986</u>	<u>1.872</u>
		<u>10/7/2009</u>	<u>1.248</u>	<u>0</u>	<u>1.248</u>	<u>1.248</u>
		<u>10/9/2009</u>	<u>1.248</u>	<u>0</u>	<u>1.248</u>	<u>1.248</u>
		<u>10/14/2009</u>	<u>0.624</u>	<u>0</u>	<u>0.624</u>	<u>0.624</u>
		<u>10/16/2009</u>	<u>1.872</u>	<u>0</u>	<u>1.872</u>	<u>1.872</u>

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	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
	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

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	3/3/2010	0.624	0.416	1.040	1.040
	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
	6/30/2010	4.992	0	4.992	4.992
	7/7/2010	2.912	0	2.912	2.912

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	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
	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

		<u>9/30/2010</u>	<u>1.872</u>	<u>0</u>	<u>1.872</u>	<u>1.872</u>
	<u>Combustible-Noncombustible Waste Total</u>		<u>201.592</u>	<u>11.024</u>	<u>212.616</u>	<u>212.160</u>
<u>Combustible Waste</u>		<u>10/6/2009</u>	<u>0.416</u>	<u>0</u>	<u>0.416</u>	<u>0.416</u>
		<u>10/7/2009</u>	<u>0.416</u>	<u>0</u>	<u>0.416</u>	<u>0.416</u>
		<u>11/4/2009</u>	<u>0.208</u>	<u>0</u>	<u>0.208</u>	<u>0.208</u>
		<u>1/14/2010</u>	<u>0.208</u>	<u>0</u>	<u>0.208</u>	<u>0.208</u>
		<u>2/11/2010</u>	<u>0.416</u>	<u>0</u>	<u>0.416</u>	<u>0.416</u>
		<u>6/8/2010</u>	<u>0.832</u>	<u>0</u>	<u>0.832</u>	<u>0.832</u>
		<u>8/16/2010</u>	<u>0.208</u>	<u>0</u>	<u>0.208</u>	<u>0.208</u>
		<u>8/27/2010</u>	<u>0.208</u>	<u>0</u>	<u>0.208</u>	<u>0.208</u>
		<u>9/9/2010</u>	<u>0.208</u>	<u>0</u>	<u>0.208</u>	<u>0.208</u>
		<u>9/14/2010</u>	<u>0.208</u>	<u>0</u>	<u>0.208</u>	<u>0.208</u>
	<u>Combustible Waste Total</u>		<u>3.328</u>	<u>0</u>	<u>3.328</u>	<u>3.328</u>
<u>Metallic Waste</u>		<u>6/30/2010</u>	<u>0.208</u>	<u>0</u>	<u>0.208</u>	<u>0.208</u>
		<u>8/24/2010</u>	<u>0.208</u>	<u>0</u>	<u>0.208</u>	<u>0.208</u>
		<u>8/27/2010</u>	<u>0.208</u>	<u>0</u>	<u>0.208</u>	<u>0.208</u>
	<u>Metallic Waste</u>		<u>0.624</u>	<u>0</u>	<u>0.624</u>	<u>0.624</u>
<u>Noncombustible Waste</u>		<u>10/23/2009</u>	<u>2.912</u>	<u>0</u>	<u>2.912</u>	<u>2.912</u>
		<u>10/26/2009</u>	<u>0.832</u>	<u>0</u>	<u>0.832</u>	<u>0.832</u>
		<u>7/9/2010</u>	<u>1.040</u>	<u>0</u>	<u>1.040</u>	<u>1.040</u>
		<u>7/12/2010</u>	<u>0.624</u>	<u>0</u>	<u>0.624</u>	<u>0.624</u>
		<u>8/6/2010</u>	<u>1.664</u>	<u>0</u>	<u>1.664</u>	<u>1.664</u>
		<u>8/25/2010</u>	<u>1.664</u>	<u>0</u>	<u>1.664</u>	<u>1.664</u>
	<u>Noncombustible Waste</u>		<u>8.736</u>	<u>0</u>	<u>8.736</u>	<u>8.736</u>
<u>Solidified Inorganic/Organic Waste</u>		<u>10/23/2009</u>	<u>1.248</u>	<u>0</u>	<u>1.248</u>	<u>1.248</u>
		<u>10/26/2009</u>	<u>0.832</u>	<u>0</u>	<u>0.832</u>	<u>0.832</u>
		<u>11/10/2009</u>	<u>0.208</u>	<u>0</u>	<u>0.208</u>	<u>0.208</u>
		<u>11/16/2009</u>	<u>0.416</u>	<u>0</u>	<u>0.416</u>	<u>0.416</u>
		<u>11/18/2009</u>	<u>0.208</u>	<u>0</u>	<u>0.208</u>	<u>0.208</u>
		<u>11/20/2009</u>	<u>0.624</u>	<u>0</u>	<u>0.624</u>	<u>0.624</u>
		<u>2/9/2010</u>	<u>0.208</u>	<u>0</u>	<u>0.208</u>	<u>0.208</u>
		<u>2/15/2010</u>	<u>0.416</u>	<u>0</u>	<u>0.416</u>	<u>0.416</u>
		<u>2/17/2010</u>	<u>0.208</u>	<u>0</u>	<u>0.208</u>	<u>0.208</u>
		<u>2/25/2010</u>	<u>0.208</u>	<u>0</u>	<u>0.208</u>	<u>0.208</u>
		<u>2/26/2010</u>	<u>0.208</u>	<u>0</u>	<u>0.208</u>	<u>0.208</u>
		<u>2/28/2010</u>	<u>0.208</u>	<u>0</u>	<u>0.208</u>	<u>0.208</u>
		<u>3/2/2010</u>	<u>0.208</u>	<u>0</u>	<u>0.208</u>	<u>0.208</u>
		<u>3/6/2010</u>	<u>0.208</u>	<u>0.208</u>	<u>0.416</u>	<u>0.416</u>
		<u>4/22/2010</u>	<u>0.208</u>	<u>0</u>	<u>0.208</u>	<u>0.208</u>
		<u>4/23/2010</u>	<u>0.208</u>	<u>0</u>	<u>0.208</u>	<u>0.208</u>
		<u>5/5/2010</u>	<u>0.208</u>	<u>0</u>	<u>0.208</u>	<u>0.208</u>

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	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
	<i>Solidified Inorganic/Organic Waste Total</i>	8.736	0.208	8.944	8.944
	<i>Grand Total</i>	308.080	11.232	319.312	304.72

