

AR TARGET SHEET

The following document was too large to scan as one unit, therefore, it has been broken down into sections.

EDMC#: 0064670

SECTION: 3 OF 3

DOCUMENT #: DOE/RL-2005-23, Rev 000

TITLE: CY 2004 Hanford Site Mixed
Waste Land Disposal Restrictions
Report

LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

- 1.1 **Treatability Group Name:** MLLW-08 - Unique Waste
- 1.2 **Description of waste (list WSRd numbers for this waste stream, as applicable)**
 BER, 821, 823, 84A. This waste stream consists of unique wastes that requires special processing not typically employed for the other MLLW waste streams. Example includes beryllium powder, requiring RMETL or RTHRM. See 40 CFR 268.42 for the definitions of RMETL or RTHRM.

2.0 WASTE INVENTORY AND GENERATION

- 2.1 **Current total inventory for this waste stream (stored waste only, not accumulation areas). [Equals sum of location-specific data sheets for this treatability group.]**
 Total volume (cubic meters): 27.410
- 2.2 **Estimated generation projection by calendar year: [equals annual sums of location-specific data sheets for this treatability group].**

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.0 WASTE STREAM CHARACTERIZATION

- 3.1 **Radiological Characteristics**
- 3.1.1 **Mixed waste type:** High-level Transuranic Low-level
- 3.1.2 **Handling (as package contents would need to be handled during treatment):**
 Contact-handled Remote-handled
- 3.1.3 **Comments on radiological characteristics (e.g., more specific information on content, treatment concerns caused by radiation, confidence level):**
 Since the waste is a general category based on dangerous waste physical characteristics, the radiological characteristics are expected to vary greatly. There is a high confidence that the waste is CH-MLLW.

LDR REPORT TREATABILITY GROUP DATA SHEET

3.2 Physical Form

3.2.1 Physical form of the waste:

- Solid Liquid Semi-solid Debris
 Other (Describe in comments.)

3.2.2 Comments on physical form:

None.

3.3 Regulated constituents and wastewater/non-wastewater category

3.3.1 Wastewater/non-wastewater under RCRA

- Wastewater Non-wastewater Unknown

3.3.2 Regulated constituents table including treatment requirements and UHCs, if applicable.

EPA/ State Number	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D001	Ignitable	Ignitable Charac.	***	***	DEACT and meet 40 CFR 268.48
D008	TC-Lead	Lead Charac.	***	***	0.75 mg/l TCLP and meet 40 CFR 268.48
D018	Benzene	N/A	***	***	10 and meet 268.48
D027	Dichlorobenzene	N/A	***	***	p-Dichlorobenzene (1,4-Dichlorobenzene)
D030	2,4-Dinitrotoluene	N/A	***	***	140 and meet 268.48
D035	Methyl Ethyle Ketone	N/A	***	***	36 and meet 268.48
D038	Pyridine	N/A	***	***	16 and meet 268.48
F003	Acetone & Hexone	Spent Solvent	<160 mg/kg	***	160 mg/kg
F004	o-Cresol & p-Cresol	Spent Solvent	<5.6 mg/kg	***	5.6 mg/kg
F005	Methyl Ethyl Ketone	Spent Solvent	<36 mg/kg	***	36 mg/kg
F027	Various Dioxins	N/A	***	***	Various see 40 CFR 268.40
P015	Beryllium Dust	N/A	***	***	RMETL or RTHRM
U041	Epichlorohydrin (1-Chloro-2,3-epoxypropane)	N/A	***	***	CMBST
WP01	Persistent Criteria	N/A	***	***	State EHW

* LDR Subcategory marked N/A if no existing subcategory adequately describes this waste, or if there are no defined subcategories for the waste number (40 CFR 268.40).

** If waste is not consistent in concentration, this may not apply. Described in Section 3.3.6.

*** The concentration varies and is based on process knowledge and/or analytical data.

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3.3.3 List any waste numbers from Section 3.3.2 for which the waste stream already meets established LDR treatment standards.

- List:
 No LDR treatment required (e.g. TRUM waste destined for WIPP, exclusion, etc.)
 None (i.e. all constituents/waste numbers of this waste stream still require treatment).

3.3.4 Does this waste stream contain PCBs?

- Yes No Unknown

If no or unknown, skip to Section 3.3.5.

3.3.4.1 Is waste stream subject to TSCA regulations for PCBs?

- Yes No Unknown

3.3.4.2 Indicate the PCB concentration range.

- < 50 ppm \$ 50 ppm Unknown

3.3.5 What is the confidence level for the regulated constituents?

- Low Medium High

3.3.6 Comments on regulated constituents and wastewater/non-wastewater category:

None.

4.0 WASTE STREAM TREATMENT

4.1 Is this waste stream currently being treated?

- Yes No

If yes, provide details: N/A

4.2 Planned treatment: Check the appropriate box indicating future plans for treating this waste stream to meet applicable regulations, including LDR treatment standards.

- No treatment required (skip to Section 5.0)
 Treating or plan to treat on site
 Treating or plan to treat off site
 Treatment options still being assessed

4.3 Planned treatment method, facility, extent of treatment capacity available:

No treatment path is currently in place for this waste stream. There is no treatment capability for dioxins in the United States.

4.4 Treatment schedule information:

LDR REPORT TREATABILITY GROUP DATA SHEET

There are no treatment campaigns planned for this waste stream until after 2006, to allow the volume to accumulate for performance of more cost-effective treatment. Treatment will be performed in accordance with M-91 milestones and target dates after they have been finalized.

4.5 Applicable Tri-Party Agreement treatment milestone numbers (including permitting):

Milestone Number	Due Date
N/A	N/A

4.6 Proposed new Tri-Party Agreement treatment milestones:

None

4.7 If treating or planning to treat on site, was or will waste minimization be addressed in developing and/or selecting the treatment method?

Yes No Unknown

If yes, describe: N/A.

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment or already in place.

None.

4.9 Key Assumptions:

None.

5.0 WASTE STREAM DISPOSAL

After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):

Treated waste will be disposed of in mixed waste trenches located on the Hanford Site.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: CWC Waste Stream: Unique Waste
Treatability Group Name: MLLW-08 - Unique Waste

1.2 Applicable profile number(s) for this waste stream:

N/A

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

This waste stream consists of beryllium (P015), F027 contaminated waste and waste with unique processing concerns

1.3.2 History of how and where the waste was/is generated:

The waste was generated at onsite locations and placed into storage at CWC.

1.3.3 Source of the regulated constituents:

See 1.3.1 and 1.3.2.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Process knowledge.

1.3.5 Additional notes:

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

- Container (pad) Container (covered) Container (retrievably buried)
 Tank DST SST
 Other (explain):

2.1.1 How was the waste managed prior to storage?

Accumulated and packaged as waste by waste generators prior to storage at CWC.

2.1.2 Timeframe when waste was placed to storage?

Waste storage at CWC began in 1988 and continues.

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
CWC	2

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.420

Date of inventory values: 12/29/2004

Comments on waste inventory:

Based on inventory residing at the CWC as reported in SWITS for WSRds 400, and 821.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

No issues with CWC storage based on 20 year waste generation forecast.

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list):

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date
A&E-SEC-02-001	01/21/2002

Assessment has been scheduled. Scheduled date:

Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
M-020-12	10/31/1991

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

Yes No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

None planned. This waste is not generated at CWC.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

These activities occur before waste is transferred/shipped to CWC. There are few opportunities to reduce waste volumes placed into storage.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m³

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

There is no generation projected by CWC.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: T Plant Complex Waste Stream: MW Requiring Special Processing

Treatability Group Name: MLLW-08 - Unique Waste

1.2 Applicable profile number(s) for this waste stream:

WSRD: 84A.

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

Waste that requires unique processing and evaluation prior to treatment.

1.3.2 History of how and where the waste was/is generated:

Waste is generated at the T Plant Complex and is also received and stored at the T Plant Complex from various onsite locations and also by offsite generators

1.3.3 Source of the regulated constituents:

See 1.3.1 and 1.3.2.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Process knowledge and analytical.

1.3.5 Additional notes:

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

- Container (pad) Container (covered) Container (retrievably buried)
 Tank DST SST
 Other (explain):

2.1.1 How was the waste managed prior to storage?

Waste generated at the T Plant Complex and from onsite locations and also by offsite generators.

2.1.2 Timeframe when waste was placed to storage?

1995 through 2000.

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
T Plant Complex	7

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 23.220

Date of inventory values: 12/31/2004

Comments on waste inventory:

Inventory will fluctuate as T Plant Complex generates waste, or performs waste storage and treatment/verification of onsite/offsite generators.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list): N/A

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date
01-A&E-012	11/28/2000

Assessment has been scheduled. Scheduled date: 3rd quarter CY2005.

Other. Explain:

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2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

Yes No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

Characterization needs are determined after the containers are opened and the contents are examined because the containers have failed verification. Once the containers are opened, the container is either reassigned to another treatability group/WSRD data sheet or it is declared non-mixed waste. Any containers declared non-mixed waste will be removed from the LDR report. Further characterization of mixed waste containers, if needed, is anticipated to be performed as necessary to support the results of the M-091 TPA settlement agreement.

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

N/A

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Waste minimization techniques are used, where possible, during generation and treatment processing.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m³

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

The T Plant Complex has submitted a P2/Wmin fiscal year 2004 goal to reduce, where possible, mixed waste generation. For FY 2004 to 2008, new goals will be evaluated and identified on a year by year basis. The T Plant Complex does not track waste reduction by treatability groups. Routine and non-routine generated waste is reported quarterly to the Waste Minimization/Pollution Prevention Group.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** WRAP **Waste Stream:** Unique Waste
Treatability Group Name: MLLW-08 - Unique Waste

1.2 **Applicable profile number(s) for this waste stream:**

WSRd 84A.

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

This waste stream results from NDE activities that identify partially characterized containers with unique processing concerns.

1.3.2 **History of how and where the waste was/is generated:**

The waste was generated at onsite locations and sent to WRAP for further processing.

1.3.3 **Source of the regulated constituents:**

See 1.3.1 and 1.3.2.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Analytical data and Process knowledge.

1.3.5 **Additional notes:**

WRAP does not generate this waste stream, rather it results from the reprocessing of waste from various facilities.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

- Container (pad) Container (covered) Container (retrievably buried)
 Tank DST SST
 Other (explain):

2.1.1 **How was the waste managed prior to storage?**

Accumulated and packaged as waste by waste generators prior to storage at WRAP.

2.1.2 **Timeframe when waste was placed to storage?**

Waste was accepted at WRAP at various times.

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2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
2336W	1
2404WB	13

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 3.770

Date of inventory values: 12/31/2004

Comments on waste inventory:

Based on inventory residing at WRAP as reported in SWITS for WSRd 84A. The WSRd for these containers will be changed at a later time consistent with the defined waste stream classification.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

Due to proximity to and interchange with CWC, there is no storage capacity issue at WRAP.

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list):

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date
DE-AC06-96RL13200	09/26/2001

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Assessment has been scheduled. Scheduled date:

Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

Yes No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

These containers are a result of reprocessing at the WRAP facility. Additional characterization may be performed prior to assigning appropriate WSRd.

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

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If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

N/A

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

WRAP does not generate this waste stream, rather these containers are a result of other generating facilities.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m³

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

There is no generation projected by WRAP.

LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

- 1.1 Treatability Group Name:** MLLW-09 - Lead-Acid and Cadmium Batteries
- 1.2 Description of waste (list WSRd numbers for this waste stream, as applicable)**
 BAT and 830. This waste consists of lead-acid, mercury, silver and cadmium batteries from various onsite locations and from offsite generators.

2.0 WASTE INVENTORY AND GENERATION

- 2.1 Current total inventory for this waste stream (stored waste only, not accumulation areas). [Equals sum of location-specific data sheets for this treatability group.]**
 Total volume (cubic meters): 11.996
- 2.2 Estimated generation projection by calendar year: [equals annual sums of location-specific data sheets for this treatability group].**

Year	m ³	and/or	kg
2005	1.106		
2006	0.936		
2007	4.216		
2008	0.816		
2009	0.416		
Total	7.490		

3.0 WASTE STREAM CHARACTERIZATION

- 3.1 Radiological Characteristics**
- 3.1.1 Mixed waste type:** High-level Transuranic Low-level
- 3.1.2 Handling (as package contents would need to be handled during treatment):**
 Contact-handled Remote-handled
- 3.1.3 Comments on radiological characteristics (e.g., more specific information on content, treatment concerns caused by radiation, confidence level):**
 Since this waste is a general category based on dangerous waste physical characteristics, the radiological characteristics are expected to vary greatly. There is a high confidence that the waste is CH-MLLW.
- 3.2 Physical Form**
- 3.2.1 Physical form of the waste:**
 Solid Liquid Semi-solid Debris
 Other (Describe in comments.)
- 3.2.2 Comments on physical form:**
 A typical container will have either lead-acid or cadmium batteries, but not both.

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3.3 Regulated constituents and wastewater/non-wastewater category

3.3.1 Wastewater/non-wastewater under RCRA

Wastewater Non-wastewater Unknown

3.3.2 Regulated constituents table including treatment requirements and UHCs, if applicable.

EPA/ State Number	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D002	Corrosive	Corrosive Charac.	***	***	DEACT and meet 40 CFR 268.48
D004	TC-Arsenic	N/A	***	***	5.0 mg/l TCLP and meet 40 CFR 268.48
D006	Cadmium	Cadmium Containing Batteries	N/A	Process Knowledge	RTHRM
D008	Lead	Rad Lead Solids	N/A	Process Knowledge	MACRO (2)
D009	TC-Mercury	Low Mercury	<260 mg/kg	***	0.20 mg/l TCLP and meet 40 CFR 268.48
D011	Silver	N/A	***	***	0.14 mg/l TCLP and meet 268.48
D039	Tetrachloroethylene	N/A	***	***	6.0 and meet 268.48
WP02	Persistent HOC	N/A	***	***	N/A
WSC2	Solid Corrosive	N/A	<=2.5 pH	***	Remove Solid Acid Charac.
WT01	Toxic, EHW	N/A	***	***	N/A
WT02	Toxic, DW	N/A	***	***	N/A

* LDR Subcategory marked N/A if no existing subcategory adequately describes this waste, or if there are no defined subcategories for the waste number (40 CFR 268.40).

** If waste is not consistent in concentration, this may not apply. Described in Section 3.3.6.

*** The concentration varies and is based on process knowledge and/or analytical data.

(1) Mixed extremely hazardous wastes may be land-disposed in Washington State in DOE facilities in accordance with RCW 70.105.050(2).

(2) EPA has determined that the proper subcategory and the proper treatment standard for radioactively contaminated lead acid batteries are Radioactive Lead Solids and MACRO respectively. See letter dated August 9, 2001 from Elizabeth A Cotsworth, Director, Office of Solid Waste, EPA, to Andy Lawrence, Director, Office of Environmental Policy and Guidance, DOE.

UHCs to be determined on a per-package basis during waste receipt, from characterization activities, or when the waste is sent for treatment.

3.3.3 List any waste numbers from Section 3.3.2 for which the waste stream already meets established LDR treatment standards.

List:

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- No LDR treatment required (e.g. TRUM waste destined for WIPP, exclusion, etc.)
 None (i.e. all constituents/waste numbers of this waste stream still require treatment).

3.3.4 Does this waste stream contain PCBs?

- Yes No Unknown

If no or unknown, skip to Section 3.3.5.

3.3.4.1 Is waste stream subject to TSCA regulations for PCBs?

- Yes No Unknown

3.3.4.2 Indicate the PCB concentration range.

- < 50 ppm \$ 50 ppm Unknown

3.3.5 What is the confidence level for the regulated constituents?

- Low Medium High

3.3.6 Comments on regulated constituents and wastewater/non-wastewater category:

Confidence is high that the waste packages contain lead acid or cadmium batteries.

4.0 WASTE STREAM TREATMENT

4.1 Is this waste stream currently being treated?

- Yes No

If yes, provide details: N/A

4.2 Planned treatment: Check the appropriate box indicating future plans for treating this waste stream to meet applicable regulations, including LDR treatment standards.

- No treatment required (skip to Section 5.0)
 Treating or plan to treat on site
 Treating or plan to treat off site
 Treatment options still being assessed

4.3 Planned treatment method, facility, extent of treatment capacity available:

Currently, the federal regulations provide an LDR Subcategory for cadmium, mercury, silver batteries which allows macroencapsulation. Recently, Washington State Department of Ecology adopted this regulation. This allows treatment under current treatment contract for debris non-thermal treatment.

4.4 Treatment schedule information:

Treatment will be performed in accordance with M-91 milestones and target dates after they have been finalized.

4.5 Applicable Tri-Party Agreement treatment milestone numbers (including permitting):

LDR REPORT TREATABILITY GROUP DATA SHEET

Milestone Number	Due Date
N/A	N/A

4.6 Proposed new Tri-Party Agreement treatment milestones:

None

4.7 If treating or planning to treat on site, was or will waste minimization be addressed in developing and/or selecting the treatment method?

Yes No Unknown

If yes, describe: N/A.

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment or already in place.

The treatment path for cadmium, mercury, and silver batteries is managed under the debris non-thermal contract. Lead acid batteries are exempted from RATHERM and alternatively treated under macroencapsulation.

4.9 Key Assumptions:

None.

5.0 WASTE STREAM DISPOSAL

After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):

Treated waste will be disposed of in mixed waste trenches located on the Hanford Site.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** 200 Areas D&D waste **Waste Stream:** Lead-acid batteries
Treatability Group Name: MLLW-09 - Lead-Acid and Cadmium Batteries

1.2 **Applicable profile number(s) for this waste stream:**

None at this time.

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

Discarded lead acid and cadmium batteries generated during D&D activities in the 200 Areas.

1.3.2 **History of how and where the waste was/is generated:**

Lead acid and cadmium batteries removed from surplus buildings prior to demolition.

1.3.3 **Source of the regulated constituents:**

Batteries that were used in emergency lights and other equipment.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Process knowledge.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

- Container (pad) Container (covered) Container (retrievably buried)
 Tank DST SST
 Other (explain):

2.1.1 **How was the waste managed prior to storage?**

N/A

2.1.2 **Timeframe when waste was placed to storage?**

N/A

2.2 **Storage inventory locations:**

Building/Room Number	Number of Containers/Tanks
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.416

Date of inventory values: 12/31/2004

Comments on waste inventory:

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list):

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	0.416		
2006	0.416		
2007	0.416		
2008	0.416		
2009	0.416		
Total	2.080		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date

Assessment has been scheduled. Scheduled date:

Other. Explain: Storage assessment not required.

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

Yes No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

N/A

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

D&D Projects has a waste minimization program. A hierarchical approach to environmental management is applied to all types of pollution and waste generating activities. Pollution prevention and waste minimization, through source reduction, is the preferred option, followed by environmentally safe recycling. Treatment to reduce the quantity, toxicity, and/or mobility will be considered only when prevention or recycling is not possible or practical. Environmentally safe disposal is the last option. Segregation is applicable in all of these activities.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m³

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** 324 **Waste Stream:** Pb & Cd Batteries
Treatability Group Name: MLLW-09 - Lead-Acid and Cadmium Batteries

1.2 **Applicable profile number(s) for this waste stream:**

N/A

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

Lead acid and cadmium batteries.

1.3.2 **History of how and where the waste was/is generated:**

Used lead acid and cadmium batteries.

1.3.3 **Source of the regulated constituents:**

Batteries containing hazardous constituents..

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Process knowledge.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

- Container (pad) Container (covered) Container (retrievably buried)
 Tank DST SST
 Other (explain):

2.1.1 **How was the waste managed prior to storage?**

N/A

2.1.2 **Timeframe when waste was placed to storage?**

N/A

2.2 **Storage inventory locations:**

Building/Room Number	Number of Containers/Tanks
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

SAA waste.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list): N/A

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	0.000		
2006	0.200		
2007	0.000		
2008	0.200		
2009	0.000		
Total	0.400		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date

Assessment has been scheduled. Scheduled date:

Other. Explain: Storage assessment not required.

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

Yes No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

Not scheduled at this time.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Non-radiological contaminated batteries will be recycled, when possible.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m³

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

Facility deactivation and surveillance/maintenance planning.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** 327 **Waste Stream:** Pb & Cd Batteries
Treatability Group Name: MLLW-09 - Lead-Acid and Cadmium Batteries

1.2 **Applicable profile number(s) for this waste stream:**

N/A

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

Lead acid and cadmium batteries.

1.3.2 **History of how and where the waste was/is generated:**

Batteries that were used in emergency lights and other equipment.

