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July 31, 1998

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STP Project Manager  
Office of Environments and Projects  
Albuquerque Operations Office  
Los Alamos Area Office  
Los Alamos, NM 87544

Kenneth Hargis  
STP Project Manager  
Los Alamos National Laboratory  
Los Alamos, NM 87545

**RE: Approval of Revision 6.0 to the CPV**

Dear Mr. Plum and Mr. Hargis:

Department of Energy (DOE) and Los Alamos National Laboratory/University of California (LANL/UC) had requested Revision 6.0 to the Federal Facility Compliance Order (FFCO) Site Treatment Plan (STP) Compliance Plan Volume (CPV) (Exhibit A).

The requested revision met the requirements of the FFCO Section X, "Revisions". A public notice was issued followed by a thirty day public comment period. No public comments were received. New Mexico Environment Department (NMED) Hazardous and Radioactive Materials Bureau (HRMB) has reviewed the proposed revision and approves of its finalization.

Please find enclosed a hard and diskette copy of the final revision; the redline strikeout version as well as the clean copy version. Please see the table below for a description of the diskette copy file names and descriptions. This final version is identical to the draft version submitted by DOE and LANL/UC except that the word "certain" has been inserted in the last right block (last row, last column) on able A-1, page 39, for clarification.



1902

8/3/98  
H. L. Plum

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H. L. Plum  
K. Hargis  
July 31, 1998  
page 2

File Name	Description
r6_appb1.fin	Rev. 6 Appendix B1 - final- clean copy
r6_appb2.fin	Rev. 6 Appendix B2 - final- clean copy
r6apb1rd.fin	Rev. 6 Appendix B - final- redline version
r6_clf.wpd	Rev. 6 Text - final -clean copy
r6_clf.wpd	Rev. 6 Text - final -redline version

Please contact me at (505) 827-1867 if there are any questions relating to this letter or any other CPV matters.

Sincerely,



Janice Archuleta,  
FFCO Project Manager

ja

c (without enclosure): Benito Garcia, Chief, Hazardous and Radioactive Materials Bureau  
Susan McMichael, NMED/OGC  
John Tymkowych, Program Manager, RCRA Inspections and  
Enforcement

c (with enclosure): Walter Medina, Environmental Specialist

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**EXHIBIT A**

**LOS ALAMOS NATIONAL  
LABORATORY**

**MIXED WASTE SITE TREATMENT PLAN**

**COMPLIANCE PLAN VOLUME (CPV)**

**BACKGROUND VOLUME**

**Revision ~~4.0 and 5.0~~ 6.0**

**~~December 1997~~ July 1998**

**(Rev. ~~4.0 and 5.0 12/97~~ 6.0 7/98)**

## **1.0 PURPOSE AND SCOPE OF THE COMPLIANCE PLAN VOLUME**

### **1.1 Introduction**

On October 6, 1992, Congress passed the Federal Facility Compliance Act (FFC Act) to address compliance by the United States Department of Energy (DOE) with the land disposal restrictions (LDR) for the storage of mixed waste set forth in Section 3004(j) of RCRA. The FFC Act requires the 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 FFC Act 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, NMED is required by FFC Act to provide public notice, consider public comments, consult with the Environmental Protection Agency (EPA) and any other state in which a facility affected by the STP is located.

On March 31, 1995, DOE submitted its proposed STP to NMED for the treatment of mixed waste at the Los Alamos National Laboratory (LANL). On April 17, 1995, the public was given notice of and an opportunity to comment to NMED on the draft STP submitted by DOE. After considering public comment and otherwise complying with the FFC Act, NMED determined to approve the draft STP with modifications as provided in this document.

The STP is intended to fulfill the requirements of the FFC Act and establish an enforceable framework to allow DOE and the Regents of the University of California (Respondents) to achieve full compliance with LDR requirements under the New Mexico Hazardous Waste Act (HWA) and RCRA. The compliance dates set forth herein are enforceable time periods in which Respondents are required to develop treatment capacities and technologies, and treat or otherwise meet the requirements set forth for LDR under the HWA and RCRA. The STP will be fully implemented by a Compliance Order issued by NMED on or before October 6, 1995.

### **1.2 Contents**

The STP contains two volumes and is intended to bring Respondents into compliance with LDR storage prohibitions under the HWA and RCRA. The Compliance Plan Volume of the STP provides overall schedules, including compliance dates, for achieving compliance with LDR storage and treatment requirements for mixed waste at LANL. The Compliance Plan includes a schedule for the submittal of applications for permits, construction of treatment facilities, technology development, off-site transportation for treatment, 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. The Background Volume of the STP contains progress reports as required in the Compliance Order. Respondents shall carry out the activities described in the STP, including the Compliance Plan Volume of the STP, in accordance with the schedules and requirements set forth in the STP and the Order.

### **1.3 STP Revisions and Amendments**

The STP Compliance Plan Volume (CPV) 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 Federal Facility Compliance Order (FFCO), as amended and revised. Appendix A to the CPV provides a summary of these CPV changes, and of modifications to the FFCO since its issuance.

## 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 bring existing waste treatment technologies into operation, process backlogged and currently generated waste, include schedules required to develop new facilities and capacity for treatment and establish an overall time frame 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 on-site, the categories of activities for compliance dates identified in Table I shall apply. Compliance dates for the activities identified in Table I may be found in Section 3.1.

**Table I. 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 on-site, the categories of activities for compliance dates are identified in Table II and shall apply. Compliance dates for the activities identified in Table II may be found in Section 3.2.

**Table II. 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.
- E. Commence systems testing.
- F. Begin treating mixed waste.
- G. Complete treatment of existing wastes to applicable regulatory standards.

### **2.1.3 Requirements Pertaining to Radionuclide Separation**

The FFC Act 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 III. "Radionuclide separation" shall mean segregating the radioactive portion of the mixed waste from the hazardous portion of the mixed waste.

**Table III. Categories of Activities for Compliance Dates for Radionuclide Separation of Mixed Waste**

- 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.

### **2.1.4 Plans for Mixed Waste to be Shipped Off-site for Treatment**

In lieu of plans to treat mixed-waste on-site, DOE may treat waste at an off-site facility (at a commercial or non-commercial mixed waste treatment facility), or DOE may recycle waste at an off-site facility. Should DOE elect to use off-site recycling facilities in lieu of (or in combination with) treatment, it will follow the requirements prescribed in this Section in the same manner as if the waste was being shipped off-site for treatment. Any and all requirements

imposed by the off-site treatment/recycling facility and state regulatory, federal regulatory or other regulatory requirements applicable at the treatment/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 a non-commercial 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 off-site non-commercial 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 off-site for treatment/recycling at a non-commercial facility are identified in Table V.

Should DOE decide to treat or recycle waste at a commercial off-site facility, 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.

**Table IV. Activities for Mixed Waste to be Shipped Off-Site  
for Treatment or Recycling at a Commercial facility**

- |   |
|---|
| <ul style="list-style-type: none"><li>A. Meet all regulatory requirements for off-site shipment.</li><li>B. Provide documentation to NMED that waste has been received at an off-site facility for treatment or recycling within 45 working days of receipt of waste at the treatment facility.</li></ul> |
|---|

#### **2.1.4.1 Specific Site Requirements for Non-commercial Treatment Facilities**

##### **Shipment to Idaho National Engineering Laboratory**

Prior to shipment, Idaho National Engineering Laboratory 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 to INEL. Proper procedures including additional approvals (if necessary) and documentation shall be completed prior to the shipment of wastes to INEL. 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 INEL.

Shipments of low-level mixed wastes 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 off-site 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 V. Activities for Mixed Waste to be Shipped Off-Site for Treatment or Recycling at a Non-commercial facility**

A.	Request necessary approval from NMED for shipment of waste by category before shipping.
B.	Meet all regulatory requirements for off-site shipment.
C.	Provide documentation to NMED of confirmation of shipment date within 14 working days prior to sending waste to an off-site 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 off-site facility for treatment within 45 working days of receipt of waste at the off-site 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.

### **2.1.5 Plans Related to Other Mixed Waste Activities**

1. Activities other than the types of activities specifically called for in the FFC Act 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.

2. 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 Compliance Order. 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 Compliance Order.

### 3.0 LOW-LEVEL MIXED WASTE STREAMS

This Chapter presents proposed schedules for treatment technologies and the preferred options to treat low-level mixed waste streams (MLW or LLMW) at LANL. All preferred options not described below must be approved by NMED in accordance with the revision process pursuant to the Compliance Order.

The original October 4, 1995 STP inventory in each MLLW treatability group has been modified through the revision process in the FFCO. The table in CPV Appendix B provides a comprehensive summary of changes to the CPV covered waste inventories (additions, deletions, and shifts of waste between treatability groups) occurring as of the date of this revision. In Appendix B, 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 Sections of this chapter, 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. For a complete listing of volumes by subgroup for all treatability groups, please refer to Appendix B.

#### 3.1 Mixed Waste Streams for Which Technology Exists

The following subsections summarize LLMW treatability groups for which technology exists.

##### 3.1.1 Off-site Treatment by Thermal Treatment

**Treatability Group(s):**

**LLMW for ~~Off-site~~ Thermal Treatment (MWIR Treatment ID DS-S001)**

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
IPA wastes	LA-W901	D001, D009, F002, F003, F005	0 -7	0.00 0-02
scintillation fluids	LA-W902	D001, F003, F005	0 -4	0.00 0-0038
<b>Totals</b>			<b>0 -8</b>	<b>0.00 0-02</b>

**Treatment Technology:**

The waste will be treated at an off-site facility that combusts organic liquid waste. Should DOE decide to treat waste at an off-site non-commercial facility, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment option proposed by DOE prior to any shipment by DOE.

Activity	Compliance Dates
A. Meet all regulatory requirements prior to shipping waste	9/30/96
B. Complete shipping waste	12/30/96
C. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

**3.1.2 Off-site Treatment by Stabilization or Macroencapsulation**

**Treatability Group(s):**

**LLMW for Stabilization**

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (M <sup>3</sup> )
lead blankets	LA-W903	D007, D008	0	0.00
soil with heavy metals	LA-W904	D004, D005, D006, D007, D008, D009, D010, D011	3 59	0.45 <del>10.44</del> <del>10.54</del> <sup>a</sup>
ER soils	LA-W905	D028, D029, F001, F005 D010, D011	0	0.00
Totals			3 59	0.45 <del>10.44</del> <del>10.54</del> <sup>a</sup>

<sup>a</sup> These redlined and struckout values represent corrections to CPV Revision 5.0 as discussed in the request for Revision 6.0. The struckout numbers are the incorrect Revision 5.0 values, the redline and struckout numbers are the corrected Revision 5.0 values which are replaced by the Revision 6.0 values (redline only). This footnote is information for the reader of this redline/strikeout version; this footnote is struck out to ensure it is deleted in the clean copy of the CPV Revision 6.0.

**Treatment Technology:**

The waste will be treated at an off-site facility that stabilizes or macroencapsulates wastes. Should DOE decide to treat waste at an off-site non-commercial facility, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment option proposed by DOE prior to any shipment by DOE.

Activity	Compliance Dates
A. Meet all regulatory requirements prior to shipping waste	05/30/97
B. Complete shipping waste	12/30/98
C. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

**3.1.3 Evaporative Oxidation (MWIR Treatment ID GJ-S801C)**

**Treatability Group(s):**

**LLMW for Evaporative Oxidation/Off-site Treatment (preferred option)**

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
aqueous organic liquids	LA-W906-0 LA-W906-4 LA-W906-5	D001, D002, D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D027, D028, D030, D032, D033, D034, D036, D037, D038, D039, D041, D042, D043, F001, F002, F003, F004, F005	173	10.32 <sup>a</sup> <del>10.89</del>
<b>Totals</b>			<b>173</b>	<b>10.32<sup>a</sup> <del>10.89</del></b>

<sup>a</sup> ~~These redlined and struckout values represent corrections to CPV Revision 5.0 as discussed in the request for Revision 6.0. The struckout numbers are the incorrect Revision 5.0 values and the redline numbers are the corrected Revision 5.0 values. This footnote is information for the reader of this redline/strikeout version; this footnote is struck out to ensure it is deleted in the clean copy of the CPV Revision 6.0.~~

Note: See below for additional wastes in this treatability group

**Treatment Technology**

The waste will be treated in a mobile treatment unit that will be fabricated off-site and operated on-site. Shipment off-site for treatment is a parallel preferred option. Should DOE decide to treat waste at an off-site non-commercial facility in lieu of plans to treat such waste on-site, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment option proposed by DOE prior to any shipment by DOE.

Any and all requirements imposed by the off-site treatment facility (commercial or non-commercial) and state regulatory, federal regulatory or other regulatory requirements applicable at the treatment site shall be met 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 facility.

Activity	Compliance Dates
A. Submit permit application, amendment or modification to NMED	12/30/96
B. Initiate construction	As specified in the NMED permit.
C. Complete system test and commence operation and begin treating mixed waste	6/19/99
D. Complete treatment of existing wastes to applicable regulatory standards, or	2/09/00
E. Complete shipment of existing wastes for treatment to an off-site facility.	2/09/00
F. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

**Additional wastes**

The following additional wastes will require management in this category, according to the Activities and Compliance Dates listed below.

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
aqueous organic liquids	LA-W906-6	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	88	5.74
<b>Totals</b>			<b>88</b>	<b>5.74</b>

**Activities for wastes belonging to this treatability subgroup.**

Activity	Compliance Dates
G. Complete shipment of existing wastes for treatment to an off-site facility.	2/09/03
H. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

**3.1.4 Thermal Desorption (MWIR Treatment ID GJ-S801B)**

**LLMW for Thermal Desorption/Off-site Treatment (preferred option)**

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
organic-contaminated combustible solids	LA-W911	D001, D004, D008, D009, F001, F002, F003, F005	381 378	36.07 35.65
<b>Totals</b>			<b>381 378</b>	<b>36.07 35.65</b>

**LLMW for Thermal Desorption**

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
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	227 <del>177</del>	27.31 <del>18.62</del>
<b>Totals</b>			<b>227 <del>177</del></b>	<b>27.31 <del>18.62</del></b>

**Treatment Technology**

The waste will be treated in a mobile treatment unit that will be fabricated off-site and operated on-site. Shipment off-site for treatment is a parallel preferred option. Should DOE decide to treat waste at an off-site non-commercial facility in lieu of plans to treat such waste on-site, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment option proposed by DOE prior to any shipment by DOE.

Any and all requirements imposed by the off-site (commercial or non-commercial) treatment facility and state regulatory, federal regulatory or other regulatory requirements applicable at the treatment site shall be met 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 facility.

Activity	Compliance Dates
A. Submit permit application, amendment or modification to NMED	11/16/98
B. Initiate construction	As specified in the NMED permit
C. Complete system testing and commence operations and begin treating mixed waste	02/01/01
D. Complete treatment of existing wastes to applicable regulatory standards, or	02/14/02
E. Complete shipping of existing wastes to an off-site treatment facility.	02/14/02
F. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

### 3.1.5 Macroencapsulation (MWIR Treatment ID PX-S803)

Treatability Group(s):

LLMW for Macroencapsulation/Off-site treatment (preferred option)

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
combustible debris	LA-W912	D001, D002, D003, D005, D006, D007, D008, D009, D011, D035, F001, F002, F003, F005	103 97	15.17 <del>14.85</del>
<b>Totals</b>			<b>103 97</b>	<b>15.17 <del>14.85</del></b>

**LLMW for Macroencapsulation**

Treatability group		RCRA codes	Number of items	Net volume (m <sup>3</sup> )
activated or inseparable lead	LA-W921	D008	34 <del>32</del>	7.09 <del>8.12</del>
noncombustible debris	LA-W922	D001, D002, D004, D005, D006, D007, D008, D009, D010, D011	191 <del>157</del>	36.46 <del>30.74</del>
<b>Totals</b>			<b>225 <del>189</del></b>	<b>43.55 <del>38.86</del></b>

**Treatment Technology**

The waste will be treated in a mobile treatment unit that will be fabricated off-site and operated on-site. Shipment off-site for treatment is a parallel preferred option. Should DOE decide to treat waste at an off-site non-commercial facility in lieu of plans to treat such waste on-site, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment option proposed by DOE prior to any shipment by DOE.

Any and all requirements imposed by the off-site (commercial or non-commercial) treatment facility and state regulatory, federal regulatory or other regulatory requirements applicable at the treatment site shall be met 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 facility.