Treatability Group	Shipment Date	Existing Inventory Volume (m ³)	New Covered Volume (m ³)	Total Volume Removed from Inventory (Existing + New Covered) (m ³)	Total Volume Shipped (m ³)
<i>Cemented Sludge</i>	10/7/08	2.6095	0	2.6095	2.4960
	10/9/08	1.9855	0	1.9855	1.8720
	10/16/08	5.3135	0	5.3135	5.2000
	10/21/08	4.6140	0	4.6140	4.1600
	10/23/08	6.1650	0	6.1650	4.5760
	10/28/08	5.7110	0	5.7110	4.5760
	10/30/08	6.5810	0	6.5810	4.9920
	11/3/08	3.4230	0	3.4230	2.2880
	11/13/08	3.7445	0	3.7445	2.4960
	1/20/09	4.4815	0	4.4815	4.3680
	1/21/09	4.9355	0	4.9355	4.3680
	1/29/09	5.2760	0	5.2760	4.3680
	2/3/09	2.9500	0	2.9500	2.4960
	2/4/09	2.4395	0	2.4395	1.8720
	3/3/09	2.4960	0	2.4960	2.4960
	3/4/09	2.4960	0	2.4960	2.4960
	3/6/09	4.992	0	4.9920	4.9920
	3/10/09	4.9920	0	4.9920	4.9920
	3/11/09	4.9920	0	4.9920	4.9920
	3/12/09	4.9920	0	4.9920	4.9920
	3/18/09	9.9840	0	9.9840	9.9840
	3/24/09	2.4960	0	2.4960	2.4960
	3/30/09	3.3280	0	3.3280	3.3280

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Treatability Group	Shipment Date	Existing Inventory Volume (m ³)	New Covered Volume (m ³)	Total Volume Removed from Inventory (Existing + New Covered) (m ³)	Total Volume Shipped (m ³)
	4/14/09	5.7870	0	5.7870	3.7440
	4/21/09	4.8225	0	4.8225	3.1200
	4/28/09	7.4890	0	7.4890	4.9920
	6/2/09	5.6735	0	5.6735	3.7440
	6/3/09	7.7160	0	7.7160	4.9920
	6/9/09	3.2715	0	3.2715	2.7040
	6/17/09	5.1250	0	5.1250	3.5360
	6/23/09	2.8175	0	2.8175	2.7040
	7/8/09	5.2000	0	5.2000	5.2000
	7/10/09	3.1390	0	3.1390	2.9120
	7/14/09	1.6640	0	1.6640	1.6640
Total Cemented Sludge		153.7025	0	153.7025	130.2080
<i>Combustible-Noncombustible Waste</i>	10/7/08	1.2480	0	1.2480	1.2480
	10/9/08	1.4560	0	1.4560	1.4560
	11/3/08	1.2480	0	1.2480	1.2480
	11/6/08	2.0800	0	2.0800	2.0800
	11/10/08	1.4560	0.4160	1.8720	1.8720
	11/13/08	1.0400	0	1.0400	1.0400
	1/20/09	1.4560	0	1.4560	1.4560
	1/21/09	1.4560	0.2080	1.6640	1.6640
	1/29/09	1.2480	0.4160	1.6640	1.6640
	2/3/09	2.4960	0	2.4960	2.4960
	2/4/09	3.9520	0.6240	4.5760	4.5760
	2/5/09	0.4160	0	0.4160	0.4160
	2/11/09	1.0400	0.2080	1.2480	1.2480
	2/12/09	1.8720	0	1.8720	1.8720
	2/13/09	1.4560	0.2080	1.6640	1.6640
	2/18/09	0.6240	0.4160	1.0400	1.0400
	2/19/09	0.4160	0.6240	1.0400	1.0400
	3/2/09	0.6240	0.2080	0.8320	0.8320
	3/3/09	0.4160	0.4160	0.8320	0.8320
	3/4/09	2.2880	0	2.2880	2.2880
	3/5/09	1.6640	0.4160	2.0800	2.0800
	3/9/09	1.6640	0.4160	2.0800	2.0800
	3/16/09	0.8320	0.2080	1.0400	1.0400
	3/23/09	0.2080	0.2080	0.4160	0.4160
	3/30/09	0.6240	0	0.6240	0.6240

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	4/1/09	0.4160	0.4160	0.8320	0.8320
	4/6/09	0.2080	0.4160	0.6240	0.6240
	4/13/09	1.0400	0	1.0400	1.0400
	4/14/09	1.0400	0	1.0400	1.0400
	4/16/09	0.4160	0	0.4160	0.4160
	4/20/09	0.4160	0	0.4160	0.4160
	4/21/09	3.5360	0.4160	3.9520	3.9520
	4/22/09	1.2480	0.2080	1.4560	1.4560
	4/27/09	2.2880	0.2080	2.4960	2.4960
	6/1/09	0.8320	0.4160	1.2480	1.2480
	6/2/09	1.4560	0	1.4560	1.4560
	6/3/09	0.8320	0	0.8320	0.8320
	6/8/09	0.0000	0.2080	0.2080	0.2080
	6/9/09	2.7040	0	2.7040	2.7040
	6/10/09	1.2480	0	1.2480	1.2480
	6/11/09	2.0800	0	2.0800	2.0800
	6/16/09	0.6240	0.2080	0.8320	0.8320
	6/17/09	2.7040	0	2.7040	2.7040
	6/18/09	0.8320	0	0.8320	0.8320
	6/19/09	0.8320	0.4160	1.2480	1.2480
	6/23/09	2.2880	0	2.2880	2.2880
	6/26/09	1.0400	0	1.0400	1.0400
	6/29/09	1.4560	0	1.4560	1.4560
	6/30/09	0.6240	0.2080	0.8320	0.8320
	7/1/09	1.0400	0.4160	1.4560	1.4560
	7/2/09	0.6240	0	0.6240	0.6240
	7/6/09	1.6640	0	1.6640	1.6640
	7/7/09	1.6640	0	1.6640	1.6640
	7/8/09	1.0400	0	1.0400	1.0400
	7/9/09	0.4160	0.4160	0.8320	0.8320
	7/10/09	0.2080	0.4160	0.6240	0.6240
	7/13/09	1.8720	0	1.8720	1.8720
	7/14/09	1.0400	0.2080	1.2480	1.2480
	7/15/09	1.0400	0	1.0400	1.0400
	7/16/09	2.2880	0.4160	2.7040	2.7040
	7/17/09	0.6240	0	0.6240	0.6240
	7/22/09	1.0400	0.4160	1.4560	1.4560
	7/28/09	1.6640	0.4160	2.0800	2.0800