1.3.3 **Source of the regulated constituents:**

Batteries containing lead acid and cadmium.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Process knowledge.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

Container (pad) Container (covered) Container (retrievably buried)

Tank DST SST

Other (explain):

2.1.1 **How was the waste managed prior to storage?**

N/A

2.1.2 **Timeframe when waste was placed to storage?**

N/A

2.2 **Storage inventory locations:**

Building/Room Number	Number of Containers/Tanks
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

Waste is being accumulated in SAA.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list): N/A

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	3.600		
2008	0.000		
2009	0.000		
Total	3.600		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date

Assessment has been scheduled. Scheduled date:

Other. Explain: Storage assessment not required.

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

Yes No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

Not scheduled at this time.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Batteries that can be radiological released are recycled. Batteries that are radiological contaminated will be disposed of as mixed waste.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m³

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

Facility deactivation and surveillance/maintenance planning.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** CWC **Waste Stream:** Pb & Cd Batteries
Treatability Group Name: MLLW-09 - Lead-Acid and Cadmium Batteries

1.2 **Applicable profile number(s) for this waste stream:**

N/A

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

The waste stream consists of regulated batteries.

1.3.2 **History of how and where the waste was/is generated:**

The waste was generated at many onsite locations and also by offsite generators.

1.3.3 **Source of the regulated constituents:**

See 1.3.1 and 1.3.2.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Process knowledge.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

- Container (pad) Container (covered) Container (retrievably buried)
 Tank DST SST
 Other (explain):

2.1.1 **How was the waste managed prior to storage?**

Accumulated and packaged by waste generators prior to storage at CWC.

2.1.2 **Timeframe when waste was placed to storage?**

Waste storage at CWC began in 1988 and continues.

2.2 **Storage inventory locations:**

Building/Room Number	Number of Containers/Tanks
CWC	57

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 11.580

Date of inventory values: 12/29/2004

Comments on waste inventory:

Inventory based on data for containers residing at the CWC as reported in the SWITS for WSRd numbers BAT, BLD, 504, 606, 626, 646, 802, 812, and 830.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

No issues with CWC storage based on 20 year waste generation forecast.

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list):

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date
A&E-SEC-02-001	01/21/2002

Assessment has been scheduled. Scheduled date:

Other. Explain:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
M-020-12	10/31/1991

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

Yes No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

None planned - waste not generated at CWC.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

These activities occur before the wastes are transferred/shipped to CWC. There are few opportunities to reduce waste volumes placed into storage.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m³

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

There is no projected generation by CWC.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** PFP **Waste Stream:** Batteries, Lead
Treatability Group Name: MLLW-09 - Lead-Acid and Cadmium Batteries

1.2 **Applicable profile number(s) for this waste stream:**
PFPX-802-0001

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

Lead acid and cadmium batteries.

1.3.2 **History of how and where the waste was/is generated:**

Batteries that were used in emergency lights and other equipment.

1.3.3 **Source of the regulated constituents:**

Batteries containing lead acid and cadmium.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Process knowledge

1.3.5 **Additional notes:**

None

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

- Container (pad) Container (covered) Container (retrievably buried)
 Tank DST SST
 Other (explain):

2.1.1 **How was the waste managed prior to storage?**

N/A

2.1.2 **Timeframe when waste was placed to storage?**

N/A

2.2 **Storage inventory locations:**

Building/Room Number	Number of Containers/Tanks
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

Waste is placed directly into SAA upon generation.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

None.

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list):

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	0.690		
2006	0.320		
2007	0.200		
2008	0.200		
2009	0.000		
Total	1.410		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date
PPF Env. Compliance Assess.; Ltr. #01-A&E-129	09/13/2001

Assessment has been scheduled. Scheduled date:

Other. Explain:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

Yes No

If yes, summarize releases and quantities and provide date:

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

Yes No

If yes, explain:

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.12 Other key assumptions related to storage, inventory, and generation information:

None

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted:

If yes, provide document number or other identification:

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

See section 3.2 below.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Batteries that can be radiologically released are recycled. Batteries that are radiologically contaminated will be disposed of as mixed waste.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m³

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

N/A

LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

- 1.1 **Treatability Group Name:** MLLW-10 - Reactive Metals
- 1.2 **Description of waste (list WSRd numbers for this waste stream, as applicable)**
 ENA, 44A, 44B, 820, 822, 82A. This waste consists of water-reactive metals and compounds, typically including sodium metal. May also consist of water-reactive cyanides.

2.0 WASTE INVENTORY AND GENERATION

- 2.1 **Current total inventory for this waste stream (stored waste only, not accumulation areas). [Equals sum of location-specific data sheets for this treatability group.]**
 Total volume (cubic meters): 25.040
- 2.2 **Estimated generation projection by calendar year: [equals annual sums of location-specific data sheets for this treatability group].**

Year	m ³	and/or	kg
2005	0.001		0.000
2006	0.001		0.002
2007	0.001		0.003
2008	0.001		0.003
2009	0.001		0.002
Total	0.005		0.010

3.0 WASTE STREAM CHARACTERIZATION

- 3.1 **Radiological Characteristics**
- 3.1.1 **Mixed waste type:** High-level Transuranic Low-level
- 3.1.2 **Handling (as package contents would need to be handled during treatment):**
 Contact-handled Remote-handled
- 3.1.3 **Comments on radiological characteristics (e.g., more specific information on content, treatment concerns caused by radiation, confidence level):**
 Since the waste is a general category based on dangerous waste physical characteristics, the radiological characteristics are expected to vary greatly. There is a high confidence that the waste is CH-MLLW.

3.2 **Physical Form**

- 3.2.1 **Physical form of the waste:**
 Solid Liquid Semi-solid Debris
 Other (Describe in comments.)
- 3.2.2 **Comments on physical form:**
 A typical container consists of waste contaminated with reactive components.

LDR REPORT TREATABILITY GROUP DATA SHEET

3.3 Regulated constituents and wastewater/non-wastewater category

3.3.1 Wastewater/non-wastewater under RCRA

Wastewater Non-wastewater Unknown

3.3.2 Regulated constituents table including treatment requirements and UHCs, if applicable.

EPA/ State Number	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D001	Ignitable	Low TOC	***	***	DEACT and meet 268.48 standards
D002	Corrosive	Corrosive Charac.	***	***	DEACT and meet 268.48 standards
D003	Reactive	Other Reactives	N/A	Process Knowledge	DEACT and meet 268.48 standards
D003	Reactive	Reactive Cyanides	N/A	Process Knowledge	590/30 mg/kg
D003	Reactive	Water Reactive	N/A	Process Knowledge	DEACT and meet 268.48 standards
D005	TC-Barium	N/A	***	***	21 mg/l TCLP & meet 40 CFR 268.48
D007	TC-Chromium	N/A	***	***	0.60 mg/l TCLP & meet 40 CFR 268.48
WSC2	Solid Corrosive	N/A	***	***	Remove Solid Acid Charac.
WT02	Toxic, DW	N/A	***	***	N/A

* LDR Subcategory marked N/A if no existing subcategory adequately describes this waste, or if there are no defined subcategories for the waste number (40 CFR 268.40).

** If waste is not consistent in concentration, this may not apply. Described in Section 3.3.6.

*** The concentration varies and is based on process knowledge and/or analytical data.

3.3.3 List any waste numbers from Section 3.3.2 for which the waste stream already meets established LDR treatment standards.

- List:
- No LDR treatment required (e.g. TRUM waste destined for WIPP, exclusion, etc.)
- None (i.e. all constituents/waste numbers of this waste stream still require treatment).

LDR REPORT TREATABILITY GROUP DATA SHEET

3.3.4 Does this waste stream contain PCBs?

Yes No Unknown

If no or unknown, skip to Section 3.3.5.

3.3.4.1 Is waste stream subject to TSCA regulations for PCBs?

Yes No Unknown

3.3.4.2 Indicate the PCB concentration range.

< 50 ppm \$ 50 ppm Unknown

3.3.5 What is the confidence level for the regulated constituents?

Low Medium High

3.3.6 Comments on regulated constituents and wastewater/non-wastewater category:

Confidence is high that the waste package contains reactive waste contamination.

4.0 WASTE STREAM TREATMENT

4.1 Is this waste stream currently being treated?

Yes No

If yes, provide details: N/A

4.2 Planned treatment: Check the appropriate box indicating future plans for treating this waste stream to meet applicable regulations, including LDR treatment standards.

- No treatment required (skip to Section 5.0)
 Treating or plan to treat on site
 Treating or plan to treat off site
 Treatment options still being assessed

4.3 Planned treatment method, facility, extent of treatment capacity available:

No treatment plans for this waste stream have been completed.

4.4 Treatment schedule information:

Treatment will be performed in accordance with M-91 milestones and target dates after they have been finalized.

4.5 Applicable Tri-Party Agreement treatment milestone numbers (including permitting):

Milestone Number	Due Date
N/A	N/A

4.6 Proposed new Tri-Party Agreement treatment milestones:

None

LDR REPORT TREATABILITY GROUP DATA SHEET

4.7 If treating or planning to treat on site, was or will waste minimization be addressed in developing and/or selecting the treatment method?

Yes No Unknown

If yes, describe: N/A.

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment or already in place.

None.

4.9 Key Assumptions:

None.

5.0 WASTE STREAM DISPOSAL

After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):

Treated waste will be disposed of in mixed waste trenches located on the Hanford Site.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** 324 **Waste Stream:** Reactive Metals
Treatability Group Name: MLLW-10 - Reactive Metals

1.2 **Applicable profile number(s) for this waste stream:**

N/A

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

Used or discarded thermal expansion device, dosimeter set, and tensile sheet specimen.

1.3.2 **History of how and where the waste was/is generated:**

Used or discarded materials.

1.3.3 **Source of the regulated constituents:**

Elemental Lithium and Sodium

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Identified during an LDR Assessment of the 324 building.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

Container (pad) Container (covered) Container (retrievably buried)

Tank DST SST

Other (explain):

2.1.1 **How was the waste managed prior to storage?**

N/A

2.1.2 **Timeframe when waste was placed to storage?**

N/A

2.2 **Storage inventory locations:**

Building/Room Number	Number of Containers/Tanks
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

In Shielded Material Facility (SMF). Matrix will be managed as newly identified waste during SMF cleanout.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list): Re-use material or to CWC.

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	0.000		0.000
2006	0.000		0.002
2007	0.000		0.003
2008	0.000		0.003
2009	0.000		0.002
Total	0.000		0.010

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date
324-LDR-S/A	02/26/2003

Assessment has been scheduled. Scheduled date:

Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
M-094-03	09/30/2010

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

Yes No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

2.12 Other key assumptions related to storage, inventory, and generation information:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

N/A

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Waste is storing in a totally enclosed facility

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m³

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		0.000
2006	0.000		0.000
2007	0.000		0.000
2008	0.000		0.000
2009	0.000		0.002
Total	0.000		0.002

3.3.3 Bases and assumptions used in above estimates:

Facility deactivation and surveillance/maintenance planning.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** CWC **Waste Stream:** Alkali metals
Treatability Group Name: MLLW-10 - Reactive Metals

1.2 **Applicable profile number(s) for this waste stream:**

N/A

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

Reactive Metal Waste - Reactive metal (e.g. sodium, lithium, calcium), metal hydrides, borohydrides and related compounds packaged in a form that is sufficiently stable for extended storage.

1.3.2 **History of how and where the waste was/is generated:**

The waste was generated at various onsite locations.

1.3.3 **Source of the regulated constituents:**

See 1.3.1 and 1.3.2.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Process knowledge.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

- Container (pad) Container (covered) Container (retrievably buried)
 Tank DST SST
 Other (explain):

2.1.1 **How was the waste managed prior to storage?**

Accumulated and packaged by waste generators prior to storage at CWC.

2.1.2 **Timeframe when waste was placed to storage?**

Waste storage at CWC began in 1988 and continues.

2.2 **Storage inventory locations:**

Building/Room Number	Number of Containers/Tanks
CWC	59

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 25.040

Date of inventory values: 12/29/2004

Comments on waste inventory:

Inventory based on data for containers residing at the CWC as reported in the SWITS for WSRds 44A, 820, 822, 82A, DBR, and ENA.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

No issues with CWC storage based on 20 year waste generation forecast.

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list):

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date
A&E-SEC-02-001	01/21/2002

Assessment has been scheduled. Scheduled date:

Other. Explain:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
M-020-12	10/31/1991

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

Yes No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

None planned - waste not generated at CWC

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

These activities occur before the wastes are transferred/shipped to CWC. There are few opportunities to reduce waste volumes placed into storage.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m³

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

There is no projected generation by CWC.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: FFTF Waste Stream: Reactive Metals
Treatability Group Name: MLLW-10 - Reactive Metals

1.2 Applicable profile number(s) for this waste stream:
H599.

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

Small pieces of metallic sodium collected during refueling and maintenance activities. The size of each piece usually range from tablespoon size to 1/4 cup. The volume generated depends on the amount of refueling and maintenance activities that are taking place.

1.3.2 History of how and where the waste was/is generated:

Generated during refueling/maintenance activities when working with system components.

1.3.3 Source of the regulated constituents:

Small pieces of sodium from the system may be attached to components during maintenance and refueling activities. The sodium needs to be removed before Maintenance/Refueling activities can continue. Refueling activities also include removing non-fuel components from storage in sodium.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Process knowledge.

1.3.5 Additional notes:

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

- | | | |
|-------------------------------------------|----------------------------------------------|---------------------------------------------------------|
| <input type="checkbox"/> Container (pad) | <input type="checkbox"/> Container (covered) | <input type="checkbox"/> Container (retrievably buried) |
| <input type="checkbox"/> Tank | <input type="checkbox"/> DST | <input type="checkbox"/> SST |
| <input type="checkbox"/> Other (explain): | N/A | |

2.1.1 How was the waste managed prior to storage?

N/A

2.1.2 Timeframe when waste was placed to storage?

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
N/A	N/A

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

The waste being reported is in an SAA.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity?

When is this capacity expected to be reached?

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

- Current Location
 CWC
 DST
 Other Area(s) (list): N/A
 None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	0.001		
2006	0.001		
2007	0.001		
2008	0.001		
2009	0.001		
Total	0.005		

2.7 DOE Storage Compliance Assessment information:

- Assessment has been completed.

Document Number	Date

- Assessment has been scheduled. Scheduled date:
 Other. Explain: Storage assessment not required.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

Yes No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.12 Other key assumptions related to storage, inventory, and generation information:

The final disposition of the 260,000 gallons of FFTF sodium has been determined. The present plans are to use this sodium as a product and not as a waste.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

February 2007.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

At the present time the waste stream is of such insignificant volume that any further minimization is not required. In the future, the plan is to remove the sodium from the system, pump it into a storage area and then reuse it as a product.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 kg

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

None.

LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

- 1.1 **Treatability Group Name:** PUREX Plant
- 1.2 **Description of waste (list WSRd numbers for this waste stream, as applicable)**
 Concrete rubble contaminated with trace chromium as a corrosion product. No additional waste will be stored at this location, as the PUREX Plant is under long term S&M.

2.0 WASTE INVENTORY AND GENERATION

- 2.1 **Current total inventory for this waste stream (stored waste only, not accumulation areas). [Equals sum of location-specific data sheets for this treatability group.]**
 Total volume (cubic meters): 1.000
- 2.2 **Estimated generation projection by calendar year: [equals annual sums of location-specific data sheets for this treatability group].**

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.0 WASTE STREAM CHARACTERIZATION

- 3.1 **Radiological Characteristics**
- 3.1.1 **Mixed waste type:** High-level Transuranic Low-level
- 3.1.2 **Handling (as package contents would need to be handled during treatment):**
 Contact-handled Remote-handled
- 3.1.3 **Comments on radiological characteristics (e.g., more specific information on content, treatment concerns caused by radiation, confidence level):**

The waste was generated during replacement of a vessel and renovation of the E-Cell floor. Concrete debris was placed in a metal box that is now stored in F-Cell. The chemical processing performed in E Cell was primarily treatment of dissolved fuel cladding waste. Based on the Pu content and the radiological characteristics of the waste (emits approximately 500 rad/hr), it is categorized as remote-handled TRU. The confidence level is high.

LDR REPORT TREATABILITY GROUP DATA SHEET

3.2 Physical Form

3.2.1 Physical form of the waste:

- Solid
 Liquid
 Semi-solid
 Debris
 Other (Describe in comments.)

3.2.2 Comments on physical form:

None.

3.3 Regulated constituents and wastewater/non-wastewater category

3.3.1 Wastewater/non-wastewater under RCRA

- Wastewater
 Non-wastewater
 Unknown

3.3.2 Regulated constituents table including treatment requirements and UHCs, if applicable.

EPA/ State Number	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D007	Chromium	N/A	~1000 ppm	Analytical results	DEBRIS MACRO

* LDR Subcategory marked N/A if no existing subcategory adequately describes this waste, or if there are no defined subcategories for the waste number (40 CFR 268.40).

** If waste is not consistent in concentration, this may not apply. Described in Section 3.3.6.

3.3.3 List any waste numbers from Section 3.3.2 for which the waste stream already meets established LDR treatment standards.

- List:
 No LDR treatment required (e.g. TRUM waste destined for WIPP, exclusion, etc.)
 None (i.e. all constituents/waste numbers of this waste stream still require treatment).

3.3.4 Does this waste stream contain PCBs?

- Yes
 No
 Unknown

If no or unknown, skip to Section 3.3.5.

3.3.4.1 Is waste stream subject to TSCA regulations for PCBs?

- Yes
 No
 Unknown

3.3.4.2 Indicate the PCB concentration range.

- < 50 ppm
 \$ 50 ppm
 Unknown

LDR REPORT TREATABILITY GROUP DATA SHEET

3.3.5 What is the confidence level for the regulated constituents?

Low Medium High

3.3.6 Comments on regulated constituents and wastewater/non-wastewater category:

Based on laboratory analysis.

4.0 WASTE STREAM TREATMENT

4.1 Is this waste stream currently being treated?

Yes No

If yes, provide details: N/A

4.2 Planned treatment: Check the appropriate box indicating future plans for treating this waste stream to meet applicable regulations, including LDR treatment standards.

- No treatment required (skip to Section 5.0)
 Treating or plan to treat on site
 Treating or plan to treat off site
 Treatment options still being assessed

4.3 Planned treatment method, facility, extent of treatment capacity available:

Until a final decision is made on the Canyon Disposition Initiative, no commitments will be made for waste disposal.

4.4 Treatment schedule information:

Will be established after final decision is made on the Canyon Disposition Initiative.

4.5 Applicable Tri-Party Agreement treatment milestone numbers (including permitting):

Milestone Number	Due Date
N/A	N/A

4.6 Proposed new Tri-Party Agreement treatment milestones:

None.

4.7 If treating or planning to treat on site, was or will waste minimization be addressed in developing and/or selecting the treatment method?

Yes No Unknown

If yes, describe: N/A

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment or already in place.

Unknown.

LDR REPORT TREATABILITY GROUP DATA SHEET

4.9 Key Assumptions:

Decommissioning of the PUREX Plant is addressed under Chapter 8 of the Tri-Party Agreement. The PUREX Plant is under long term surveillance and maintenance in accordance with Section 8.0, Facility Decommissioning Process, of the Tri-Party Agreement.

5.0 WASTE STREAM DISPOSAL

After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):

A decision on the Canyon Disposition Initiative will affect the final disposition of the PUREX Plant and its contents.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** PUREX Plant **Waste Stream:** PUREX Containment Building
Treatability Group Name: PUREX Plant

1.2 **Applicable profile number(s) for this waste stream:**
N/A

1.3 Waste stream source information

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

Concrete rubble from the E-Cell canyon floor was placed in a metal box during the floor renovation.

1.3.2 **History of how and where the waste was/is generated:**

Waste was generated from renovation of the E-Cell floor.

1.3.3 **Source of the regulated constituents:**

Process solutions spilled to the E-Cell canyon floor..

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Analytical data.

1.3.5 **Additional notes:**

Waste was generated in September, 1989.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

- Container (pad) Container (covered) Container (retrievably buried)
 Tank DST SST
 Other (explain): PUREX Containment Building.

2.1.1 **How was the waste managed prior to storage?**

It was placed into this storage configuration upon being generated.

2.1.2 **Timeframe when waste was placed to storage?**

Waste was generated in September 1989.

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
202A/ F-Cell	1 box

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 1.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

Waste is located in a single metal box on the F-Cell Canyon Floor.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list):

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date

Assessment has been scheduled. Scheduled date:

Other. Explain: No assessment is required because the facility is being managed under TPA Section 8.0.

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

Yes No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

The waste was generated during replacement of a vessel and renovation of the E-Cell floor. Concrete debris was placed in a metal box that is now stored in F-Cell. The chemical processing performed in E Cell was primarily treatment of dissolved fuel cladding waste. Based on the Pu content and the radiological characteristics of the waste (emits approximately 500 rad/hr), it is categorized as remote-handled TRU. The confidence level is high. No additional waste will be stored at this location. PUREX is under long term surveillance and maintenance under Section 8 of the TPA.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

N/A

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

N/A - no longer generated.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m³

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

The facility is inactive. No additional waste will be generated.

LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

1.1 **Treatability Group Name:** PUREX Storage Tunnels

1.2 **Description of waste (list WSRd numbers for this waste stream, as applicable)**

Varies from very large equipment vessels with lead counterweights to very fine mixed waste powder in canisters. Waste receipt into the TSD unit began in 1960. The TSD unit waste inventory list is contained in the Hanford Facility RCRA Permit, Attachment 28, Chapter 3.0, Waste Analysis Plan. Waste is expected to contain a combination of TRU and TRUM.

2.0 WASTE INVENTORY AND GENERATION

2.1 **Current total inventory for this waste stream (stored waste only, not accumulation areas). [Equals sum of location-specific data sheets for this treatability group.]**

Total volume (cubic meters): 2,800.000

2.2 **Estimated generation projection by calendar year: [equals annual sums of location-specific data sheets for this treatability group].**

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.0 WASTE STREAM CHARACTERIZATION

3.1 **Radiological Characteristics**

3.1.1 **Mixed waste type:** High-level Transuranic Low-level

3.1.2 **Handling (as package contents would need to be handled during treatment):**

Contact-handled Remote-handled

3.1.3 **Comments on radiological characteristics (e.g., more specific information on content, treatment concerns caused by radiation, confidence level):**

Varies from medium (~1 rad/hr) to very high(>1000 rad/hr).

3.2 **Physical Form**

3.2.1 **Physical form of the waste:**

Solid Liquid Semi-solid Debris

Other (Describe in comments.)

3.2.2 **Comments on physical form:**

LDR REPORT TREATABILITY GROUP DATA SHEET

There are a number of items in the tunnels with different types of waste, but the large failed stainless steel and iron vessels and equipment constitute the bulk of the waste. All the waste is solid except for some mercury in the disolver thermowells and possibly some liquid heels in the vessels.

3.3 Regulated constituents and wastewater/non-wastewater category

3.3.1 Wastewater/non-wastewater under RCRA

Wastewater Non-wastewater Unknown

3.3.2 Regulated constituents table including treatment requirements and UHCs, if applicable.

EPA/ State Number	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D001	Oxidizer	Low TOC	**	Process knowledge	Deact 40 CFR 268.48 ***
D005	Barium	Barium	100-1000 ppm **	Analytical/ Process knowledge	21 mg/l TCLP & Deact 40 CFR 268.48 ***
D006	Cadmium	Cadmium	**	Analytical/ Process knowledge	0.11 mg/l TCLP & Deact 40 CFR 268.48 ***
D007	Chromium	Chromium	5-1000 ppm **	Analytical/ process knowledge	0.60 mg/l TCLP & Deact 40 CFR 268.48 ***
D008	lead	Rad lead solids	**	Process knowledge	MACRO
D009	Mercury	High Hg Inorganic	**	Process knowledge	RMERC
D010	Selenium	Selenium	**	Process knowledge	5.7 mg/l TCLP & Deact 40 CFR 268.48 ***
D011	Silver	Silver	5-1000 ppm **	Process knowledge	0.14 mg/l TCLP & Deact 40 CFR 268.48 ***
WT02	Toxic (mineral oil)		**	Process knowledge	N/A

* LDR Subcategory marked N/A if no existing subcategory adequately describes this waste, or if there are no defined subcategories for the waste number (40 CFR 268.40).

** If waste is not consistent in concentration, this may not apply. Described in Section 3.3.6.

*** UHCs must be determined for the waste in Tunnels 1 and 2 unless managed as hazardous debris. DOE expects most of the waste to be managed as hazardous debris.

3.3.3 List any waste numbers from Section 3.3.2 for which the waste stream already meets established LDR treatment standards.

List:

LDR REPORT TREATABILITY GROUP DATA SHEET

- No LDR treatment required (e.g. TRUM waste destined for WIPP, exclusion, etc.)
 None (i.e. all constituents/waste numbers of this waste stream still require treatment).

3.3.4 Does this waste stream contain PCBs?

- Yes No Unknown

If no or unknown, skip to Section 3.3.5.

3.3.4.1 Is waste stream subject to TSCA regulations for PCBs?

- Yes No Unknown

3.3.4.2 Indicate the PCB concentration range.

- < 50 ppm \$ 50 ppm Unknown

3.3.5 What is the confidence level for the regulated constituents?

- Low Medium High

3.3.6 Comments on regulated constituents and wastewater/non-wastewater category:

Confidence varies depending on waste item. Contaminants vary with different containers/equipment. (Not all of the waste would have all waste codes). D001 nitrate residue is from nitric acid. The Cd, Pb and Hg are largely present as pure materials and maybe separated and recycled when the waste is dispositioned.

4.0 WASTE STREAM TREATMENT

4.1 Is this waste stream currently being treated?

- Yes No

If yes, provide details: N/A

4.2 Planned treatment: Check the appropriate box indicating future plans for treating this waste stream to meet applicable regulations, including LDR treatment standards.

- No treatment required (skip to Section 5.0)
 Treating or plan to treat on site
 Treating or plan to treat off site
 Treatment options still being assessed

4.3 Planned treatment method, facility, extent of treatment capacity available:

N/A

4.4 Treatment schedule information:

Waste will be dispositioned on a schedule consistent with the PUREX Plant treatability group.

LDR REPORT TREATABILITY GROUP DATA SHEET

4.5 Applicable Tri-Party Agreement treatment milestone numbers (including permitting):

Milestone Number	Due Date
N/A	N/A

4.6 Proposed new Tri-Party Agreement treatment milestones:

None.

4.7 If treating or planning to treat on site, was or will waste minimization be addressed in developing and/or selecting the treatment method?

Yes No Unknown

If yes, describe: N/A

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment or already in place.

None.

4.9 Key Assumptions:

Closure of the PUREX Storage Tunnels will be coordinated with disposition of the PUREX Plant.

5.0 WASTE STREAM DISPOSAL

After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):

Waste from the PUREX Storage Tunnels will be dispositioned in the same manner and location as the PUREX Plant. A decision on the Canyon Disposition Initiative will affect the final disposition of the PUREX Plant and its contents, including the contents of the PUREX Storage Tunnels.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** PUREX Storage Tunnels **Waste Stream:** Tunnels 1 and 2
Treatability Group Name: PUREX Storage Tunnels

1.2 **Applicable profile number(s) for this waste stream:**

N/A

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

Railcars with failed pieces of processing equipment are in the tunnels. Material varies from very large equipment vessels with lead counterweights to very fine mixed waste powder in canisters from B-Cell in the 324 Building.

1.3.2 **History of how and where the waste was/is generated:**

The bulk of the waste is failed equipment from the PUREX Plant. The equipment was removed from its operating position in the canyon using the bridge crane and set onto a railcar prepared for the "burial". The railcar was then pushed into the tunnel. However, waste from other Hanford Facility locations, including 324 research and development laboratory, has been placed in the tunnels because it is so highly radioactive.

1.3.3 **Source of the regulated constituents:**

The bulk of the waste is failed equipment from the PUREX Plant. However, waste from other Hanford Facility locations, including 324 research and development laboratory, has been placed in the tunnels.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Analytical data and process knowledge.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

- | | | |
|------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------|
| <input type="checkbox"/> Container (pad) | <input type="checkbox"/> Container (covered) | <input type="checkbox"/> Container (retrievably buried) |
| <input type="checkbox"/> Tank | <input type="checkbox"/> DST | <input type="checkbox"/> SST |
| <input checked="" type="checkbox"/> Other (explain): | On rail cars in underground tunnel; permit issued as a final status miscellaneous TSD unit. | |

2.1.1 **How was the waste managed prior to storage?**

The equipment pieces in the PUREX Plant canyon failed and were moved to the tunnel. The waste from the 324 Building was removed from B-Cell and sent to waste storage.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.1.2 Timeframe when waste was placed to storage?

June 1960 to June 1996.

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
Purex tunnel #1	8 rail cars
Purex tunnel #2	28 rail cars

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 2,800.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

Volume is estimated.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list):

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Document Number	Date
A&E-SEC-01-016, Oct 2001 (DOE assessment)	10/30/2001

- Assessment has been scheduled. Scheduled date:
 Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

- Yes No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

- Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

- Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

- Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

- Yes No Unknown at this time

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

Waste in the tunnels mainly came from the PUREX Plant canyon. The waste from the tunnels will be handled at the same time and in the same manner as the mixed waste in the PUREX Plant treatability group and will be handled during final disposition of the PUREX canyon.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

N/A

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

N/A

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m³

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

No waste is expected to be generated. However, the PUREX StorageTunnels do remain active as a final status TSD unit and might receive additional waste in the future.

LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

- 1.1 **Treatability Group Name:** Purgewater
- 1.2 **Description of waste (list WSRd numbers for this waste stream, as applicable)**
Groundwater contaminated with various constituents.

2.0 WASTE INVENTORY AND GENERATION

- 2.1 **Current total inventory for this waste stream (stored waste only, not accumulation areas). [Equals sum of location-specific data sheets for this treatability group.]**
Total volume (cubic meters): 3,700.000
- 2.2 **Estimated generation projection by calendar year: [equals annual sums of location-specific data sheets for this treatability group].**

Year	m ³	and/or	kg
2005	2,500.000		
2006	2,500.000		
2007	2,500.000		
2008	2,500.000		
2009	2,500.000		
Total	12,500.000		

3.0 WASTE STREAM CHARACTERIZATION

- 3.1 **Radiological Characteristics**
- 3.1.1 **Mixed waste type:** High-level Transuranic Low-level
- 3.1.2 **Handling (as package contents would need to be handled during treatment):**
 Contact-handled Remote-handled
- 3.1.3 **Comments on radiological characteristics (e.g., more specific information on content, treatment concerns caused by radiation, confidence level):**
None.
- 3.2 **Physical Form**
- 3.2.1 **Physical form of the waste:**
 Solid Liquid Semi-solid Debris
 Other (Describe in comments.)
- 3.2.2 **Comments on physical form:**
Waste stream is generated from groundwater sampling, well maintenance, well drilling, and pump and treat operations. Waste stream is liquid although there is a small fraction of suspended solids.

LDR REPORT TREATABILITY GROUP DATA SHEET

3.3 Regulated constituents and wastewater/non-wastewater category

3.3.1 Wastewater/non-wastewater under RCRA

Wastewater Non-wastewater Unknown

3.3.2 Regulated constituents table including treatment requirements and UHCs, if applicable.

EPA/ State Number	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D007	Chromium	None	>5.0 mg/l	analytical data	2.77 mg/l and meet 268.48.
D019	Carbon Tetrachloride	N/A	**	analytical data	0.057 mg/l and meet 268.48.
F001	Carbon Tetrachloride	Spent Solvent	**	analytical data	0.057 mg/l
F002	Methylene Chloride	Spent Solvent	**	analytical data	0.089 mg/l
F003	Methanol	Spent Solvent	**	analytical data	5.6 mg/l
F004	o-Cresol, p-cresol, m-cresol	Spent Solvent	**	analytical data	0.11 mg/l
F005	Methyl Ethyl Ketone	Spent Solvent	**	analytical data	0.28 mg/l

* LDR Subcategory marked N/A if no existing subcategory adequately describes this waste, or if there are no defined subcategories for the waste number (40 CFR 268.40).

** If waste is not consistent in concentration, this may not apply. Described in Section 3.3.6.

Waste codes are assigned based on designations made in the CERCLA Records of Decision for the 200-ZP-1 and the 100-NR-2 Operable Units.

3.3.3 List any waste numbers from Section 3.3.2 for which the waste stream already meets established LDR treatment standards.

- List:
- No LDR treatment required (e.g. TRUM waste destined for WIPP, exclusion, etc.)
- None (i.e. all constituents/waste numbers of this waste stream still require treatment).

3.3.4 Does this waste stream contain PCBs?

Yes No Unknown

If no or unknown, skip to Section 3.3.5.

3.3.4.1 Is waste stream subject to TSCA regulations for PCBs?

Yes No Unknown

3.3.4.2 Indicate the PCB concentration range.

< 50 ppm \$ 50 ppm Unknown

LDR REPORT TREATABILITY GROUP DATA SHEET

3.3.5 What is the confidence level for the regulated constituents?

Low Medium High

3.3.6 Comments on regulated constituents and wastewater/non-wastewater category:

Analytical data is available for all groundwater activities being performed on the Hanford Site. Groundwater from all across the site is managed at the PSTF.

4.0 WASTE STREAM TREATMENT

4.1 Is this waste stream currently being treated?

Yes No

If yes, provide details: Treated via solar evaporation.

4.2 Planned treatment: Check the appropriate box indicating future plans for treating this waste stream to meet applicable regulations, including LDR treatment standards.

- No treatment required (skip to Section 5.0)
 Treating or plan to treat on site
 Treating or plan to treat off site
 Treatment options still being assessed

4.3 Planned treatment method, facility, extent of treatment capacity available:

Treated via solar evaporation at the PSTF. However, engineering and modifications are underway at the 200 Effluent Treatment Facility that will eventually be used for purgewater treatment in lieu of the PSTF.

4.4 Treatment schedule information:

Treatment is ongoing.

4.5 Applicable Tri-Party Agreement treatment milestone numbers (including permitting):

Milestone Number	Due Date
N/A	N/A

4.6 Proposed new Tri-Party Agreement treatment milestones:

N/A

4.7 If treating or planning to treat on site, was or will waste minimization be addressed in developing and/or selecting the treatment method?

Yes No Unknown

If yes, describe: N/A

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment or already in place.

N/A

LDR REPORT TREATABILITY GROUP DATA SHEET

4.9 Key Assumptions:

The Hanford Site purgewater management plan is being re-negotiated and revised. As a result, information may be updated.

5.0 WASTE STREAM DISPOSAL

After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):

As a result of solar evaporation, only residues and sludges remain in the modular tanks. When the PSTF is taken out of service, the residues/sludges remaining in the modular tanks will be removed, treated as necessary to meet the ERDF Waste Acceptance Criteria and disposed of at ERDF upon receipt of regulatory approval.

Upon revision of the Purgewater Strategy (Purgewater Management Plan) and completion of ETF Unloading facility upgrades, purgewater will be redirected to the 200 ETF. Treatment residue in the form of a dry, powdery secondary waste, will be treated as necessary to meet the ERDF Waste Acceptance Criteria and be disposed at ERDF upon receipt of regulatory approval.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** 600 Area PSTF **Waste Stream:** Purgewater Modu-Tanks
Treatability Group Name: Purgewater

1.2 **Applicable profile number(s) for this waste stream:**

Waste Profile Sheet, ERC CCN # 084622.

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

Purgewater.

1.3.2 **History of how and where the waste was/is generated:**

Purgewater generated from pump and treat operations, well drilling, groundwater sampling activities, and well maintenance.

1.3.3 **Source of the regulated constituents:**

Groundwater is contaminated with organics, metals, and radionuclides from process water discharged to the soil during past Hanford Site operations.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Analytical data and process knowledge.

1.3.5 **Additional notes:**

Purgewater accounted for in this stream is collected from all across the Hanford Site.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

- | | | |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| <input type="checkbox"/> Container (pad) | <input type="checkbox"/> Container (covered) | <input type="checkbox"/> Container (retrievably buried) |
| <input type="checkbox"/> Tank | <input type="checkbox"/> DST | <input type="checkbox"/> SST |
| <input checked="" type="checkbox"/> Other (explain): | Above ground modular containment units open to the atmosphere, permitted under interim status as S99 (other storage) | |

2.1.1 **How was the waste managed prior to storage?**

Waste is generated, placed into containers or directly into tanker trucks, and transferred to the PSTF.

2.1.2 **Timeframe when waste was placed to storage?**

The facility is a solar evaporation unit that has been in service since 1990.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
PSTF Unit #1	1

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 3,700.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

Waste is directly discharged to the purgewater storage and treatment facility.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list):

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	2,500.000		
2006	2,500.000		
2007	2,500.000		
2008	2,500.000		
2009	2,500.000		
Total	12,500.000		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date
ASS-00-A&E-068 via Ltr #01-A&E-068	11/01/2000

Assessment has been scheduled. Scheduled date:

Other. Explain:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

Yes No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage:

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.12 Other key assumptions related to storage, inventory, and generation information:

Project is evaluating sending purgewater to ETF for treatment and closing the PSTF.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

2003.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Hanford contractors are currently evaluating zero purge and near zero purge sampling techniques to minimize the amount of waste that is generated during well sampling activities. There are several regulatory and technical issues that must be addressed to assess the applicability.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m³

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

No projections at this time.

LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

- 1.1 Treatability Group Name:** SST Waste
- 1.2 Description of waste (list WSRd numbers for this waste stream, as applicable)**
 Basic aqueous slurry with layers of saltcake and/or sludge. Sludge is defined a solids (i.e., hydrous metal oxides) precipitated from the neutralization of acid wastes. Saltcake is defined as the various salts formed from the evaporation of water.

2.0 WASTE INVENTORY AND GENERATION

- 2.1 Current total inventory for this waste stream (stored waste only, not accumulation areas). [Equals sum of location-specific data sheets for this treatability group.]**
 Total volume (cubic meters): 115,300,000
- 2.2 Estimated generation projection by calendar year: [equals annual sums of location-specific data sheets for this treatability group].**

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.0 WASTE STREAM CHARACTERIZATION

- 3.1 Radiological Characteristics**
- 3.1.1 Mixed waste type:** High-level Transuranic Low-level
- 3.1.2 Handling (as package contents would need to be handled during treatment):**
 Contact-handled Remote-handled
- 3.1.3 Comments on radiological characteristics (e.g., more specific information on content, treatment concerns caused by radiation, confidence level):**
 SST System wastes contain the following major radionuclides: 3H, 14C, 90SR, 90Y, 129I, 137Cs, 137mBa, 151Sm, 238Pu, 240Pu, 241Pu, 241Am, and 242Am. As a whole, the SST wastes are classified as remote-handled, high level waste. However, recent scrutiny suggests the waste in several of the SSTs would more accurately be classified as transuranic waste, not high level.

LDR REPORT TREATABILITY GROUP DATA SHEET

3.2 Physical Form

3.2.1 Physical form of the waste:

Solid Liquid Semi-solid Debris

Other (Describe in comments.)

3.2.2 Comments on physical form:

The major constituents are water and sodium salts of aluminate, nitrate, nitrite, phosphate, hydroxide, carbonate, and sulfate. Some calcium and potassium salts are also present. Chemically complexed waste in the DSTs contain sodium salts of chelating agents ethylenediamine-tetraacetic acid and n-hydroxyethylenediamine-tetraacetic acid. There may also be detectable concentrations of halogenated and nonhalogenated organic compounds and heavy metals such as lead, chromium and cadmium.

3.3 Regulated constituents and wastewater/non-wastewater category

3.3.1 Wastewater/non-wastewater under RCRA

Wastewater Non-wastewater Unknown

3.3.2 Regulated constituents table including treatment requirements and UHCs, if applicable.

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D001	Ignitability	Low TOC ignitable Char. Liquid	(4)	(4)	DEACT (2); RORGS; COMBST
D002	Corrosivity	(1)	(4)	(4)	HLVIT
D003	Reactivity	Reactive Cyanides	(4)	(4)	590/30 mg/kg
D004	Arsenic	(1)	(4)	(4)	HLVIT
D005	Barium	(1)	(4)	(4)	HLVIT
D006	Cadmium	(1)	(4)	(4)	HLVIT
D007	Chromium	(1)	(4)	(4)	HLVIT
D008	Lead	(1)	(4)	(4)	HLVIT
D009	Mercury	(1)	(4)	(4)	HLVIT
D010	Selenium	(1)	(4)	(4)	HLVIT
D011	Silver	(1)	(4)	(4)	HLVIT
D018	Benzene	N/A	(4)	(4)	10 mg/kg (2)
D019	Carbon Tetrachloride	N/A	(4)	(4)	6.0 mg/kg (2)
D022	Chloroform	N/A	(4)	(4)	6.0 mg/kg (2)
D028	1,2-Dichloroethane	N/A	(4)	(4)	6.0 mg/kg (2)
D029	1,1-Dichloroethylene	N/A	(4)	(4)	6.0 mg/kg (2)
D030	2,4-Dinitrotoluene	N/A	(4)	(4)	140 mg/kg (2)
D033	Hexachlorobutadiene	N/A	(4)	(4)	5.6 mg/kg (2)
D034	Hexachloroethane	N/A	(4)	(4)	30 mg/kg (2)
D035	Methyl Ethyl Ketone	N/A	(4)	(4)	36 mg/kg (2)
D036	Nitrobenzene	N/A	(4)	(4)	14 mg/kg (2)
D038	Pyridine	N/A	(4)	(4)	16 mg/kg (2)
D039	Tetrachloroethylene	N/A	(4)	(4)	6.0 mg/kg (2)
D040	Trichloroethylene	N/A	(4)	(4)	6.0 mg/kg (2)
D041	2,4,5-Trichlorophenol	N/A	(4)	(4)	7.4 mg/kg (2)
D043	Vinyl Chloride	N/A	(4)	(4)	6.0 mg/kg (2)
F001	1,1,1-Trichloroethane	Spent Solvent	(4)	(4)	6.0 mg/kg
F002	Methylene Chloride	Spent Solvent	(4)	(4)	30 mg/kg
F003	Acetone	Spent Solvent	(4)	(4)	160 mg/kg
F003	Methyl Isobutyl Ketone	Spent Solvent	(4)	(4)	33 mg/kg
F004	Cresols	Spent Solvent	(4)	(4)	5.6 mg/kg (o, m, &p); 11.2 mg/kg (mixed)
F005	Methyl Ethyl Ketone	Spent Solvent	(4)	(4)	36 mg/kg

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
WP01	Persistent wastes, Extremely hazardous wastes	N/A	(4)	(4)	NONE (3)
WP02	Persistent Dangerous wastes	N/A	(4)	(4)	N/A
WT01	Toxic Dangerous Wastes, Extremely Hazardous Wastes	N/A	(4)	(4)	NONE (3)
WTO2	Toxic Dangerous Wastes, Dangerous Wastes	N/A	(4)	(4)	N/A

* LDR Subcategory marked N/A if no existing subcategory adequately describes this waste, or if there are no defined subcategories for the waste number (40 CFR 268.40).