Activity	Compliance Dates
A. Submit permit application, amendment or modification to NMED	01/04/98
B. Initiate construction	As specified in the NMED permit
C. Complete system testing and commence operation and begin treating mixed waste	02/01/00
D. Complete treatment of existing wastes to applicable regulatory standards, or	08/25/00
E. Complete shipping of existing wastes to an off-site treatment facility.	08/25/00
F. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

### 3.1.6 Chemical Plating Waste Treatment Skid (MWIR Treatment ID LA-S004)

**Treatability Group(s):**

**LLMW for Chemical Plating Waste Skid/Off-site Treatment (preferred option)**

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
aqueous wastes with heavy metals	LA-W913	D001, D002, D003, D004, D005, D006, D007, D008, D009, D010, D011	139 <del>119</del>	3.07 <del>2.05</del>
corrosive solutions	LA-W914	D001, D002	197 <del>189</del>	1.21 <del>1.17</del>
aqueous cyanides, nitrates, chromates, and arsenates	LA-W915	D001, D002, D003, D004, D005, D006, D007, D008, D009, D010, D011, F007, P029, P098	23	0.17
<b>Totals</b>			<b>359 <del>331</del></b>	<b>4.45 <del>3.39</del></b>

### Treatment Technology

The waste will be treated in a mobile treatment unit that will be fabricated off-site and operated on-site. Shipment off-site for treatment is a parallel preferred option. Should DOE decide to treat waste at an off-site non-commercial facility in lieu of plans to treat such waste on-site, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the

affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment option proposed by DOE prior to any shipment by DOE.

Any and all requirements imposed by the off-site (commercial or non-commercial) treatment facility and state regulatory, federal regulatory or other regulatory requirements applicable at the treatment site shall be met 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 facility.

Activity	Compliance Dates
A. Resubmit revised permit application to NMED	10/30/96
B. Initiate construction	As specified in the NMED permit
C. Complete system testing and commence operations and begin treating mixed waste	03/17/00
D. Complete treatment of existing wastes to applicable regulatory standards, or	05/08/01
E. Complete shipping of existing wastes to an off-site treatment facility.	05/08/01
F. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

### 3.1.7 Water-reactive Metals Treatment Skid (MWIR Treatment ID LA-S003)

#### Treatability Group(s):

#### LLMW for Water-Reactive Metals Skid/Off-site Treatment (preferred option)

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
water-reactive wastes	LA-W916	D001, D003, D004, D005, D007, D008, D010, D011	113 <del>108</del>	7.05 <del>6.37</del>
<b>Totals</b>			<b>113 <del>108</del></b>	<b>7.05 <del>6.37</del></b>

### Treatment Technology

The waste will be treated in a mobile treatment unit that will be fabricated on-site and operated on-site. Shipment off-site for treatment is a parallel preferred option. Should DOE decide to treat waste at an off-site non-commercial facility in lieu of plans to treat such waste on-site, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment option proposed by DOE prior to any shipment by DOE.

Any and all requirements imposed by the off-site (commercial or non-commercial) treatment facility and state regulatory, federal regulatory or other regulatory requirements applicable at the treatment site shall be met 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 facility.

Activity	Compliance Dates
A. Submit permit application, amendment or modification to NMED	06/30/01
B. Initiate construction	As specified in the NMED permit
C. Complete system testing and commence operations and begin treating mixed waste	09/09/03
D. Complete treatment of existing wastes to applicable regulatory standards, or	04/21/04
E. Complete shipping of existing wastes to an off-site treatment facility.	04/21/04
F. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

### 3.1.8 Gas-scrubbing Skid (MWIR Treatment ID LA-S801)

#### Treatability Group(s):

#### LLMW for Gas-Scrubbing Skid/Off-site Treatment (preferred option)

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
compressed gases requiring scrubbing	LA-W917	D001, D002, P056	13	0.35
<b>Totals</b>			<b>13</b>	<b>0.35</b>

#### Treatment Technology

The waste will be treated in a mobile treatment unit that will be fabricated on-site and operated on-site. Shipment off-site for treatment is a parallel preferred option. Should DOE decide to treat waste at an off-site non-commercial facility in lieu of plans to treat such waste on-site, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment option proposed by DOE prior to any shipment by DOE.

Any and all requirements imposed by the off-site (commercial or non-commercial) treatment facility and state regulatory, federal regulatory or other regulatory requirements applicable at the treatment site shall be met 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 facility.

Activity	Compliance Dates
A. Submit permit application, amendment or modification to NMED	03/10/98
B. Initiate construction	As specified in the NMED permit
C. Complete system testing and commence operations and begin treating mixed waste	05/10/02
D. Complete treatment of existing wastes to applicable regulatory standards, or	08/28/03
E. Complete shipping of existing wastes to an off- site treatment facility.	08/28/03
F. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

**3.1.9 Gas Oxidation Skid (MWIR Treatment ID LA-S801)**

**Treatability Group(s):**

**LLMW for Gas Oxidation Skid/Off-site Treatment (preferred option)**

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
compressed gases requiring oxidation	LA-W918	D001, U226	177 476	1.32
<b>Totals</b>			<b>177 476</b>	<b>1.32</b>

**Treatment Technology**

The waste will be treated in a mobile treatment unit that will be fabricated on-site and operated on-site. Shipment off-site for treatment is a parallel preferred option. Should DOE decide to treat waste at an off-site non-commercial facility in lieu of plans to treat such waste on-site, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment option proposed by DOE prior to any shipment by DOE.

Any and all requirements imposed by the off-site (commercial or non-commercial) treatment facility and state regulatory, federal regulatory or other regulatory requirements applicable at the treatment site shall be met 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 facility.

Activity	Compliance Dates
A. Submit permit application, amendment or modification to NMED	03/10/98
B. Initiate construction	As specified in the NMED permit
C. Complete system testing and commence operations and begin treating mixed waste	05/10/02
D. Complete treatment of existing wastes to applicable regulatory standards, or	08/28/03
E. Complete shipping of existing wastes to an off-site treatment facility.	08/28/03
F. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

**3.1.10 Mercury Amalgamation (MWIR Treatment ID PI-S801)**

**Treatability Group(s):**

**LLMW for Amalgamation/Off-site Treatment (preferred option)**

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
elemental mercury	LA-W920	D006, D009, F005	<del>79</del> 74	0.66 <del>0.54</del>
<b>Totals</b>			<b>79</b> 74	<b>0.66</b> <del>0.54</del>

**Treatment Technology**

The waste will be treated in a mobile treatment unit that will be fabricated off-site and operated on-site. Shipment off-site for treatment is a parallel preferred option. Should DOE decide to treat waste at an off-site non-commercial facility in lieu of plans to treat such waste on-site, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment option proposed by DOE prior to any shipment by DOE.

Any and all requirements imposed by the off-site (commercial or non-commercial) treatment facility and state regulatory, federal regulatory or other regulatory requirements applicable at the treatment site shall be met 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 facility.

Activity	Compliance Dates
A. Submit permit application, amendment or modification to NMED	01/30/98
B. Initiate construction	As specified in the NMED permit
C. Complete system testing and commence operations and begin treating mixed waste	06/05/00
D. Complete treatment of existing waste to applicable regulatory standards, or	11/15/00
E. Complete shipping of existing wastes to an off-site treatment facility.	11/15/00
F. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

### 3.2 Mixed Waste Streams for Which Technology Requires Adaptation or for Which No Technology Exists

The following subsections summarize mixed waste streams for which technology requires adaptation or for which no technology exists.

### 3.2.1 Hydrothermal Processing

#### Treatability Group(s):

#### LLMW for Hydrothermal Processing/Off-site Treatment (preferred option)

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
halogenated organic liquids	LA-W907	D001, D002, D003, D007, D009, D010, D011, D018, D019, D022, D028, D029, D035, D043, F001, F002, F003, F004, F005, U077, U080, U226, U227, U228, U236	525 <del>512</del>	18.26 <del>18.12</del>
nonhalogenated organic liquids	LA-W908	D001, D002, D003, D004, D007, D008, D009, D011, D018, D038, D040, F002, F003, F004, F005, U002, U019, U154, U169, U188, U220, U246	843 <del>814</del>	20.20 <del>20.63</del>
bulk oils	LA-W909	D002, D004, D005, D006, D007, D008, D009, D010, D011, D021, D027, D039, F001, F002, F003, F005	45 <del>64</del>	5.81 <del>7.51</del>
PCB wastes with RCRA components	LA-W910	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	40 <del>4</del>	2.75 <del>0.74</del>
<b>Totals</b>			<b>1453 <del>1394</del></b>	<b>47.02 <del>47.00</del></b>

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
Liquid and solid oxidizers	LA-W923	D001, D003, D005	93 <del>86</del>	1.37 <del>0.58</del>
<b>Totals</b>			<b>93 <del>86</del></b>	<b>1.37 <del>0.58</del></b>

#### Treatment Technology:

The preferred destruction treatment technology option for this treatability group is Hydrothermal Processing which is a technology that needs development for adaptation to treat radioactive and PCB-bearing waste. This treatment technology is being adapted at LANL and is expected to be developed into a mobile treatment unit. The GJPO schedule for deployment of the unit indicates its possible availability to LANL after February 2002. Shipment off-site for treatment is a parallel preferred option. Respondents shall submit treatment or off-site shipment schedules and

options for NMED's approval by November 30, 1998. Treatment or other options other than off-site shipment shall be carried out pursuant to the revision process. Off-site shipments must be completed by February 2002.

Should DOE decide to treat waste at an off-site non-commercial facility in lieu of plans to treat such waste on-site, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment option proposed by DOE prior to any shipment by DOE.

Any and all requirements imposed by the off-site (commercial or non-commercial) treatment facility and state regulatory, federal regulatory or other regulatory requirements applicable at the treatment site shall be met 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 facility.

### 3.3 Mixed Waste Requiring Further Characterization or for Which Technology Assessment Has Not Been Done (MWIR Treatment ID LA-S701)

#### Treatability Group(s):

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
lead wastes - TBD	LA-W924	D003, D008	129	40.16
mercury wastes - TBD	LA-W925-0	D007, D008, D009, F001	63	18.30
compressed gases - TBD	LA-W926	D001, D007, D009, D022, P056, U080, U226	10	1.25
biochemical laboratory wastes	LA-W927	D001, D003	9	1.34
dewatered treatment sludge	LA-W928	see Subsection 3.3 in the Background Volume	61	12.71
<b>Totals</b>			<b>272</b>	<b>73.76</b>

Note: See below for additional wastes in some of these treatability groups

#### Treatment Technology:

The following steps will be taken to properly characterize this waste:

- Conduct additional generator interviews
- Prepare a sampling plan for waste not adequately characterized

- Conduct sampling and analysis
- Determine treatment options

Activities for wastes originally belonging to these treatability groups as listed above.

<b>Activity</b>	<b>Compliance Dates</b>
A. Complete generator interviews	10/30/95
B. Complete sampling and analysis plan	1/30/96
C. Complete sampling and analysis	9/30/98
D. Complete determination of treatment options	12/20/98
E. Complete shipping of existing wastes to an off-site treatment facility, or submit documentation assigning waste items to applicable treatability groups.	12/20/00
F. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

**Additional wastes and treatability groups:**

The following additional wastes will require management in this category, according to the Activities and Compliance Dates listed below.

Treatability group	MWIR waste ID	RCRA Codes	Number of items	Net volume (m3)
mercury wastes-TBD	LA-W925-4 LA-W925-5 LA-W925-6	D003, D007, D008, D009, F001, F002, F005	74 37	2.61 0.42
<del>mercury wastes-TBD</del>	<del>LA-W925-5</del>	<del>D007, D008, D009, F001</del>	<del>14</del>	<del>1.52</del>
explosives	LA-W932	D003	1	0.000001
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	149 142	0.30
<b>Totals</b>			<b>224 194</b>	<b>2.91 2.24</b>

Activities for wastes belonging to these treatability groups and subgroups.

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 off-site treatment facility, or submit documentation assigning waste items to applicable treatability groups	12/20/03
K. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at off-site facility

### 3.4 Plans for Other Types of Activities

The following subsection summarizes plans for other types of activities.

#### 3.4.1 Lead Decontamination (MWIR Treatment ID LA-S001)/Off-site Treatment (preferred option)

##### Treatability Group(s):

Treatability group	MWIR waste ID	First category		Second category		Total	
		No. Items	Net volume (m <sup>3</sup> )	No. Items	Net volume (m <sup>3</sup> )	No. Items	Net volume (m <sup>3</sup> )
lead for surface contamination	LA-W930-0		0.00	134	49.19	134	49.19
	LA-W930-5	<del>0</del>	<del>21.02</del>	<del>62</del>	<del>36.16</del>	<del>151</del>	<del>57.18</del>
		<del>89-6</del> <sup>a</sup>	<del>6.59</del> <sup>a</sup>	<del>145</del> <sup>a</sup>	<del>50.59</del> <sup>a</sup>		
<b>Totals</b>			<b>0.00</b>	<b>134</b>	<b>49.19</b>	<b>134</b>	<b>49.19</b>
		<del>0</del>	<del>21.02</del>	<del>62</del>	<del>36.16</del>	<del>151</del>	<del>57.18</del>
		<del>89-6</del> <sup>a</sup>	<del>6.59</del> <sup>a</sup>	<del>145</del> <sup>a</sup>	<del>50.59</del> <sup>a</sup>		

<sup>a</sup> ~~These redlined and struckout values represent corrections to CPV Revision 5.0 as discussed in the request for Revision 6.0. The struckout numbers are the incorrect Revision 5.0 values, the redline and struckout numbers are the corrected Revision 5.0 values which are replaced by the Revision 6.0 values (redline only). This footnote is information for the reader of this redline/strikeout version, this footnote is struck out to ensure it is deleted in the clean copy of the CPV Revision 6.0.~~

Note: See below for additional wastes in this treatability group

##### Treatment Technology:

This treatability group contains two categories of lead for decontamination:

The first category is lead in the original LA-W930-0 inventory that is amenable to decontamination in the on-site lead decontamination trailer, which was designed to decontaminate simple lead shapes, such as lead bricks, of certain physical dimensions. The trailer is on-site and has operated, but needs an upgrade for prolonged operation.

The lead in the second category is lead in the original LA-W930-0 inventory that is not amenable to decontamination in the on-site lead decontamination trailer, plus subsequent additions to the original inventory shown in Appendix B. This lead will be processed using other on-site decontamination processes, such as dry sandblasting or hand-scrubbing, or sent to off-site lead decontamination services.

Any lead not acceptable for on-site or off-site lead decontamination, plus any lead unsuccessfully decontaminated, will be designated for treatment and disposal at an off-site facility, or for recycle through an off-site 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.

Should DOE decide to treat or recycle waste at an off-site non-commercial facility in lieu of plans to treat or recycle such waste on-site, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment/recycle option proposed by DOE prior to any shipment by DOE.

Any and all requirements imposed by the off-site (commercial or non-commercial) treatment/recycling facility and state regulatory, federal regulatory or other regulatory requirements applicable at the treatment/recycling site shall be met 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.

Lead shapes and forms in the first category.

Activity	Compliance Date
A. Complete lead decontamination	09/30/97

Lead shapes and forms in the second category.

Activity	Compliance Date
A. Provide schedule for development of lead processing techniques and options	06/30/96
B. Segregate lead waste into decontamination groupings	07/31/97
C. Complete shipment of wastes to decontamination operations, or	12/02/98
D. Determine treatment/disposal or other recycle options for lead waste not acceptable for decontamination	12/02/98
E. Complete treatment/disposal operations or other recycle operations for lead waste not acceptable for decontamination	07/31/99
F. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

**Additional wastes**

The following additional wastes will require management in the second category, according to the Activities and Compliance Dates listed below.

Treatability group	MWIR waste ID	First category		Second category		Total	
		No. Items	Net volume (m <sup>3</sup> )	No. Items	Net volume (m <sup>3</sup> )	No. Items	Net volume (m <sup>3</sup> )
lead for surface contamination	LA-W930-6	0	0.00	14	12.06	14	12.06
<b>Totals</b>		<b>0</b>	<b>0.00</b>	<b>14</b>	<b>12.06</b>	<b>14</b>	<b>12.06</b>

Activities for wastes belonging to this treatability subgroup.

Activity	Compliance Date
G. Complete shipment of wastes to decontamination operations, or	12/02/99
H. Determine treatment/disposal or other recycle options for lead waste not acceptable for decontamination	12/02/99
I. Complete treatment/disposal operations or other recycle operations for lead waste not acceptable for decontamination	07/31/00
J. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

### 3.4.2 Sorting, Surveying, and Decontamination (MWIR Treatment ID GJ-S804)

#### Treatability Group(s):

Treatability group	MWIR waste ID	Number of items	Net volume (m <sup>3</sup> )
1. nonradioactive or suspect waste items to be surveyed	LA-W929-0(1)	0	0.0
2. nonradioactive or suspect waste items to receive RCRA and radiological characterization	LA-W929-0(2)	0 → 2	0.00 0.0076
3. nonradioactive or suspect waste items that cannot or should not be sampled	LA-W929-0(3)	0	0.0
<b>Totals</b>		<b>0 → 2</b>	<b>0.00 0.0076</b>

Note: See below for additional wastes in this treatability group

#### Treatment Technology:

The waste items in part 1 of the original volume in this treatability group will be surveyed using a field operation that will survey waste suspect of radioactive contamination to determine whether it is radioactively contaminated. The work will be done on-site with equipment and staffing provided by LANL or another DOE site. Waste determined not to be radioactively contaminated will be treated using commercial facilities permitted to treat hazardous waste; waste determined to be radioactively contaminated will be assigned to applicable treatability groups and/or sent to offsite facilities for appropriate treatment.

