

AR TARGET SHEET

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

DOCUMENT #: DOE/RL 2001-20

TITLE: CY 2000 Hanford Site Mixed
Waste Land Disposal Restrictions
Report (Volumes 1-2/2)

EDMC#: 0055267

SECTION: 3 of 4

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET**2.1.2 Timeframe when waste was placed into storage:**

1995 through 2000

2.2 Inventory locations:

Building/room number	Number of containers/tanks
T PLANT	6

2.3 Current inventory for this stream (stored waste only, not accumulation areas)Total volume (cubic meters): 4.25Date of inventory values: 12/31/2000Comments on waste inventory: Inventory will fluctuate as T Plant Complex generates, or performs waste treatment/verification of onsite/offsite generators.**2.4 Is storage capacity at this location potentially an issue for this waste stream?** Yes NoIf yes, what is the total estimated storage capacity? N/AWhen is this capacity expected to be reached? N/A

Bases and assumptions used: N/A

2.5 Planned management areas for storage of this waste: Current location CWC DST Other area(s) list: N/A None**2.6 Estimated generation projection by calendar year:**

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

2.7 DOE Storage Compliance Assessment information: Assessment has been completed. Reference to most recent assessment: Oct. 2000, A&E-00-ASS-07 Assessment has been scheduled. Scheduled date: Assessment currently scheduled for July 200 Other. Explain: N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

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

M-91

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

Sampling and characterization might be required to support the M-91 mission.

If yes, provide Tri-Party Agreement milestone number(s): 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: See Section 3.3 for discussion on waste min.

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 NA: 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, etc.):

Waste minimization techniques are used, where possible, during generation and treatment processing. This waste stream is part of the M-91 activities.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year (volume or mass): 0 m3

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET**3.3.2 Projected future waste volume reductions:**

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

The T Plant Complex has submitted a P2/Wmin fiscal year 2001 goal to reduce, where possible, mixed waste generation. For FY 2002 to 2005, 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. This information is available on the following URL: <http://apsql05.rl.gov/polprev/default.asp>

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET**1.0 WASTE STREAM IDENTIFICATION AND SOURCE**

- 1.1 Plant/unit name:** Tank Farm Facilities/RH Mixed Waste **Waste stream** M-91 MLLW
 Treatability/aggregated group identifier MLLW-07
 Treatability/aggregated group name: M-91 MLLW

- 1.2 Applicable profile number(s) for this waste stream:**
 606, 800, 801

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 includes equipments removed from Double Shell Tank (DST) and Single Shell Tank (SST) system, which can include jumpers, pumps, instrument trees, slucers and water or air lances.

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

Equipment has been removed from tanks in the SST and/or DST systems.

1.3.3 Source of the hazardous constituents

Equipments removed from the tank system have contacted tank waste, and contain residues of waste.

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

Process knowledge and analytical data. Document "Tank Farm Solid Waste Characterization Guide with Sampling and Analysis Attachment", HNF-SD-WM-PLN-119, Rev. 01 describes the basis for historical and process knowledge; and sampling for designation.

1.3.5 Additional notes:

None

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION**2.1 Current storage method**

- Container (pad) Container (covered) Container (retrievably buried)
 Tank DST SST
 Other (explain): There is no waste currently generated from this waste stream.

2.1.1 How was the waste managed prior to storage?

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

N/A

2.1.2 Timeframe when waste was placed into storage:

N/A

2.2 Inventory locations:

Building/room number	Number of containers/tanks
N/A	0

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): _____ 0

Date of inventory values: _____ 12/31/00

Comments on waste inventory: No waste is currently in storage.

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:

2.5 Planned management areas for storage of this waste: Current location CWC DST Other area(s) list: None**2.6 Estimated generation projection by calendar year:**

Year	m3	and/or	kg
2001	25.000		
2002	148.000		
2003	335.000		
2004	302.000		
2005	276.000		
Totals	1,086.000		

2.7 DOE Storage Compliance Assessment information: Assessment has been completed. Reference to most recent assessment: Assessment has been scheduled. Scheduled date: Other. Explain: Not scheduled at this time.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

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

Unknown

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

If yes, provide Tri-Party Agreement milestone number(s):

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 NA:

Waste
minimization
assessment
will be
completed du

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, etc.):

Segregation between LLW and Mixed waste.