** If waste is not consistent in concentration, this may not apply. Described in Section 3.3.6.

- 1) Radioactive high-level wastes generated during the reprocessing of fuel rods.
- 2) and meet 40 CFR 268.48.
- 3) Mixed extremely hazardous wastes can be land-disposed in Washington State in DOE facilities in accordance with RCW 70.105.050(2).
- 4) See Section 3.3.6.

3.3.3 List any waste numbers from Section 3.3.2 for which the waste stream already meets established LDR treatment standards.

- List:
- No LDR treatment required (e.g. TRUM waste destined for WIPP, exclusion, etc.)
- None (i.e. all constituents/waste numbers of this waste stream still require treatment).

3.3.4 Does this waste stream contain PCBs?

- Yes No Unknown

If no or unknown, skip to Section 3.3.5.

3.3.4.1 Is waste stream subject to TSCA regulations for PCBs?

- Yes No Unknown

3.3.4.2 Indicate the PCB concentration range.

- < 50 ppm \$ 50 ppm Unknown

3.3.5 What is the confidence level for the regulated constituents?

- Low Medium High

3.3.6 Comments on regulated constituents and wastewater/non-wastewater category:

LDR REPORT TREATABILITY GROUP DATA SHEET

The wastes in the SSTs continues to be sampled, analyzed, and characterized. Waste was sent to the SST System prior to the enactment of LDR requirements, so pertinent LDR requirements were not documented. When SST System waste is transferred to the DST System, known LDR requirements are documented on profile sheets based on the Part A, Form 3, Permit Application for the SST System. Small amounts of PCBs have been detected in some SSTs. Per the guidance in the Toxic Substance Control Act Polychlorinated Biphenyls Hanford Site Users Guide (DOE/RL-2001-50, Rev. 0), the SSTs are not considered to be subject to TSCA at this time.

4.0 WASTE STREAM TREATMENT

4.1 Is this waste stream currently being treated?

Yes No

If yes, provide details: N/A

4.2 Planned treatment: Check the appropriate box indicating future plans for treating this waste stream to meet applicable regulations, including LDR treatment standards.

- No treatment required (skip to Section 5.0)
 Treating or plan to treat on site
 Treating or plan to treat off site
 Treatment options still being assessed

4.3 Planned treatment method, facility, extent of treatment capacity available:

Wastes in the SST System will undergo retrieval, treatment, and will be sent to disposal through the DST System. This may include pretreatment, and vitrification, which will destroy or extract organic and cyanide constituents to below treatment standards, neutralize or deactivate dangerous waste, and immobilize toxic metals.

4.4 Treatment schedule information:

The SST Waste will be transferred to the DST System and eventually be treated and disposed of as DST Waste, per TPA milestones.

4.5 Applicable Tri-Party Agreement treatment milestone numbers (including permitting):

Milestone Number	Due Date
M-044-00	09/30/1999
M-045-00	09/30/2024

4.6 Proposed new Tri-Party Agreement treatment milestones:

None.

4.7 If treating or planning to treat on site, was or will waste minimization be addressed in developing and/or selecting the treatment method?

Yes No Unknown

If yes, describe: Waste minimization will be addressed during the retrieval process.

LDR REPORT TREATABILITY GROUP DATA SHEET

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment or already in place.

None at this time.

4.9 Key Assumptions:

None.

5.0 WASTE STREAM DISPOSAL

After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):

In accordance with current plans, after transfer to the DST System and subsequent treatment as DST waste, the low-activity waste fraction will be disposed of onsite in a retrievable form. The vitrified HLW fraction will be stored onsite until the Geologic Repository Program is available to receive wastes for disposal.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** SST System **Waste Stream:** Past Practice Units
Treatability Group Name: SST Waste

1.2 **Applicable profile number(s) for this waste stream:**
N/A

1.3 Waste stream source information

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

The SST system waste consists of double-shell slurry feed, non-complexed waste, concentrated phosphate waste, complexant concentrate waste, and dilute complexed waste. This waste is mostly sludge and saltcake waste, with some liquid waste layered over the solids. The IMUST's contain mixed wastes from operational processes.

1.3.2 **History of how and where the waste was/is generated:**

This waste was generated as a byproduct of processing spent nuclear fuel, and from a variety of analytical, decladding, and separation processes.

1.3.3 **Source of the regulated constituents:**

Hazardous constituents in the waste are from chemicals used during facility operations and maintenance; and laboratories, including analytical laboratories, as well as R&D work.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Process knowledge, and Tank Characterization Reports.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

- Container (pad) Container (covered) Container (retrievably buried)
 Tank DST SST
 Other (explain):

2.1.1 **How was the waste managed prior to storage?**

Wastes were managed at the specific contributing operating location.

2.1.2 **Timeframe when waste was placed to storage?**

From 1945 to 1980.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
200-W-7	1 Tank
231-W-151	2 Tanks
240-S-302	1 Tank
241-A-302B	1 Tank
241-B-301B	1 Tank
241-B-302B	1 Tank
241-BX-302A	1 Tank
241-BX-302B	1 Tank
241-BX-302C	1 Tank
241-C-301C	1 Tank
241-ER-311A	1 Tank
241-S-302A and B	2 Tanks
241-SX-302	1 Tank
241-T-301	1 Tank
241-TX-302A and B	2 Tanks
241-TX-302BR	1 Tanks
241-TX-302X	1 Tank
241-TY-302A and B	2 Tanks
241-Z-8	1 Tank
242-T-135	1 Tank
242-TA-R1	1 Tank
244-BXjR (Vault)	4 Tanks
244-TXR (Vault)	3 Tanks
244-UR (Vault)	4 Tanks
241-A-431 (building)	0 Tanks
241-C-801 (building)	0 Tanks
241-SX-401 (building)	0 Tanks
241-SX-402 (building)	0 Tanks

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 300.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

The volume is rounded to the nearest 100 cubic meter. Tank volumes are determined by waste level measurements, which are then converted to volumes. Actual tank volume measurements at any given time may differ from the reported values due to factors such as instrumentation errors, uneven surfaces, and calculation rounding errors.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list):

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date
A-01-EMD-TF-09	12/31/2001

Assessment has been scheduled. Scheduled date: See Table 3-4 for list of scheduled assessments.

Other. Explain: Also assessment, EMD-TF-2001-04.

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
M-045-00	09/30/2024

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

Yes No

If yes, summarize releases and quantities and provide date:

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

Yes No Unknown at this time

Milestone Number	Due Date
M-045-00B	09/30/2006
M-045-00C	06/30/2005

If yes or unknown, comment on characterization for treatment.

Waste will be characterized per the Tank Closure Documentation for each unit.

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

It is unknown if further information will be needed for disposal. Awaiting information such as, variance and delisting petitions.

2.12 Other key assumptions related to storage, inventory, and generation information:

Waste will be sampled and characterized per applicable Data Quality Objectives, and/or the Regulatory Data Quality Objectives Supporting Tank Waste Remediation System Privatization Project, PNNL-12040 Rev 0, 12/1998.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

N/A

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

N/A

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m³

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

None.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** SST System **Waste Stream:** SST System
Treatability Group Name: SST Waste

1.2 **Applicable profile number(s) for this waste stream:**
N/A

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

The SST System waste consists of double-shell slurry feed, non-complexed waste, concentrated phosphate waste, complexant concentrate waste, and dilute complexed waste. This waste is mostly sludge and saltcake waste, with some liquid waste layered over the solids. The 244-AR Vault contains neutralized current acid waste, sludge, and contaminated water. The 244-CR Vault contains neutralized uranium recover waste, PUREX acidified sludge, and contaminated water. The IMUSTs contain mixed wastes from operational processes.

1.3.2 **History of how and where the waste was/is generated:**

This waste was generated as a byproduct of processing spent nuclear fuel, and from a variety of analytical, decladding, and separation processes.

1.3.3 **Source of the regulated constituents:**

Hazardous constituents in the waste are from chemicals used during facility operations and maintenance; and laboratories, including analytical laboratories, as well as R&D work.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Process knowledge, and Tank Characterization Reports.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

- | | | |
|-------------------------------------------|----------------------------------------------|---------------------------------------------------------|
| <input type="checkbox"/> Container (pad) | <input type="checkbox"/> Container (covered) | <input type="checkbox"/> Container (retrievably buried) |
| <input type="checkbox"/> Tank | <input type="checkbox"/> DST | <input checked="" type="checkbox"/> SST |
| <input type="checkbox"/> Other (explain): | | |

2.1.1 **How was the waste managed prior to storage?**

Wastes were managed at the specific contributing operating facility.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.1.2 Timeframe when waste was placed to storage?

From 1945 to 1980.

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
241-A	6 Tanks
241-AX	4 Tanks
241-B	16 Tanks
241-BX	12 Tanks
241-BY	12 Tanks
241-C	16 Tanks
241-S	12 Tanks
241-SX	15 Tanks
241-T	16 Tanks
241-TX	18 Tanks
241-TY	6 Tanks
241-U	12 Tanks
244-AR	4 Tanks
244-CR	4 Tanks
SST system	Diversion Boxes
SST system	Valve Pits
N/A	Catch Tanks

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 115,000.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

The volume is rounded to the nearest 1,000 cubic meter. Tank volumes are determined by waste level measurements, which are then converted to volumes. Actual tank volume measurements at any given time may differ from the reported values due to factors such as instrumentation errors, uneven surfaces, and calculation rounding errors. Water additions occur and can increase waste volumes.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.5 Planned storage areas for this waste:

- Current Location CWC DST
 Other Area(s) (list):
 None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

- Assessment has been completed.

Document Number	Date
A-01-EMD-TF-09	12/31/2001

- Assessment has been scheduled. Scheduled date: _____ See Table 3-4 for list of scheduled assessments
 Other. Explain: Also assessment, A-01-MD-TF-08, 7/2001

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
M-045-00	09/30/2024

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

- Yes No

If yes, summarize releases and quantities and provide date:

See table of Hanford Site SST Releases in Chapter 5 of the LDR Storage Report.

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

- Yes No

If yes, explain: N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

Waste will be characterized per the Tank Closure Documentation for each tank.

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

It is unknown if further information will be needed for disposal. Awaiting information such as, variance and delisting petitions.

2.12 Other key assumptions related to storage, inventory, and generation information:

Waste will be sampled and characterized per applicable Data Quality Objectives, and/or the Regulatory Data Quality Objectives Supporting Tank Waste Remediation System Privatization Project, PNNL-12040 Rev 0, 12/1998.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

N/A

- 3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):**

N/A

- 3.3 Waste minimization schedule**

- 3.3.1 Reduction achieved during calendar year 2004 (volume or mass)**

0.000 m³

- 3.3.2 Projected future waste volume reductions**

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

- 3.3.3 Bases and assumptions used in above estimates:**

None.

LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

1.1 **Treatability Group Name:**

TRUM - CH

1.2 **Description of waste (list WSRd numbers for this waste stream, as applicable)**

The waste came from various facilities on and off the Hanford Site. The waste contains plastic/polyurethane, rubber, iron-based metal, soil, paper, cardboard, lead, rags, cement, stainless steel, wood, styrofoam, glass, absorbent/kitty litter, filters, lead shielding, carbon steel, fiberglass, brick/firebrick, plastic liner, shielding, concrete, animal waste, paints, ceramics, sludges, asbestos, aluminum, diatomaceous earth, resins, copper metal, lead, water, floor sweepings, batteries, leather, liquid, teflon, cork, cotton, light bulbs, urethane and wax.

2.0 WASTE INVENTORY AND GENERATION

2.1 **Current total inventory for this waste stream (stored waste only, not accumulation areas). [Equals sum of location-specific data sheets for this treatability group.]**

Total volume (cubic meters): 4,538.640

2.2 **Estimated generation projection by calendar year: [equals annual sums of location-specific data sheets for this treatability group].**

Year	m ³	and/or	kg
2005	414.366		0.000
2006	182.716		0.000
2007	5.600		0.000
2008	2.600		0.000
2009	2.000		0.000
Total	607.282		0.000

3.0 WASTE STREAM CHARACTERIZATION

3.1 **Radiological Characteristics**

3.1.1 **Mixed waste type:** High-level Transuranic Low-level

3.1.2 **Handling (as package contents would need to be handled during treatment):**

Contact-handled Remote-handled

3.1.3 **Comments on radiological characteristics (e.g., more specific information on content, treatment concerns caused by radiation, confidence level):**

Each container of waste has more than 100 nCi/g of transuranic radionuclide activity.

LDR REPORT TREATABILITY GROUP DATA SHEET

3.2 Physical Form

3.2.1 Physical form of the waste:

Solid Liquid Semi-solid Debris

Other (Describe in comments.)

3.2.2 Comments on physical form:

While the physical characteristics of any drum vary substantially, TRUM waste in drums typically contains organic debris or heterogeneous debris. TRUM waste in drums has a higher percentage of combustible waste than TRUM waste in boxes. A number of drums are mixed because they contain lead-lined gloves.

3.3 Regulated constituents and wastewater/non-wastewater category

3.3.1 Wastewater/non-wastewater under RCRA

Wastewater Non-wastewater Unknown

3.3.2 Regulated constituents table including treatment requirements and UHCs, if applicable.

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D001	Ignitable Charac.	N/A	***	***	Remove characteristic (1)
D002	Corrosive Charac.	N/A	***	***	Remove characteristic (1)
D003	Reactive	Other Reactives	***	***	Remove characteristic (1)
D004	Arsenic	N/A	***	***	Exempt (61 FR 60704)
D005	Barium	N/A	***	***	Exempt (61 FR 60704)
D006	Cadmium	N/A	***	***	Exempt (61 FR 60704)
D007	Chromium	N/A	***	***	Exempt (61 FR 60704)
D008	Lead	N/A	***	***	Exempt (61 FR 60704)
D009	Mercury	N/A	***	***	Exempt (61 FR 60704)
D010	Selenium	N/A	***	***	Exempt (61 FR 60704)
D011	Silver	N/A	***	***	Exempt (61 FR 60704)
D012	Endrin	N/A	***	***	Exempt (61 FR 60704)
D014	Methoxychlor	N/A	***	***	Remove characteristic (1)
D018	Benzene	N/A	***	***	Exempt (61 FR 60704)
D019	Carbon Tetrachloride	N/A	***	***	Exempt (61 FR 60704)
D021	Chlorobenzene	N/A	***	***	Exempt (61 FR 60704)
D022	Chloroform	N/A	***	***	Exempt (61 FR 60704)
D027	1,4-Dichlorobenzene	N/A	***	***	Exempt (61 FR 60704)
D028	1,2-Dichloroethane	N/A	***	***	Exempt (61 FR 60704)
D029	1,1-Dichlorethylene	N/A	***	***	Exempt (61 FR 60704)
D030	2,4-Dinitrotoluene	N/A	***	***	Exempt (61 FR 60704)
D031	Heptachlor	N/A	***	***	Remove characteristic (1)
D032	Hexachlorobenzene	N/A	***	***	Exempt (61 FR 60704)

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D033	Hexachlorobutadiene	N/A	***	***	Remove characteristic (1)
D034	Hexachloroethane	N/A	***	***	Exempt (61 FR 60704)
D035	Methyl Ethyl Ketone	N/A	***	***	Exempt (61 FR 60704)
D036	Nitrobenzene	N/A	***	***	Exempt (61 FR 60704)
D037	Pentachlorophenol	N/A	***	***	Exempt (61 FR 60704)
D038	Pyridine	N/A	***	***	Exempt (61 FR 60704)
D039	Tetrachloroethylene	N/A	***	***	Exempt (61 FR 60704)
D040	Trichloroethylene	N/A	***	***	Exempt (61 FR 60704)
D042	2,4,6-Trichlorophenol	N/A	***	***	Exempt (61 FR 60704)
D043	Vinyl chloride	N/A	***	***	Exempt (61 FR 60704)
F001	1,1,1-Trichloroethane	Spent Solvent	***	***	Exempt (61 FR 60704)
F001	Trichloroethylene	Spent Solvent	***	***	Exempt (61 FR 60704)
F002	Trichloroethylene	Spent Solvent	***	***	Exempt (61 FR 60704)
F003	Acetone	Spent Solvent	***	***	Exempt (61 FR 60704)
F003	Xylene	Spent Solvent	***	***	Exempt (61 FR 60704)
F004	Cresol	Spent Solvent	***	***	Exempt (61 FR 60704)
F005	Methyl Ethyl Ketone	Spent Solvent	***	***	Exempt (61 FR 60704)
WP01	Persistent, EHW	N/A	***	***	N/A
WP02	Persistent, DW	N/A	***	***	N/A
WSC2	Solid Corrosive	N/A	***	***	N/A
WT01	Toxic, EHW	N/A	***	***	N/A
WT02	Toxic, DW	N/A	***	***	N/A

* LDR Subcategory marked N/A if no existing subcategory adequately describes this waste, or if there are no defined subcategories for the waste number (40 CFR 268.40).

** If waste is not consistent in concentration, this may not apply. Described in Section 3.3.6.

LDR REPORT TREATABILITY GROUP DATA SHEET

*** The concentration varies and is based on process knowledge and/or analytical data.

(1) Characteristic waste codes not currently acceptable at WIPP.

3.3.3 List any waste numbers from Section 3.3.2 for which the waste stream already meets established LDR treatment standards.

- List:
- No LDR treatment required (e.g. TRUM waste destined for WIPP, exclusion, etc.)
- None (i.e. all constituents/waste numbers of this waste stream still require treatment).

3.3.4 Does this waste stream contain PCBs?

- Yes No Unknown

If no or unknown, skip to Section 3.3.5.

3.3.4.1 Is waste stream subject to TSCA regulations for PCBs?

- Yes No Unknown

3.3.4.2 Indicate the PCB concentration range.

- < 50 ppm \$ 50 ppm Unknown

3.3.5 What is the confidence level for the regulated constituents?

- Low Medium High

3.3.6 Comments on regulated constituents and wastewater/non-wastewater category:

The number and concentration of contaminants in TRUM drums varies substantially. Over all drums, the predominant contaminants, listed in descending order of weight quantity, are lead, silver chloride, carbon tetrachloride, lithium, cadmium, and potassium/sodium hydroxide.

4.0 WASTE STREAM TREATMENT

4.1 Is this waste stream currently being treated?

- Yes No

If yes, provide details:

The waste is processed at WRAP, CWC, and T Plant. Future unit operations will include solidification. The unit operations are performed as necessary for the waste to meet the WIPP waste acceptance criteria.

LDR REPORT TREATABILITY GROUP DATA SHEET

4.2 **Planned treatment:** Check the appropriate box indicating future plans for treating this waste stream to meet applicable regulations, including LDR treatment standards.

- No treatment required (skip to Section 5.0)
 Treating or plan to treat on site
 Treating or plan to treat off site
 Treatment options still being assessed

4.3 **Planned treatment method, facility, extent of treatment capacity available:**

The waste will continue to be processed at WRAP, CWC and T Plant, as described in Sec 4.1 WRAP has a design capacity of 4,725 drums (983 cu m) per year on a single shift.

4.4 **Treatment schedule information:**

Treatment is anticipated to be performed as necessary to support the outcome of the M-091 TPA settlement agreement.

4.5 **Applicable Tri-Party Agreement treatment milestone numbers (including permitting):**

Milestone Number	Due Date
M-091-01	06/30/2012

4.6 **Proposed new Tri-Party Agreement treatment milestones:**

See Section 4.4.