Waste items in part 2 of this treatability group will be surveyed using complete RCRA and radiological sampling and characterization. Waste sampled under this alternative will be treated and disposed as low-level mixed waste; the waste will be assigned to applicable treatability groups and/or sent to off-site facilities for appropriate treatment based on the results of this characterization.

Sampling for this characterization alternative will be conducted in accordance with RCRA SW-846 methods. To ensure an adequate volume of waste material is available for sampling and to maximize the cost effectiveness of the sampling activities, some lab packed and other waste items may be bulked into larger volume containers; all RCRA waste codes will be transferred to the bulked wastes to ensure correct RCRA categorization is maintained. It may be found, when preparing a given drum for sampling, (for example, solid small volume waste items that cannot be sampled in accordance with EPA SW-846 methods) are in fact not amenable to sampling and should have been included in the item count for group 3. If visual inspection so indicates, these waste items will be transferred to Group 3 and assigned to applicable treatability groups based on existing knowledge.

Waste items in part 3 of this treatability group which are confirmed not amenable to sampling (e.g., lead-acid batteries, spray paint cans) will be assigned to applicable treatability groups based on existing knowledge. It may be found, when inspecting a given drum, that some items can in fact be sampled in accordance with EPA SW-846 methods and should have been included in the item count for Group 2. If visual inspection so indicates, these waste items will be transferred to Group 2 and sampled accordingly.

Additional compliance dates will be proposed for any waste items in this treatability group found not to have available treatment/disposal options following a complete review of all survey, analytical, or visual inspection data obtained through these processes.

For all waste items in this treatability group, shipment off-site for treatment is a parallel preferred option. Should DOE decide to treat waste at an off-site non-commercial facility in lieu of plans to treat such waste on-site, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment option proposed by DOE prior to any shipment by DOE.

Any and all requirements imposed by the off-site (commercial or non-commercial) treatment facility and state regulatory, federal regulatory or other regulatory requirements applicable at the treatment site shall be met by DOE. DOE will notify the NMED Project Manager in writing as soon as possible and in any event within (45) working days of receipt of waste at the treatment facility.

Activities for waste items in part 1 of this treatability group.

Activity	Compliance Dates
A. Complete field survey	10/30/96
B. Submit documentation declaring waste items as nonradioactive, or submit documentation assigning waste items to applicable treatability groups	2/28/97
C. Propose additional compliance dates if necessary	4/30/97

Activities for waste items in part 2 of this treatability group.

Activity	Compliance Dates
D. Complete RCRA and radiological sampling	1/28/97
E. Submit documentation assigning waste items to applicable treatability groups or proposing off-site shipment dates	2/28/97
F. Propose additional compliance dates if necessary	4/30/97

Activities for waste items in part 3 of this treatability group.

Activity	Compliance Dates
G. Complete visual verification	1/28/97
H. Submit documentation assigning waste items to applicable treatability groups or proposing off-site shipment dates	6/30/97
I. Propose additional compliance dates if necessary	9/30/97

**Additional wastes:**

Treatability group	MWIR waste ID	Number of items	Net volume (m <sup>3</sup> )
Nonradioactive or suspect waste items	LA-W929-5	0 - 1	0.00 0.00002
<b>Totals</b>		<b>0 - 1</b>	<b>0.00 0.00002</b>

Activities for items added as subgroup 5 of this treatability group.

Activity	Compliance Dates
J. Submit documentation assigning waste items to applicable treatability groups or proposing off-site shipment dates	3/31/98
K. Propose additional Compliance Dates if necessary	3/31/98

### 3.5 Management of "Missing" Items.

#### Waste Category:

Category	MWIR waste ID	No. Items	Net volume (m <sup>3</sup> )
Missing/nonexistent/TBV	None	48	8.81
<b>Totals</b>		<b>48</b>	<b>8.81</b>

#### Treatment Technology:

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 could not be verified as having ever been received in storage at LANL, and further follow-up investigations of the record files revealed that for various reasons, the waste items were never in fact generated, although on paper they were included in the original STP inventory.

In these instances, DOE and UC, and their contractors, perform a thorough inspection of both the physical inventories and the data files. When DOE and UC determine 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 and UC will re-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 off-site treatment. The final verification that all "*Missing/ nonexistent/TBV*" items do not in fact exist 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, DOE and UC will request deletion of all items having been fully verified as missing or nonexistent.

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 TG. If necessary, they will be assigned new Activities and Compliance Dates, in accordance with the terms of the FFCO.

The following steps will be taken to verify presence or absence of this waste:

Activity	Compliance Dates
A. Initiate re-verification process on a shipment-by-shipment basis	01/03/98
B. Complete re-verification process	04/21/04
C. Re-assign any existing items to appropriate treatability groups	04/21/04
D. Complete treatment of existing wastes to applicable regulatory standards, or	10/30/04
E. Complete shipping of existing wastes to an off-site treatment facility	10/30/04
F. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

#### 4.0 MIXED TRANSURANIC WASTE

##### Treatment Group(s):

Assorted Mixed Transuranic Waste

##### Treatment Technology

Respondents are required to develop treatment technologies and treat mixed transuranic (MTRU) waste at LANL according to the schedule set forth below:

Activity	Compliance Date
A. Development of treatment technologies	June 30, 1999
B. Submit permit application amendment or modification to NMED for treatment of MTRU	December 31, 1999
C. Begin treating MTRU	Six (6) months after NMED permit issuance
D. Complete treatment of existing MTRU to applicable regulatory standards	December 31, 2010

The above schedule is not based on the assumption that WIPP will be a disposal option or that DOE will receive a variance from treatment standards for land disposal of MTRU waste to be disposed at WIPP. All revisions to compliance dates shall be in accordance with the procedures set forth in the compliance order.

## CPV APPENDIX A HISTORY OF STP REVISIONS AND AMENDMENTS

As discussed in CPV Section 1.3, the STP Compliance Plan Volume 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 Federal Facility Compliance Order, as amended and revised. This Appendix provides a summary of these CPV changes, and of modifications to the FFCO since its issuance.

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

**Table A-1. SUMMARY OF CHANGES TO THE CPV AND THE FFCO**

Action	Document Modified	Effective Date	Effect on FFCO/STP
Rev. 1.0	STP/CPV	6/12/96	Added off-site treatment as a parallel preferred option for most MLLW treatability groups
Rev. 2.0	STP/CPV	12/9/96	Reduced volume of LA-W928 by approving reclassification of sludges as LLW
Amendment 1.0	STP/CPV	10/30/96	Divided original volume of LA-W929 into three subgroups, and added new Activities and Compliance Dates
Rev. 3.0	STP/CPV	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/CPV	9/4/97	Extended CPV Activity 3.1.2B Compliance Date to 12/29/97
Rev. 4.0	STP/CPV	12/29/97 (to be added)	Transferred original volume of LA-W929 from three subgroups to other treatability groups, added treatability groups, and deleted treated items
Rev. 5.0	STP/CPV	12/29/97 (to be added)	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 CPV Appendices, and deleted treated items
Rev. 6.0	STP/CPV	(to be added)	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

**CPV APPENDIX B**  
**SUMMARY OF CPV INVENTORY CHANGES**

The following tables provides a comprehensive summary of changes to the CPV covered waste inventories (additions, deletions, and shifts of waste between treatability groups) occurring as of the date of this revision. The volumes given in the tables reflect changes to the individual MLLW treatability group volumes due to increases or decreases, as noted. Table B-1 reports the inventory changes arising from Revision 6.0, while Table B-2 reports the inventory changes previously approved.

**Key to Reading the Subgroups**

The original STP inventory in each MLLW treatability group is now denoted as subgroup -0 of that treatability group (e.g., the original volume of STP treatability group LA-W906 became LA-W906-0). The original October 4, 1995 STP inventory in each MLLW treatability group has been modified through the revision process in the FFCO. The following revisions have affected volumes in individual treatability groups to date:

Revision	Effect on Volumes
Rev. 2.0	Reduced volume of LA-W928
Rev. 3.0	Divided original volume of LA-W929 into three subgroups
Rev. 4.0	Transferred original volume of LA-W929 from three subgroups to other treatability groups, added new treatability groups
Rev. 5.0	<del>Added</del> Increased and decreased volumes in to several treatability groups
Rev. 6.0	Increased and decreased volumes in several treatability groups, transferred the volume in LA-W929-5 to another treatability group

Each revision that has added volumes to individual treatability groups has resulted in creation of an additional subgroup of that treatability group, 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).

**Additions and Deletions to Date**

To date, MLLW inventory increases and decreases have been incorporated into the covered waste inventories through Revisions 2.0, 4.0, ~~and~~ 5.0, and 6.0. Revision 2.0 incorporated decreases in treatability group LA-W928 due to deletion of covered waste items. Rev. 4.0 resulted in decreases to LA-W929 and increases in other TGs, primarily by transferring LA-W929 items to other TGs. Rev. 5.0 and 6.0 resulted in both additions to and deletions of covered waste volumes (i.e., increases and decreases) in a number of TGs. Therefore, the

Appendix B tables that follows shows that subgroups -4, ~~and~~-5, and -6 exist for some treatability groups, but not for all.

These ~~This~~ tables provides a master list of MLLW inventory changes presented in the *Annual Updates*, to enable users of the STP to track all changes in the LANL MLLW covered waste inventory that occurred since the original STP inventory was established in the October 4, 1995 FFCO/CPV.

Changes (additions or deletions) to the CPV covered waste inventory have occurred since the end of FY97 ~~FY96~~. However, only those reported as of Rev. 6.0-5.0 "~~Other Changes~~" are included in this table. All others will be reported in the next *Annual Update* and associated revision request. Therefore, the "*Net Covered Waste Inventory*" may not fully reflect the actual CPV covered waste inventory as of the date of this revision, in some instances.

**TABLE B-1. SUMMARY TABLE  
STP/CPV MLLW INVENTORY CHANGES FOR REVISION 6.0**

CPV Section	Treatability Group	MWIR ID (by subgroup)	Net Covered Waste Inventory by Subgroup (reported in Rev. 4/5)		Revision 6 (3/98 FY97 Annual Update Changes)		Revision 6 (Other Changes)		Subtotal (by subgroup)		Net Covered Waste Inventory (including Rev. 6 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.1.1	IPA Wastes	LA-W901-0	7	0.02	Decrease 7	Decrease 0.02			0	0.00	0	0.00
3.1.1	Scintillation Fluids	LA-W902-0	1	0.0038	Decrease 1	Decrease 0.0038			0	0.00	0	0.00
3.1.2	Lead Blankets	LA-W903-0	0	0.00					0	0.00	0	0.00
3.1.2	Soil with Heavy Metals	LA-W904-0	58	<del>10.33</del> 10.43 <sup>a</sup>	Decrease 6	Decrease 0.62 <sup>b</sup>			2	0.34		
		LA-W904-5	1	0.11	Decrease 2	Decrease 0.42 <sup>c</sup>			1	0.11		
					Decrease 46	Decrease 8.91					3	0.45
					Decrease 2	Decrease 0.14						
3.1.2	ER Soils	LA-W905-0	0	0.00					0	0.00	0	0.00

**TABLE B-1. SUMMARY TABLE  
STP/CPV MLLW INVENTORY CHANGES FOR REVISION 6.0**

CPV Section	Treatability Group	MWIR ID (by subgroup)	Net Covered Waste Inventory by Subgroup (reported in Rev. 4/5)		Revision 6 (3/98 FY97 Annual Update Changes)		Revision 6 (Other Changes)		Subtotal (by subgroup)		Net Covered Waste Inventory (including Rev. 6 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.1.3	Aqueous Organic Liquids	LA-W906-0	45	1.65					45	1.65		
		LA-W906-4	27	0.36					27	0.36		
		LA-W906-5	101	<del>8.88</del> 8.31 <sup>d</sup>					101	8.31		
		LA-W906-6	0	0.00	Increase 88	Increase 5.74			88	5.74		
											261	16.06
3.1.4	Organic-Contaminated Combustible Solids	LA-W911-0	305	28.10	Increase 2	Increase 0.42 <sup>e</sup>			307	28.52		
		LA-W911-4	33	0.68					33	0.68		
		LA-W911-5	40	6.87					40	6.87		
		LA-W911-6	0	0.00	Increase 1	Increase 0.0038			1	0.0038		
											381	36.07
3.1.4	Organic-Contaminated Noncombustible Solids	LA-W919-0	79	7.71	Increase 1	Increase 0.11 <sup>e</sup>			80	7.82		
		LA-W919-4	9	0.38					9	0.38		
		LA-W919-5	89	10.53					89	10.53		
		LA-W919-6	0	0.00	Increase 49	Increase 8.58			49	8.58		
											227	27.31

**TABLE B-1. SUMMARY TABLE  
STP/CPV MLLW INVENTORY CHANGES FOR REVISION 6.0**

CPV Section	Treatability Group	MWIR ID (by subgroup)	Net Covered Waste Inventory by Subgroup (reported in Rev. 4/5)		Revision 6 (3/98 FY97 Annual Update Changes)		Revision 6 (Other Changes)		Subtotal (by subgroup)		Net Covered Waste Inventory (including Rev. 6 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.1.5	Combustible Debris	LA-W912-0	83	13.82					83	13.82	103	15.17
		LA-W912-4	9	0.75					9	0.75		
		LA-W912-5	5	0.28					5	0.28		
		LA-W912-6	0	0.00	Increase 6	Increase 0.32			6	0.32		
3.1.5	Activated or Inseparable Lead	LA-W921-0	14	4.77	Decrease 1	Decrease 0.06 <sup>f</sup>			11	2.99	34	7.09
		LA-W921-5	18	3.35	Decrease 4	Decrease 0.83 <sup>f</sup>			14	2.52		
		LA-W921-6	0	0.00	Increase 9	Increase 1.58			9	1.58		
3.1.5	Non-combustible Debris	LA-W922-0	41	5.62	Decrease 14	Decrease 2.915			27	2.71	191	36.46
		LA-W922-4	53	2.83					53	2.83		
		LA-W922-5	63	22.29	Decrease 3	Decrease 0.62			60	21.67		
		LA-W922-6	0	0.00	Increase 51	Increase 9.25			51	9.25		

**TABLE B-1. SUMMARY TABLE  
STP/CPV MLLW INVENTORY CHANGES FOR REVISION 6.0**

CPV Section	Treatability Group	MWIR ID (by subgroup)	Net Covered Waste Inventory by Subgroup (reported in Rev. 4/5)		Revision 6 (3/98 FY97 Annual Update Changes)		Revision 6 (Other Changes)		Subtotal (by subgroup)		Net Covered Waste Inventory (including Rev. 6 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.1.6	Aqueous Wastes with Heavy Metals	LA-W913-0	83	1.50					83	1.50		
		LA-W913-4	25	0.40					25	0.40		
		LA-W913-5	11	0.15					11	0.15		
		LA-W913-6	0	0.00	Increase 20	Increase 1.02			20	1.02		
										139	3.07	
3.1.6	Corrosive Solutions	LA-W914-0	60	0.69					60	0.69		
		LA-W914-4	90	0.36					90	0.36		
		LA-W914-5	39	0.12					39	0.12		
		LA-W914-6	0	0.00	Increase 8	Increase 0.04			8	0.04		
										197	1.21	
3.1.6	Aqueous Cyanides, Nitrates, Chromates, and Arsenates	LA-W915-0	9	0.13					9	0.13		
		LA-W915-4	3	0.002					3	0.002		
		LA-W915-5	11	0.04					11	0.04		
										23	0.17	
3.1.7	Water-Reactive Wastes	LA-W916-0	78	6.03					78	6.03		
		LA-W916-4	26	0.31					26	0.31		
		LA-W916-5	4	0.03					4	0.03		
		LA-W916-6	0	0.00	Increase 5	Increase 0.68			5	0.68		
										113	7.05	
3.1.8	Compressed Gases Requiring Scrubbing	LA-W917-0	13	0.35					13	0.35		
										13	0.35	