Treatability Group	Shipment Date	Existing Inventory Volume (m ³)	New Covered Volume (m ³)	Total Volume Removed from Inventory (Existing + New Covered) (m ³)	Total Volume Shipped (m ³)
	7/31/09	6.0320	0	6.0320	6.0320
	8/11/09	0.4160	0	0.4160	0.4160
	8/14/09	0.2080	0	0.2080	0.2080
	8/19/09	2.7040	0	2.7040	2.7040
	8/20/09	1.6640	0	1.6640	1.6640
	8/26/09	1.2480	0	1.2480	1.2480
	8/27/09	3.9520	0.2080	4.1600	4.1600
	9/1/09	0.2080	0	0.2080	0.2080
	9/3/09	5.2000	0	5.2000	5.2000
	9/11/09	0.4160	0	0.4160	0.4160
	9/16/09	2.9120	0	2.9120	2.9120
	9/22/09	0.2080	0	0.2080	0.2080
	9/23/09	0.4160	0	0.4160	0.4160
	9/25/09	0.4160	0	0.4160	0.4160
Total Combustible-Noncombustible Waste		105.6640	11.0240	116.6880	116.6880
<i>Combustible Waste</i>	11/3/08	0.4160	0	0.4160	0.4160
	2/4/09	0.2080	0	0.2080	0.2080
	3/3/09	0.2080	0	0.2080	0.2080
	7/16/09	0.2080	0	0.2080	0.2080
	7/17/09	0.2080	0	0.2080	0.2080
	7/28/09	0.2080	0	0.2080	0.2080
Total Combustible Waste		1.4560	0	1.4560	1.4560
<i>Leaded Glovebox Waste</i>	9/16/09	0.2080	0	0.2080	0.2080
Total Leaded Glovebox Waste		0.2080	0	0.2080	0.2080
<i>Metallic Waste</i>	4/21/09	0.2080	0	0.2080	0.2080
	6/2/09	0.9900	0	0.9900	0.9900
Total Metallic Waste		1.1980	0.6240	1.1980	1.1980
<i>Noncombustible Waste</i>	2/11/09	0.2080	0	0.2080	0.2080
	6/8/09	0.8320	0	0.8320	0.8320
	6/30/09	1.2480	0	1.2480	1.2480
	7/10/09	1.4560	0	1.4560	1.4560
	7/14/09	0.2080	0	0.2080	0.2080
Total Noncombustible Waste		3.9520	0	3.9520	3.9520
<i>Solidified Organic and Inorganic Waste</i>	10/7/08	0.2080	0	0.2080	0.2080

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Treatability Group	Shipment Date	Existing Inventory Volume (m ³)	New Covered Volume (m ³)	Total Volume Removed from Inventory (Existing + New Covered) (m ³)	Total Volume Shipped (m ³)
	10/9/08	0.4160	0	0.4160	0.4160
	10/16/08	3.3280	0	3.3280	3.3280
	11/10/08	0.2080	0	0.2080	0.2080
	11/13/08	0.2080	0	0.2080	0.2080
	1/20/09	0.2080	0	0.2080	0.2080
	1/29/09	0.2080	0	0.2080	0.2080
	2/3/09	0.4160	0	0.4160	0.4160
	2/5/09	1.2480	0	1.2480	1.2480
	2/13/09	0.4160	0	0.4160	0.4160
	2/18/09	0.4160	0	0.4160	0.4160
	2/19/09	0.4160	0	0.4160	0.4160
	3/2/09	0.2080	0	0.2080	0.2080
	3/3/09	0.2080	0	0.2080	0.2080
	3/4/09	0.2080	0	0.2080	0.2080
	3/5/09	0.4160	0	0.4160	0.4160
	3/16/09	0.2080	0	0.2080	0.2080
	3/23/09	0.2080	0	0.2080	0.2080
	4/1/09	0.6240	0	0.6240	0.6240
	4/13/09	0.2080	0	0.2080	0.2080
	4/20/09	0.2080	0	0.2080	0.2080
	4/22/09	0.0000	0	0.2080	0.2080
	4/27/09	0.0000	0.2080	0.2080	0.2080
	6/1/09	0.2080	0	0.2080	0.2080
	6/8/09	0.2080	0	0.2080	0.2080
	6/9/09	0.4160	0	0.4160	0.4160
	6/10/09	0.6240	0	0.6240	0.6240
	6/16/09	0.4160	0.2080	0.6240	0.6240
	6/17/09	0.2080	0	0.2080	0.2080
	6/18/09	0.0000	0.2080	0.2080	0.2080
	6/19/09	0.4160	0	0.4160	0.4160
	6/23/09	0.0000	0.2080	0.2080	0.2080
	6/26/09	0.4160	0	0.4160	0.4160
	6/29/09	0.6240	0	0.6240	0.6240
	6/30/09	0.8320	0	0.8320	0.8320

Treatability Group	Shipment Date	Existing Inventory Volume (m ³)	New Covered Volume (m ³)	Total Volume Removed from Inventory (Existing + New Covered) (m ³)	Total Volume Shipped (m ³)
	7/6/09	0.2080	0	0.2080	0.2080
	7/7/09	0.2080	0.8320	1.0400	1.0400
	7/9/09	0.2080	0	0.2080	0.2080
	7/13/09	0.2080	0	0.2080	0.2080
	7/14/09	0.2080	0	0.2080	0.2080
	7/15/09	0.2080	0.2080	0.4160	0.4160
	7/16/09	0.2080	0	0.2080	0.2080
	7/17/09	0.2080	0	0.2080	0.2080
	7/28/09	0.2080	0	0.2080	0.2080
	7/31/09	0.8320	0	0.8320	0.8320
	8/11/09	0.4160	0	0.4160	0.4160
	8/13/09	0.4160	0	0.4160	0.4160
	8/19/09	0.0000	0.2080	0.2080	0.2080
	8/26/09	1.6640	0.4160	2.0800	2.0800
	9/23/09	0.6240	0	0.6240	0.6240
	9/25/09	0.2080	0	0.2080	0.2080
	9/28/09	0.2080	0	0.2080	0.2080
Total Solidified Organic and Inorganic Waste		21.0080	2.4960	23.5040	23.5040
Total Waste Shipped to WIPP		287.1885	13.5200	300.7085	277.2140
Grand Total MTRU Waste (Existing Inventory + New Covered) Shipped to WIPP			300.7085		