4.7 **If treating or planning to treat on site, was or will waste minimization be addressed in developing and/or selecting the treatment method?**

- Yes No Unknown

If yes, describe: Best management practices.

4.8 **List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment or already in place.**

TRUM disposed of at WIPP is exempt from the LDR treatment standards.

4.9 **Key Assumptions:**

None.

5.0 WASTE STREAM DISPOSAL

After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):

TRUM is disposed of at WIPP.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: 200 Area Investigation **Waste Stream:** 200 Area Investigation
Treatability Group Name: TRUM - CH

1.2 Applicable profile number(s) for this waste stream:

N/A. Waste has not been generated.

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

Soil and miscellaneous solid waste generated during planned site investigations in the 200 Area of the Hanford Site.

1.3.2 History of how and where the waste was/is generated:

Waste will be generated in the 200 East and West Areas of the Hanford Site during remedial investigation activities.

1.3.3 Source of the regulated constituents:

Hazardous constituents were discharged to the soil via ponds, ditches, cribs, and trenches during past Hanford operations.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Analytical data and process knowledge.

1.3.5 Additional notes:

None,

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

- | | | |
|-------------------------------------------|----------------------------------------------|---------------------------------------------------------|
| <input type="checkbox"/> Container (pad) | <input type="checkbox"/> Container (covered) | <input type="checkbox"/> Container (retrievably buried) |
| <input type="checkbox"/> Tank | <input type="checkbox"/> DST | <input type="checkbox"/> SST |
| <input type="checkbox"/> Other (explain): | | |

2.1.1 How was the waste managed prior to storage?

N/A

2.1.2 Timeframe when waste was placed to storage?

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
N/A	N/A

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

No waste has been generated to date.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list):

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	0.416		
2006	0.416		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.832		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date

Assessment has been scheduled. Scheduled date:

Other. Explain: Storage assessment not required.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

Yes No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

Waste stream will be characterized as it is generated.

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.12 Other key assumptions related to storage, inventory, and generation information:

The forecast waste volumes are subject to change upon approval of the Operable Unit Work Plans. This waste stream only addresses the projected CH-TRUM.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

Prior to initiation of field work.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Waste segregation will be used to minimize TRUM contaminated waste generated during investigation activities.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m³

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

None.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** 325 HWTU **Waste Stream:** TRUM-CH
Treatability Group Name: TRUM - CH

1.2 **Applicable profile number(s) for this waste stream:**
PNNL-230-0001-00

1.3 Waste stream source information

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

Subject waste was generated from PNNL laboratory operations.

1.3.2 **History of how and where the waste was/is generated:**

Waste is continually generated from routine laboratory operations at PNNL.

1.3.3 **Source of the regulated constituents:**

Waste stream may consist of different inorganic and organic solids and liquids that are contaminated with inorganic and organic regulated dangerous waste constituents. This waste stream also includes hazardous debris.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Wastes are characterized as specified in PNNL Waste Stream Profiles.

1.3.5 **Additional notes:**

N/A

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

- Container (pad) Container (covered) Container (retrievably buried)
 Tank DST SST
 Other (explain):

2.1.1 **How was the waste managed prior to storage?**

The waste was managed in 90 day or SAA prior to being transferred to storage.

2.1.2 **Timeframe when waste was placed to storage?**

The wastes inventoried below and currently stored at 325 HWTU were placed in storage between 10/24/97 and 12/7/04.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
325/520	2
325/528	57
325/524	1
325/SAL	4

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.080

Date of inventory values: 12/31/2004

Comments on waste inventory:

This represents the TRUM waste currently in these storage locations. TRUM wastes that fit under a separate profile may be stored in these locations in the future. Their profiles will need to be written at the time they are prepared for shipment.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list):

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	2.310		
2006	2.000		
2007	2.000		
2008	2.000		
2009	2.000		
Total	10.310		

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date
A&E-DWR-02-004	05/31/2002

Assessment has been scheduled. Scheduled date:

Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

Yes No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

PNNL Waste Management requests full chemical and radiological characterization from the laboratory generators prior to receiving the waste into the 325 HWTU. However, further confirmatory NDA may be performed on TRUM packages that are consolidated at the 325 HWTU. The inventory information is for what is currently in storage in the specified 325 HWTU location(s).

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

Assessment date to be determined.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Laboratory staff routinely evaluate their processes to determine if less reagents or less hazardous reagents can be used in the process. The Radioactive Waste Operations Group routinely assesses the possibility of bulking and absorbing wastes to minimize the number of containers shipped to CWC.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.800 m³

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

Any reductions indicated reflect only those achieved through consolidation at 325 HWTU, not minimization efforts done in the laboratory prior to packaging. Thus the reduction is in shipping volume, not generation. The reductions projected are based upon historical reductions achieved through unit operations.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: CWC Waste Stream: CH TRUM
Treatability Group Name: TRUM - CH

1.2 Applicable profile number(s) for this waste stream:

N/A

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

The waste is generated from facility or equipment operation and maintenance waste, R&D laboratory waste, remediation D&D waste, and analytical laboratory waste. The waste matrix is primarily debris material such as plastic, rubber, metal, paper, cardboard, rags, cement, stainless steel, wood, Styrofoam, glass, ceramics, asbestos, and batteries. Other components of the waste include: soil, absorbent/kitty litter, filters, animal waste, paints, sludges, sand, diatomaceous earth, resins, and floor sweepings.

1.3.2 History of how and where the waste was/is generated:

The waste was generated from the PFP, PUREX Plant, Critical Mass Laboratory, Materials Engineering Laboratory, Kerr-McGee, the Chemical Engineering Building, Post-Irradiation Test Facility, REDOX facility, Radiochemistry Building, the Semi-works D&D, Radiological Calibrations Laboratory, and the Fuels Development Laboratory.

1.3.3 Source of the regulated constituents:

Hazardous constituents used during onsite and offsite radiochemical operations and D&D.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Analytical data and process knowledge.

1.3.5 Additional notes:

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

- | | | |
|-------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| <input type="checkbox"/> Container (pad) | <input checked="" type="checkbox"/> Container (covered) | <input type="checkbox"/> Container (retrievably buried) |
| <input type="checkbox"/> Tank | <input type="checkbox"/> DST | <input type="checkbox"/> SST |
| <input type="checkbox"/> Other (explain): | | |

2.1.1 How was the waste managed prior to storage?

Accumulated and packaged by waste generators prior to storage.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.1.2 Timeframe when waste was placed to storage?

Waste storage in CWC began in 1988 and continues.

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
CWC	3377

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 744.800

Date of inventory values: 12/29/2004

Comments on waste inventory:

Inventory based on data for containers residing at the CWC as reported in the SWITS.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

No issues with CWC storage based on 20 year waste generation forecast.

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list):

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date
A&E-SEC-02-001	01/21/2002

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

- Assessment has been scheduled. Scheduled date:
 Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
M-020-12	10/31/1991

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

- Yes No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

- Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

- Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

- Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

- Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

None planned - waste not generated at CWC.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

These activities occur before the wastes are transferred/shipped to CWC. There are few opportunities to reduce waste volumes placed into storage.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m³

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

None.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** LLBG **Waste Stream:** TRUM-CH Retrieval
Treatability Group Name: TRUM - CH

1.2 **Applicable profile number(s) for this waste stream:**

N/A

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

This waste comes from retrieval activities in the Low-Level Burial Grounds. Waste is expected to be similar to waste already in inventory in the CWC, i.e., facility or equipment operation and maintenance waste, R&D laboratory waste, remediation D&D waste, analytical laboratory waste. The waste matrix is primarily debris material such as plastic, rubber, metal, paper, cardboard, rags, cement, stainless steel, wood, Styrofoam, glass, ceramics, asbestos, and batteries. Other components of the waste include: soil, absorbent/kitty litter, filters, animal waste, paints, sludges, sand, diatomaceous earth, resins, floor sweepings.

1.3.2 **History of how and where the waste was/is generated:**

The waste was generated from the PFP, PUREX Plant, Critical Mass Laboratory, Materials Engineering Laboratory, Kerr-McGee, the Chemical Engineering Building, Post-Irradiation Test Facility, REDOX facility, Radiochemistry Building, the Semi-works D&D, Radiological Calibrations Laboratory, research laboratories, and the Fuels Development Laboratory. The waste was generated and retrievably buried between 1970 and 1987.

1.3.3 **Source of the regulated constituents:**

Hazardous constituents used during onsite and offsite radiochemical operations and D&D.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Analytical data and process knowledge.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

- | | | |
|------------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------|
| <input type="checkbox"/> Container (pad) | <input type="checkbox"/> Container (covered) | <input checked="" type="checkbox"/> Container (retrievably buried) |
| <input type="checkbox"/> Tank | <input type="checkbox"/> DST | <input type="checkbox"/> SST |
| <input checked="" type="checkbox"/> Other (explain): | Stored pursuant to M-091 TPA Milestones. | |

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.1.1 How was the waste managed prior to storage?

In LLBG trenches.

2.1.2 Timeframe when waste was placed to storage?

Varies from 1970 through 1987.

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
N/A	N/A

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 3,182.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

Projected TRUM volumes based on waste inventory disposed of (buried) between 1970-1987 and assumptions regarding the fraction of TRUM retrievably stored waste.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

No issues with CWC storage based on life cycle waste generation forecast.

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list):

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date
A&E-SEC-02-003	03/28/2002

Assessment has been scheduled. Scheduled date:

Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
M-091-40	12/31/2010

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

Yes No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

Yes No Unknown at this time

Milestone Number	Due Date
M-091-40	12/31/2010

If yes or unknown, comment on characterization for storage.

Waste will be assayed as it is retrieved to verify that it is TRU and will subsequently designate as TRUM. Waste that is sent to WIPP will need to be characterized to ensure that it meets the WIPP Waste Acceptance Criteria. No commitment is necessary for the characterization needs on this TRUM because it will occur as part of ongoing operations.

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

Waste generation projections are based on current baseline retrieval rates and assumptions of what percentage of retrieved waste will designate as TRUM.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

None planned.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

No waste minimization assessment is planned because the process is not generating and packaging new waste, it is retrieving waste that already exists. TRUM waste will be minimized by assaying the suspect-TRU drums in the trench. Per TPA Milestone M-91-40 all retrieved waste is suspect of being mixed waste.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

None.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** PFP **Waste Stream:** Lead Lined Containers
Treatability Group Name: TRUM - CH

1.2 **Applicable profile number(s) for this waste stream:**

WSRd 230-00.

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

Former Product Receiver (PR) containers.

1.3.2 **History of how and where the waste was/is generated:**

PFP has approximately 86 lead-lined PR containers that held plutonium-bearing solutions. The emptied lead-lined PR containers will be retained for reuse during the facility's D&D activities to collect flush solutions from the cleanout of pipes and tanks, as necessary, for further processing or solidification. At such time as the PR containers are no longer required for use during cleanout activities, they will be declared TRUM.

1.3.3 **Source of the regulated constituents:**

Lead in the container liners.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Analytical data, process knowledge.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

- | | | |
|-------------------------------------------|----------------------------------------------|---------------------------------------------------------|
| <input type="checkbox"/> Container (pad) | <input type="checkbox"/> Container (covered) | <input type="checkbox"/> Container (retrievably buried) |
| <input type="checkbox"/> Tank | <input type="checkbox"/> DST | <input type="checkbox"/> SST |
| <input type="checkbox"/> Other (explain): | | |

2.1.1 **How was the waste managed prior to storage?**

N/A

2.1.2 **Timeframe when waste was placed to storage?**

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
234-5Z Tunnels	086

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 18.700

Date of inventory values: 12/31/2004

Comments on waste inventory:

The waste is not yet generated and, therefore, is not in storage. The containers are being retained for reuse, as necessary, during cleanout activities to hold flush solutions.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

None.

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list):

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	18.700		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	18.700		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date
PFP Env. Compliance Assess.; Ltr. #01-A&E-129	09/13/2001

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Assessment has been scheduled. Scheduled date:

Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

Yes No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

NDA will be required to determine radiological content. No commitment is necessary for the characterization needs on this TRUM.

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

Waste is not yet generated, therefore it is not in storage.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: CY 2001

If yes, provide document number or other identification:

PPF 2001 Waste Minimization Evaluation for LDR Report Waste Streams, Letter # M2100-02-016

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

PPF will attempt to reuse these containers and will dispose of them only when no longer usable.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m³

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** PFP **Waste Stream:** Legacy Holdup Waste
Treatability Group Name: TRUM - CH

1.2 **Applicable profile number(s) for this waste stream:**
FFPX-20L-0009, FFPX-20L-0008, FFPX-20L-0007.

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

Plutonium-bearing holdup consists of materials that have gradually accumulated as a result of facility operations and operational upsets.

1.3.2 **History of how and where the waste was/is generated:**

Plutonium in ductwork, process vacuum system piping, gloveboxes/hoods, and on the PRF canyon floor that is readily removable will be removed and evaluated for retention or disposal as waste.

1.3.3 **Source of the regulated constituents:**

Introduced during processing of material as part of process feed.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Analytical data, process knowledge.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

- Container (pad) Container (covered) Container (retrievably buried)
 Tank DST SST
 Other (explain):

2.1.1 **How was the waste managed prior to storage?**

N/A

2.1.2 **Timeframe when waste was placed to storage?**

N/A

2.2 **Storage inventory locations:**

Building/Room Number	Number of Containers/Tanks
234-5Z/172	30

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 6.250

Date of inventory values: 12/31/2004

Comments on waste inventory:

Will be generated when the legacy holdup waste is removed.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

None:

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list):

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	28.940		0.000
2006	0.000		0.000
2007	0.000		0.000
2008	0.000		0.000
2009	0.000		0.000
Total	28.940		0.000

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date
PPF Compl. Assess.; Ltr. #01-A&E-129	09/13/2001

Assessment has been scheduled. Scheduled date:

Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

Yes No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

Yes No Unknown at this time

Milestone Number	Due Date
M-083-12-T01	12/31/2003
M-083-14	09/30/2006

If yes or unknown, comment on characterization for storage.

NDA required.

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

See 3.2 below.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

There are no production operations planned to generate additional legacy holdup.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m³

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		0.000
2006	0.000		0.000
2007	0.000		0.000
2008	0.000		0.000
2009	0.000		0.000
Total	0.000		0.000

3.3.3 Bases and assumptions used in above estimates:

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: PFP Waste Stream: TRUM Debris
Treatability Group Name: TRUM - CH

1.2 Applicable profile number(s) for this waste stream:

PFPX-230-0004, PFPX-230-0005, PFPX-230-0006, PFPX-230-0007, PFPX-230-0008, PFPX-230-0012, PFPX-20H-0001.

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

Primarily debris materials such as plastic, wood, rubber, metal, glass, concrete, equipment such as PCB capacitors, etc.

1.3.2 History of how and where the waste was/is generated:

Debris is generated from facility or equipment operations and maintenance waste and D&D activities.

1.3.3 Source of the regulated constituents:

Materials/debris contaminated with hazardous constituents from operations, construction, and D&D activities.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Analytical data, process knowledge.

1.3.5 Additional notes:

None

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

- Container (pad) Container (covered) Container (retrievably buried)
 Tank DST SST
 Other (explain):

2.1.1 How was the waste managed prior to storage?

N/A

2.1.2 Timeframe when waste was placed to storage?

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
N/A	N/A

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

When generated, the TRUM will be placed into a SAA or 90-day accumulation area.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

None.

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list):

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	187.000		
2006	180.300		
2007	3.600		
2008	0.600		
2009	0.000		
Total	371.500		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date
PFP Env. Compliance Assess.; Ltr. #01-A&E-129	09/13/2001

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

- Assessment has been scheduled. Scheduled date:
 Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

- Yes No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

- Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

- Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

Will be completed during activities to facilitate transfer of the container to CWC. No commitment is necessary for the characterization needs on this TRUM.

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

- Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

- Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

None

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

See section 3.2 below.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

PFP is currently in a clean up and stabilization mode. Clean up and stabilization operations tend to increase production of waste. During D&D PFP's waste minimization program will seek to minimize waste production as much as possible.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m³

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** T Plant Complex **Waste Stream:** TRUM-CH
Treatability Group Name: TRUM - CH

1.2 **Applicable profile number(s) for this waste stream:**
200

1.3 Waste stream source information

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

TRU mixed waste generated from past operations. Waste constituents are highly variable.

1.3.2 **History of how and where the waste was/is generated:**

TRU mixed waste was generated from many onsite and offsite locations.

1.3.3 **Source of the regulated constituents:**

See 1.3.1 and 1.3.2

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Process knowledge and/or analytical data.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

- Container (pad) Container (covered) Container (retrievably buried)
 Tank DST SST
 Other (explain):

2.1.1 **How was the waste managed prior to storage?**

Waste was generated from numerous onsite and/or offsite locations. Waste was either stored at the CWC and/or WRAP and from retrieval operations at the LLBG.

2.1.2 **Timeframe when waste was placed to storage?**

2004 to present.

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
T Plant Complex	442

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 92.120

Date of inventory values:

Comments on waste inventory:

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list): WRAP and eventual shipment for disposal to WIPP

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	177.000		0.000
2006	0.000		0.000
2007	0.000		0.000
2008	0.000		0.000
2009	0.000		0.000
Total	177.000		0.000

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date
01-A&E-012	11/28/2000

Assessment has been scheduled. Scheduled date: 3rd quarter CY2005

Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

Yes No

If yes, summarize releases and quantities and provide date:

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

Yes No

If yes, explain:

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted:

If yes, provide document number or other identification:

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

See Section 3.3.3.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

All efforts will be pursued when processing TRU mixed to avoid the generation of additional waste. NOTE: Additional waste generated could consist of PPE (e.g., gloves, etc).

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m³

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		0.000
2006	0.000		0.000
2007	0.000		0.000
2008	0.000		0.000
2009	0.000		0.000
Total	0.000		0.000

3.3.3 Bases and assumptions used in above estimates:

T Plant Complex does not track waste reduction by treatability groups. Routine and nonroutine generated waste is reported quarterly to the Waste Minimization/Pollution Prevention Group.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: WRAP Waste Stream: TRUM-CH
Treatability Group Name: TRUM - CH

1.2 Applicable profile number(s) for this waste stream:
WSRds 200, 20D, 20H, 201, 203, 204, 220, 230, 250, and 270

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

Waste is drummed CH TRUM that consists of plastics, paper/cardboard, filters, rubber, wood, cloth/rags, metal, soil/rocks, chemicals, and glass.

1.3.2 History of how and where the waste was/is generated:

The waste was generated from the PFP, PUREX Plant, Critical Mass Laboratory, Materials Engineering Laboratory, Kerr-McGee, the Chemical Engineering Building, Post-Irradiation Test Facility, REDOX facility, Radiochemistry Building, the Semi-works D&D, Radiological Calibrations Laboratory, research laboratories, and the Fuels Development Laboratory. The waste was generated and placed into storage from 1987-1999. In addition, some waste in this stream will be from future 200 Area D&D activities (has yet to be generated). This waste is in WRAP for certification to be sent to WIPP.

1.3.3 Source of the regulated constituents:

Radiochemical operations around the site using hazardous chemicals, and D&D of such operations as noted in Section 1.3.2 of this data sheet.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Analytical data, process knowledge.

1.3.5 Additional notes:

Waste at WRAP comes from various generators and generating processes around the Hanford Site due to WRAP's verification and repackaging mission. TRUM destined for WIPP is exempt from LDRs.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

- Container (pad) Container (covered) Container (retrievably buried)
 Tank DST SST
 Other (explain):

2.1.1 How was the waste managed prior to storage?

Waste was generated and packaged at various locations around the Hanford Site.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.1.2 Timeframe when waste was placed to storage?

Waste was placed into storage between 1987 and present. Drums at WRAP are undergoing verification and repackaging to meet WIPP WAC.

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
2336W	306
2404WB	1332
2404WC	721

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 494.690

Date of inventory values: 12/31/2004

Comments on waste inventory:

Inventory fluctuates on a daily basis to support WRAP's mission of waste verification and repackaging. Inventory based on Drum Management System (DMS) printout dated 12/31/03

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

Due to proximity to and interchange with CWC, there is no storage capacity issue at WRAP.

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list):

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date
DE-AC06-96RL13200	09/26/2001

Assessment has been scheduled. Scheduled date:

Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

Yes No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

The waste at WRAP is processed through WRAP and transferred on to another TSD unit or Atomic Energy Act disposal location. A commitment is not necessary to complete this characterization because it is part of WRAP's ongoing activities.

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

None currently scheduled -- see Section 3.2.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

This is waste generated at other locations. However, to the extent practical, all mixed waste is segregated and packaged separately from LLW or TRU wastes. To minimize the generation of mixed waste, generators actively seek nondangerous alternatives for the dangerous constituents in their processes. Minimization goals are set annually and tracked quarterly, and waste treatment is used to destroy the hazardous constituents, as allowable.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

Since subject waste has already been generated, no additional waste minimization activities are planned.