**TABLE B-1. SUMMARY TABLE  
STP/CPV MLLW INVENTORY CHANGES FOR REVISION 6.0**

CPV Section	Treatability Group	MWIR ID (by subgroup)	Net Covered Waste Inventory by Subgroup (reported in Rev. 4/5)		Revision 6 (3/98 FY97 Annual Update Changes)		Revision 6 (Other Changes)		Subtotal (by subgroup)		Net Covered Waste Inventory (including Rev. 6 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.1.9	Compressed Gases Requiring Oxidation	LA-W918-0	6	0.08					6	0.08		
		LA-W918-4	168	1.23					168	1.23		
		LA-W918-5	2	0.01					2	0.01		
		LA-W918-6	0	0.00	Increase 1	Increase 0.0002			1	0.0002		
										177	1.32	
3.1.10	Elemental Mercury	LA-W920-0	45	0.50					45	0.50		
		LA-W920-4	20	0.02					20	0.02		
		LA-W920-5	9	0.02					9	0.02		
		LA-W920-6	0	0.00	Increase 5	Increase 0.12			5	0.12		
										79	0.66	
3.2.1	Halogenated Organic Liquids	LA-W907-0	384	16.58	Decrease 3	Decrease 0.0076			381	16.57		
		LA-W907-4	97	1.05					97	1.05		
		LA-W907-5	31	0.49					31	0.49		
		LA-W907-6	0	0.00	Increase 16	Increase 0.15			16	0.15		
										525	18.26	

**TABLE B-1. SUMMARY TABLE  
STP/CPV MLLW INVENTORY CHANGES FOR REVISION 6.0**

CPV Section	Treatability Group	MWIR ID (by subgroup)	Net Covered Waste Inventory by Subgroup (reported in Rev. 4/5)		Revision 6 (3/98 FY97 Annual Update Changes)		Revision 6 (Other Changes)		Subtotal (by subgroup)		Net Covered Waste Inventory (including Rev. 6 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.2.1	Nonhalogenated Organic Liquids	LA-W908-0	275	14.34	Increase 0 <sup>g</sup>	Increase 0.076			271	13.82		
					Decrease 4	Decrease 0.49						
					Decrease 0 <sup>h</sup>	Decrease 0.11						
		LA-W908-4	409	3.38					409	3.38		
		LA-W908-5	130	2.91				130	2.91			
		LA-W908-6	0	0.00	Increase 33	Increase 0.09			33	0.09		
										843	20.20	
3.2.1	Bulk Oils	LA-W909-0	28	3.75	Increase 0 <sup>i</sup>	Increase 0.47			5	2.00		
					Decrease 23	Decrease 2.22						
		LA-W909-4	8	1.48					8	1.48		
		LA-W909-5	28	2.28					28	2.28		
		LA-W909-6	0	0.00	Increase 4	Increase 0.05			4	0.05		
										45	5.81	
3.2.1	PCB Wastes with RCRA Components	LA-W910-0	4	0.74	Increase 6	Increase 0.62 <sup>b</sup>			10	1.36		
		LA-W910-6	0	0.00	Increase 30	Increase 1.39			30	1.39		
										40	2.75	

**TABLE B-1. SUMMARY TABLE  
STP/CPV MLLW INVENTORY CHANGES FOR REVISION 6.0**

CPV Section	Treatability Group	MWIR ID (by subgroup)	Net Covered Waste Inventory by Subgroup (reported in Rev. 4/5)		Revision 6 (3/98 FY97 Annual Update Changes)		Revision 6 (Other Changes)		Subtotal (by subgroup)		Net Covered Waste Inventory (including Rev. 6 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.2.1	Liquid and Solid Oxidizers	LA-W923-0	6	0.117					6	0.117		
		LA-W923-4	67	0.145					67	0.145		
		LA-W923-5	13	0.317					13	0.317		
		LA-W923-6	0	0.00	Increase 7	Increase 0.795			7	0.795		
										93	1.37	
3.3	Lead Waste - TBD	LA-W924-0	129	40.16					129	40.16		
											129	40.16
3.3	Mercury Wastes - TBD	LA-W925-0	63	18.30					63	18.30		
		LA-W925-4	37	0.42					37	0.42		
		LA-W925-5	14	1.52					14	1.52		
		LA-W925-6	0	0.00	Increase 23	Increase 0.67			23	0.67		
										137	20.91	
3.3	Compressed Gases - TBD	LA-W926-0	10	1.25					10	1.25		
										10	1.25	
3.3	Biochemical Laboratory Wastes	LA-W927-0	9	1.34					9	1.34		
											9	1.34
3.3	Dewatered Treatment Sludge	LA-W928-0	61	12.71					61	12.71		
											61	12.71
3.3	Explosives	LA-W932-0	0	0.00					0	0.00		
		LA-W932-4	1	0.000001					1	0.000001		
											1	0.000001

**TABLE B-1. SUMMARY TABLE  
STP/CPV MLLW INVENTORY CHANGES FOR REVISION 6.0**

CPV Section	Treatability Group	MWIR ID (by subgroup)	Net Covered Waste Inventory by Subgroup (reported in Rev. 4/5)		Revision 6 (3/98 FY97 Annual Update Changes)		Revision 6 (Other Changes)		Subtotal (by subgroup)		Net Covered Waste Inventory (including Rev. 6 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.3	Lab Packs	LA-W933-0	0	0.00					0	0.00		
		LA-W933-4	114	0.17					114	0.17		
		LA-W933-5	28	0.13					28	0.13		
		LA-W933-6	0	0.00	Increase 6	Increase 0.003	Increase 1	Increase 0.00002 <sup>j</sup>	7	0.003		
										149	0.30	
3.4.1	Lead for Surface Decontamination	LA-W930-0	36	33.43	Decrease 1	Decrease 0.11 <sup>k</sup>			23	26.27		
					Decrease 4	Decrease 0.35 <sup>k</sup>						
					Decrease 6	Decrease 1.04						
					Decrease 2	Decrease 5.66						
		LA-W930-5	115	23.75	Decrease 1	Decrease 0.21 <sup>k</sup>			111	22.92		
		LA-W930-6	0	0.00	Decrease 3	Decrease 0.62 <sup>k</sup>			14	12.06		
					Increase 14	Increase 12.06					148	61.25

**TABLE B-1. SUMMARY TABLE  
STP/CPV MLLW INVENTORY CHANGES FOR REVISION 6.0**

CPV Section	Treatability Group	MWIR ID (by subgroup)	Net Covered Waste Inventory by Subgroup (reported in Rev. 4/5)		Revision 6 (3/98 FY97 Annual Update Changes)		Revision 6 (Other Changes)		Subtotal (by subgroup)		Net Covered Waste Inventory (including Rev. 6 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.4.2	Nonradioactive or Suspect Waste Items to be Surveyed	LA-W929-0	2	0.0076	Decrease 2	Decrease 0.0076			0	0.00	0	0.00
		LA-W929-5	1	0.00002			Decrease 1	Decrease 0.00002 <sup>j</sup>	0	0.00		
None <sup>l</sup>	Lead Requiring Sorting	LA-W931-0	23	4.76	Decrease 23	Decrease 4.78			0	0.00	12	1.08
		LA-W931-5	8	0.44	Increase 0 <sup>m</sup>	Increase 0.02			8	0.44		
		LA-W931-6	0	0.00	Increase 4	Increase 0.64			4	0.64		
None <sup>n</sup>	IPA	None	0	0.00	Increase 1	Increase 0.0005 <sup>n</sup>			0	0.00	0	0.00
					Decrease 1	Decrease 0.0005 <sup>n</sup>						

**TABLE B-1. SUMMARY TABLE  
STP/CPV MLLW INVENTORY CHANGES FOR REVISION 6.0**

CPV Section	Category	MWIR ID (by subgroup)	Net Covered Waste Inventory by Subgroup (reported in Rev. 4/5)		Revision 6 (3/98 FY97 Annual Update Changes)		Revision 6 (Other Changes)		Subtotal (by subgroup)		Net Covered Waste Inventory (including Rev. 6 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.5	Missing/nonexistent/TBV	NONE (Revision 5)	48	8.81					48	8.81	48	8.81

**NOTES:**

- <sup>a</sup> This correction in LA-W904 volume arises from an error in the Appendix B in Revision 4/5 as discussed in Revision 6.0.
- <sup>b</sup> This transfer of LA-W904 waste to LA-W910 was approved by NMED on September 18, 1997 as discussed in Revision 6.0
- <sup>c</sup> This transfer of LA-W904 waste to LA-W911 was approved by NMED on September 18, 1997 as discussed in Revision 6.0
- <sup>d</sup> This correction in LA-W906 volume arises from an error in the Appendix B in Revision 4/5 as discussed in Revision 6.0.
- <sup>e</sup> The volume increase arises from the return of unused treatability study sample. It has been returned to the original inventory of LA-W919 (subgroup -0) consistent with the inventory subgroup from which the sample was removed.
- <sup>f</sup> These 5 items in subgroups LA-W921-0 and -5 (0.89 m<sup>3</sup> total) were shipped on December 9, 1996 as discussed in DOE's letter dated December 24, 1996.
- <sup>g</sup> This increase in LA-W908 volume arises from an error in the original STP inventory data as discussed in Revision 6.0.
- <sup>h</sup> This decrease in LA-W908 volume arises from an error in the original STP inventory data as discussed in Revision 6.0.
- <sup>i</sup> This correction in LA-W909 volume arises from an error in Appendix B in Revision 4/5 as discussed in Revision 6.0.
- <sup>j</sup> This transfer of LA-W929 waste to LA-W933 is discussed in Revision 6.0.
- <sup>k</sup> The shipment of 0.32 m<sup>3</sup>, as reported in the FY97 STP Annual Update, consisted of 1 item (0.11 m<sup>3</sup>) from subgroup LA-W930-0 and 1 item (0.21 m<sup>3</sup>) from subgroup -5. The shipment of 0.97 m<sup>3</sup>, as reported in the FY97 STP Annual Update, consisted of 4 items (0.35 m<sup>3</sup>) from subgroup -0 and 3 items (0.62 m<sup>3</sup>) from subgroup -5.
- <sup>l</sup> This treatability group (LA-W931, *Lead Requiring Sorting*) is not listed in the CPV; however it is discussed in section 3.4.3 of the *Background Volume*.
- <sup>m</sup> This increase in LA-W931 volume arises from an error in the original STP inventory data as discussed in Revision 6.0.
- <sup>n</sup> This item of isopropyl alcohol waste was not included in the original STP inventory and it was shipped for treatment as discussed in DOE's letter dated January 9, 1997.

**EXHIBIT A**

**LOS ALAMOS NATIONAL  
LABORATORY**

**MIXED WASTE SITE TREATMENT PLAN**

**COMPLIANCE PLAN VOLUME (CPV)**

**BACKGROUND VOLUME**

**Revision 6.0**

**July 1998**

**(Rev. 6.0 7/98)**

## **1.0 PURPOSE AND SCOPE OF THE COMPLIANCE PLAN VOLUME**

### **1.1 Introduction**

On October 6, 1992, Congress passed the Federal Facility Compliance Act (FFC Act) to address compliance by the United States Department of Energy (DOE) with the land disposal restrictions (LDR) for the storage of mixed waste set forth in Section 3004(j) of RCRA. The FFC Act requires the 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 FFC Act 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, NMED is required by FFC Act to provide public notice, consider public comments, consult with the Environmental Protection Agency (EPA) and any other state in which a facility affected by the STP is located.

On March 31, 1995, DOE submitted its proposed STP to NMED for the treatment of mixed waste at the Los Alamos National Laboratory (LANL). On April 17, 1995, the public was given notice of and an opportunity to comment to NMED on the draft STP submitted by DOE. After considering public comment and otherwise complying with the FFC Act, NMED determined to approve the draft STP with modifications as provided in this document.

The STP is intended to fulfill the requirements of the FFC Act and establish an enforceable framework to allow DOE and the Regents of the University of California (Respondents) to achieve full compliance with LDR requirements under the New Mexico Hazardous Waste Act (HWA) and RCRA. The compliance dates set forth herein are enforceable time periods in which Respondents are required to develop treatment capacities and technologies, and treat or otherwise meet the requirements set forth for LDR under the HWA and RCRA. The STP will be fully implemented by a Compliance Order issued by NMED on or before October 6, 1995.

### **1.2 Contents**

The STP contains two volumes and is intended to bring Respondents into compliance with LDR storage prohibitions under the HWA and RCRA. The Compliance Plan Volume of the STP provides overall schedules, including compliance dates, for achieving compliance with LDR storage and treatment requirements for mixed waste at LANL. The Compliance Plan includes a schedule for the submittal of applications for permits, construction of treatment facilities, technology development, off-site transportation for treatment, 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. The Background Volume of the STP contains progress reports as required in the Compliance Order. Respondents shall carry out the activities described in the STP, including the Compliance Plan Volume of the STP, in accordance with the schedules and requirements set forth in the STP and the Order.

### **1.3 STP Revisions and Amendments**

The STP Compliance Plan Volume (CPV) 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 Federal Facility Compliance Order (FFCO), as amended and revised. Appendix A to the CPV provides a summary of these CPV changes, and of modifications to the FFCO since its issuance.

## 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 bring existing waste treatment technologies into operation, process backlogged and currently generated waste, include schedules required to develop new facilities and capacity for treatment and establish an overall time frame 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 on-site, the categories of activities for compliance dates identified in Table I shall apply. Compliance dates for the activities identified in Table I may be found in Section 3.1.

**Table I. 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 on-site, the categories of activities for compliance dates are identified in Table II and shall apply. Compliance dates for the activities identified in Table II may be found in Section 3.2.

**Table II. 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.
- E. Commence systems testing.
- F. Begin treating mixed waste.
- G. Complete treatment of existing wastes to applicable regulatory standards.

### **2.1.3 Requirements Pertaining to Radionuclide Separation**

The FFC Act 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 III. "Radionuclide separation" shall mean segregating the radioactive portion of the mixed waste from the hazardous portion of the mixed waste.

**Table III. Categories of Activities for Compliance Dates for Radionuclide Separation of Mixed Waste**

- 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.

### **2.1.4 Plans for Mixed Waste to be Shipped Off-site for Treatment**

In lieu of plans to treat mixed-waste on-site, DOE may treat waste at an off-site facility (at a commercial or non-commercial mixed waste treatment facility), or DOE may recycle waste at an off-site facility. Should DOE elect to use off-site recycling facilities in lieu of (or in combination with) treatment, it will follow the requirements prescribed in this Section in the same manner as if the waste was being shipped off-site for treatment. Any and all requirements

imposed by the off-site treatment/recycling facility and state regulatory, federal regulatory or other regulatory requirements applicable at the treatment/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 a non-commercial 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 off-site non-commercial 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 off-site for treatment/recycling at a non-commercial facility are identified in Table V.

Should DOE decide to treat or recycle waste at a commercial off-site facility, 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.

**Table IV. Activities for Mixed Waste to be Shipped Off-Site for Treatment or Recycling at a Commercial facility**

- |   |
|---|
| <ul style="list-style-type: none"><li>A. Meet all regulatory requirements for off-site shipment.</li><li>B. Provide documentation to NMED that waste has been received at an off-site facility for treatment or recycling within 45 working days of receipt of waste at the treatment facility.</li></ul> |
|---|

#### **2.1.4.1 Specific Site Requirements for Non-commercial Treatment Facilities**

##### **Shipment to Idaho National Engineering Laboratory**

Prior to shipment, Idaho National Engineering Laboratory 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 to INEL. Proper procedures including additional approvals (if necessary) and documentation shall be completed prior to the shipment of wastes to INEL. 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 INEL.

Shipments of low-level mixed wastes 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 off-site 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 V. Activities for Mixed Waste to be Shipped Off-Site for Treatment or Recycling at a Non-commercial facility**

A.	Request necessary approval from NMED for shipment of waste by category before shipping.
B.	Meet all regulatory requirements for off-site shipment.
C.	Provide documentation to NMED of confirmation of shipment date within 14 working days prior to sending waste to an off-site 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 off-site facility for treatment within 45 working days of receipt of waste at the off-site 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.

### **2.1.5 Plans Related to Other Mixed Waste Activities**

1. Activities other than the types of activities specifically called for in the FFC Act 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.

2. 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 Compliance Order. 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 Compliance Order.

### 3.0 LOW-LEVEL MIXED WASTE STREAMS

This Chapter presents proposed schedules for treatment technologies and the preferred options to treat low-level mixed waste streams (MLW or LLMW) at LANL. All preferred options not described below must be approved by NMED in accordance with the revision process pursuant to the Compliance Order.

The original October 4, 1995 STP inventory in each MLLW treatability group has been modified through the revision process in the FFCO. The table in CPV Appendix B provides a comprehensive summary of changes to the CPV covered waste inventories (additions, deletions, and shifts of waste between treatability groups) occurring as of the date of this revision. In Appendix B, 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 Sections of this chapter, 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. For a complete listing of volumes by subgroup for all treatability groups, please refer to Appendix B.

#### 3.1 Mixed Waste Streams for Which Technology Exists

The following subsections summarize LLMW treatability groups for which technology exists.