APPENDIX G. CURRENT YEAR MTRU INVENTORY – ADMINISTRATIVE ADJUSTMENTS

Table G-1: ~~FY09-FY10~~ MTRU Administrative Adjustments to TA-54 Inventory

Treatability Group	Administrative Adjustment	Volume (m ³)
<i>Cemented Sludge</i>	Reclassified as MLLW (LA-W935) ¹	-180.9735- <u>121.479</u>
	Repacked into 0.2080 <u>37.232</u> m ³ <i>Combustible-Noncombustible Waste</i> and 0.2080 <u>0.208</u> m ³ <i>Noncombustible Waste</i>	-0.2080 <u>-44.080</u>
	Recharacterized as Combustible Waste	-0.3215
	Database correction (containers had been transferred to MLLW in prior years)	-0.624
	Volume changes resulting from removal or addition of overpacks	<u>3.82102.346</u>
<i>Cemented Sludge Net Adjustment</i>		-163.200- <u>177.6820</u>
<i>Combustible-Noncombustible Waste</i>	Reclassified as MLLW (LA-W935) ¹	-7.7345 <u>-10.192</u>
	Volume change due to removal or addition of overpack	<u>0.11350.455</u>
	Added as a result of recharacterizing TRU inventory as MTRU during repacking	<u>44.512064.896</u>
	Recharacterized as TRU after removal of WIPP-prohibited items during repacking	-1.040
	Added as a result of recharacterizing TRU waste as MTRU during quality control activities	3.5830
	Repacked into 55.5366 <u>7.808</u> m ³ <i>Combustible-Noncombustible Waste</i> and 4.4560 <u>0.832</u> m ³ <i>Noncombustible Waste</i>	-53.8720 <u>-66.523</u>
	Additional covered inventory transferred from TA-55 covered inventory	<u>0.20805.908</u>
	Added as a result of repacking <i>Cemented Sludge</i> waste	<u>0.208037.232</u>
	Added as a result of repacking <i>Combustible-Noncombustible Waste</i>	<u>55.120067.808</u>
	Added as a result of repacking <i>Combustible Waste</i>	<u>17.26409.776</u>
	Added as a result of repacking <i>Glass Waste</i>	<u>0.41600.208</u>
	Added as a result of repacking <i>Leaded Glovebox Waste</i>	<u>4.16005.616</u>
	Added as a result of repacking <i>Metallic Waste</i>	<u>4.16003.120</u>
	Added as a result of repacking <i>Non-Combustible Waste</i>	<u>0.41600.416</u>
	Added as a result of repacking Solidified Inorganic and Organic Waste	5.200
Added as a result of accumulating MTRU WIPP-	1.040	

Treatability Group	Administrative Adjustment	Volume (m ³)
	<u>prohibited items during repacking</u>	
	<u>Adjustment for rounding FY10 end-of-year volumes in to 3 decimal places</u>	<u>2.718</u>
	<u>Added as a result of correcting database waste codes for four containers (three oversize)</u>	<u>22.4780</u>
	<u>Waste transferred to TA 55</u>	<u>-0.2080</u>
Combustible-Noncombustible Net Adjustment		<u>126.63890.8240</u>
<i>Combustible Waste</i>	Reclassified as MLLW (LA-W935) ¹	<u>-4.8975-2.704</u>
	Repacked into <u>17.45379.776 m³ Combustible-Noncombustible Waste</u> and <u>0.41600.624- m³ Noncombustible Waste</u>	<u>-17.4537-9.379</u>
	<u>Recharacterized as TRU waste after removal of WIPP-prohibited items during repacking</u>	<u>-3.328</u>
	<u>Database correction (containers should not have appeared in FY09 end-of-year inventory)</u>	<u>-0.416</u>
	<u>Adjustment for rounding FY10 end-of-year volumes in to 3 decimal places</u>	<u>0.002</u>
	<u>Added as a result of recharacterizing TRU as MTRU</u>	<u>0.5295</u>
	<u>Added from recharacterizing Cemented Sludge as Combustible Waste</u>	<u>0.3215</u>
Combustible Waste Net Adjustment		<u>-15.825-21.5002</u>
<i>Glass Waste</i>	Reclassified as MLLW (LA-W935) ¹	<u>-0.4160-0.208</u>
	Repacked into <u>0.41600.208 m³ Combustible-Noncombustible Waste</u>	<u>-0.4160-0.208</u>
	<u>Recharacterized as TRU waste after removal of WIPP-prohibited items during repacking</u>	<u>-0.208</u>
	<u>Recharacterized as MTRU from TRU inventory</u>	<u>0.2080</u>
Glass Waste Net Adjustment		<u>-0.624-0.6240</u>
<i>Leaded Glovebox Waste</i> <i>Leaded Glovebox Waste</i>	Reclassified as MLLW (LA-W935) ¹	<u>-0.416</u>
	Repacked into <u>4.16005.616 m³ Combustible-Noncombustible Waste</u>	<u>-4.1600-5.616</u>
Leaded Glovebox Waste Net Adjustment		<u>-6.032-4.1600</u>
<i>Metallic Waste</i>	Reclassified as MLLW (LA-W935) ¹	<u>-0.6240-3.120</u>
	Repacked into <u>4.16003.120 m³ Combustible-Noncombustible Waste</u> and <u>0.2080 m³ Noncombustible Waste</u>	<u>-4.1600-3.139</u>
	<u>Recharacterized as TRU waste after removal of WIPP-prohibited items during repacking</u>	<u>-0.416</u>
	<u>Newly retrieved shaft waste recharacterized as MTRU (Metallic Waste)</u>	<u>0.9900</u>
	<u>Recharacterized as MTRU from TRU inventory</u>	<u>1.8991</u>
Metallic Waste Net Adjustment		<u>-6.675-1.8949</u>
<i>Noncombustible Waste</i>	Reclassified as MLLW (LA-W935) ¹	<u>-1.04000</u>
	Repacked into <u>0.4160 m³ Combustible-Noncombustible Waste</u> and <u>0.208 m³ Noncombustible Waste</u>	<u>-0.4160-0.416</u>

Treatability Group	Administrative Adjustment	Volume (m ³)
	<u>Recharacterized as TRU waste after removal of WIPP-prohibited items during repacking</u>	<u>-2.288</u>
	Added as a result of recharacterizing TRU waste as MTRU waste	<u>0.94554.576</u>
	<u>Added as a result of repacking <i>Cemented Sludge</i></u>	<u>0.208</u>
	<u>Added as a result of repacking <i>Cemented Sludge</i></u>	<u>0.2080</u>
	Added as a result of repacking <i>Combustible-Noncombustible Waste</i>	<u>1.45600.832</u>
	<u>Added as a result of repacking <i>Noncombustible Waste</i></u>	<u>0.208</u>
	Added as result of repacking <i>Combustible Waste</i>	<u>0.41600.624</u>
	<u>Adjustment for rounding FY10 end-of-year volumes in to 3 decimal places</u>	<u>0.003</u>
	<u>Added as a result of repacking <i>Metallic Waste</i></u>	<u>0.2080</u>
	<u>Added as a result of recharacterizing TRU waste as MTRU waste during repacking</u>	<u>5.6160</u>
	<u>Noncombustible Waste net-Net adjustmentAdjustment</u>	<u>3.7477.3935</u>
<i>Solidified Inorganic and Organic Waste</i>	<u>Recharacterized as TRU from MTRU inventoryReclassified as MLLW (LA-W935)¹</u>	<u>-0.4160-2.288</u>
	<u>Repacked into 5.200 m³ <i>Combustible-Noncombustible Waste</i></u>	<u>-5.200</u>
	<u>Volume change due to removal or addition of overpack</u>	<u>0.795</u>
	<u>Adjustment for rounding FY10 end-of-year volumes in to 3 decimal places</u>	<u>0.515</u>
	<u>Recharacterized as MTRU (<i>Solid Inorganic and Organic Waste</i>) from TRU inventory</u>	<u>0.2080</u>
	<u>Additional covered inventory transferred from TA-55 covered inventory</u>	<u>0.6240</u>
	<u>Added as a result of recharacterizing TRU waste during quality control activities</u>	<u>0.2080</u>
	<u>Removed as a result of recharacterizing MTRU waste as TRU during quality control activities</u>	<u>-0.4160</u>
	<u>Database entry corrected</u>	<u>0.0030</u>
	<u>Transferred to TA-55 covered MTRU inventory</u>	<u>-0.2080</u>
<i>Solidified Inorganic and Organic Waste Net Adjustment</i>		<u>-6.1780.0030</u>
<i>Total #Net TA-54 aAdjustment</i>		<u>-68.149-107.6406</u>