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LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

- 1.1 **Treatability Group Name:** TRUM - Large Box
- 1.2 **Description of waste (list WSRd numbers for this waste stream, as applicable)**

TRUM waste from various generating activities around the Hanford Site. The waste contains metals including steel shielding, plastic/polyurethane, wood, paper/cardboard, glass, filters, soil, miscellaneous/unknown/other, rags, lead and lead shielding, plexiglas, styrofoam, asbestos, rubber, glass, sorbents/kitty litter, cement and concrete.

2.0 WASTE INVENTORY AND GENERATION

- 2.1 **Current total inventory for this waste stream (stored waste only, not accumulation areas). [Equals sum of location-specific data sheets for this treatability group.]**

Total volume (cubic meters): 6,164.120

- 2.2 **Estimated generation projection by calendar year: (equals annual sums of location-specific data sheets for this treatability group).**

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.0 WASTE STREAM CHARACTERIZATION

- 3.1 **Radiological Characteristics**

3.1.1 **Mixed waste type:** High-level Transuranic Low-level

3.1.2 **Handling (as package contents would need to be handled during treatment):**

Contact-handled Remote-handled

3.1.3 **Comments on radiological characteristics (e.g., more specific information on content, treatment concerns caused by radiation, confidence level):**

Each container of waste has more than 100 nCi/g of transuranic radionuclide activity. The waste as packaged is considered contact handled (i.e., less than or equal to 200 mrem/hr on the outside of the package surface), however, the dose rate of some waste inside the package may exceed 200 mrem/hr.

LDR REPORT TREATABILITY GROUP DATA SHEET

3.2 Physical Form

3.2.1 Physical form of the waste:

Solid Liquid Semi-solid Debris

Other (Describe in comments.)

3.2.2 Comments on physical form:

Waste in boxes typically contains metal debris as the primary physical form. The metal will need to be cut into smaller pieces to fit in a container acceptable to the WIPP. Most of the waste is TRUM contaminated metals which are also contaminated with di-n-octyl phthalate.

3.3 Regulated constituents and wastewater/non-wastewater category

3.3.1 Wastewater/non-wastewater under RCRA

Wastewater Non-wastewater Unknown

3.3.2 Regulated constituents table including treatment requirements and UHCs, if applicable.

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D001	Ignitable Charac.	N/A	***	***	Remove characteristic (1)
D002	Corrosive Charac.	N/A	***	***	Remove characteristic (1)
D004	Arsenic	N/A	***	***	Exempt (61 FR 60704)
D005	Barium	N/A	***	***	Exempt (61 FR 60704)
D006	Cadmium	N/A	***	***	Exempt (61 FR 60704)
D007	Chromium	N/A	***	***	Exempt (61 FR 60704)
D008	Lead	N/A	***	***	Exempt (61 FR 60704)
D009	Mercury	N/A	***	***	Exempt (61 FR 60704)
D010	Selenium	N/A	***	***	Exempt (61 FR 60704)
D011	Silver	N/A	***	***	Exempt (61 FR 60704)
D012	Endrin	N/A	***	***	Exempt (61 FR 60704)
D014	Methoxychlor	N/A	***	***	Remove characteristic (1)
D018	Benzene	N/A	***	***	Exempt (61 FR 60704)
D019	Carbon Tetrachloride	N/A	***	***	Exempt (61 FR 60704)
D021	Chlorobenzene	N/A	***	***	Exempt (61 FR 60704)
D022	Chloroform	N/A	***	***	Exempt (61 FR 60704)
D027	1,4-Dichlorobenzene	N/A	***	***	Exempt (61 FR 60704)
D028	1,2-Dichloroethane	N/A	***	***	Exempt (61 FR 60704)
D029	1,1-Dichlorethylene	N/A	***	***	Exempt (61 FR 60704)
D030	2,4-Dinitrotoluene	N/A	***	***	Exempt (61 FR 60704)
D031	Heptachlor	N/A	***	***	Remove characteristic (1)
D032	Hexachlorobenzene	N/A	***	***	Exempt (61 FR 60704)
D033	Hexachlorobutadiene	N/A	***	***	Remove characteristic (1)

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D034	Hexachloroethane	N/A	***	***	Exempt (61 FR 60704)
D035	Methyl Ethyl Ketone	N/A	***	***	Exempt (61 FR 60704)
D036	Nitrobenzene	N/A	***	***	Exempt (61 FR 60704)
D037	Pentachlorophenol	N/A	***	***	Exempt (61 FR 60704)
D038	Pyridine	N/A	***	***	Exempt (61 FR 60704)
D039	Tetrachloroethylene	N/A	***	***	Exempt (61 FR 60704)
D040	Trichloroethylene	N/A	***	***	Exempt (61 FR 60704)
D042	2,4,6-Trichlorophenol	N/A	***	***	Exempt (61 FR 60704)
D043	Vinyl chloride	N/A	***	***	Exempt (61 FR 60704)
F001	1,1,1-Trichloroethane	Spent Solvent	***	***	Exempt (61 FR 60704)
F001	Trichloroethylene	Spent Solvent	***	***	Exempt (61 FR 60704)
F002	Trichloroethylene	Spent Solvent	***	***	Exempt (61 FR 60704)
F003	Acetone	Spent Solvent	***	***	Exempt (61 FR 60704)
F003	Xylene	Spent Solvent	***	***	Exempt (61 FR 60704)
F004	Cresol	Spent Solvent	***	***	Exempt (61 FR 60704)
F005	Methyl Ethyl Ketone	Spent Solvent	***	***	Exempt (61 FR 60704)
WP01	Persistent, EHW	N/A	***	***	N/A
WP02	Persistent, DW	N/A	***	***	N/A
WSC2	Solid Corrosive	N/A	***	***	N/A
WT01	Toxic, EHW	N/A	***	***	N/A
WT02	Toxic, DW	N/A	***	***	N/A

* LDR Subcategory marked N/A if no existing subcategory adequately describes this waste, or if there are no defined subcategories for the waste number (40 CFR 268.40).

** If waste is not consistent in concentration, this may not apply. Described in Section 3.3.6.

*** The concentration varies and is based on process knowledge and/or analytical data.

(1) Characteristic waste code not currently acceptable at WIPP.

LDR REPORT TREATABILITY GROUP DATA SHEET

3.3.3 List any waste numbers from Section 3.3.2 for which the waste stream already meets established LDR treatment standards.

- List: N/A
- No LDR treatment required (e.g. TRUM waste destined for WIPP, exclusion, etc.)
- None (i.e. all constituents/waste numbers of this waste stream still require treatment).

3.3.4 Does this waste stream contain PCBs?

- Yes No Unknown

If no or unknown, skip to Section 3.3.5.

3.3.4.1 Is waste stream subject to TSCA regulations for PCBs?

- Yes No Unknown

3.3.4.2 Indicate the PCB concentration range.

- < 50 ppm \$ 50 ppm Unknown

3.3.5 What is the confidence level for the regulated constituents?

- Low Medium High

3.3.6 Comments on regulated constituents and wastewater/non-wastewater category:

The number and concentration of contaminants varies greatly among the boxes. One box contains F003 and F005 listed contaminants because it contains the remains of HLW tank core samples. One box contains trace quantities of carbon tetrachloride and several metals. A few boxes contain substantial quantities of lead.

4.0 WASTE STREAM TREATMENT

4.1 Is this waste stream currently being treated?

- Yes No

If yes, provide details: N/A

4.2 Planned treatment: Check the appropriate box indicating future plans for treating this waste stream to meet applicable regulations, including LDR treatment standards.

- No treatment required (skip to Section 5.0)
- Treating or plan to treat on site
- Treating or plan to treat off site
- Treatment options still being assessed

4.3 Planned treatment method, facility, extent of treatment capacity available:

LDR REPORT TREATABILITY GROUP DATA SHEET

Waste is planned to be treated at the proposed M-091 facility. The primary objective of treatment is to cut metal debris into smaller pieces so that it can be placed in a smaller box. WIPP can currently only accept a box up to a size of approximately 1.9 cubic meters. If larger containers are accepted at WIPP in the future, size reduction might not be required.

4.4 Treatment schedule information:

Treatment is anticipated to be performed as necessary to support the outcome of the M-091 TPA settlement agreement.

4.5 Applicable Tri-Party Agreement treatment milestone numbers (including permitting):

Milestone Number	Due Date
M-091-40O	12/31/2012
M-091-43B	06/30/2008
M-091-44	12/31/2012
M-091-44A	06/30/2012

4.6 Proposed new Tri-Party Agreement treatment milestones:

See Section 4.4.

4.7 If treating or planning to treat on site, was or will waste minimization be addressed in developing and/or selecting the treatment method?

Yes No Unknown

If yes, describe: As the M-091 mission develops, T Plant Complex will evaluate, where possible, waste minimization techniques.

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment or already in place.

TRUM disposed of at WIPP is exempt from the LDR treatment standards.

4.9 Key Assumptions:

None.

5.0 WASTE STREAM DISPOSAL

After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):

TRUM is disposed of at WIPP.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: CWC Waste Stream: TRUM Boxes
Treatability Group Name: TRUM - Large Box

1.2 Applicable profile number(s) for this waste stream:

N/A

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

The waste consists of metals, plastic, lead shielding, steel shielding, glass, paper/cardboard, cement, and sorbents. The material was contaminated with transuranic radionuclides from facility operations and R&D processes. The primary component in the boxes is metal that will probably need to be cut in order to fit in containers destined for WIPP.

1.3.2 History of how and where the waste was/is generated:

The waste was generated from the PFP, PUREX Plant, Radiochemistry Building, Critical Mass Storage, and Materials Engineering Laboratory.

1.3.3 Source of the regulated constituents:

Radiochemical operations around the site and D&D activities.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Analytical data and process knowledge.

1.3.5 Additional notes:

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

- Container (pad) Container (covered) Container (retrievably buried)
 Tank DST SST
 Other (explain):

2.1.1 How was the waste managed prior to storage?

Accumulated and packaged by waste generators prior to storage.

2.1.2 Timeframe when waste was placed to storage?

Waste storage at CWC began in 1988 and continues.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
CWC	114

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 718.120

Date of inventory values: 12/29/2004

Comments on waste inventory:

Inventory based on data for containers residing at the CWC as reported in the SWITS.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

No issues with CWC storage based on 20 year waste generation forecast.

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list):

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date
A&E-SEC-02-001	01/21/2002

Assessment has been scheduled. Scheduled date:

Other. Explain:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
M-020-12	10/31/1991

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

Yes No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

None planned - waste not generated at CWC.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

These activities occur before the wastes are transferred/shipped to CWC. There are few opportunities to reduce waste volumes placed into storage.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m³

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

There is no projected generation by CWC.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** LLBG **Waste Stream:** TRUM Retrieval Boxes
Treatability Group Name: TRUM - Large Box

1.2 **Applicable profile number(s) for this waste stream:**

N/A

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

This waste is generated from retrieval activities in the Low-Level Burial Grounds. Waste is expected to be similar to waste already in inventory in the CWC, i.e., facility or equipment operation and maintenance waste, R&D laboratory waste, remediation D&D waste, analytical laboratory waste. The primary waste type is heterogeneous debris from onsite and offsite operations and could include debris material such as plastic, rubber, metal, paper, cardboard, rags, cement stainless steel, work Styrofoam, glass ceramics, asbestos and batteries. Other components of the waste could include: soil, absorbent/kitty litter, filters, animal waste paints, sludges, sand diatomaceous earth and resins.

1.3.2 **History of how and where the waste was/is generated:**

The waste was generated from the PFP, PUREX Plant, Critical Mass Laboratory, Materials Engineering Laboratory, Kerr-McGee, the Chemical Engineering Building, Post-Irradiation Test Facility, REDOX Facility Radiochemistry Building, the Semi-works D&D, Radiological Calibrations Laboratory, and the Fuels Development Laboratory.

1.3.3 **Source of the regulated constituents:**

See 1.3.1 and 1.3.2.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Analytical data and process knowledge.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

- | | | |
|------------------------------------------------------|----------------------------------------------|---------------------------------------------------------|
| <input type="checkbox"/> Container (pad) | <input type="checkbox"/> Container (covered) | <input type="checkbox"/> Container (retrievably buried) |
| <input type="checkbox"/> Tank | <input type="checkbox"/> DST | <input type="checkbox"/> SST |
| <input checked="" type="checkbox"/> Other (explain): | Stored pursuant to TPA M-091 milestones. | |

2.1.1 **How was the waste managed prior to storage?**

In LLBG trenches.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.1.2 Timeframe when waste was placed to storage?

Varies from 1970 through 1987.

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
N/A	N/A

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 5,446.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

Waste is stored pursuant to TPA M-091 milestones.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

No issues with CWC storage based on life cycle waste generation forecast.

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list):

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date
A&E-SEC-02-003	03/28/2002

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Assessment has been scheduled. Scheduled date:

Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
M-091-40	12/31/2010

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

Yes No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

Yes No Unknown at this time

Milestone Number	Due Date
M-091-40	12/31/2010

If yes or unknown, comment on characterization for storage.

Waste may be assayed after retrieval to verify that the waste is TRU or process knowledge will be used to confirm its identity and acceptability for storage. Per draft Settlement Agreement (M-91-03-01) between DOE-RL and the Washington State Department of Ecology all retrievably stored waste is suspected of being mixed waste.

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

Yes No Unknown at this time

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

None planned - waste has already been generated.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Existing waste is being removed from earthen trenches. There is no opportunity to reduce the volume of waste.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m³

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

None.

LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

1.1 **Treatability Group Name:**

TRUM - RH

1.2 **Description of waste (list WSRd numbers for this waste stream, as applicable)**

The waste consists of inner container, iron-based metals, lead, soil, lead shielding, and steel shielding. Waste is from the clean-out of hot cells from research/development laboratories. The relative waste quantity is small, because the waste matrix contains a large percentage of lead and steel shielding materials.

2.0 WASTE INVENTORY AND GENERATION

2.1 **Current total inventory for this waste stream (stored waste only, not accumulation areas). [Equals sum of location-specific data sheets for this treatability group.]**

Total volume (cubic meters): 85.539

2.2 **Estimated generation projection by calendar year: [equals annual sums of location-specific data sheets for this treatability group].**

Year	m ³	and/or	kg
2005	1.789		
2006	1.028		
2007	1.028		
2008	0.514		
2009	0.514		
Total	4.873		

3.0 WASTE STREAM CHARACTERIZATION

3.1 **Radiological Characteristics**

3.1.1 **Mixed waste type:** High-level Transuranic Low-level

3.1.2 **Handling (as package contents would need to be handled during treatment):**

Contact-handled Remote-handled

3.1.3 **Comments on radiological characteristics (e.g., more specific information on content, treatment concerns caused by radiation, confidence level):**

The waste contains transuranic radionuclides greater than 100 nCi/g. The waste also contains non-transuranic radioactivity. Typical concentrations exceed 1,000 Ci/m³ for Sr90, 1,000 Ci/m³ for Y90, 1,000 Ci/m³ for Cs137, and 950 Ci/m³ for Ba137m.

LDR REPORT TREATABILITY GROUP DATA SHEET

3.2 Physical Form

3.2.1 Physical form of the waste:

Solid Liquid Semi-solid Debris

Other (Describe in comments.)

3.2.2 Comments on physical form:

Waste is from the clean-out of hot cells from research/development laboratories. The relative waste quantity is small, because the waste matrix contains a large percentage of shielding materials.

3.3 Regulated constituents and wastewater/non-wastewater category

3.3.1 Wastewater/non-wastewater under RCRA

Wastewater Non-wastewater Unknown

3.3.2 Regulated constituents table including treatment requirements and UHCs, if applicable.

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D002	Corrosive Charac.	N/A	***	***	Remove Characteristic (1)
D004	Arsenic	N/A	***	***	Exempt (61 FR 60704)
D005	Barium	N/A	***	***	Exempt (61 FR 60704)
D006	Cadmium	N/A	***	***	Exempt (61 FR 60704)
D007	Chromium	N/A	***	***	Exempt (61 FR 60704)
D008	Lead	N/A	***	***	Exempt (61 FR 60704)
D009	Mercury	N/A	***	***	Exempt (61 FR 60704)
D010	Selenium	N/A	***	***	Exempt (61 FR 60704)
D011	Silver	N/A	***	***	Exempt (61 FR 60704)
D019	Carbon Tetrachloride	N/A	***	***	Exempt (61 FR 60704)
D030	2,4-Dinitrotoluene	N/A	***	***	Exempt (61 FR 60704)
F001	1,1,1-Trichloroethane	Spent Solvent	***	***	Exempt (61 FR 60704)
F001	Trichloroethylene	Spent Solvent	***	***	Exempt (61 FR 60704)
F002	Trichloroethylene	Spent Solvent	***	***	Exempt (61 FR 60704)
F003	Acetone	Spent Solvent	***	***	Exempt (61 FR 60704)
F004	Cresol	Spent Solvent	***	***	Exempt (61 FR 60704)
F005	Methyl Ethyl Ketone	Spent Solvent	***	***	Exempt (61 FR 60704)
WP02	Persistent, DW	N/A	***	***	N/A
WSC2	Solid Corrosive	N/A	***	***	N/A
WT02	Toxic, DW	N/A	***	***	N/A

* LDR Subcategory marked N/A if no existing subcategory adequately describes this waste, or if there are no defined subcategories for the waste number (40 CFR 268.40).

** If waste is not consistent in concentration, this may not apply. Described in Section 3.3.6.

*** The concentration varies and is based on process knowledge and/or analytical data.

(1) Characteristic waste codes not currently acceptable at WIPP.

LDR REPORT TREATABILITY GROUP DATA SHEET

3.3.3 List any waste numbers from Section 3.3.2 for which the waste stream already meets established LDR treatment standards.

- List:
 No LDR treatment required (e.g. TRUM waste destined for WIPP, exclusion, etc.)
 None (i.e. all constituents/waste numbers of this waste stream still require treatment).

3.3.4 Does this waste stream contain PCBs?

- Yes No Unknown

If no or unknown, skip to Section 3.3.5.

3.3.4.1 Is waste stream subject to TSCA regulations for PCBs?

- Yes No Unknown

3.3.4.2 Indicate the PCB concentration range.

- < 50 ppm \$ 50 ppm Unknown

3.3.5 What is the confidence level for the regulated constituents?

- Low Medium High

3.3.6 Comments on regulated constituents and wastewater/non-wastewater category:

None.

4.0 WASTE STREAM TREATMENT

4.1 Is this waste stream currently being treated?

- Yes No

If yes, provide details: N/A

4.2 Planned treatment: Check the appropriate box indicating future plans for treating this waste stream to meet applicable regulations, including LDR treatment standards.

- No treatment required (skip to Section 5.0)
 Treating or plan to treat on site
 Treating or plan to treat off site
 Treatment options still being assessed

4.3 Planned treatment method, facility, extent of treatment capacity available:

Wastes are planned to be treated under the proposed M-091 capability, as needed to meet the applicable waste acceptance criteria at WIPP. The extent of the treatment and technologies has yet to be determined, but the techniques will likely include segregation, decontamination, solidification, and repackaging. The treatment technologies and capacity of M-091 have yet to be determined.

LDR REPORT TREATABILITY GROUP DATA SHEET

4.4 Treatment schedule information:

Treatment will be performed in accordance with M-91 milestones and target dates after they have been finalized.

4.5 Applicable Tri-Party Agreement treatment milestone numbers (including permitting):

Milestone Number	Due Date
M-091-01	

4.6 Proposed new Tri-Party Agreement treatment milestones:

See Section 4.4.

4.7 If treating or planning to treat on site, was or will waste minimization be addressed in developing and/or selecting the treatment method?

Yes No Unknown

If yes, describe: N/A

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment or already in place.

TRUM disposed of at WIPP is exempt from the LDR treatment standards.

4.9 Key Assumptions:

None.

5.0 WASTE STREAM DISPOSAL

After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):

TRUM is disposed of at WIPP.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** 325 HWTU **Waste Stream:** TRUM-RH
Treatability Group Name: TRUM - RH

1.2 **Applicable profile number(s) for this waste stream:**
PNNL-270-0001-00

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

Subject waste was generated from PNNL laboratory operations.

1.3.2 **History of how and where the waste was/is generated:**

Waste is generated from routine laboratory operations and hot cell clean outs at PNNL.

1.3.3 **Source of the regulated constituents:**

Waste stream may consist of different inorganic and organic solids and liquids that are contaminated with inorganic and organic regulated dangerous waste constituents. This waste stream also includes hazardous debris.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Wastes are characterized as specified in PNNL Waste Stream Profiles.