##### 3.1.1 Off-site Treatment by Thermal Treatment

**Treatability Group(s):**

**LLMW for Thermal Treatment (MWIR Treatment ID DS-S001)**

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
IPA wastes	LA-W901	D001, D009, F002, F003, F005	0	0.00
scintillation fluids	LA-W902	D001, F003, F005	0	0.00
<b>Totals</b>			<b>0</b>	<b>0.00</b>

**Treatment Technology:**

The waste will be treated at an off-site facility that combusts organic liquid waste. Should DOE decide to treat waste at an off-site non-commercial facility, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment option proposed by DOE prior to any shipment by DOE.

Activity	Compliance Dates
A. Meet all regulatory requirements prior to shipping waste	9/30/96
B. Complete shipping waste	12/30/96
C. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

**3.1.2 Off-site Treatment by Stabilization or Macroencapsulation**

**Treatability Group(s):**

**LLMW for Stabilization**

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (M <sup>3</sup> )
lead blankets	LA-W903	D007, D008	0	0.00
soil with heavy metals	LA-W904	D004, D005, D006, D007, D008, D009, D010, D011	3	0.45
ER soils	LA-W905	D028, D029, F001, F005, D010, D011	0	0.00
<b>Totals</b>			<b>3</b>	<b>0.45</b>

**Treatment Technology:**

The waste will be treated at an off-site facility that stabilizes or macroencapsulates wastes. Should DOE decide to treat waste at an off-site non-commercial facility, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment option proposed by DOE prior to any shipment by DOE.

Activity	Compliance Dates
A. Meet all regulatory requirements prior to shipping waste	05/30/97
B. Complete shipping waste	12/30/98
C. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

### 3.1.3 Evaporative Oxidation (MWIR Treatment ID GJ-S801C)

#### Treatability Group(s):

#### LLMW for Evaporative Oxidation/Off-site Treatment (preferred option)

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
aqueous organic liquids	LA-W906-0 LA-W906-4 LA-W906-5	D001, D002, D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D027, D028, D030, D032, D033, D034, D036, D037, D038, D039, D041, D042, D043, F001, F002, F003, F004, F005	173	10.32
<b>Totals</b>			<b>173</b>	<b>10.32</b>

Note: See below for additional wastes in this treatability group

#### Treatment Technology

The waste will be treated in a mobile treatment unit that will be fabricated off-site and operated on-site. Shipment off-site for treatment is a parallel preferred option. Should DOE decide to treat waste at an off-site non-commercial facility in lieu of plans to treat such waste on-site, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment option proposed by DOE prior to any shipment by DOE.

Any and all requirements imposed by the off-site treatment facility (commercial or non-commercial) and state regulatory, federal regulatory or other regulatory requirements applicable

at the treatment site shall be met 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 facility.

Activity	Compliance Dates
A. Submit permit application, amendment or modification to NMED	12/30/96
B. Initiate construction	As specified in the NMED permit.
C. Complete system test and commence operation and begin treating mixed waste	6/19/99
D. Complete treatment of existing wastes to applicable regulatory standards, or	2/09/00
E. Complete shipment of existing wastes for treatment to an off-site facility.	2/09/00
F. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

**Additional wastes**

The following additional wastes will require management in this category, according to the Activities and Compliance Dates listed below.

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
aqueous organic liquids	LA-W906-6	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	88	5.74
<b>Totals</b>			<b>88</b>	<b>5.74</b>

**Activities for wastes belonging to this treatability subgroup.**

Activity	Compliance Dates
G. Complete shipment of existing wastes for treatment to an off-site facility.	2/09/03
H. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

**3.1.4 Thermal Desorption (MWIR Treatment ID GJ-S801B)**

**LLMW for Thermal Desorption/Off-site Treatment (preferred option)**

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
organic-contaminated combustible solids	LA-W911	D001, D004, D008, D009, F001, F002, F003, F005	381	36.07
<b>Totals</b>			<b>381</b>	<b>36.07</b>

**LLMW for Thermal Desorption**

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
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	227	27.31
<b>Totals</b>			<b>227</b>	<b>27.31</b>

**Treatment Technology**

The waste will be treated in a mobile treatment unit that will be fabricated off-site and operated on-site. Shipment off-site for treatment is a parallel preferred option. Should DOE decide to treat waste at an off-site non-commercial facility in lieu of plans to treat such waste on-site, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment option proposed by DOE prior to any shipment by DOE.

Any and all requirements imposed by the off-site (commercial or non-commercial) treatment facility and state regulatory, federal regulatory or other regulatory requirements applicable at the treatment site shall be met 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 facility.

Activity	Compliance Dates
A. Submit permit application, amendment or modification to NMED	11/16/98
B. Initiate construction	As specified in the NMED permit
C. Complete system testing and commence operations and begin treating mixed waste	02/01/01
D. Complete treatment of existing wastes to applicable regulatory standards, or	02/14/02
E. Complete shipping of existing wastes to an off-site treatment facility.	02/14/02
F. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

### 3.1.5 Macroencapsulation (MWIR Treatment ID PX-S803)

**Treatability Group(s):**

**LLMW for Macroencapsulation/Off-site treatment (preferred option)**

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
combustible debris	LA-W912	D001, D002, D003, D005, D006, D007, D008, D009, D011, D035, F001, F002, F003, F005	103	15.17
<b>Totals</b>			<b>103</b>	<b>15.17</b>

### LLMW for Macroencapsulation

Treatability group		RCRA codes	Number of items	Net volume (m <sup>3</sup> )
activated or inseparable lead	LA-W921	D008	34	7.09
noncombustible debris	LA-W922	D001, D002, D004, D005, D006, D007, D008, D009, D010, D011	191	36.46
<b>Totals</b>			<b>225</b>	<b>43.55</b>

### Treatment Technology

The waste will be treated in a mobile treatment unit that will be fabricated off-site and operated on-site. Shipment off-site for treatment is a parallel preferred option. Should DOE decide to treat waste at an off-site non-commercial facility in lieu of plans to treat such waste on-site, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment option proposed by DOE prior to any shipment by DOE.

Any and all requirements imposed by the off-site (commercial or non-commercial) treatment facility and state regulatory, federal regulatory or other regulatory requirements applicable at the treatment site shall be met 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 facility.

Activity	Compliance Dates
A. Submit permit application, amendment or modification to NMED	01/04/98
B. Initiate construction	As specified in the NMED permit
C. Complete system testing and commence operation and begin treating mixed waste	02/01/00
D. Complete treatment of existing wastes to applicable regulatory standards, or	08/25/00
E. Complete shipping of existing wastes to an off-site treatment facility.	08/25/00
F. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

### 3.1.6 Chemical Plating Waste Treatment Skid (MWIR Treatment ID LA-S004)

#### Treatability Group(s):

#### LLMW for Chemical Plating Waste Skid/Off-site Treatment (preferred option)

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
aqueous wastes with heavy metals	LA-W913	D001, D002, D003, D004, D005, D006, D007, D008, D009, D010, D011	139	3.07
corrosive solutions	LA-W914	D001, D002	197	1.21
aqueous cyanides, nitrates, chromates, and arsenates	LA-W915	D001, D002, D003, D004, D005, D006, D007, D008, D009, D010, D011, F007, P029, P098	23	0.17
<b>Totals</b>			<b>359</b>	<b>4.45</b>

#### Treatment Technology

The waste will be treated in a mobile treatment unit that will be fabricated off-site and operated on-site. Shipment off-site for treatment is a parallel preferred option. Should DOE decide to treat waste at an off-site non-commercial facility in lieu of plans to treat such waste on-site, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the

affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment option proposed by DOE prior to any shipment by DOE.

Any and all requirements imposed by the off-site (commercial or non-commercial) treatment facility and state regulatory, federal regulatory or other regulatory requirements applicable at the treatment site shall be met 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 facility.

Activity	Compliance Dates
A. Resubmit revised permit application to NMED	10/30/96
B. Initiate construction	As specified in the NMED permit
C. Complete system testing and commence operations and begin treating mixed waste	03/17/00
D. Complete treatment of existing wastes to applicable regulatory standards, or	05/08/01
E. Complete shipping of existing wastes to an off-site treatment facility.	05/08/01
F. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

### 3.1.7 Water-reactive Metals Treatment Skid (MWIR Treatment ID LA-S003)

**Treatability Group(s):**

**LLMW for Water-Reactive Metals Skid/Off-site Treatment (preferred option)**

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
water-reactive wastes	LA-W916	D001, D003, D004, D005, D007, D008, D010, D011	113	7.05
<b>Totals</b>			<b>113</b>	<b>7.05</b>

**Treatment Technology**

The waste will be treated in a mobile treatment unit that will be fabricated on-site and operated on-site. Shipment off-site for treatment is a parallel preferred option. Should DOE decide to treat waste at an off-site non-commercial facility in lieu of plans to treat such waste on-site, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment option proposed by DOE prior to any shipment by DOE.

Any and all requirements imposed by the off-site (commercial or non-commercial) treatment facility and state regulatory, federal regulatory or other regulatory requirements applicable at the treatment site shall be met 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 facility.

Activity	Compliance Dates
A. Submit permit application, amendment or modification to NMED	06/30/01
B. Initiate construction	As specified in the NMED permit
C. Complete system testing and commence operations and begin treating mixed waste	09/09/03
D. Complete treatment of existing wastes to applicable regulatory standards, or	04/21/04
E. Complete shipping of existing wastes to an off-site treatment facility.	04/21/04
F. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

### 3.1.8 Gas-scrubbing Skid (MWIR Treatment ID LA-S801)

**Treatability Group(s):**

**LLMW for Gas-Scrubbing Skid/Off-site Treatment (preferred option)**

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
compressed gases requiring scrubbing	LA-W917	D001, D002, P056	13	0.35
<b>Totals</b>			<b>13</b>	<b>0.35</b>

#### Treatment Technology

The waste will be treated in a mobile treatment unit that will be fabricated on-site and operated on-site. Shipment off-site for treatment is a parallel preferred option. Should DOE decide to treat waste at an off-site non-commercial facility in lieu of plans to treat such waste on-site, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment option proposed by DOE prior to any shipment by DOE.

Any and all requirements imposed by the off-site (commercial or non-commercial) treatment facility and state regulatory, federal regulatory or other regulatory requirements applicable at the treatment site shall be met 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 facility.

Activity	Compliance Dates
A. Submit permit application, amendment or modification to NMED	03/10/98
B. Initiate construction	As specified in the NMED permit
C. Complete system testing and commence operations and begin treating mixed waste	05/10/02
D. Complete treatment of existing wastes to applicable regulatory standards, or	08/28/03
E. Complete shipping of existing wastes to an off-site treatment facility.	08/28/03
F. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

**3.1.9 Gas Oxidation Skid (MWIR Treatment ID LA-S801)**

**Treatability Group(s):**

**LLMW for Gas Oxidation Skid/Off-site Treatment (preferred option)**

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
compressed gases requiring oxidation	LA-W918	D001, U226	177	1.32
<b>Totals</b>			<b>177</b>	<b>1.32</b>

**Treatment Technology**

The waste will be treated in a mobile treatment unit that will be fabricated on-site and operated on-site. Shipment off-site for treatment is a parallel preferred option. Should DOE decide to treat waste at an off-site non-commercial facility in lieu of plans to treat such waste on-site, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment option proposed by DOE prior to any shipment by DOE.

Any and all requirements imposed by the off-site (commercial or non-commercial) treatment facility and state regulatory, federal regulatory or other regulatory requirements applicable at the treatment site shall be met 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 facility.

Activity	Compliance Dates
A. Submit permit application, amendment or modification to NMED	03/10/98
B. Initiate construction	As specified in the NMED permit
C. Complete system testing and commence operations and begin treating mixed waste	05/10/02
D. Complete treatment of existing wastes to applicable regulatory standards, or	08/28/03
E. Complete shipping of existing wastes to an off-site treatment facility.	08/28/03
F. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

### 3.1.10 Mercury Amalgamation (MWIR Treatment ID PI-S801)

**Treatability Group(s):**

**LLMW for Amalgamation/Off-site Treatment (preferred option)**

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
elemental mercury	LA-W920	D006, D009, F005	79	0.66
<b>Totals</b>			<b>79</b>	<b>0.66</b>

### Treatment Technology

The waste will be treated in a mobile treatment unit that will be fabricated off-site and operated on-site. Shipment off-site for treatment is a parallel preferred option. Should DOE decide to treat waste at an off-site non-commercial facility in lieu of plans to treat such waste on-site, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment option proposed by DOE prior to any shipment by DOE.

Any and all requirements imposed by the off-site (commercial or non-commercial) treatment facility and state regulatory, federal regulatory or other regulatory requirements applicable at the treatment site shall be met 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 facility.

Activity	Compliance Dates
A. Submit permit application, amendment or modification to NMED	01/30/98
B. Initiate construction	As specified in the NMED permit
C. Complete system testing and commence operations and begin treating mixed waste	06/05/00
D. Complete treatment of existing waste to applicable regulatory standards, or	11/15/00
E. Complete shipping of existing wastes to an off-site treatment facility.	11/15/00
F. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

### **3.2 Mixed Waste Streams for Which Technology Requires Adaptation or for Which No Technology Exists**

The following subsections summarize mixed waste streams for which technology requires adaptation or for which no technology exists.

### 3.2.1 Hydrothermal Processing

#### Treatability Group(s):

#### LLMW for Hydrothermal Processing/Off-site Treatment (preferred option)

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
halogenated organic liquids	LA-W907	D001, D002, D003, D007, D009, D010, D011, D018, D019, D022, D028, D029, D035, D043, F001, F002, F003, F004, F005, U077, U080, U226, U227, U228, U236	525	18.26
nonhalogenated organic liquids	LA-W908	D001, D002, D003, D004, D007, D008, D009, D011, D018, D038, D040, F002, F003, F004, F005, U002, U019, U154, U169, U188, U220, U246	843	20.20
bulk oils	LA-W909	D002, D004, D005, D006, D007, D008, D009, D010, D011, D021, D027, D039, F001, F002, F003, F005	45	5.81
PCB wastes with RCRA components	LA-W910	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	40	2.75
<b>Totals</b>			<b>1453</b>	<b>47.02</b>

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
Liquid and solid oxidizers	LA-W923	D001, D003, D005	93	1.37
<b>Totals</b>			<b>93</b>	<b>1.37</b>

#### Treatment Technology:

The preferred destruction treatment technology option for this treatability group is Hydrothermal Processing which is a technology that needs development for adaptation to treat radioactive and PCB-bearing waste. This treatment technology is being adapted at LANL and is expected to be developed into a mobile treatment unit. The GJPO schedule for deployment of the unit indicates its possible availability to LANL after February 2002. Shipment off-site for treatment is a parallel preferred option. Respondents shall submit treatment or off-site shipment schedules and

options for NMED's approval by November 30, 1998. Treatment or other options other than off-site shipment shall be carried out pursuant to the revision process. Off-site shipments must be completed by February 2002.

Should DOE decide to treat waste at an off-site non-commercial facility in lieu of plans to treat such waste on-site, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment option proposed by DOE prior to any shipment by DOE.

Any and all requirements imposed by the off-site (commercial or non-commercial) treatment facility and state regulatory, federal regulatory or other regulatory requirements applicable at the treatment site shall be met 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 facility.

### 3.3 Mixed Waste Requiring Further Characterization or for Which Technology Assessment Has Not Been Done (MWIR Treatment ID LA-S701)

#### Treatability Group(s):

Treatability group	MWIR waste ID	RCRA codes	Number of items	Net volume (m <sup>3</sup> )
lead wastes - TBD	LA-W924	D003, D008	129	40.16
mercury wastes - TBD	LA-W925-0	D007, D008, D009, F001	63	18.30
compressed gases - TBD	LA-W926	D001, D007, D009, D022, P056, U080, U226	10	1.25
biochemical laboratory wastes	LA-W927	D001, D003	9	1.34
dewatered treatment sludge	LA-W928	see Subsection 3.3 in the Background Volume	61	12.71
<b>Totals</b>			<b>272</b>	<b>73.76</b>

Note: See below for additional wastes in some of these treatability groups

#### Treatment Technology:

The following steps will be taken to properly characterize this waste:

- Conduct additional generator interviews
- Prepare a sampling plan for waste not adequately characterized

- Conduct sampling and analysis
- Determine treatment options

Activities for wastes originally belonging to these treatability groups as listed above.

Activity	Compliance Dates
A. Complete generator interviews	10/30/95
B. Complete sampling and analysis plan	1/30/96
C. Complete sampling and analysis	9/30/98
D. Complete determination of treatment options	12/20/98
E. Complete shipping of existing wastes to an off-site treatment facility, or submit documentation assigning waste items to applicable treatability groups.	12/20/00
F. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

**Additional wastes and treatability groups:**

The following additional wastes will require management in this category, according to the Activities and Compliance Dates listed below.