¹ The MTRU volume removed from the STP inventory was calculated using the MTRU standard conversion (55 gal = 0.208 m³); when that volume is recalculated in the MLLW inventory using the MLLW conversion (55 gal = 0.2082 m³ and 85 gal = 0.3218), the total volume transferred increases from 195.140.8935.407 m³ to 195.9851140.5406 m³ (as shown in Appendix C).

Table G-2: FY09-FY10 MTRU Administrative Adjustments for CMR and TA-55 Inventory

Location	Treatability Group	Administrative Adjustment	Volume
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			(m ³)
CMR	<i>Combustible-Noncombustible Waste</i>	<u>Adjustment for updated FY09 inventory data</u> <u>No Changes</u>	0.20800
		<u>Rounding Adjustment</u>	-0.0287
Net Adjustments CMR Inventory			<u>0.17930</u>
TA-55	<i>Combustible-Noncombustible Waste</i>	<u>New covered waste transferred to TA-54⁺ Waste returned to TA-55 in FY09 was repacked with other STP waste</u>	-0.2080
		<u>Added due to recategorization of Combustible Waste to Combustible/Noncombustible Waste</u>	<u>1.248</u>
		<u>Added due to recategorization of Solidified Organic and Inorganic Waste to Combustible/Noncombustible Waste</u>	<u>0.323</u>
	<i>Combustible-Noncombustible Waste</i>	<u>Existing waste transferred to TA-54</u>	-0.2080
Net Adjustments TA-55 Combustible-Noncombustible Waste			<u>1.363-</u> <u>0.4160</u>
<u>TA-55</u>	<u>Combustible Waste</u>	<u>Recategorized as Combustible-Noncombustible Waste</u>	<u>-1.248</u>
Net Adjustment TA-55 Combustible Waste			<u>-1.248</u>
TA-55	<i>Metallic Waste</i>	<u>Rounding adjustment</u>	<u>0.00200.062</u>
		<u>Volume increase due to overpacking</u>	<u>1.238</u>
		<u>Existing waste transferred to TA-54 and recategorized as Combustible-Noncombustible Waste in the TA-54 inventory</u>	<u>-3.800</u>
		<u>Recategorized as Noncombustible Waste</u>	<u>-2.316</u>
Net adjustments TA-55 Combustible-Noncombustible Metallic Waste			<u>-</u> <u>4.8160.0020</u>
<u>TA-55</u>	<u>Noncombustible Waste</u>	<u>Existing waste transferred to TA-54 and assigned to Combustible-</u>	<u>-1.900</u>

		<u>Noncombustible Waste in the TA-54 inventory</u>	
		<u>Added due to recategorization of <i>Metallic Waste</i> to <i>Combustible/Noncombustible Waste</i></u>	<u>2.316</u>
<u>Net Adjustment TA-55 Noncombustible Waste</u>			<u>0.416</u>
TA-55	<i>Solid Organic and Inorganic Waste</i>	<u>Database correction (container that had been transferred to TA-54 in FY09 has been removed from FY09 inventory) 1-gal (0.0038 m³) waste container repacked</u>	<u>-0.208-0.0038</u>
		<u>Recategorized as <i>Combustible-Noncombustible Waste</i></u>	<u>-0.323</u>
		<u>Rounding adjustment</u>	<u>0.001</u>
		<u>Repacking 1-gal container into a 55-gal container</u>	<u>0.2080</u>
	<i>Solid Organic and Inorganic Waste</i>	<u>New covered waste transferred to TA-54[†]</u>	<u>-0.2080</u>
	<i>Solid Organic and Inorganic Waste</i>	<u>Existing waste transferred to TA-54</u>	<u>-0.6240</u>
	<i>Solid Organic and Inorganic Waste</i>	<u>Waste transferred from TA-54 to TA-55</u>	<u>0.2080</u>
<u>Net Adjustments TA-55 Solid Organic and Inorganic Waste</u>			<u>--0.530</u> <u>0.4198</u>
<u>Total Net TA-55/CMR Adjustments</u>			<u>-4.815-</u> <u>0.6545</u>

[†]Transfers of new covered waste to TA-54 are included in Table E-1 under new covered waste and, therefore, do not have equivalent entries as administrative adjustments in Table G-1.

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 TN; Diversified Scientific Services, Inc. in TN; and Perma-Fix North West in WA Washington)	Florida
Waste Control Specialists	Texas
EnergySolutions of Utah (including Bear Creek Operations <u>in TN</u>)	Utah
Bear Creek Operations	Tennessee
Nuclear Fuel Services (NFS)	Tennessee
Integrated Environmental Services	Tennessee
NSSI	Texas

APPENDIX I. CORRESPONDENCE

There were no expedited shipment letters in FY10.

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 (m³)	Reference
<u>4/23/2009</u>	<u>3.1.11</u>	<u>LA-W908</u>	<i>Nonhalogenated Organic Liquids</i>	<u>0.0379</u>	<u>ENV-RRO-09-028</u>

*MWIR is Mixed Waste Inventory Report

Table I-2: Correspondence

<u>Letter Date</u>	<u>Description</u>	<u>Letter Number</u>	<u>Revision Reference</u>	<u>Listed in Revision 20 (Appendix I)</u>
<u>10/1/2009</u>	<u>Notice of Completion of Offsite Waste Shipment Activity 3.3.4</u>	<u>ENV-RRO-09-068</u>	<u>20</u>	<u>Yes</u>
<u>10/9/2009</u>	<u>Response to NMED Notice of Disapproval of FY08 Annual Update</u>	<u>ENV-RRO-09-069</u>	<u>19</u>	<u>Yes</u>
<u>10/19/2009</u>	<u>Notice of Completion of Offsite Waste Shipment Activity 3.3.4</u>	<u>ENV-RRO-09-072</u>	<u>20</u>	<u>Yes</u>
<u>10/19/2009</u>	<u>Notice of Completion of Offsite Waste Shipment Activity 3.3.4</u>	<u>ENV-RRO-09-073</u>	<u>20</u>	<u>Yes</u>
<u>10/22/2009</u>	<u>Notice of Completion of Offsite Waste Shipment Activity 3.2</u>	<u>ENV-RRO-09-075</u>	<u>20</u>	<u>Yes</u>
<u>10/22/2009</u>	<u>Notice of Completion of Offsite Waste Shipment Activity 3.2</u>	<u>ENV-RRO-09-076</u>	<u>20</u>	<u>Yes</u>