1.3.5 **Additional notes:**

N/A

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

- Container (pad) Container (covered) Container (retrievably buried)
 Tank DST SST
 Other (explain):

2.1.1 **How was the waste managed prior to storage?**

The waste was managed in 90-day or Satellite Accumulation areas prior to being transferred to storage.

2.1.2 **Timeframe when waste was placed to storage?**

The wastes inventoried and currently stored at the 325 HWTU were placed in storage between 3/14/97 and 12/7/04.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
325/528	14
325/SAL	3

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 1.789

Date of inventory values: 12/31/2004

Comments on waste inventory:

This represents the RH TRUM wastes currently in this storage location and includes one item regulated for PCBs.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list):

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	1.789		
2006	1.028		
2007	1.028		
2008	0.514		
2009	0.514		
Total	4.873		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date
A&E-DWR-02-004	05/31/2002

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

- Assessment has been scheduled. Scheduled date:
 Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

- Yes No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

- Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

- Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

- Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

- Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

PNNL Waste Management requests full chemical and radiological characterization from the laboratory generators prior to receiving the waste into the 325 HWTU. The inventory information is for what is currently in storage in the specified 325 HWTU location(s).

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

Assessment Date to be determined.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Laboratory staff routinely evaluate their processes to determine if less reagents or less hazardous reagents can be used in the process. The Radioactive Waste Operations Group routinely assess the possibility of consolidating items for shipment to CWC.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m³

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

Projects generating wastes usually have strict requirements for process outcomes. Hence, it is not possible to project specific volume reductions. As noted in Section 3.2, each project generating this type of waste is reviewed to assure that waste volumes generated are minimized.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: CWC Waste Stream: RH TRUM
Treatability Group Name: TRUM - RH

1.2 Applicable profile number(s) for this waste stream:

N/A

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

The waste consists of plastics, metals, lead shielding, steel shielding, glass, paper/cardboard, cement, and absorbents that are contaminated with hazardous constituents. The current RH waste is packaged in shielded containers, so that it can be stored as CH waste.

1.3.2 History of how and where the waste was/is generated:

The waste was generated from the PFP, PUREX Plant, Critical Mass Laboratory, Materials Engineering Laboratory, Kerr-McGee, the Chemical Engineering Building, Post-Irradiation Test Facility, REDOX facility, Radiochemistry Building, the Semi-works D&D, Radiological Calibrations Laboratory, and the Fuels Development Laboratory.

1.3.3 Source of the regulated constituents:

See 1.3.1 and 1.3.2.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Analytical data and process knowledge.

1.3.5 Additional notes:

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

- Container (pad) Container (covered) Container (retrievably buried)
 Tank DST SST
 Other (explain):

2.1.1 How was the waste managed prior to storage?

Accumulated and packaged at various locations prior to storage.

2.1.2 Timeframe when waste was placed to storage?

Waste storage in CWC began in 1988 and continues.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
CWC	45

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 83.750

Date of inventory values: 12/29/2004

Comments on waste inventory:

Inventory based on data for containers residing at the CWC as reported in the SWITS.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

No issues with CWC storage based on 20 year waste generation forecast.

2.5 Planned storage areas for this waste:

Current Location CWC DST

Other Area(s) (list):

None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

Document Number	Date
A&E-SEC-02-001	01/21/2002

Assessment has been scheduled. Scheduled date:

Other. Explain:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
M-020-12	10/31/1991

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

Yes No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

Yes No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

Yes No Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

- Yes No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

None planned - waste not generated at CWC.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

These activities occur before the wastes are transferred/shipped to CWC. There are few opportunities to reduce waste volumes placed into storage.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m³

3.3.2 Projected future waste volume reductions

Year	m ³	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

None.



APPENDIX C

POTENTIAL MIXED WASTE

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APPENDIX C

POTENTIAL MIXED WASTE

The origin and definition of potential mixed waste is discussed in Section 2.3. The content of each column is defined here.

Table C-1. Potential Mixed Waste Table Explanation.

Column	Column Title	Content Definition
A	Company, project	Self-explanatory.
B	Common name or description	Self-explanatory.
C	Facility number	Self-explanatory.
D	Solid waste with potential for mixed waste not integral to the building or structure (no use)	“Stuff” (e.g., equipment, materials) that is not currently in use and for which no future use is currently known, but for which the final disposition has not yet been determined. The “stuff” is not currently considered mixed waste and may or may not currently be contaminated, but includes items with the potential for becoming mixed waste, depending on future decisions regarding the ultimate use and disposition. “Stuff” integral to the building is not to be included. “None” in this column indicates the project/facility contains no “stuff” known to be in this category.
E	Materials with potential to become solid waste and subsequently mixed waste (in standby, possible use)	“Stuff” (e.g., equipment, materials) that is currently in “standby” and may at some point, if it becomes waste, designate as mixed waste. Provide details for standby equipment/material that has a clear use or path for reuse/recycling, but may at some point, if/when it becomes waste, designate as mixed waste. A future use must be documented for material to be included in column E of the Potential Mixed Waste Table. Documentation of the future use of items in column E shall be available upon request. Columns D and E encompass contents of buildings and structures only. Floor sweepings, dust, etc., are not included. The structures themselves, including contaminated walls, floors, etc., are not included. Equipment and chemicals that are in use are not included.
F	DOE assessment of storage methods	Indicate when the DOE assessment for the purpose of meeting LDR report requirements is scheduled. Provide an alternative explanation if required (e.g., the assessment completion date, key facility in surveillance and maintenance phase, further DOE LDR assessment not needed).
G	Schedule information	Include schedule information relative to materials detailed in these columns. Include references to pertinent documents (closure plans, RODs) and identify any applicable operable units or other Tri-Party Agreement drivers for remediation. Provide a date for completing the data gap plan, if applicable. Also, for major negotiations related to the path forward for the potential mixed waste, such as the start of facility transition or deactivation, provide a date for starting the negotiations with the regulators.

Table C-1. Potential Mixed Waste Table Explanation.

Column	Column Title	Content Definition
H	Integrating factors	Include factors that should be considered when determining when negotiations should occur. These include factors such as relative threat to human health and the environment of no action, ties to other activities such as operable unit remediation, ties of action to facility missions, etc.

Table C-2. Potential Mixed Waste.

A	B	C	D	E	F	G	H
Company, project	Common name or description	Facility number	Solid waste, with potential for mixed waste, not integral to the building or structure (no use)	Materials, with potential to become solid waste and subsequently mixed waste (in standby, possible use)	DOE assessment of storage methods	Schedule information	Integrating factors
Fluor Hanford Inc. K Basin Closure Project	105-KE Facility	105-KE	Wrapped equipment, lead blankets	Oil drained from equipment, chemicals in storage cabinets,	Completed 1 st quarter CY2005	Anticipated to be dispositioned by the end of FY2006 Data gap Plan: Completed 1 st quarter CY2005	None
Fluor Hanford, Inc., PFP Closure Project	216-Z-9 Crib Soil Removal Glovebox (inactive)	216Z9A	Soil Removal Glovebox. Air compressor (potential for regulated oil). Residual contamination within glovebox (potential for mixed wastes during cleanout). Note: Glovebox probably will function as containment when conducting facility cleanout/transition activities.	None	DOE assessment: Completed 3 rd quarter CY 2001	Tri-Party Agreement milestone M-083-41, Complete Transition and Dismantlement of the 216-Z-9 Crib Complex (due date: September 30, 2010) Data gap plan: NA Starting negotiations: NA (completed)	None

Table C-2. Potential Mixed Waste.

A	B	C	D	E	F	G	H
Company, project	Common name or description	Facility number	Solid waste, with potential for mixed waste, not integral to the building or structure (not use)	Materials, with potential to become solid waste and subsequently mixed waste (in standby, possible use)	DOE assessment of storage methods	Schedule information	Integrating factors
Fluor Hanford, Inc., PFP Closure Project	Plutonium Finishing Plant	234-5Z	Radioactive Acid Digestion Test Unit (RADTU) Gloveboxes (potential for residual contamination during cleanout). Note: Gloveboxes to be maintained and used for containment when conducting facility cleanout/transition activities.	Residues and low-grade SNM solids.	DOE assessment: Completed 3 rd quarter CY 2001	<p>M-083-44, Complete Transition of the 234-5Z (Plutonium Conversion Facility) and ZA (Plutonium Conversion Support Facility), 243-Z Low Level Waste Treatment Facility, 291-Z Exhaust Building, and 291-Z-1 Exhaust Stack to support PFP Decommissioning, due September 30, 2015.</p> <p>Tri-Party Agreement milestone M-083-14, Complete 100% of the Legacy Pu Holdup Removal as Defined in the Legacy Pu Holdup Removal Plan for PFP required by MX-083-12-T01 (due date: September, 2006).</p> <p>Data gap plan: NA Starting negotiations: NA (completed)</p>	None

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Table C-2. Potential Mixed Waste.

A	B	C	D	E	F	G	H
Company, project	Common name or description	Facility number	Solid waste, with potential for mixed waste, not integral to the building or structure (no use)	Materials, with potential to become solid waste and subsequently mixed waste (in standby, possible use)	DOE assessment of storage methods	Schedule information	Integrating factors
Fluor Hanford, Inc., PFP Closure Project	Plutonium Reclamation Facility	236Z	Pu nitrate reclamation tanks, piping, and control equipment. Miscellaneous treatment tanks, piping, and control equipment. Containment gloveboxes (reclamation and miscellaneous treatment). Chem. prep tanks, piping, and control equipment. Residual contamination within inactive process equipment and gloveboxes (potential for mixed waste during cleanout). Potential for liquids within inactive tanks, vessels, and piping. Miscellaneous tools and maintenance equipment located within canyon cell. Note: Gloveboxes to be maintained and used for containment when conducting facility cleanout/transition activities.	None.	DOE assessment: Completed 3 rd quarter CY 2001	Tri-Party Agreement milestone M-083-43, Complete Transition of the 242-Z Waste Treatment Facility and 236-Z Plutonium Reclamation Facility to Support PFP Decommissioning (due date: September 30, 2013). Data gap plan: NA Starting negotiations: NA (completed)	None

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Table C-2. Potential Mixed Waste.

A	B	C	D	E	F	G	H
Company, project	Common name or description	Facility number	Solid waste, with potential for mixed waste, not integral to the building or structure (no use)	Materials, with potential to become solid waste and subsequently mixed waste (in standby, possible use)	DOE assessment of storage methods	Schedule information	Integrating factors
Fluor Hanford, Inc., PFP Closure Project	MW Treatment and Storage Tanks	241Z	Heels, associated piping, line flushing and sludge cleanout. Tank D-6 deactivated in 1972 because of failure. Waste transferred from tank and tank/piping isolated.	None	DOE assessment: Completed 1st quarter CY 2001	Tri-Party Agreement milestone M-083-42, Complete Transition and Dismantlement of the 241-Z Waste Treatment Facility (due date: September 30, 2011) M-083-31 Discontinue Waste Discharges From The 241-Z Tanks To Tank Farms Via Existing Lines (due date: June 30, 2005). M-083-32 Complete Closure Of The PFP 241-Z TSD Unit (due date: September 30, 2011) Data gap plan: NA Starting negotiations: NA (completed)	Tank D-6 is not included in the 241-Z TSD Unit Closure Plan. There is a potential interface with the PFP Below Grade EE/CA.
Fluor Hanford, Inc., PFP Closure Project	PFP Settling Tanks	241-Z-361	Tank containing waste from past practices	None	DOE assessment: 1 st quarter CY 2006	To be dispositioned as CERCLA non-time critical removal action during FY 2009 to FY 2011 or as CERCLA remedial action. Data gap plan: 1 st quarter CY 2007 Starting negotiations: NA. Characterization completed ("Tank Characterization Report for 241-Z-361", FH 0107145, 12/20/01).	Transferred to Groundwater Program.

Table C-2. Potential Mixed Waste.

A	B	C	D	E	F	G	H
Company, project	Common name or description	Facility number	Solid waste, with potential for mixed waste, not integral to the building or structure (no use)	Materials, with potential to become solid waste and subsequently mixed waste (in standby, possible use)	DOE assessment of storage methods	Schedule information	Integrating factors
Fluor Hanford, Inc., PFP Closure Project	Waste Treatment Facility (inactive)	242Z	Miscellaneous process tanks, first floor and mezzanine level. Process piping. Containment gloveboxes. Potential for liquids within tanks, vessels, and piping. Residual contamination within gloveboxes, tanks, and piping (potential for mixed waste during cleanout).	None	No assessments. Facility is sealed currently because of high levels of radioactive contamination resulting from cation exchange column explosion, August 1976. DOE assessment: NA	Tri-Party Agreement milestone M-083-43, Complete Transition of the 242-Z Waste Treatment Facility and 236-Z Plutonium Reclamation Facility to Support PFP Decommissioning (due date: September 30, 2013). Data gap plan: NA Starting negotiations: NA (completed)	None.
Fluor Hanford, Inc., PFP Closure Project	SNM Storage/ Repackaging	2736Z	None	Residues and low-grade SNM solids.	DOE assessment: Completed 3 rd quarter CY 2001	Tri-Party Agreement milestone M-083-00A, Complete PFP Facility Transition and Selected Disposition Activities (due date: September 30, 2016). Data gap plan: NA Starting negotiations: NA (completed)	None
Fluor Hanford Inc. Site Services	2711-E	2711-E	Radiator from crane-suspect lead solder	None	None	To be processed for metal melt FY2005 Data gap plan: NA Starting negotiations: NA	None
Fluor Hanford Inc. Site Services	3711 Building	3711	Lead cask, pipe, pipe joints and metal railing contaminated with lead	None	None	To be processed for metal melt FY2005. Data gap plan: NA Starting negotiations: NA	None

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Table C-2. Potential Mixed Waste.

A	B	C	D	E	F	G	H
Company, project	Common name or description	Facility number	Solid waste, with potential for mixed waste, not integral to the building or structure (no use)	Materials, with potential to become solid waste and subsequently mixed waste (in standby, possible use)	DOE assessment of storage methods	Schedule information	Integrating factors
Fluor Hanford, Inc., Central Plateau Project	Rail Car Staging Area	212R Rail Spur, and PUREX Rail Cut	None	Rail car components (lead casks, liquids within the lead casks, bearings, and lubricants)	DOE assessment: 4 th quarter CY 2005	The equipment reuse/recycling program funding is no longer available. Without future funding, these materials will likely have to be disposed of as solid waste. Disposition options are being evaluated. Data gap plan: 4 th quarter CY 2006 Starting negotiations: TBD	None
Fluor Hanford, Inc., Central Plateau Project	Heavy Equipment Staging Area	4734D	None	Heavy equipment components	DOE assessment: 3 rd quarter CY 2006	The equipment is being actively managed for reuse/recycle through 2006. Data gap plan: 3 rd quarter CY 2007 Starting negotiations: TBD	None
Fluor Hanford, Inc., Central Plateau Project	200 North Area	212-N, 212-P, 212-R	212-R contains a burial box with some radiologically-contaminated equipment. The 212-N transfer bay contains 14 wooden boxes of suspected TRUM nuclear fuel fabrication equipment from the 308 Building, Room 213, moved in 1982, and a single wooden box from 308 Building, Room 212, transferred in 1983. No non-radioactive contamination has been identified in this facility that would support a MW designation. 212-P used to store PCBs. PMW will be evaluated in the upcoming assessment.	None	DOE assessment: 4 th quarter CY 2005	Data gap plan: 4 th quarter CY 2006 Starting negotiations: TBD	None

Table C-2. Potential Mixed Waste.

A	B	C	D	E	F	G	H
Company, project	Common name or description	Facility number	Solid waste, with potential for mixed waste, not integral to the building or structure (no use)	Materials, with potential to become solid waste and subsequently mixed waste (in standby, possible use)	DOE assessment of storage methods	Schedule information	Integrating factors
Fluor Hanford, Inc., Central Plateau Project	IMUSTs not associated with a building	216-BC-201, 216-BY-201, 216-TY-201, 241-B-361, 241-U-361, 241-T-361	Tank system heels in each IMUST	None	DOE assessment: 2 nd quarter CY 2006	Data gap plan: 2 nd quarter CY 2007 Starting negotiations: TBD	The IMUSTs will be dispositioned with their respective cribs. Further information regarding the remediation strategy can be found in DOE/RL-98-28, Rev. 0, 200 Areas Remedial Investigation/ Feasibility Study Implementation Plan - Environmental Restoration Program.
Fluor Hanford, Inc., Central Plateau Project	224-T (Includes TRUSAF)	224-T	D1: Potential for liquid in vessels. The presence or absence of mixed waste in the 224-T cells is not documented and the potential for waste was identified in the Silver List D2: There is a glovebox/hood in a plywood enclosure (there may be vessels in the glovebox/hood), but mixed waste is not expected to be found in these items.	None	DOE assessment: Completed 1 st quarter CY 2002	D1 and D2: Data gap plan: Completed 4 th quarter CY 2002 Starting negotiations: 2012	The potential for MW presence in the cells is a former Silver List issue that has not been closed out.

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Table C-2. Potential Mixed Waste.

A	B	C	D	E	F	G	H
Company, project	Common name or description	Facility number	Solid waste, with potential for mixed waste, not integral to the building or structure (no use)	Materials, with potential to become solid waste and subsequently mixed waste (in standby, possible use)	DOE assessment of storage methods	Schedule information	Integrating factors
Fluor Hanford, Inc., Central Plateau Project	231Z	231Z	Liquid in vessels and chemicals in gloveboxes.	None	DOE assessment: 1 st quarter CY 2006	Data gap plan: 1 st quarter CY 2007 Starting negotiations: TBD	The potential for MW to be present is a former Silver List issue that has not been closed out. Media that might designate as MW, if present, are expected to be contained in stainless steel vessels. It is assumed that the media, if present, are stable and pose no threat to human health or the environment.
Fluor Hanford, Inc., Central Plateau Project	242-B/BL	242-B/BL	None	Although no specific matrix can be identified at this time, a possibility exists that matrices could be found which would qualify as PMW.	DOE assessment: 1 st quarter CY 2007	Data gap plan: 1st quarter CY 2008 Starting negotiations: TBD	The lead bricks and shielding were removed in 2003.

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Table C-2. Potential Mixed Waste.

A	B	C	D	E	F	G	H
Company, project	Common name or description	Facility number	Solid waste, with potential for mixed waste, not integral to the building or structure (no use)	Materials, with potential to become solid waste and subsequently mixed waste (in standby, possible use)	DOE assessment of storage methods	Schedule information	Integrating factors
Fluor Hanford, Inc., Central Plateau Project	B Plant	207-BA, 211-B, 212-B, 217-B, 221-B, 221-BB, 221-BF, 221-BG, 271-B, 276-B, 291-BA, 291-B, 291-BB, 291-BD, 291-BF, 291-BG, 292-B, 2711-B, 2715-B, 270-E-1 (IMUST)	S&M Plan, DOE/RL-99-24, identifies the hazardous material remaining in the facility. Tank heels relate to TSD tank system and 270-E-1.	S&M Plan, DOE/RL-99-24, identifies the hazardous material remaining in the facility.	DOE assessment: NA	D & E: As described in the S&M Plan, DOE/RL-99-24, Rev 0. Data gap plan: NA Starting negotiations: Complete. Any additional negotiations will be completed in accordance with the Tri-Party Agreement Action Plan Section 8.6.2.	B Plant is in the S&M phase of the facility decommissioning process, as described in Chapter 8.0 of the Tri-Party Agreement. Final disposition of the IMUST and B Plant will be scheduled such that the activities are performed concurrently. See location-specific data sheets for details regarding waste stored in Cell 4 and in the containment building.
Fluor Hanford, Inc., Central Plateau Project	224-B Building	224-B	Chemicals associated with operations at the 224-B Building may exist as residual deposition in tanks. Potential mixed waste remains in the 224-B process cells.	None	DOE assessment: 4 th quarter CY 2006	Data gap plan: 4 th quarter CY 2007 Starting negotiations: TBD	Facility decommissioning is being planned.

Table C-2. Potential Mixed Waste.