Treatability group	MWIR waste ID	RCRA Codes	Number of items	Net volume (m3)
mercury wastes-TBD	LA-W925-4 LA-W925-5 LA-W925-6	D003, D007, D008, D009, F001, F002, F005	74	2.61
<del>mercury wastes-TBD</del>	<del>LA-W925-5</del>	<del>D007, D008, D009, F001</del>	<del>14</del>	<del>1.52</del>
explosives	LA-W932	D003	1	0.000001
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	149	0.30
<b>Totals</b>			<b>224</b>	<b>2.91</b>

Activities for wastes belonging to these treatability groups and subgroups.

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 off-site treatment facility, or submit documentation assigning waste items to applicable treatability groups	12/20/03
K. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at off-site facility

### 3.4 Plans for Other Types of Activities

The following subsection summarizes plans for other types of activities.

#### 3.4.1 Lead Decontamination (MWIR Treatment ID LA-S001)/Off-site Treatment (preferred option)

##### Treatability Group(s):

Treatability group	MWIR waste ID	First category		Second category		Total	
		No. Items	Net volume (m <sup>3</sup> )	No. Items	Net volume (m <sup>3</sup> )	No. Items	Net volume (m <sup>3</sup> )
lead for surface contamination	LA-W930-0 LA-W930-5	0	0.00	134	49.19	134	49.19
<b>Totals</b>		<b>0</b>	<b>0.00</b>	<b>134</b>	<b>49.19</b>	<b>134</b>	<b>49.19</b>

Note: See below for additional wastes in this treatability group

##### Treatment Technology:

This treatability group contains two categories of lead for decontamination:

The first category is lead in the original LA-W930-0 inventory that is amenable to decontamination in the on-site lead decontamination trailer, which was designed to decontaminate simple lead shapes, such as lead bricks, of certain physical dimensions. The trailer is on-site and has operated, but needs an upgrade for prolonged operation.

The lead in the second category is lead in the original LA-W930-0 inventory that is not amenable to decontamination in the on-site lead decontamination trailer, plus subsequent additions to the original inventory shown in Appendix B. This lead will be processed using other on-site decontamination processes, such as dry sandblasting or hand-scrubbing, or sent to off-site lead decontamination services.

Any lead not acceptable for on-site or off-site lead decontamination, plus any lead unsuccessfully decontaminated, will be designated for treatment and disposal at an off-site

facility, or for recycle through an off-site 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.

Should DOE decide to treat or recycle waste at an off-site non-commercial facility in lieu of plans to treat or recycle such waste on-site, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment/recycle option proposed by DOE prior to any shipment by DOE.

Any and all requirements imposed by the off-site (commercial or non-commercial) treatment/recycling facility and state regulatory, federal regulatory or other regulatory requirements applicable at the treatment/recycling site shall be met 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.

Lead shapes and forms in the first category.

Activity	Compliance Date
A. Complete lead decontamination	09/30/97

Lead shapes and forms in the second category.

Activity	Compliance Date
A. Provide schedule for development of lead processing techniques and options	06/30/96
B. Segregate lead waste into decontamination groupings	07/31/97
C. Complete shipment of wastes to decontamination operations, or	12/02/98
D. Determine treatment/disposal or other recycle options for lead waste not acceptable for decontamination	12/02/98
E. Complete treatment/disposal operations or other recycle operations for lead waste not acceptable for decontamination	07/31/99
F. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

**Additional wastes**

The following additional wastes will require management in the second category, according to the Activities and Compliance Dates listed below.

Treatability group	MWIR waste ID	First category		Second category		Total	
		No. Items	Net volume (m <sup>3</sup> )	No. Items	Net volume (m <sup>3</sup> )	No. Items	Net volume (m <sup>3</sup> )
lead for surface contamination	LA-W930-6	0	0.00	14	12.06	14	12.06
<b>Totals</b>		<b>0</b>	<b>0.00</b>	<b>14</b>	<b>12.06</b>	<b>14</b>	<b>12.06</b>

Activities for wastes belonging to this treatability subgroup.

Activity	Compliance Date
G. Complete shipment of wastes to decontamination operations, or	12/02/99
H. Determine treatment/disposal or other recycle options for lead waste not acceptable for decontamination	12/02/99
I. Complete treatment/disposal operations or other recycle operations for lead waste not acceptable for decontamination	07/31/00
J. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

### 3.4.2 Sorting, Surveying, and Decontamination (MWIR Treatment ID GJ-S804)

#### Treatability Group(s):

Treatability group	MWIR waste ID	Number of items	Net volume (m <sup>3</sup> )
1. nonradioactive or suspect waste items to be surveyed	LA-W929-0(1)	0	0.0
2. nonradioactive or suspect waste items to receive RCRA and radiological characterization	LA-W929-0(2)	0	0.00
3. nonradioactive or suspect waste items that cannot or should not be sampled	LA-W929-0(3)	0	0.0
<b>Totals</b>		<b>0</b>	<b>0.00</b>

Note: See below for additional wastes in this treatability group

#### Treatment Technology:

The waste items in part 1 of the original volume in this treatability group will be surveyed using a field operation that will survey waste suspect of radioactive contamination to determine whether it is radioactively contaminated. The work will be done on-site with equipment and staffing provided by LANL or another DOE site. Waste determined not to be radioactively contaminated will be treated using commercial facilities permitted to treat hazardous waste; waste determined to be radioactively contaminated will be assigned to applicable treatability groups and/or sent to offsite facilities for appropriate treatment.

Waste items in part 2 of this treatability group will be surveyed using complete RCRA and radiological sampling and characterization. Waste sampled under this alternative will be treated and disposed as low-level mixed waste; the waste will be assigned to applicable treatability groups and/or sent to off-site facilities for appropriate treatment based on the results of this characterization.

Sampling for this characterization alternative will be conducted in accordance with RCRA SW-846 methods. To ensure an adequate volume of waste material is available for sampling and to maximize the cost effectiveness of the sampling activities, some lab packed and other waste items may be bulked into larger volume containers; all RCRA waste codes will be transferred to the bulked wastes to ensure correct RCRA categorization is maintained. It may be found, when preparing a given drum for sampling, (for example, solid small volume waste items that cannot be sampled in accordance with EPA SW-846 methods) are in fact not amenable to sampling and should have been included in the item count for group 3. If visual inspection so indicates, these waste items will be transferred to Group 3 and assigned to applicable treatability groups based on existing knowledge.

Waste items in part 3 of this treatability group which are confirmed not amenable to sampling (e.g., lead-acid batteries, spray paint cans) will be assigned to applicable treatability groups based on existing knowledge. It may be found, when inspecting a given drum, that some items can in fact be sampled in accordance with EPA SW-846 methods and should have been included in the item count for Group 2. If visual inspection so indicates, these waste items will be transferred to Group 2 and sampled accordingly.

Additional compliance dates will be proposed for any waste items in this treatability group found not to have available treatment/disposal options following a complete review of all survey, analytical, or visual inspection data obtained through these processes.

For all waste items in this treatability group, shipment off-site for treatment is a parallel preferred option. Should DOE decide to treat waste at an off-site non-commercial facility in lieu of plans to treat such waste on-site, the DOE shall notify the NMED Project Manager in writing as soon as possible and in any event within fourteen (14) working days after confirmation of a shipment date with the affected off-site facility. The NMED Project Manager shall approve in writing the off-site non-commercial treatment option proposed by DOE prior to any shipment by DOE.

Any and all requirements imposed by the off-site (commercial or non-commercial) treatment facility and state regulatory, federal regulatory or other regulatory requirements applicable at the treatment site shall be met by DOE. DOE will notify the NMED Project Manager in writing as soon as possible and in any event within (45) working days of receipt of waste at the treatment facility.

Activities for waste items in part 1 of this treatability group.

Activity	Compliance Dates
A. Complete field survey	10/30/96
B. Submit documentation declaring waste items as nonradioactive, or submit documentation assigning waste items to applicable treatability groups	2/28/97
C. Propose additional compliance dates if necessary	4/30/97

Activities for waste items in part 2 of this treatability group.

Activity	Compliance Dates
D. Complete RCRA and radiological sampling	1/28/97
E. Submit documentation assigning waste items to applicable treatability groups or proposing off-site shipment dates	2/28/97
F. Propose additional compliance dates if necessary	4/30/97

Activities for waste items in part 3 of this treatability group.

Activity	Compliance Dates
G. Complete visual verification	1/28/97
H. Submit documentation assigning waste items to applicable treatability groups or proposing off-site shipment dates	6/30/97
I. Propose additional compliance dates if necessary	9/30/97

**Additional wastes:**

Treatability group	MWIR waste ID	Number of items	Net volume (m <sup>3</sup> )
Nonradioactive or suspect waste items	LA-W929-5	0	0.00
<b>Totals</b>		<b>0</b>	<b>0.00</b>

Activities for items added as subgroup 5 of this treatability group.

Activity	Compliance Dates
J. Submit documentation assigning waste items to applicable treatability groups or proposing off-site shipment dates	3/31/98
K. Propose additional Compliance Dates if necessary	3/31/98

### 3.5 Management of "Missing" Items.

#### Waste Category:

Category	MWIR waste ID	No. Items	Net volume (m <sup>3</sup> )
Missing/nonexistent/TBV	None	48	8.81
<b>Totals</b>		<b>48</b>	<b>8.81</b>

#### Treatment Technology:

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 could not be verified as having ever been received in storage at LANL, and further follow-up investigations of the record files revealed that for various reasons, the waste items were never in fact generated, although on paper they were included in the original STP inventory.

In these instances, DOE and UC, and their contractors, perform a thorough inspection of both the physical inventories and the data files. When DOE and UC determine 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 and UC will re-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 off-site treatment. The final verification that all "*Missing/nonexistent/TBV*" items do not in fact exist 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, DOE and UC will request deletion of all items having been fully verified as missing or nonexistent.

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 TG. If necessary, they will be assigned new Activities and Compliance Dates, in accordance with the terms of the FFCO.

The following steps will be taken to verify presence or absence of this waste:

Activity	Compliance Dates
A. Initiate re-verification process on a shipment-by-shipment basis	01/03/98
B. Complete re-verification process	04/21/04
C. Re-assign any existing items to appropriate treatability groups	04/21/04
D. Complete treatment of existing wastes to applicable regulatory standards, or	10/30/04
E. Complete shipping of existing wastes to an off-site treatment facility	10/30/04
F. Provide documentation to NMED that waste was received at off-site facility	Within 45 days of receipt of waste at treatment facility

#### 4.0 MIXED TRANSURANIC WASTE

##### Treatment Group(s):

Assorted Mixed Transuranic Waste

##### Treatment Technology

Respondents are required to develop treatment technologies and treat mixed transuranic (MTRU) waste at LANL according to the schedule set forth below:

Activity	Compliance Date
A. Development of treatment technologies	June 30, 1999
B. Submit permit application amendment or modification to NMED for treatment of MTRU	December 31, 1999
C. Begin treating MTRU	Six (6) months after NMED permit issuance
D. Complete treatment of existing MTRU to applicable regulatory standards	December 31, 2010

The above schedule is not based on the assumption that WIPP will be a disposal option or that DOE will receive a variance from treatment standards for land disposal of MTRU waste to be disposed at WIPP. All revisions to compliance dates shall be in accordance with the procedures set forth in the compliance order.

## CPV APPENDIX A HISTORY OF STP REVISIONS AND AMENDMENTS

As discussed in CPV Section 1.3, the STP Compliance Plan Volume 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 Federal Facility Compliance Order, as amended and revised. This Appendix provides a summary of these CPV changes, and of modifications to the FFCO since its issuance.

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

**Table A-1. SUMMARY OF CHANGES TO THE CPV AND THE FFCO**

<b>Action</b>	<b>Document Modified</b>	<b>Effective Date</b>	<b>Effect on FFCO/STP</b>
Rev. 1.0	STP/CPV	6/12/96	Added off-site treatment as a parallel preferred option for most MLLW treatability groups
Rev. 2.0	STP/CPV	12/9/96	Reduced volume of LA-W928 by approving reclassification of sludges as LLW
Amendment 1.0	STP/CPV	10/30/96	Divided original volume of LA-W929 into three subgroups, and added new Activities and Compliance Dates
Rev. 3.0	STP/CPV	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/CPV	9/4/97	Extended CPV Activity 3.1.2B Compliance Date to 12/29/97
Rev. 4.0	STP/CPV	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/CPV	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 CPV Appendices, and deleted treated items
Rev. 6.0	STP/CPV	(to be added)	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

## CPV APPENDIX B

### SUMMARY OF CPV INVENTORY CHANGES

The following tables provide a comprehensive summary of changes to the CPV covered waste inventories (additions, deletions, and shifts of waste between treatability groups) occurring as of the date of this revision. The volumes given in the tables reflect changes to the individual MLLW treatability group volumes due to increases or decreases, as noted. Table B-1 reports the inventory changes arising from Revision 6.0, while Table B-2 reports the inventory changes previously approved.

#### Key to Reading the Subgroups

The original STP inventory in each MLLW treatability group is now denoted as subgroup -0 of that treatability group (e.g., the original volume of STP treatability group LA-W906 became LA-W906-0). The original October 4, 1995 STP inventory in each MLLW treatability group has been modified through the revision process in the FFCO. The following revisions have affected volumes in individual treatability groups to date:

Revision	Effect on Volumes
Rev. 2.0	Reduced volume of LA-W928
Rev. 3.0	Divided original volume of LA-W929 into three subgroups
Rev. 4.0	Transferred original volume of LA-W929 from three subgroups to other treatability groups, added new treatability groups
Rev. 5.0	Increased and decreased volumes in several treatability groups
Rev. 6.0	Increased and decreased volumes in several treatability groups, transferred the volume in LA-W929-5 to another treatability group

Each revision that has added volumes to individual treatability groups has resulted in creation of an additional subgroup of that treatability group, 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).

#### Additions and Deletions to Date

To date, MLLW inventory increases and decreases have been incorporated into the covered waste inventories through Revisions 2.0, 4.0, 5.0, and 6.0. Revision 2.0 incorporated decreases in treatability group LA-W928 due to deletion of covered waste items. Rev. 4.0 resulted in decreases to LA-W929 and increases in other TGs, primarily by transferring LA-W929 items to other TGs. Rev. 5.0 and 6.0 resulted in both additions to and deletions of covered waste volumes (i.e., increases and decreases) in a number of TGs. Therefore, the Appendix B tables that follow show that subgroups -4, -5, and -6 exist for some treatability groups, but not for all.

These tables provide a master list of MLLW inventory changes presented in the *Annual Updates*, to enable users of the STP to track all changes in the LANL MLLW covered waste inventory that occurred since the original STP inventory was established in the October 4, 1995 FFCO/CPV.

Changes (additions or deletions) to the CPV covered waste inventory have occurred since the end of FY97. However, only those reported as of Rev. 6.0 are included in this table. All others will be reported in the next *Annual Update* and associated revision request. Therefore, the "*Net Covered Waste Inventory*" may not fully reflect the actual CPV covered waste inventory as of the date of this revision, in some instances.