<u>Letter Date</u>	<u>Description</u>	<u>Letter Number</u>	<u>Revision Reference</u>	<u>Listed in Revision 20 (Appendix I)</u>
<u>10/26/2009</u>	<u>Notice of Completion of Offsite Waste Shipment Activities 3.1.8 and 3.1.9</u>	<u>ENV-RRO-09-074</u>	<u>20</u>	<u>Yes</u>
<u>11/6/2009</u>	<u>Notice of Completion of Offsite Waste Shipment Activity 3.2(K)</u>	<u>ENV-RRO-09-080</u>	<u>20</u>	<u>Yes</u>
<u>11/9/2009</u>	<u>Notice of Completion of Offsite Waste Shipment Activity 3.3.4</u>	<u>ENV-RRO-09-079</u>	<u>20</u>	<u>Yes</u>
<u>11/9/2009</u>	<u>Notice of Completion of Offsite Waste Shipment Activity 3.2(K)</u>	<u>ENV-RRO-09-082</u>	<u>20</u>	<u>Yes</u>
<u>11/10/2009</u>	<u>Notice of Completion of Offsite Waste Shipment Activity 4.0, FY09 Q4</u>	<u>ENV-RRO-09-078</u>	<u>20</u>	<u>Yes</u>
<u>12/14/2009</u>	<u>Notice of Completion of Offsite Waste Shipment Activity 3.3.4</u>	<u>ENV-RRO-09-085</u>	<u>21</u>	<u>No</u>
<u>12/22/2009</u>	<u>Notice of Completion of Offsite Waste Shipment Activity 3.3.4</u>	<u>ENV-RRO-09-087</u>	<u>21</u>	<u>No</u>
<u>1/8/2010</u>	<u>Notice of Completion of Offsite Waste Shipment Activity 3.3.4</u>	<u>ENV-RRO-10-002</u>	<u>21</u>	<u>No</u>
<u>2/4/2010</u>	<u>Correction of Information in Notices of Completion Activity 3.3.4 (ENV-RRO-09-073, 09-072, 09-059)</u>	<u>ENV-RRO-10-008</u>	<u>20</u>	<u>Yes</u>
<u>2/5/2010</u>	<u>Notice of Completion of Offsite Waste Shipment Activity 4.0, FY10 Q1</u>	<u>ENV-RRO-10-007</u>	<u>21</u>	<u>No</u>

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<u>Letter Date</u>	<u>Description</u>	<u>Letter Number</u>	<u>Revision Reference</u>	<u>Listed in Revision 20 (Appendix I)</u>
<u>2/18/2010</u>	<u>Notice of Completion of Offsite Waste Shipment Activity 3.2(K)</u>	<u>ENV-RRO-10-011</u>	<u>21</u>	<u>No</u>
<u>3/18/2010</u>	<u>Proposed Extension of Compliance Dates for Activity 3.2(J), FY09 Annual Update, Rev 20</u>	<u>ENV-RRO-10-014</u>	<u>20</u>	<u>Yes</u>
<u>3/31/2010</u>	<u>Submittal of FY09 Annual Update, Rev 20</u>	<u>ENV-RRO-10-015</u>	<u>20</u>	<u>Yes</u>
<u>4/2/2010</u>	<u>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)</u>	<u>ENV-RRO-10-016</u>	<u>19</u>	<u>Yes</u>
<u>4/8/2010</u>	<u>Summary of Correspondence with Offsite TSDFs</u>	<u>ENV-RRO-10-017</u>	<u>20</u>	<u>Yes</u>
<u>4/16/2010</u>	<u>Notice of Completion of Offsite Waste Shipment Activity 3.3.4</u>	<u>ENV-RRO-10-019</u>	<u>21</u>	<u>No</u>
<u>4/16/2010</u>	<u>Notice of Completion of Offsite Waste Shipment Activity 3.2(K)</u>	<u>ENV-RRO-10-020</u>	<u>21</u>	<u>No</u>
<u>4/18/2010</u>	<u>Summary of Correspondence with Offsite TSDFs</u>	<u>ENV-RRO-10-017</u>	<u>20</u>	
<u>4/20/2010</u>	<u>Notice of Completion of Offsite Waste Shipment Activity 4.0, FY10 Q2</u>	<u>ENV-RRO-10-021</u>	<u>21</u>	<u>No</u>
<u>6/25/2010</u>	<u>Clarification and Correction of Offsite Waste Shipment Notifications, FY09 Q1 (ENV-RRO-011R) and Q2 (ENV-RRO-09-033)</u>	<u>ENV-ES-10-119</u>	<u>20</u>	<u>Yes</u>

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<u>Letter Date</u>	<u>Description</u>	<u>Letter Number</u>	<u>Revision Reference</u>	<u>Listed in Revision 20 (Appendix I)</u>
<u>6/30/2010</u>	<u>Response to June 3, 2010, Notice of Disapproval of the STP FY09 Update, Rev 20 and Correction to Letter ENV-RRO-09-080</u>	<u>ENV-ES-10-126</u>	<u>20</u>	<u>Yes</u>
<u>8/2/2010</u>	<u>Notice of Completion of Offsite Waste Shipment Activity 4.0, FY10 Q3</u>	<u>ENV-ES-10-142</u>	<u>21</u>	<u>No</u>
<u>11/2/2010</u>	<u>Notice of Completion of Offsite Waste Shipment Activity</u>	<u>ENV-ES-10-2134</u>	<u>21</u>	<u>No</u>
<u>11/2/2010</u>	<u>Notice of Completion of Offsite Waste Shipment Activity 4.0, FY 10 Q4</u>	<u>ENV-ES-10-2143</u>	<u>21</u>	<u>No</u>
<u>3/10/2011</u>	<u>Correction of Offsite Waste Shipment Notifications, Activity 4.0, FY10 Q1 (ENV-RRO-10-007) and FY10 Q3 (ENV-ES-10-142)</u>	<u>ENV-ES-11-037</u>	<u>21</u>	<u>No</u>
<u>3/31/2011</u>	<u>Submittal of FY10 STP Annual Update, Revision 21</u>	<u>ENV-ES-11-0063</u>	<u>21</u>	<u>No</u>
<u>6/10/2011</u>	<u>Resubmittal of STP FY10 Update and Proposed Revision 21</u>	<u>ENV-ES-11-0134</u>	<u>21</u>	<u>No</u>
<u>10/7/2011</u>	<u>Response to September 21, 2011 Notice of Disapproval of the STP FT10 Update and Rev 21.0 Proposal</u>	<u>ENV-ES-11-0222</u>	<u>21</u>	<u>No</u>
Letter Date	Description	Letter Number	Revision Reference	Listed in Revision 19 (Table 2.1B)