A	B	C	D	E	F	G	H
Company, project	Common name or description	Facility number	Solid waste, with potential for mixed waste, not integral to the building or structure (no use)	Materials, with potential to become solid waste and subsequently mixed waste (in standby, possible use)	DOE assessment of storage methods	Schedule information	Integrating factors
Fluor Hanford, Inc., Central Plateau Project	PUREX	202-A, 203-A, 204-A, 206-A, 211-A, 212-A, 213-A, 214-A/B/C/D, 215-A, 216-A, 225-EC, 271-AB, 276-A, 281-A, 291-A, 291-AB/AC/AD/AE/AG/AH/AJ/AK., 291-A-1, 292-AA/AB, 293-A, A93-AA, 294-A, 295-A, 295-AA/AB/AC/AD/AE, 296-A-1, 296-A-2, 296-A-3, 296-A-5A/5B, 296-A-6/7/8/9/10/14/24, 2711-A-1, 2712-A, 2714-A/U, 217-A, 252-AC/AB, 216-A-5 (IMUST)	S&M Plan, DOE/RL-98-35, identifies the hazardous material remaining in the facility. Tank heels relate to TSD tank system and 216-A-5.	S&M Plan, DOE/RL-98-35, identifies the hazardous material remaining in the facility.	DOE assessment: NA	Data gap plan: NA Starting negotiations: Complete. Any additional negotiations will be completed in accordance with the Tri-Party Agreement Action Plan Section 8.6.2.	PUREX is in the S&M phase of the facility decommissioning process described in Chapter 8.0 of the Tri-Party Agreement. Final disposition of the IMUST at PUREX will be scheduled such that the activities are performed concurrently. See the location-specific data sheet for TSD waste storage at PUREX.
Fluor Hanford, Inc., Central Plateau Project	REDOX	202-S, 291-S, 292-S, 293-S, 2718-S, 211-S, 2711-S, 2715-S, 2904-SA, 2710-S, 2706-S,	S&M Plan, DOE/RL-98-19, identifies the hazardous material remaining in the facility.	S&M Plan, DOE/RL-98-19, identifies the hazardous material remaining in the facility.	DOE assessment: NA	Data gap plan: NA Starting negotiations: Complete. Any additional negotiations will be completed in accordance with the Tri-Party Agreement Action Plan Section 8.6.2.	REDOX is in the S&M phase of the facility decommissioning process described in Chapter 8.0 of the Tri-Party Agreement.

Table C-2. Potential Mixed Waste.

A	B	C	D	E	F	G	H
Company, project	Common name or description	Facility number	Solid waste, with potential for mixed waste, not integral to the building or structure (no use)	Materials, with potential to become solid waste and subsequently mixed waste (in standby, possible use)	DOE assessment of storage methods	Schedule information	Integrating factors
Fluor Hanford, Inc., Central Plateau Project	U Plant	221-U, 276-U, 211-UA, 291-U, 292-U, 241-WR-001, 241-WR-002, 241-WR-003, 241-WR-004, 241-WR-005, 241-WR-006, 241-WR-007, 241-WR-008, 241-WR-009, 2716-U, 2714-U	S&M Plan, DOE/RL-98-20, identifies the hazardous material remaining in the facility.	S&M Plan, DOE/RL-98-20, identifies the hazardous material remaining in the facility.	DOE assessment: NA	Data gap plan: NA Starting negotiations: Complete. Any additional negotiations will be completed in accordance with the Tri-Party Agreement Action Plan Section 8.6.2.	The final disposition of 221-U, 276-U, and 291-U is being evaluated under CERCLA as a part of the Canyon Disposition Initiative. 211-UA, 2716-U, and 2714-U are being dispositioned under a CERCLA action memorandum calling for demolition of the facilities. Final disposition of all of the U Plant structures will be coordinated as parts of the overall U Plant Area closure.

Table C-2. Potential Mixed Waste.

A	B	C	D	E	F	G	H
Company, project	Common name or description	Facility number	Solid waste, with potential for mixed waste, not integral to the building or structure (no use)	Materials, with potential to become solid waste and subsequently mixed waste (in standby, possible use)	DOE assessment of storage methods	Schedule information	Integrating factors
Fluor Hanford, Inc., Central Plateau Project	UO3 Facility	224-U, 272-U, 2715-UA, 203-U, 203-UX, 211-U, 207-U, 270-W (IMUST)	S&M Plan, DOE/RL-98-22, identifies the hazardous material remaining in the facility.	S&M Plan, DOE/RL-98-22, identifies the hazardous material remaining in the facility.	DOE assessment: NA	Data gap plan: NA Starting negotiations: Complete. Any additional negotiations will be completed in accordance with the Tri-Party Agreement Action Plan Section 8.6.2.	The 224-U, 272-U, 2715-UA, 203-U, 203-UX, and 211-U are being dispositioned under a CERCLA action memorandum calling for demolition of the facilities. 207-U is part of the 200-CW-5 CERCLA Operable Unit, and 270-U is part of the 200-PW-2 CERCLA Operable Unit. Final disposition of all parts of the UO3 Facility will be coordinated as parts of the overall U Plant Area closure.
Fluor Hanford, Inc., Central Plateau Project	327 Building	327	None	Lead bricks being stored for future use as shielding during decontamination and decommissioning activities	DOE assessment: Completed December 2002	Lead bricks are being stored for future use in decontamination and decommissioning activities. Data gap plan: Included in the assessment report. Starting negotiations: NA	To be removed to meet M-094-03 demolition date.

Table C-2. Potential Mixed Waste.

A	B	C	D	E	F	G	H
Company, project	Common name or description	Facility number	Solid waste, with potential for mixed waste, not integral to the building or structure (no use)	Materials, with potential to become solid waste and subsequently mixed waste (in standby, possible use)	DOE assessment of storage methods	Schedule information	Integrating factors
Fluor Hanford, Inc., Waste Management Project	T Plant Canyon, RR Tunnel, Head-end	221-T	Process cells containing an inventory of PMW include inaccessible cells, process cells proposed to be cleaned, and process cells with potentially no proposed future uses. In accessible cells include: 20R, 20L, and 16L. Proposed cells to be cleaned (subject to change) include: 19R, 18R, 10R, and 7R. Cells with potentially no proposed future uses include (subject to change) include: 19L, 18L, 17L, 14L, 12R, 12L, 9R, 8L, 6R, 4R, 4L, and 3R. Examples of inventory are jumpers, tanks, pumps, pump racks, centrifuges, fuel racks, fuel canisters, and agitators.	Items having the potential for reuse include cover blocks, lead shielding (including portable lead walls), hand tools and tool boxes, metal ramp, chokers and slings, hoists, railroad ties, portable fences, cutters (e.g., jaws), portable pumps and hoses, impact wrenches, spill pallets, HEPA vacuums, HEPA filter and duct work, torch cart and welding cart, work bench, portable exhauster, aqueous make-up tanks, drum crusher, plasma arc cutter.	DOE assessment: 3 rd quarter CY 2005	Cells with no proposed future use will be addressed when final decommissioning of the canyon takes place. Data gap plan: 3 rd quarter CY 2006 Starting negotiations: Completed. These activities have been discussed with Ecology during the T Plant Complex Dangerous Waste Permit Application Part A and Part B negotiations.	T Plant is scheduled to receive first the large diameter containers of K-Basin north load out pit sludge in January 2005.
Fluor Hanford, Inc., Waste Management Project	T Plant Canyon, Cell 11-L	221-T	Tank in Cell 11-L. The cell 11-L tank contains approximately 500 gallons of a green liquid and saltcake mixture that will be designated as F001-F005, D002, D006, D007, D008, and D010 when removed from the tank.	None	DOE assessment: 3 rd quarter CY 2005	Cell 11-L will be dispositioned along with the other RCRA-past practice process cells in the T Plant canyon. Data gap plan: 3 rd quarter CY 2006 Starting negotiations: Completed. These activities have been discussed with Ecology during the T Plant Complex Dangerous Waste Permit Application Part A and Part B negotiations.	Any commitment date will be dependent on the outcome of the Canyon Disposition Initiative.

Table C-2. Potential Mixed Waste.

A	B	C	D	E	F	G	H
Company, project	Common name or description	Facility number	Solid waste, with potential for mixed waste, not integral to the building or structure (no use)	Materials, with potential to become solid waste and subsequently mixed waste (in standby, possible use)	DOE assessment of storage methods	Schedule information	Integrating factors
Fluor Hanford, Inc., Waste Management Project	T Plant Complex IMUSTs	292-TK-1 and 292-TK-2	292-TK-1 and 292-TK-2 consist of two stainless steel 55-gallon drums encased in concrete. These units contained a mixture of irradiated fuel and nitric acid. The solutions in the tanks were then neutralized with molar equivalents of sodium hydroxide.	None	DOE assessment: 3 rd quarter CY 2005	This WIDS site will be addressed as part of the CERCLA remediation activity. Data gap plan: 3 rd quarter CY 2006 Starting negotiations: TBD	Tanks are part of CERCLA remediation process, scheduled for completion of RI/FS process by Dec. 2008. Prioritization discussions have taken place (4/23/01).
Fluor Hanford, Inc., Waste Management Project	Waste Neutralization Facility (340-Vault Tanks)	340	340 Vault tank heels and clean out residues and associated equipment (valves, piping, pumps, light fixtures) may designate as MW.	None.	DOE assessment: Completed 4 th quarter CY2004	Potential MW disposition will be performed in accordance with Tri-Party Agreement milestone M-094-00, Complete Disposition of 300 Area Surplus Facilities (due 9/30/2018). Data gap plan: Completed 4 th quarter CY 2004. Starting negotiations: Completed as part of the River Corridor negotiations	The schedule information in Column G is subject to change in accordance with Section 12.0, <i>Changes to the Agreement</i> , of the Tri-Party Agreement Action Plan.
Battelle Memorial Institute, Pacific Northwest National	Radiochemical Processing Laboratory	325	Tank system formerly used for product materials subsequently used as feedstock for research projects. Tanks have been drained and flushed, but remain in place.	Hot cells, hoods, and gloveboxes used for radioactive materials and waste analysis and research (reused as needed for new or expanded research activities)	DOE assessment: Completed 4 th quarter CY 2001	Data gap plan: Completed 4 th quarter CY 2002 Starting negotiations: NA (no data gaps identified)	Part of an active facility; no special hazards known.
CH2M HILL, Hanford Group, Inc., Tank Farms	702-A Ventilation Building	241-A-702	Seal pot that received liquids from the HEPA pre-heater.	None	DOE Assessment: Completed 4 th Quarter 2004	Data gap plan: 4 th quarter CY 2005 Starting negotiations: TBD	None

Table C-2. Potential Mixed Waste.

A	B	C	D	E	F	G	H
Company, project	Common name or description	Facility number	Solid waste, with potential for mixed waste, not integral to the building or structure (no use)	Materials, with potential to become solid waste and subsequently mixed waste (in standby, possible use)	DOE assessment of storage methods	Schedule information	Integrating factors
CH2M HILL, Hanford Group, Inc., Tank Farms	Double-Shell Tank Farms	241-AN, AW, AP, AY, AZ, SY	Contaminated unusable equipment, e.g., ductwork, exhausters, piping, etc.	None	DOE Assessments: Continuing	Data gap plan: The equipment will be handled in accordance with the management procedure. Starting negotiations: NA. Equipment will be taken care of on a continuous basis.	None
CH2M HILL, Hanford Group, Inc., Tank Farms	Single-Shell Tank Farms	241-A, AX, B, BX, BY, C, T, TX, TY, S, SX, U, 244-AR, 244-CR	Contaminated unusable equipment, e.g., ductwork, exhausters, piping, ion exchange columns, etc.	None	DOE Assessments: Continuing	Data gap plan: The equipment will be handled per the management procedure. Starting negotiations: NA. Equipment will be taken care of on a continuous basis.	None
CH2M HILL, Hanford Group, Inc., Tank Farms	Evaporators	242-S, T	Liquids/solids in process tanks and piping, debris	None	DOE Assessment: For ALARA purposes, this is tied to the next planned entry at 242-T, now scheduled for 4 th quarter FY 2005.	242-T and 242-S Evaporators are both forecast to be excessed and will go through the LCAM process. Data gap plan: 4 th quarter CY 2006. Starting negotiations: FY 2006.	None

Table C-2. Potential Mixed Waste.

A	B	C	D	E	F	G	H
Company, project	Common name or description	Facility number	Solid waste, with potential for mixed waste, not integral to the building or structure (no use)	Materials, with potential to become solid waste and subsequently mixed waste (in standby, possible use)	DOE assessment of storage methods	Schedule information	Integrating factors
Bechtel Hanford, Inc., Environmental Restoration	100-B Reactor Facilities	105-B	Miscellaneous contaminated material remains in the facility.	None	DOE assessment: Completed 6/15/04. Assessment excludes reactor.	Data gap plan: Completed 6/15/04 Starting negotiations: Approval of Tri-Party Agreement Change Request M-093-01-02 completed Tri-Party Agreement Milestone M-093-14, Initiate Negotiations for the Remaining Surplus Reactor Disposition Schedules.	The reactor is a key facility under Section 8.0 of the Tri-Party Agreement.
Bechtel Hanford, Inc., Environmental Restoration	100-KE and KW Reactor Facilities	115-KE, 115-KW	Miscellaneous contaminated material in the facility is being managed as part of surveillance and maintenance activities	None	DOE assessment: Completed 6/15/04. Assessment excludes reactor.	Waste will be generated as part of the ISS activities. Data gap plan: Completed 6/15/04 Starting negotiations: Completed as a part of River Corridor negotiations. Tri-Party Agreement Milestone M-093-22, Complete 105-KE and 105-KW Reactor Interim Safe Storage, is due 09/30/2011.	The reactor is a key facility under Section 8.0 of the Tri-Party Agreement. Tri-Party Agreement Milestones M-93-21-T01 and M-93-22-T01 address ISS of 105-KW and 105-KE respectively.

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Table C-2. Potential Mixed Waste.

A	B	C	D	E	F	G	H
Company, project	Common name or description	Facility number	Solid waste, with potential for mixed waste, not integral to the building or structure (no use)	Materials, with potential to become solid waste and subsequently mixed waste (in standby, possible use)	DOE assessment of storage methods	Schedule information	Integrating factors
Bechtel Hanford, Inc., Environmental Restoration	333 Building	333	Miscellaneous equipment, piping, and ductwork	Miscellaneous equipment, piping, and ductwork. Materials will be evaluated in the future.	DOE assessment: Initiated 1 st quarter CY 2003, and completed September 2003.	Potential MW disposition will be performed in accordance with Tri-Party Agreement milestone M-094-03 (due 9/30/2010). Data gap plan: Completed September 2003 Starting negotiations: Completed during River Corridor negotiations.	The schedule information in Column G is subject to change in accordance with Section 12.0, <i>Changes to the Agreement</i> , of the Tri-Party Agreement Action Plan.

Table C-3. Historical List of Materials Deleted from Potential Mixed Waste Table.

Common Name or Description	Facility Number	Last Calendar Year Reported in Table C-2	"Stuff"/Material Deleted	Reason for Deletion
PFM Facilities	232-Z, 236-Z, and portions of 234-5Z.	2003	Incinerator and leaching gloveboxes. Inactive process tanks, piping, and control equipment. Reclamation tanks, piping, and control equipment. Miscellaneous tools.	Materials have been dispositioned, did not meet the definition of PMW, or are forecasted to be generated as MW.
340 Facility Complex	340-A, 340-B, and 300 RLWS	2003	Tanks, process piping, ancillary equipment and related equipment.	Facilities did not contain MW or PMW
100 Areas Facilities	Many	2003	Miscellaneous contaminated material	Facilities did not contain MW or PMW
100-N Lead Storage Area	1714-N	2002	Lead sheeting and bricks, lead lined containers, and a lead lined survey booth	Matrix is now included in the Location-Specific Data Sheet for CERCLA lead under the ERDF – Treatment treatability group
242-A Evaporator	242-A	2002	Ion exchange column(s)	The ion exchange column(s) were disposed onsite.
314	314	2002	Large equipment previously used in the facility	LDR assessment concluded facility contained no MW or PMW.
3708	3708	2002	Solid obsolete laboratory equipment	LDR assessment concluded facility contained no MW or PMW.
Heavy Equipment Staging Area	2711E	2001	Miscellaneous equipment	No material left at this location, as it was shipped offsite for reuse.
Rad. Storage Area	3711	2001	Lead bricks	Shipped 9/26/01 to Duratek Inc. in Memphis, TN for decontamination/lead casting
Waste Storage Building	2724WB	2001	Radiators (from motor vehicles)	Shipped 9/26/01 to Duratek, Inc in Memphis, TN for decontamination/metal melt
Plutonium Finishing Plant	234-5Z	2001	E1: Laboratory Reagents E2: Archive Laboratory Samples E3: PR cans that have lead liners. E4: Low-grade SNM solutions not run through the precipitation process, but with potential to become solid waste (e.g. the direct discard process).	E1: These chemicals are in use within the laboratory. E2: Samples are archived in accordance with sample exclusion. E3 and E4: Material is now included on location-specific data sheets. Note: Only the contents noted were removed from Table C-2. Table C-2 still contains other potential waste in this location.
MW Treatment and Storage Tanks	241-Z	2001	Tank D-9, Treatment chemicals	Tank D9 is in use to mix treatment chemicals. Treatment chemicals are in use in transferring waste from the Plutonium Finishing Plant to Double Shell Tanks. Note: Only the contents noted were removed from Table C-2. Table C-2 still contains other potential waste in this location.
Waste Handling Facility	219-S	2001	Tank 103 and heel content	Combined with existing location-specific data sheet for the 219-S WHF.
300-RRLWS	RRLWS	2001	Retired radioactive liquid waste sewer piping and ancillary structures might designate as MW.	Below-ground structure: Does not meet reporting criteria for Potential Mixed Waste Table.

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Table C-3. Historical List of Materials Deleted from Potential Mixed Waste Table.

Common Name or Description	Facility Number	Last Calendar Year Reported in Table C-2	"Stuff"/Material Deleted	Reason for Deletion
2706-T Conex Box	Conex box CC2W0136 and CC2W137	2001	Various decontamination equipment, spill pallets, shipping coolers, carts, hoses, storage cabinets, and sampling equipment.	These conex boxes were opened and the contents visually verified and photographs taken. The photographs clearly demonstrate that the equipment is readily accessible. The equipment will be used in the future as part of the 2706-T Complex operations (e.g., decontamination, sampling, etc.). The photographs are maintained in the T Plant Complex operating record.
224-T (Includes TRUSAF)	224-T	2001	Liquid in the sumps and the deep cell. Two cardboard boxes in the cells.	Determined to not have a hazardous component, and therefore not a mixed waste. Note: Only the contents noted were removed from Table C-2. Table C-2 still contains other potential waste in this location.
C855 (CAT) Substation	252U	2001	Transformer	The transformer has been designated and found not to have a dangerous component. Therefore, it is not mixed waste.
324	324	2001	Shielded glovebox. Potential mixed waste residue. Former Silver List Item 11.8	Glovebox was included in the 4th quarter CY 2002 LDR storage assessment and determined to contain only floor sweeps.
200 ETF	2025E	2001	Thin film dryer rotor	Rotor was rebuilt for reuse at the 200 ETF.
100 K Basins	105-KW	2001	Lead bricks, sheets	The lead has been declared CERCLA waste. A location-specific data sheet was created.
Environmental Sciences Laboratory	3720	2001	Laboratory equipment, hoods and gloveboxes used for radioactive materials and waste analysis and research (reused as needed for new or expanded research activities)	Onsite inspection revealed that contaminated equipment is in use. Hoods and gloveboxes listed are part of the structure of the building.
100 C Reactor Facility	105-C, 118-C-4	2001	Reactor core, and equipment remaining in the facility.	Reactor core is part of the structure of the building. Mixed waste is removed during the reactor interim safe storage.
100 D/DR Reactor Facility	105-D, 105-DR, 117-DR, 190-DR	2001	Reactor core, and equipment remaining in the facility.	Reactor core is part of the structure of the building. Mixed waste is removed during the reactor interim safe storage. Waste forecasts are included in the 5-year projections on the location-specific data sheets.
100 F Reactor Facility	105-F	2001	Reactor core, and equipment remaining in the facility.	Reactor core is part of the structure of the building. Mixed waste is removed during the reactor interim safe storage. Waste forecasts are included in the 5-year projections on the location-specific data sheets.
100 H Reactor Facility	105-H, 1720-HA, 1713-H	2001	Reactor core, and equipment remaining in the facility.	Reactor core is part of the structure of the building. Mixed waste is removed during the reactor interim safe storage. Waste forecasts are included in the 5-year projections on the location-specific data sheets.

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Table C-3. Historical List of Materials Deleted from Potential Mixed Waste Table.

Common Name or Description	Facility Number	Last Calendar Year Reported in Table C-2	"Stuff"/Material Deleted	Reason for Deletion
100-N Reactor Facilities	See Table 1, S&M Plan for the 100-N Deactivated Facilities, DOE/RL-98-64, Rev. 0	2001	Some remaining hazardous materials consisting of activated materials and fission products contained within the reactor block. (Further details are provided in DOE/RL-98-64, Rev. 0, S&M Plan for the 100-N Area Deactivated Facilities)	Reactor core is part of the structure of the building. Mixed waste was removed during the reactor decommissioning.
REDOX	276-S-141/142	2001	Tanks and heel content	A treatability group was developed to account for the 276-S-141/142 tanks. (See Appendix B).
Semi Works	241-CX-70, 241-CX-71, 241-CX-72, 276-C	2001	Tanks and heel content	A treatability group was developed to account for the 241-CX tanks. (See Appendix B).