3.3 Waste minimization schedule

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

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET**3.3.2 Projected future waste volume reductions:**

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

No volume reduction is expected

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LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

- 1.1 Treatability group/aggregated stream identifier:** MLLW-09
Treatability group/aggregated stream name: Lead acid and cadmium batteries
- 1.2 Description of waste (list WSRd numbers for this waste stream, as applicable):**
 BAT, 802, 830. This waste consists of lead-acid and cadmium batteries from various onsite locations and from offsite generators.

2.0 WASTE STREAM INVENTORY AND GENERATION

- 2.1 Current total inventory for this stream (stored waste only, not accumulation areas)**

Total volume (cubic meters): 6.110

- 2.2 Estimated generation projection by calendar year**

Year	m3	and/or	kg
2001	0.010		
2002	0.010		
2003	0.210		
2004	3.610		
2005	0.210		
Totals	4.050		

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 currently packaged/stored) Contact-handled Remote-handled

3.1.3 Comments on radiological characteristics (e.g., more specific 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 Matrix characteristics (physical content)**

3.2.1 Matrix constituent table (each constituent listed should constitute at least 1% of the total volume or mass)

Matrix Parameter Category Code	Matrix Constituent Description	Typical or Range (%)
X7420	CADMIUM BATTERIES	100
X7410	LEAD ACID BATTERIES	100

LDR REPORT TREATABILITY GROUP DATA SHEET**3.2.2 Confidence level for matrix characteristic data in Section 3.2.1:**

Low Medium High

3.2.3 Comments on matrix characteristics and/or confidence level:

A typical container will have either lead-acid or cadmium batteries, but not both.

3.3 Regulated contaminated characteristics**3.3.1 Wastewater/non-wastewater under RCRA**

Wastewater Non-wastewater Unknown

3.3.2 Regulated contaminant 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
D006	Cadmium	Cadmium Containing Batteries	NA	Process Knowledge	RTHRM
D008	Lead	Lead Acid Batteries	NA	Process Knowledge	RLEAD

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

**If the waste is not consistent in concentration or the concentration is unknown, this may not apply. Describe in Section 3.3.6.

3.3.3 List any waste numbers from Section 3.3.2 for which the 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

LDR REPORT TREATABILITY GROUP DATA SHEET**3.3.4.2 Indicate the PCB concentration range (ppm)**

<50 ≥ 50 Unknown

3.3.5 What is the confidence level for the regulated contaminant characteristic data?

Low Medium High

3.3.6 Comments on regulated contaminant characteristics and/or confidence level:

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

4.0 WASTE STREAM TREATMENT**4.1 Is this stream currently being treated?** Yes No

If yes, provide details: NA

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 off site
 Treating or plan to treat on 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.

4.4 Treatment schedule information:

There are no treatment campaigns planned for this waste stream until after 2005, to allow the stored volume to accumulate for performance of more cost-effective treatment.

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

None.

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:

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment:

None. However, at a national level, DOE is pursuing avenues to address the treatment standards for radioactively contaminated lead-acid batteries.

4.9 Key assumptions: None.

LDR REPORT TREATABILITY GROUP DATA SHEET

5.0 WASTE STREAM DISPOSAL

After treatment, how will the waste stream be disposed of (include description, 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 Plant/unit name: 324/324, Batteries, Pb & Cd **Waste stream** Batteries
Treatability/aggregated group identifier MLLW-09
Treatability/aggregated group name: Lead acid and cadmium batterie

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

NA

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 hazardous constituents

Batteries

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

Process knowledge

1.3.5 Additional notes:

NA

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

2.1 Current storage method

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

2.1.1 How was the waste managed prior to storage?

Waste is being managed in SAA. Waste volume projection is provided in Section 2.6

2.1.2 Timeframe when waste was placed into storage:

NA

2.2 Inventory locations:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Building/room number	Number of containers/tanks
NA	

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): _____

Date of inventory values: _____ 12/31/2000

Comments on waste inventory: _____ NA

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? _____ NA

When is this capacity expected to be reached? _____ NA

Bases and assumptions used: SAA waste

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list: NA

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.200		
2004	0.000		
2005	0.200		
Totals	0.400		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed. Reference to most recent assessment:

Assessment has been scheduled. Scheduled date:

June 2002

Other. Explain: NA

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

NA

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

Yes No

If yes, summarize releases and quantities and provide date:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

NA

2.10 Are there any plans to submit requests for variances or other exemptions related to storage? Yes No

If yes, explain: NA

2.11 Is further characterization necessary? Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

NA

If yes, provide Tri-Party Agreement milestone number(s): NA

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

NA

3.0 WASTE MINIMIZATION**3.1 Has a waste minimization assessment been completed for this stream?** Yes No

If yes, provide date assessment conducted: NA

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 NA: 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, etc.):

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

3.3 Waste minimization schedule**3.3.1 Reduction achieved during calendar year (volume or mass):**

0

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.3.3 Bases and assumptions used in above estimates:

NA

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Plant/unit name: 327/327, Batteries, Pb & Cd **Waste stream** Batteries
Treatability/aggregated group identifier MLLW-09
Treatability/aggregated group name: Lead acid and cadmium batterie

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

NA

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 in emergency lights and other equipments that need periodic replacement.

1.3.3 Source of the hazardous constituents

Lead acid and cadmium

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

Process knowledge

1.3.5 Additional notes:

NA

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

2.1 Current storage method

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

2.1.1 How was the waste managed prior to storage?

Waste is being managed in SAA. Waste volume projection is provided in Section 2.6

2.1.2 Timeframe when waste was placed into storage:

NA

2.2 Inventory locations:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Building/room number	Number of containers/tanks
NA	

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): _____

Date of inventory values: _____ 12/31/2000

Comments on waste inventory: NA

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? _____ NA

When is this capacity expected to be reached? _____ NA

Bases and assumptions used: Waste is being accumulated in SAA

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list: NA

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	3.600		
2005	0.000		
Totals	3.600		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed. Reference to most recent assessment:

Assessment has been scheduled. Scheduled date:

May 2002

Other. Explain: NA

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

NA

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

Yes No

If yes, summarize releases and quantities and provide date:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

NA

2.10 Are there any plans to submit requests for variances or other exemptions related to storage? Yes No

If yes, explain: NA

2.11 Is further characterization necessary? Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

NA

If yes, provide Tri-Party Agreement milestone number(s): NA

2.12 Other key assumptions related to storage, inventory, and generation information:**3.0 WASTE MINIMIZATION****3.1 Has a waste minimization assessment been completed for this stream?** Yes No

If yes, provide date assessment conducted:

NA

If yes, provide document number or other identification:

NA

If no, provide date assessment will be completed, or if waste stream is no longer generated then indicate NA: 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, etc.):

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

3.3 Waste minimization schedule**3.3.1 Reduction achieved during calendar year (volume or mass):**

0

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001		0.000	
2002		0.000	
2003		0.000	
2004		0.000	
2005		0.000	
Totals		0.000	

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.3.3 Bases and assumptions used in above estimates:

NA

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

- 1.1 Plant/unit name:** CWC/CWC, Batteries, Pb & Cd **Waste stream** Lead acid and cadmium batteries
- Treatability/aggregated group identifier MLLW-09
- Treatability/aggregated group name: Lead acid and cadmium batterie

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

NA

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 by offsite generators.

1.3.3 Source of the hazardous constituents

See 1.3.1 and 1.3.2

1.3.4 Source of 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

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 into storage:

Waste storage at CWC began in 1987 and it has continued since then.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Inventory locations:

Building/room number	Number of containers/tanks
CWC	Approx. 23

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 5.91

Date of inventory values: 01/05/2001

Comments on waste inventory: Inventory based on data for containers residing at the CWC as reported in the Solid Waste Information Tracking System (SWITS) for WSRd numbers BAT and 802.

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? NA

When is this capacity expected to be reached? NA

Bases and assumptions used: No issues with CWC storage based on 20 year waste generation forecast.

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed. Reference to most recent assessment:

NA

Assessment has been scheduled. Scheduled date:

September 2001

Other. Explain:

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

None

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

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

Yes No

If yes, summarize releases and quantities and provide date:

NA

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

Yes No

If yes, explain: NA

2.11 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

If necessary to provide further characterization, waste will be re-characterized just prior to treatment for most efficient use of resources to meet current disposal requirements. The time frame for assessment of further characterization needs for this waste stream have not yet been determined.