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Letter Date	Description	Letter Number	Revision Reference	Listed in Revision 19 (Table 2.1B)
10/20/2008	Information Requested at the 10/14/08 Meeting by the NMED on FY07 Update and Revision 18	ENV-RCRA-08-207	Revision 18	Yes
10/22/2008	Notice of Completion of Offsite Waste Shipment Activities, CP, STP, LANL (Activities 3.1.5 and 3.1.11)	ENV-RCRA-08-216	Revision 19	Yes
10/27/52008	Response to NMED's October 23, 2008 Disapproval of the LANL FY07 STP Annual Update	ENV-RCRA-08-220	Revision 18	Yes
11/10/2008	Notice of Completion of Offsite Waste Shipment Activity 4.0 in the Compliance Plan Volume, STP, LANL, FFCO, FY08 4 th Q WIPP Shipment	ENV-RCRA-08-222	Revision 19	Yes
11/21/2008	Request for Withdrawal of Proposed Extension Date for Milestone Activity 3.1.5 (A) in the LANL FY07 Compliance Plan Volume, STP	ENV-RCRA-08-234	Revision 18	Yes
1/29/2009	Federal Facility Compliance Order— Notice of Change of Project Leader	ENV-DO-09-001	NA	No
2/9/2009	Federal Facility Compliance Order— Notice of Change of Project Manager	NNSA/LASO 17GH-01	NA	No
2/10/2009	Notice of Completion of Offsite Waste Shipment, FY09, 1 st Q, Activity 4.0, Compliance Plan Volume, STP, FFCO, LANL	ENV-RRO-09-011	Revision 20	No
2/17/2009	Resubmittal of Notice of Completion of Offsite Waste Shipment, FY09, 1 st Q, Activity 4.0, Compliance Plan, STP, FFCO, LANL	ENV-RRO-09-011R	Revision 20	No

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2/25/2009	Notice of Completion of Offsite Waste Shipment, Activity 3.3.4, Compliance Plan Volume, STP, LANL	ENV-RRO-09-013	Revision 20	No
3/25/2009	Request for Extension of Compliance Dates for Milestone Activities (3.18 and 3.19), LANL, FFCO, STP, Revision 18	ENV-RRO-09-017	Revision 18	Yes
3/26/2009	Proposed Administrative Adjustments for the FY08 STP, Revision 19	ENV-RRO-09-015	Revision 19	Yes
3/30/2009	Submittal of STP, FY08 Update, LANL, FFCO, October 4, 1995	ENV-RRO-09-018	Revision 19	Yes
4/3/2009	Correction of Information in the Proposed Extension of Milestones in the STP, FFCO, LANL, Letter Dated March 13, 2008 (ENV-RCRA-08-213)	ENV-RRO-09-021	Revision 18	Yes
4/8/2009	Notice of Expedited Shipment of Waste	Email to Rebecca Kay	Revision 20	No
4/23/2009	Notice of Completion of Expedited Offsite Waste Shipment Activity (3.1.11) in the Compliance Plan, STP, LANL	ENV-RRO-09-028	Revision 20	No
4/28/2009	Notice of Completion of Offsite Waste Shipment Activities (3.3.4) in the Compliance Plan, STP, FFCO, LANL	ENV-RRO-09-029	Revision 20	No
4/30/2009	Correction of FY08-Q3 and-Q4 MTRU Shipments	ENV-RRO-09-020	Revision 19	Yes
5/7/2009	Notice of Completion of Offsite Waste Shipment Activities (3.3.4) in the Compliance Plan, STP, FFCO, LANL	ENV-RRO-09-030	Revision 20	No

Letter Date	Description	Letter Number	Revision Reference	Listed in Revision 19 (Table 2.1B)
5/14/2009	Notice of Completion of Offsite Waste Shipment Activities (3.3.4) in the Compliance Plan, STP, FFCO, LANL	ENV-RRO-09-031	Revision 20	No
5/14/2009	Notice of Completion of Offsite Waste Shipment, FY09 2 nd Q, Activity 4.0, CP, STP, FFCO, LANL	ENV-RRO-09-033	Revision 20	No
5/20/2009	Correction of Information in Notice of Completion Letters (ENV-RCRA-08-103, 08-015, and 08-197), STP, FFCO, LANL	ENV-RRO-09-034	Revision 18	Yes
5/20/2009	Correction of Information in Proposed Extension of Milestones (ENV-RRO-09-017), STP, FFCO, LANL	ENV-RRO-036	Revision 19	Yes
5/20/2009	Certification of Information in Previous Correspondence Relating to the STP, FFCO, LANL	ENV-RRO-09-037	Revision 18 and 19	Yes
5/20/2009	Resubmittal of STP, FY 08 Update, LANL, FFCO, October 4, 1995	ENV-RRO-09-038	Revision 19	Yes
5/29/2009	Notice of Completion of Offsite Waste Shipment Activities (3.3.4) in the CP, STP, FFCO, LANL	ENV-RRO-09-039	Revision 20	No
5/29/2009	Notice of Completion of Offsite Waste Shipment Activities (3.2) in the CP, STP, FFCO, LANL	ENV-RRO-09-040	Revision 20	No
5/29/2009	Notice of Completion of Offsite Waste Shipment Activities (3.1.4) in the CP, STP, FFCO, LANL	ENV-RRO-09-041	Revision 20	No
6/15/2009	Notice of Completion of Offsite Waste Shipment Activities (3.3.4) in the CP, STP, FFCO, LANL	ENV-RRO-09-043	Revision 20	No

Letter Date	Description	Letter Number	Revision Reference	Listed in Revision 19 (Table 2.1B)
6/30/2009	Notice of Completion of Offsite Waste Shipment Activities (3.3.4) in the CP, STP, FFCO, LANL	ENV-RRO-09-044	Revision 20	No
7/24/2009	Notice of Completion of Offsite Waste Shipment Activities (3.3.4) in the CP, STP, FFCO, LANL	ENV-RRO-09-046	Revision 20	No
7/24/2009	Notice of Completion of Offsite Waste Shipment Activities (3.3.4) in the CP, STP, FFCO, LANL	ENV-RRO-09-047	Revision 20	No
7/24/2009	Notice of Completion of Offsite Waste Shipment Activities (3.2) in the CP, STP, FFCO, LANL	ENV-RRO-09-048	Revision 20	No
8/5/2009	Notice of Completion of Offsite Waste Shipment, FY09 3 rd -Q, Activity 4.0, CP, STP, FFCO, LANL	ENV-RRO-09-049	Revision 20	No
8/11/2009	Notice of Completion of Offsite Waste Shipment Activities (3.3.4) in the CP, STP, FFCO, LANL	ENV-RRO-09-056	Revision 20	No
8/17/2009	Notice of Completion of Offsite Waste Shipment Activities (3.2) in the CP, STP, FFCO, LANL	ENV-RRO-09-057	Revision 20	No
8/17/2009	Notice of Completion of Offsite Waste Shipment Activities (3.3.4) in the CP, STP, FFCO, LANL	ENV-RRO-09-058	Revision 20	No
8/17/2009	Notice of Completion of Offsite Waste Shipment Activities (3.3.4) in the CP, STP, FFCO, LANL	ENV-RRO-09-059	Revision 20	No
9/8/2009	Proposed Deletion of Waste from the STP, FFCO, LANL	ENV-RRO-09-061	NA	No
9/18/2009	Notice of Completion of Offsite Waste Shipment Activities (3.3.4) in the CP, STP, FFCO, LANL	ENV-RRO-09-063	Revision 20	No