**TABLE B-1. SUMMARY TABLE  
STP/CPV MLLW INVENTORY CHANGES FOR REVISION 6.0**

CPV Section	Treatability Group	MWIR ID (by subgroup)	Net Covered Waste Inventory by Subgroup (reported in Rev. 4/5)		Revision 6 (3/98 FY97 Annual Update Changes)		Revision 6 (Other Changes)		Subtotal (by subgroup)		Net Covered Waste Inventory (including Rev. 6 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.1.1	IPA Wastes	LA-W901-0	7	0.02	Decrease 7	Decrease 0.02			0	0.00	0	0.00
3.1.1	Scintillation Fluids	LA-W902-0	1	0.0038	Decrease 1	Decrease 0.0038			0	0.00	0	0.00
3.1.2	Lead Blankets	LA-W903-0	0	0.00					0	0.00	0	0.00
3.1.2	Soil with Heavy Metals	LA-W904-0	58	<del>10.33</del> 10.43 <sup>a</sup>	Decrease 6	Decrease 0.62 <sup>b</sup>			2	0.34		
		LA-W904-5	1	0.11	Decrease 2	Decrease 0.42 <sup>c</sup>			1	0.11	3	0.45
3.1.2	ER Soils	LA-W905-0	0	0.00					0	0.00	0	0.00

**TABLE B-1. SUMMARY TABLE  
STP/CPV MLLW INVENTORY CHANGES FOR REVISION 6.0**

CPV Section	Treatability Group	MWIR ID (by subgroup)	Net Covered Waste Inventory by Subgroup (reported in Rev. 4/5)		Revision 6 (3/98 FY97 Annual Update Changes)		Revision 6 (Other Changes)		Subtotal (by subgroup)		Net Covered Waste Inventory (including Rev. 6 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.1.3	Aqueous Organic Liquids	LA-W906-0	45	1.65					45	1.65	261	16.06
		LA-W906-4	27	0.36					27	0.36		
		LA-W906-5	101	<del>8.88</del> 8.31 <sup>d</sup>					101	8.31		
		LA-W906-6	0	0.00	Increase 88	Increase 5.74			88	5.74		
3.1.4	Organic-Contaminated Combustible Solids	LA-W911-0	305	28.10	Increase 2	Increase 0.42 <sup>c</sup>			307	28.52	381	36.07
		LA-W911-4	33	0.68					33	0.68		
		LA-W911-5	40	6.87					40	6.87		
		LA-W911-6	0	0.00	Increase 1	Increase 0.0038			1	0.0038		
3.1.4	Organic-Contaminated Noncombustible Solids	LA-W919-0	79	7.71	Increase 1	Increase 0.11 <sup>e</sup>			80	7.82	227	27.31
		LA-W919-4	9	0.38					9	0.38		
		LA-W919-5	89	10.53					89	10.53		
		LA-W919-6	0	0.00	Increase 49	Increase 8.58			49	8.58		

**TABLE B-1. SUMMARY TABLE  
STP/CPV MLLW INVENTORY CHANGES FOR REVISION 6.0**

CPV Section	Treatability Group	MWIR ID (by subgroup)	Net Covered Waste Inventory by Subgroup (reported in Rev. 4/5)		Revision 6 (3/98 FY97 Annual Update Changes)		Revision 6 (Other Changes)		Subtotal (by subgroup)		Net Covered Waste Inventory (including Rev. 6 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.1.5	Combustible Debris	LA-W912-0	83	13.82					83	13.82		
		LA-W912-4	9	0.75					9	0.75		
		LA-W912-5	5	0.28					5	0.28		
		LA-W912-6	0	0.00	Increase 6	Increase 0.32			6	0.32		
											103	15.17
3.1.5	Activated or Inseparable Lead	LA-W921-0	14	4.77	Decrease 1	Decrease 0.06 <sup>f</sup>			11	2.99		
					Decrease 2	Decrease 1.72						
		LA-W921-5	18	3.35	Decrease 4	Decrease 0.83 <sup>f</sup>			14	2.52		
		LA-W921-6	0	0.00	Increase 9	Increase 1.58			9	1.58		
											34	7.09
3.15	Non-combustible Debris	LA-W922-0	41	5.62	Decrease 14	Decrease 2.915			27	2.71		
		LA-W922-4	53	2.83					53	2.83		
		LA-W922-5	63	22.29	Decrease 3	Decrease 0.62			60	21.67		
		LA-W922-6	0	0.00	Increase 51	Increase 9.25			51	9.25		
											191	36.46

**TABLE B-1. SUMMARY TABLE  
STP/CPV MLLW INVENTORY CHANGES FOR REVISION 6.0**

CPV Section	Treatability Group	MWIR ID (by subgroup)	Net Covered Waste Inventory by Subgroup (reported in Rev. 4/5)		Revision 6 (3/98 FY97 Annual Update Changes)		Revision 6 (Other Changes)		Subtotal (by subgroup)		Net Covered Waste Inventory (including Rev. 6 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.1.6	Aqueous Wastes with Heavy Metals	LA-W913-0	83	1.50					83	1.50		
		LA-W913-4	25	0.40					25	0.40		
		LA-W913-5	11	0.15					11	0.15		
		LA-W913-6	0	0.00	Increase 20	Increase 1.02			20	1.02		
										139	3.07	
3.1.6	Corrosive Solutions	LA-W914-0	60	0.69					60	0.69		
		LA-W914-4	90	0.36					90	0.36		
		LA-W914-5	39	0.12					39	0.12		
		LA-W914-6	0	0.00	Increase 8	Increase 0.04			8	0.04		
										197	1.21	
3.1.6	Aqueous Cyanides, Nitrates, Chromates, and Arsenates	LA-W915-0	9	0.13					9	0.13		
		LA-W915-4	3	0.002					3	0.002		
		LA-W915-5	11	0.04					11	0.04		
										23	0.17	
3.1.7	Water-Reactive Wastes	LA-W916-0	78	6.03					78	6.03		
		LA-W916-4	26	0.31					26	0.31		
		LA-W916-5	4	0.03					4	0.03		
		LA-W916-6	0	0.00	Increase 5	Increase 0.68			5	0.68		
										113	7.05	
3.1.8	Compressed Gases Requiring Scrubbing	LA-W917-0	13	0.35					13	0.35		
										13	0.35	

**TABLE B-1. SUMMARY TABLE  
STP/CPV MLLW INVENTORY CHANGES FOR REVISION 6.0**

CPV Section	Treatability Group	MWIR ID (by subgroup)	Net Covered Waste Inventory by Subgroup (reported in Rev. 4/5)		Revision 6 (3/98 FY97 Annual Update Changes)		Revision 6 (Other Changes)		Subtotal (by subgroup)		Net Covered Waste Inventory (including Rev. 6 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.1.9	Compressed Gases Requiring Oxidation	LA-W918-0	6	0.08					6	0.08		
		LA-W918-4	168	1.23					168	1.23		
		LA-W918-5	2	0.01					2	0.01		
		LA-W918-6	0	0.00	Increase 1	Increase 0.0002			1	0.0002		
											177	1.32
3.1.10	Elemental Mercury	LA-W920-0	45	0.50					45	0.50		
		LA-W920-4	20	0.02					20	0.02		
		LA-W920-5	9	0.02					9	0.02		
		LA-W920-6	0	0.00	Increase 5	Increase 0.12			5	0.12		
											79	0.66
3.2.1	Halogenated Organic Liquids	LA-W907-0	384	16.58	Decrease 3	Decrease 0.0076			381	16.57		
		LA-W907-4	97	1.05					97	1.05		
		LA-W907-5	31	0.49					31	0.49		
		LA-W907-6	0	0.00	Increase 16	Increase 0.15			16	0.15		
											525	18.26

**TABLE B-1. SUMMARY TABLE  
STP/CPV MLLW INVENTORY CHANGES FOR REVISION 6.0**

CPV Section	Treatability Group	MWIR ID (by subgroup)	Net Covered Waste Inventory by Subgroup (reported in Rev. 4/5)		Revision 6 (3/98 FY97 Annual Update Changes)		Revision 6 (Other Changes)		Subtotal (by subgroup)		Net Covered Waste Inventory (including Rev. 6 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.2.1	Nonhalogenated Organic Liquids	LA-W908-0	275	14.34	Increase 0 <sup>g</sup>	Increase 0.076			271	13.82		
					Decrease 4	Decrease 0.49						
					Decrease 0 <sup>h</sup>	Decrease 0.11						
		LA-W908-4	409	3.38					409	3.38		
		LA-W908-5	130	2.91				130	2.91			
		LA-W908-6	0	0.00	Increase 33	Increase 0.09			33	0.09		
										843	20.20	
3.2.1	Bulk Oils	LA-W909-0	28	3.75	Increase 0 <sup>i</sup>	Increase 0.47			5	2.00		
					Decrease 23	Decrease 2.22						
		LA-W909-4	8	1.48					8	1.48		
		LA-W909-5	28	2.28					28	2.28		
		LA-W909-6	0	0.00	Increase 4	Increase 0.05			4	0.05		
										45	5.81	
3.2.1	PCB Wastes with RCRA Components	LA-W910-0	4	0.74	Increase 6	Increase 0.62 <sup>b</sup>			10	1.36		
		LA-W910-6	0	0.00	Increase 30	Increase 1.39			30	1.39		
										40	2.75	

**TABLE B-1. SUMMARY TABLE  
STP/CPV MLLW INVENTORY CHANGES FOR REVISION 6.0**

CPV Section	Treatability Group	MWIR ID (by subgroup)	Net Covered Waste Inventory by Subgroup (reported in Rev. 4/5)		Revision 6 (3/98 FY97 Annual Update Changes)		Revision 6 (Other Changes)		Subtotal (by subgroup)		Net Covered Waste Inventory (including Rev. 6 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.2.1	Liquid and Solid Oxidizers	LA-W923-0	6	0.117					6	0.117	93	1.37
		LA-W923-4	67	0.145					67	0.145		
		LA-W923-5	13	0.317					13	0.317		
		LA-W923-6	0	0.00	Increase 7	Increase 0.795			7	0.795		
3.3	Lead Waste - TBD	LA-W924-0	129	40.16					129	40.16	129	40.16
3.3	Mercury Wastes - TBD	LA-W925-0	63	18.30					63	18.30	137	20.91
		LA-W925-4	37	0.42					37	0.42		
		LA-W925-5	14	1.52					14	1.52		
		LA-W925-6	0	0.00	Increase 23	Increase 0.67			23	0.67		
3.3	Compressed Gases - TBD	LA-W926-0	10	1.25					10	1.25	10	1.25
3.3	Biochemical Laboratory Wastes	LA-W927-0	9	1.34					9	1.34	9	1.34
3.3	Dewatered Treatment Sludge	LA-W928-0	61	12.71					61	12.71	61	12.71
3.3	Explosives	LA-W932-0	0	0.00					0	0.00	1	0.000001
		LA-W932-4	1	0.000001					1	0.000001		

**TABLE B-1. SUMMARY TABLE  
STP/CPV MLLW INVENTORY CHANGES FOR REVISION 6.0**

CPV Section	Treatability Group	MWIR ID (by subgroup)	Net Covered Waste Inventory by Subgroup (reported in Rev. 4/5)		Revision 6 (3/98 FY97 Annual Update Changes)		Revision 6 (Other Changes)		Subtotal (by subgroup)		Net Covered Waste Inventory (including Rev. 6 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.3	Lab Packs	LA-W933-0	0	0.00					0	0.00		
		LA-W933-4	114	0.17					114	0.17		
		LA-W933-5	28	0.13					28	0.13		
		LA-W933-6	0	0.00	Increase 6	Increase 0.003	Increase 1	Increase 0.00002 <sup>j</sup>	7	0.003		
											149	0.30
3.4.1	Lead for Surface Decontamination	LA-W930-0	36	33.43	Decrease 1	Decrease 0.11 <sup>k</sup>			23	26.27		
					Decrease 4	Decrease 0.35 <sup>k</sup>						
					Decrease 6	Decrease 1.04						
					Decrease 2	Decrease 5.66						
		LA-W930-5	115	23.75	Decrease 1	Decrease 0.21 <sup>k</sup>			111	22.92		
				Decrease 3	Decrease 0.62 <sup>k</sup>							
		LA-W930-6	0	0.00	Increase 14	Increase 12.06			14	12.06		
											148	61.25

**TABLE B-1. SUMMARY TABLE  
STP/CPV MLLW INVENTORY CHANGES FOR REVISION 6.0**

CPV Section	Treatability Group	MWIR ID (by subgroup)	Net Covered Waste Inventory by Subgroup (reported in Rev. 4/5)		Revision 6 (3/98 FY97 Annual Update Changes)		Revision 6 (Other Changes)		Subtotal (by subgroup)		Net Covered Waste Inventory (including Rev. 6 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.4.2	Nonradioactive or Suspect Waste Items to be Surveyed	LA-W929-0	2	0.0076	Decrease 2	Decrease 0.0076			0	0.00		
		LA-W929-5	1	0.00002			Decrease 1	Decrease 0.00002 <sup>j</sup>	0	0.00		
None <sup>i</sup>	Lead Requiring Sorting	LA-W931-0	23	4.76	Decrease 23	Decrease 4.78			0	0.00		
		LA-W931-5	8	0.44	Increase 0 <sup>m</sup>	Increase 0.02			8	0.44		
		LA-W931-6	0	0.00	Increase 4	Increase 0.64			4	0.64		
None <sup>n</sup>	IPA	None	0	0.00	Increase 1	Increase 0.0005 <sup>n</sup>			0	0.00		
					Decrease 1	Decrease 0.0005 <sup>n</sup>					0	0.00

**TABLE B-1. SUMMARY TABLE  
STP/CPV MLLW INVENTORY CHANGES FOR REVISION 6.0**

CPV Section	Category	MWIR ID (by subgroup)	Net Covered Waste Inventory by Subgroup (reported in Rev. 4/5)		Revision 6 (3/98 FY97 Annual Update Changes)		Revision 6 (Other Changes)		Subtotal (by subgroup)		Net Covered Waste Inventory (including Rev. 6 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.5	Missing/ nonexistent/ TBV	NONE (Revision 5)	48	8.81					48	8.81	48	8.81

**NOTES:**

- <sup>a</sup> This correction in LA-W904 volume arises from an error in the Appendix B in Revision 4/5 as discussed in Revision 6.0.
- <sup>b</sup> This transfer of LA-W904 waste to LA-W910 was approved by NMED on September 18, 1997 as discussed in Revision 6.0.
- <sup>c</sup> This transfer of LA-W904 waste to LA-W911 was approved by NMED on September 18, 1997 as discussed in Revision 6.0.
- <sup>d</sup> This correction in LA-W906 volume arises from an error in the Appendix B in Revision 4/5 as discussed in Revision 6.0.
- <sup>e</sup> The volume increase arises from the return of unused treatability study sample. It has been returned to the original inventory of LA-W919 (subgroup -0) consistent with the inventory subgroup from which the sample was removed.
- <sup>f</sup> These 5 items in subgroups LA-W921-0 and -5 (0.89 m<sup>3</sup> total) were shipped on December 9, 1996 as discussed in DOE's letter dated December 24, 1996.
- <sup>g</sup> This increase in LA-W908 volume arises from an error in the original STP inventory data as discussed in Revision 6.0.
- <sup>h</sup> This decrease in LA-W908 volume arises from an error in the original STP inventory data as discussed in Revision 6.0.
- <sup>i</sup> This correction in LA-W909 volume arises from an error in Appendix B in Revision 4/5 as discussed in Revision 6.0.
- <sup>j</sup> This transfer of LA-W929 waste to LA-W933 is discussed in Revision 6.0.
- <sup>k</sup> The shipment of 0.32 m<sup>3</sup>, as reported in the FY97 STP *Annual Update*, consisted of 1 item (0.11 m<sup>3</sup>) from subgroup LA-W930-0 and 1 item (0.21 m<sup>3</sup>) from subgroup -5. The shipment of 0.97 m<sup>3</sup>, as reported in the FY97 STP *Annual Update*, consisted of 4 items (0.35 m<sup>3</sup>) from subgroup -0 and 3 items (0.62 m<sup>3</sup>) from subgroup -5.
- <sup>l</sup> This treatability group (LA-W931, *Lead Requiring Sorting*) is not listed in the CPV; however it is discussed in section 3.4.3 of the *Background Volume*.
- <sup>m</sup> This increase in LA-W931 volume arises from an error in the original STP inventory data as discussed in Revision 6.0.
- <sup>n</sup> This item of isopropyl alcohol waste was not included in the original STP inventory and it was shipped for treatment as discussed in DOE's letter dated January 9, 1997.

**TABLE B-2. SUMMARY TABLE  
PREVIOUSLY REPORTED STP/CPV MLLW INVENTORY CHANGES (THROUGH REV. 4/5)**

CPV Section	Treatability Group	MWIR ID (by subgroup)	October 1995 CPV Inventory		Revision 2 Inventory Changes		Revision 4 Inventory Changes		Revision 5 (3/96 FY95 Update Changes)		Revision 5 (3/97 FY96 Update Changes)		Revision 5 (Other Changes)		Subtotal (by substream)		Net Covered Waste Inventory* (including Rev. 4/5 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.1.1	IPA Wastes	LA-W901-0	104	15.89							Decrease 96	Decrease 15.87	Decrease 1	Decrease 0.0005 <sup>b</sup>	7	0.02		
		LA-W901-5									Increase 0	Increase 4.11 <sup>c</sup>			0	0.00		
										Decrease 0	Decrease 4.11					7	0.02	
3.1.1	Scintillation Fluids	LA-W902-0	18	2.47					Decrease 15	Decrease 2.24	Decrease 2	Decrease 0.36			1	0.0038		
		LA-W902-5									Increase 0	Increase 0.13 <sup>c</sup>			0	0.00		
										Decrease 0	Decrease 0.13					1	0.0038	
3.1.2	Lead Blankets	LA-W903-0	4	0.74							Decrease 4	Decrease 0.74			0	0.00	0	0.00
3.1.2	Soil with Heavy Metals	LA-W904-0	59	10.53									Decrease 1	Decrease <del>0.2082</del> 0.1047 <sup>d,1</sup> (see Rev 6.0 for correction)	58	<del>10.33</del> 10.43		
		LA-W904-5									Increase 1	Increase 0.11			1	0.11	59	10.54 <del>10.44</del>
3.1.2	ER Soils	LA-W905-0	36	39.32							Decrease 36	Decrease 39.32			0	0.00	0	0.00

**TABLE B-2. SUMMARY TABLE  
PREVIOUSLY REPORTED STP/CPV MLLW INVENTORY CHANGES (THROUGH REV. 4/5)**

CPV Section	Treatability Group	MWIR ID (by subgroup)	October 1995 CPV Inventory		Revision 2 Inventory Changes		Revision 4 Inventory Changes		Revision 5 (3/96 FY95 Update Changes)		Revision 5 (3/97 FY96 Update Changes)		Revision 5 (Other Changes)		Subtotal (by substream)		Net Covered Waste Inventory* (including Rev. 4/5 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.1.3	Aqueous Organic Liquids	LA-W906-0	45	1.65											45	1.65	173	10.32
		LA-W906-4					Increase 27	Increase 0.36							27	0.36		
		LA-W906-5							Increase 3	Increase 0.43	Increase 73	Increase 3.62	Increase 1	Increase 0.0005 <sup>b</sup>	101	<del>8.88</del> 8.31		
												Increase 24	Increase <del>4.83</del> 4.26 <sup>a1</sup> <i>(see Rev 6.0 for correction)</i>					
3.1.4	Organic-Contaminated Combustible Solids	LA-W911-0	307	28.32					Decrease 1	Decrease 0.11	Decrease 1	Decrease 0.11			305	28.10	378	35.65
		LA-W911-4					Increase 33	Increase 0.68							33	0.68		
		LA-W911-5							Increase 2	Increase 0.17	Increase 31	Increase 5.24	Increase 7	Increase 1.46 <sup>e</sup>	40	6.87		

**TABLE B-2. SUMMARY TABLE  
PREVIOUSLY REPORTED STP/CPV MLLW INVENTORY CHANGES (THROUGH REV. 4/5)**

CPV Section	Treatability Group	MWIR ID (by subgroup)	October 1995 CPV Inventory		Revision 2 Inventory Changes		Revision 4 Inventory Changes		Revision 5 (3/96 FY95 Update Changes)		Revision 5 (3/97 FY96 Update Changes)		Revision 5 (Other Changes)		Subtotal (by substream)		Net Covered Waste Inventory* (including Rev. 4/5 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.1.4	Organic-Contaminated Noncombustible Solids	LA-W919-0	80	7.82					Decrease 1	Decrease 0.11					79	7.71	177	18.62
		LA-W919-4					Increase 9	Increase 0.38							9	0.38		
		LA-W919-5							Increase 9	Increase 0.001	Increase 74	Increase 9.58	Increase 6	Increase 0.95*	89	10.53		
3.1.5	Combustible Debris	LA-W912-0	83	13.82											83	13.82	97	14.85
		LA-W912-4					Increase 9	Increase 0.75							9	0.75		
		LA-W912-5									Increase 5	Increase 0.28			5	0.28		
3.1.5	Activated or Inseparable Lead	LA-W921-0	74	15.60					Decrease 37	Decrease 7.42	Decrease 23	Decrease 3.41			14	4.77	32	8.12
		LA-W21-5							Increase 51	Increase 10.11	Decrease 45	Decrease 9.05			18	3.35		
										Increase 12	Increase 2.29							

**TABLE B-2. SUMMARY TABLE  
PREVIOUSLY REPORTED STP/CPV MLLW INVENTORY CHANGES (THROUGH REV. 4/5)**

CPV Section	Treatability Group	MWIR ID (by subgroup)	October 1995 CPV Inventory		Revision 2 Inventory Changes		Revision 4 Inventory Changes		Revision 5 (3/96 FY95 Update Changes)		Revision 5 (3/97 FY96 Update Changes)		Revision 5 (Other Changes)		Subtotal (by substream)		Net Covered Waste Inventory* (including Rev. 4/5 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.1.5	Non-combustible Debris	LA-W922-0	41	5.62					Decrease +	Decrease -0002 <sup>b</sup>					41	5.62	157	30.74
		LA-W922-4					Increase 53	Increase 2.83							53	2.83		
		LA-W922-5							Increase 21	Increase 1.25	Increase 42	Increase 21.04			63	22.29		
3.1.6	Aqueous Wastes with Heavy Metals	LA-W913-0	203	1.85							Decrease 12	Decrease 0.030			83	1.50	119	2.05
		LA-W913-4					Increase 25	Increase 0.40							25	0.40		
		LA-W913-5									Increase 11	Increase 0.15			11	0.15		
3.1.6	Corrosive Solutions	LA-W914-0	162	1.36							Decrease 102	Decrease 0.67			60	0.69	189	1.17
		LA-W914-4					Increase 90	Increase 0.36							90	0.36		
		LA-W914-5							Increase 13	Increase 0.04	Increase 26	Increase 0.08			39	0.12		

**TABLE B-2. SUMMARY TABLE  
PREVIOUSLY REPORTED STP/CPV MLLW INVENTORY CHANGES (THROUGH REV. 4/5)**

CPV Section	Treatability Group	MWIR ID (by subgroup)	October 1995 CPV Inventory		Revision 2 Inventory Changes		Revision 4 Inventory Changes		Revision 5 (3/96 FY95 Update Changes)		Revision 5 (3/97 FY96 Update Changes)		Revision 5 (Other Changes)		Subtotal (by substream)		Net Covered Waste Inventory* (including Rev. 4/5 changes)			
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )		
3.1.6	Aqueous Cyanides, Nitrates, Chromates, and Arsenates	LA-W915-0	15	0.13					Decrease 1	Decrease 0.0003	Decrease 1	Decrease 0.0002			9	0.13				
		LA-W915-4					Increase 3	Increase 0.002			Decrease 4	Decrease 0.0031			3	0.002				
		LA-W915-5							Increase 4	Increase 0.02	Increase 7	Increase 0.02			11	0.04				
																23	0.17			
3.1.7	Water-Reactive Wastes	LA-W916-0	78	6.03											78	6.03				
		LA-W916-4					Increase 26	Increase 0.31							26	0.31				
		LA-W916-5							Increase 1	Increase 0.02	Increase 3	Increase 0.01			4	0.03				
																108	6.37			
3.1.8	Compressed Gases Requiring Scrubbing	LA-W917-0	13	0.35											13	0.35				
																	13	0.35		
3.1.9	Compressed Gases Requiring Oxidation	LA-W918-0	6	0.08											6	0.08				
		LA-W918-4					Increase 168	Increase 1.23							168	1.23				
		LA-W918-5									Increase 2	Increase 0.01			2	0.01				
																176	1.32			

**TABLE B-2. SUMMARY TABLE  
PREVIOUSLY REPORTED STP/CPV MLLW INVENTORY CHANGES (THROUGH REV. 4/5)**

CPV Section	Treatability Group	MWIR ID (by subgroup)	October 1995 CPV Inventory		Revision 2 Inventory Changes		Revision 4 Inventory Changes		Revision 5 (3/96 FY95 Update Changes)		Revision 5 (3/97 FY96 Update Changes)		Revision 5 (Other Changes)		Subtotal (by substream)		Net Covered Waste Inventory* (including Rev. 4/5 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.1.10	Elemental Mercury	LA-W920-0	45	0.50											45	0.50		
		LA-W920-4					Increase 20	Increase 0.02							20	0.02		
		LA-W920-5									Increase 9	Increase 0.02			9	0.02		
																74	0.54	
3.2.1	Halogenated Organic Liquids	LA-W907-0	385	16.58							Decrease 1	Decrease 0.0025			384	16.58		
		LA-W907-4					Increase 97	Increase 1.05							97	1.05		
		LA-W907-5							Increase 13	Increase 0.04	Increase 18	Increase 0.45			31	0.49		
																512	18.12	
3.2.1	Nonhalogenated Organic Liquids	LA-W908-0	275	14.34											275	14.34		
		LA-W908-4					Increase 409	Increase 3.38							409	3.38		
		LA-W908-5							Increase 53	Increase 0.08	Increase 77	Increase 2.83			130	2.91		
																814	20.63	

**TABLE B-2. SUMMARY TABLE  
PREVIOUSLY REPORTED STP/CPV MLLW INVENTORY CHANGES (THROUGH REV. 4/5)**

CPV Section	Treatability Group	MWIR ID (by subgroup)	October 1995 CPV Inventory		Revision 2 Inventory Changes		Revision 4 Inventory Changes		Revision 5 (3/96 FY95 Update Changes)		Revision 5 (3/97 FY96 Update Changes)		Revision 5 (Other Changes)		Subtotal (by substream)		Net Covered Waste Inventory* (including Rev. 4/5 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.2.1	Bulk Oils	LA-W909-0	28	3.75											28	3.75		
		LA-W909-4					Increase 8	Increase 1.48							8	1.48		
		LA-W909-5									Increase 28	Increase 2.28			28	2.28		
																64	7.51	
3.2.1	PCB Wastes with RCRA Components	LA-W910-0	4	0.74											4	0.74		
																	4	0.74
3.2.1	Liquid and Solid Oxidizers	LA-W923-0	55	0.20							Decrease 49	Decrease 0.0834			6	0.117		
		LA-W923-4					Increase 67	Increase 0.145							67	0.145		
		LA-W923-5							Increase 24	Increase 0.32	Decrease 11	De - crease 0.0034			13	0.317		
																86	0.58	
3.3	Lead Waste - TBD	LA-W924-0	186	51.44					Decrease 57	De- crease 11.28					129	40.16		
																	129	40.16
3.3	Mercury Wastes - TBD	LA-W925-0	63	18.30											63	18.30		
		LA-W925-4					Increase 37	Increase 0.42							37	0.42		
		LA-W925-5									Increase 14	Increase 1.52			14	1.52		
																114	20.24	
3.3	Compressed Gases - TBD	LA-W926-0	10	1.25											10	1.25		
																	10	1.25

**TABLE B-2. SUMMARY TABLE  
PREVIOUSLY REPORTED STP/CPV MLLW INVENTORY CHANGES (THROUGH REV. 4/5)**

CPV Section	Treatability Group	MWIR ID (by subgroup)	October 1995 CPV Inventory		Revision 2 Inventory Changes		Revision 4 Inventory Changes		Revision 5 (3/96 FY95 Update Changes)		Revision 5 (3/97 FY96 Update Changes)		Revision 5 (Other Changes)		Subtotal (by substream)		Net Covered Waste Inventory* (including Rev. 4/5 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.3	Biochemical Laboratory Wastes	LA-W927-0	9	1.34											9	1.34	9	1.34
3.3	Dewatered Treatment Sludge	LA-W928-0	1288	268.17	Decrease 1227	Decrease 255.46									61	12.71	61	12.71
3.4.1	Lead for Surface Decontamination	LA-W930-0	125	56.20					Decrease 83	Decrease 14.43 <sup>f</sup>			Decrease 6	Decrease 8.34 <sup>d</sup>	36	33.43		
		LA-W930-5							Increase 109	Increase 22.50	Increase 6	Increase 1.25			115	23.75	151	57.18
3.4.2	Nonradioactive or Suspect Waste Items to be Surveyed	LA-W929-0	1250	14.24			Decrease 1196	Decrease 13.97	Decrease 4	Decrease 0.002 <sup>b</sup>	Decrease 2	Decrease 0.00094			2	0.0076 <sup>e</sup>		
		LA-W929-5					Decrease 41	Decrease 0.26 <sup>d</sup>			Decrease 9	Decrease 0.0029			1	0.00002	3	0.0076 <sup>e</sup>
None	Lead Requiring Sorting	LA-W931-0	48	9.97					Decrease 22	Decrease 4.58	Decrease 3	Decrease 0.63			23	4.76		
		LA-W931-5							Increase 28	Increase 5.73	Decrease 28	Decrease 5.73			8	0.44		
										Increase 8	Increase 0.44					31	5.20	

**TABLE B-2. SUMMARY TABLE  
PREVIOUSLY REPORTED STP/CPV MLLW INVENTORY CHANGES (THROUGH REV. 4/5)**

CPV Section	Treatability Group	MWIR ID (by subgroup)	October 1995 CPV Inventory		Revision 2 Inventory Changes		Revision 4 Inventory Changes		Revision 5 (3/96 FY95 Update Changes)		Revision 5 (3/97 FY96 Update Changes)		Revision 5 (Other Changes)		Subtotal (by substream)		Net Covered Waste Inventory* (including Rev. 4/5 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.3	Explosives	LA-W932-0	0	0.00											0	0.00	1	0.000001
		LA-W932-4					Increase 1	Increase 0.000001							1	0.000001		
3.3	Lab Packs	LA-W933-0	0	0.00											0	0.00	142	0.30
		LA-W933-4					Increase 114	Increase 0.17							114	0.17		
		LA-W933-5									Increase 28	Increase 0.13			28	0.13		

CPV Section	Category	MWIR ID (by substream)	October, 1995 CPV Inventory		Revision 2 Inventory Changes		Revision 4 Inventory Changes		Revision 5 (3/96 FY95 Update Changes)		Revision 5 (3/97 FY96 Update Changes)		Revision 5 (Other Changes)		Subtotal (by substream)		Net Covered Waste Inventory* (including Rev. 4/5 changes)	
			Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )	Items	Volume (m <sup>3</sup> )
3.5	Missing/non-existent/TBV	NONE											Increase 1	Increase 0.2082 <sup>d</sup>				
													Increase 41	Increase 0.26 <sup>d</sup>				
													Increase 6	Increase 8.34 <sup>d</sup>			48	8.81

**TABLE B-2. SUMMARY TABLE  
PREVIOUSLY REPORTED STP/CPV MLLW INVENTORY CHANGES (THROUGH REV. 4/5)**

**NOTES:**

- <sup>a</sup> Changes (additions or deletions) to the CPV covered waste inventory have occurred since the end of FY96; however, only those reported as Rev. 5.0 "Other Changes" are included in this table. All others will be reported in the March, 1998 FY97 *Annual Update* and associated revision request. Therefore, the "Net Covered Waste Inventory" may not fully reflect the ACTUAL CPV covered waste inventory as of the date of this revision, in some instances.
- <sup>b</sup> As reported in DOE's January 31, 1997 letter, the volume associated with the 104<sup>th</sup> LA-W901-0 item (0.0005 m<sup>3</sup>) was repackaged, and bulked with other LA-W906 wastes in 1991, prior to issuance of the original STP. Since this "missing" item has now been located, its volume is being formally transferred to LA-W906 and will be managed as such.
- <sup>c</sup> The 4.11 m<sup>3</sup> volume shown for LA-W901, and the 0.13m<sup>3</sup> volume shown for LA-W902 are corrections, to reflect the actual volumes shipped in FY96. As reported in the March, 1997 FY96 *Annual Update*, the volume changes for LA-W901 and LA-W902 in FY96 were based on current data in LANL's waste database. They are consistent with the original documentation submitted by the waste generator, and they are representative of actual volumes of these wastes when shipped for treatment. The volumes used during the preparation of the original STP were erroneous, thereby resulting in more waste being shipped than reported in the original STP inventory. This volume inconsistency was discussed in DOE's January 31, 1997 letter.
- <sup>d</sup> These items from LA-W904, LA-W929, and LA-W930 have been determined to be missing or nonexistent. They are being transferred to the category "Missing/Nonexistent/TBV" until their presence or absence are fully and finally verified.
- <sup>e</sup> Although a number of changes (additions or deletions) to the CPV covered waste inventory have occurred since the end of FY96, only those reported here as Rev. 5.0 "Other Changes" are included in this table. These represent additional waste items that became covered waste after the end of FY96, for which opportunities exist for treatment during FY98. All other covered waste inventory changes since the end of FY96 will be reported in the March, 1998 FY97 *Annual Update*.
- <sup>f</sup> This represents a correction to the March, 1996 FY95 *Annual Update* for LA-W930, which had reported that 84 items (14.64 m<sup>3</sup>) had been removed from inventory. This was incorrect because one drum that had been returned to storage without the database being updated to reflect it was in storage instead of decontaminated.
- <sup>g</sup> Two items in the original STP inventory for LA-W929, *Sort, Survey, and Decontamination*, were shipped to DSSI for treatment on December 18, 1996. This change in the covered waste volume will be reflected in the March, 1998 FY97 *Annual Update*, and will be deleted from the CPV inventory in the associated revision. Therefore, these two items were reported as treated in the various submittals associated with Revision 4 of the STP, but were reported in the March, 1997 FY96 *Annual Update* (and are shown here) as having been in inventory as of September 30, 1996.
- <sup>h</sup> This represents a correction to the March, 1996 FY95 *Annual Update*. It was reported that one LA-W922 item (0.0002 m<sup>3</sup>) and 4 LA-W929 items (0.002 m<sup>3</sup>) had been removed from inventory. This was incorrect because these items had been repacked into different containers, and are still in inventory.
- <sup>i</sup> For LA-W906, Rev. 5.0 (Other Changes), the correct volume associated with this increase is 4.26 m<sup>3</sup> for LA-W904, Rev. 5.0 (Other Changes), the correct decrease is 0.105 m<sup>3</sup>. Both of these corrections are discussed and implemented in Rev 6.0.