Letter Date	Description	Letter Number	Revision Reference	Listed in Revision 19 (Table 2.1B)
9/18/2009	Notice of Completion of Offsite Waste Shipment Activities (3.3.4) in the CP, STP, FFCO, LANL	ENV-RRO-09-064	Revision 20	No
10/1/2009	Notice of Completion of Offsite Waste Shipment Activities (3.3.4) in the CP, STP, FFCO, LANL	ENV-RRO-09-068	Revision 20	No
10/9/2009	Response to the September 16, 2009, Notice of Disapproval of the STP, FY08 Update, and Revision 19.0 Proposal for LANL's FFCO Submitted May 20, 2009	ENV-RRO-09-069	Revision 19	Yes
10/19/2009	Notice of Completion of Offsite Waste Shipment Activities (3.3.4) in the CP, STP, FFCO, LANL	ENV-RRO-09-072	Revision 20	No
10/19/2009	Notice of Completion of Offsite Waste Shipment Activities (3.3.4) in the CP, STP, FFCO, LANL	ENV-RRO-09-073	Revision 20	No
10/22/2009	Notice of Completion of Offsite Waste Shipment Activities (3.2K) in the CP, STP, FFCO, LANL	ENV-RRO-09-075	Revision 20	No
10/26/2009	Notice of Completion of Offsite Waste Shipment Activities (3.1.8 and 3.1.9) in the CP, STP, FFCO, LANL	ENV-RRO-09-074	Revision 20	No
10/26/2009	Notice of Completion of Offsite Waste Shipment Activities (3.2K) in the CP, STP, FFCO, LANL	ENV-RRO-09-076	Revision 20	No
11/6/2009	Notice of Completion of Offsite Waste Shipment Activities (3.2 K) in the CP, STP, FFCO, LANL	ENV-RRO-09-080	Revision 20	No
11/9/2009	Notice of Completion of Offsite Waste Shipment Activities (3.3.4) in the CP, STP, FFCO, LANL	ENV-RRO-09-079	Revision 20	No

Letter Date	Description	Letter Number	Revision Reference	Listed in Revision 19 (Table 2.1B)
11/9/2009	Notice of Completion of Off-Site Waste Shipment Activities (3.2 K) in the CP, STP, FFCO, LANL	ENV-RRO-09-082	Revision 20	No
11/10/2009	Notice of Completion of Offsite Waste Shipment, FY09-4 th Q, Activity 4.0, CP, STP, FFCO, LANL	ENV-RRO-09-078	Revision 20	No
2/4/2010	Correction of Waste Volumes in Notices of Completion of Offsite Waste Shipment Activities (3.3.4) (Letters ENV-RRO-09-073, 072 and 059)	ENV-RRO-10-008	Revision 20	No
3/18/10	Proposed Extension of Milestones for LA-W934 High Activity Waste, CP, STP, FFCO, LANL	ENV-RRO-10-014	Revision 20	No
3/31/2010	Submittal of FY09 Update and Revision 20, STP, FFCO, LANL	ENV-RRO-10-015	Revision 20	No
4/2/2010	Correction of Waste Volumes in Notices of Completion of Offsite Waste Shipment Activities (3.3.4) (Letters ENV-RRO-09-013, 031, 059, and 10-11) and (4.0) (Letter ENV-RRO-09-011)	ENV-RRO-10-016	Revision 20	No
4/8/2010	Additional Correspondence Information for Proposed Extension of Compliance Date for Activity 3.2(J)	ENV-RRO-10-017	Revision 20	No
6/25/2010	Clarification and Correction of Off-Site Waste Shipment Notifications, FY09-1 st and 2 nd Q, Activity 4.0, CP, STP, FFCO, LANL (Letters ENV-RRO-011R and 09-033)	ENV-ES-10-119	20	No

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Letter Date	Description	Letter Number	Revision Reference	Listed in Revision 19 (Table 2.1B)
6/30/2010	Response to the June 3, 2010, Notice of Disapproval of the STP, FY09 Update and Revision 20 Proposal for LANL's FFCO Submitted March 31, 2010, and Correction to Letter ENV-RRO-09-080	ENV-ES-10-	20	No

APPENDIX J. HISTORY OF CHANGES TO THE CP AND FFCO

As discussed in Part III (CP), Section 1.2, the STP ~~Compliance Plan~~ 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 ~~19~~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 <i>Annual Updates</i> (and certain other items) to several treatability groups, added Activities and Compliance Dates, added CP Appendices, and deleted treated items

Action	Document Modified	Effective Date	Effect on FFCO/STP
Rev. 6.0	STP/CP	7/31/98	Added volumes reported in FY97 <i>Annual Update</i> 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 <i>Annual Update</i> to certain treatability groups.
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 <i>Annual Update</i> to certain treatability groups.
Rev. 11.0	STP/CP	4/18/01	Added and deleted volumes reported in FY00 <i>Annual Update</i> .
Rev. 12.0	STP/CP	3/13/02	Added and deleted volumes reported in FY01 <i>Annual Update</i> . 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 <i>Annual Update</i>
Rev 14.0	STP/CP	1/5/05	Added and deleted volumes reported in FY03 <i>Annual Update</i>
Rev 15.0	STP/CP	8/16/05	Added and deleted volumes reported in FY04 <i>Annual Update</i>

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Action	Document Modified	Effective Date	Effect on FFCO/STP
Rev 16.0	STP/CP	12/12/06	Added and deleted volumes reported in FY05 <i>Annual Update</i> . 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 <i>Annual Update</i> . 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 <i>Annual Update</i> . 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	2/5/2010	Added and deleted volumes reported in FY08 <i>Annual Update</i> . 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 <i>10-100 nCi/g Waste</i>
Rev 20.0	STP/CP	TBD 11/8/2010	Added and deleted volumes reported in FY09 <i>Annual Update</i> . Proposed an extended compliance date for CP Activity 3.2(J)
<u>Rev 21.0</u>	<u>STP/CP</u>	<u>TBD</u>	<u>Added and deleted volumes reported in FY10 <i>Annual Update</i>. Proposed new compliance date for CP Activity 3.1.8(A)</u>

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)