If yes, provide Tri-Party Agreement milestone number(s):None

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

Inventory based on data for containers residing at the CWC as reported in the Solid Waste Information Tracking System (SWITS).

3.0 WASTE MINIMIZATION

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

Yes No

If yes, provide date assessment conducted: NA

If yes, provide document number or other identification: NA

If no, provide date assessment will be completed, or if waste stream is no longer generated then indicate NA: 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, etc.):

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

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET**3.3 Waste minimization schedule****3.3.1 Reduction achieved during calendar year (volume or mass):** 0**3.3.2 Projected future waste volume reductions:**

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

There is no projected waste generation by CWC.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

- 1.1 Plant/unit name:** T Plant Complex/Batteries, Pb & Cd **Waste stream** Storage-Lead acid and cadmium batteries
- Treatability/aggregated group identifier MLLW-09
- Treatability/aggregated group name: Lead acid and cadmium batterie

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

802-02

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 batteries

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

Generated at T Plant during routine maintenance and treatment activities and from other onsite and offsite generators

1.3.3 Source of the hazardous constituents

See 1.3.1 and 1.3.2

1.3.4 Source of 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

2.1 Current storage method

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

Tank DST SST

Other (explain): T Plant Complex has a combination of covered and uncovered storage areas to support various waste management operations/activities. Depending upon the type of waste being managed the waste can be stored in covered or uncovered storage locations. As an example: If the waste is bulk liquid, this waste might be stored in a storage building equipped with HVAC to prevent freezing.

2.1.1 How was the waste managed prior to storage?

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Generated as part of routine maintenance and treatment activities and from other onsite and offsite generators

2.1.2 Timeframe when waste was placed into storage:

1995 to present.

2.2 Inventory locations:

Building/room number	Number of containers/tanks
T PLANT COMPLEX	1

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 0.2

Date of inventory values: 12/31/2000

Comments on waste inventory: Inventory will fluctuate as T Plant Complex generates waste or performs treatment/verification of onsite/offsite generated 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: N/A

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list: N/A

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	0.010		
2002	0.010		
2003	0.010		
2004	0.010		
2005	0.010		
Totals	0.050		

2.7 DOE Storage Compliance Assessment information:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

- Assessment has been completed. Reference to most recent assessment: Oct. 2000, A&E-00-ASS-07
- Assessment has been scheduled. Scheduled date: Assessment currently scheduled for July 200
- Other. Explain: N/A

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

N/A

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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: Request for alternative treatment method per 40 CFR 268.42(b) will be sought.

2.11 Is further characterization necessary?

- Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

N/A

If yes, provide Tri-Party Agreement milestone number(s): N/A

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

Projection volumes for this waste stream are expected to fluctuate as canyon cleanout continues, operations, maintenance, and repackaging of other generators waste. The generation rates will be updated as necessary.

3.0 WASTE MINIMIZATION

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

- Yes No

If yes, provide date assessment conducted: See Section 3.3.3 for
discussion on waste
min.

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 NA: See Section

3.3 for
discussion on

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

waste min.

- 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, etc.):**

Waste minimization techniques are used in maintenance planning processes and during treatment activities to the extent practical.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year (volume or mass): 0 m3

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

The T Plant Complex has submitted a P2/Wmin fiscal year 2001 goal to reduce, where possible, mixed waste generation. For FY 2002 to 2005, 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. This information is available on the following URL: <http://apsql05.rl.gov/polprev/default.asp>

LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

- 1.1 **Treatability group/aggregated stream identifier:** MLLW-10
Treatability group/aggregated stream name: Reactive metals
- 1.2 **Description of waste (list WSRd numbers for this waste stream, as applicable):**
 ENA, 820, 822. This waste consists of water-reactive metals and compounds, typically including sodium metal. May also consist of water-reactive cyanides.

2.0 WASTE STREAM INVENTORY AND GENERATION

- 2.1 **Current total inventory for this stream (stored waste only, not accumulation areas)**

Total volume (cubic meters): 1.028

- 2.2 **Estimated generation projection by calendar year**

Year	m3	and/or	kg
2001	0.581		1.000
2002	0.301		1.000
2003	0.301		1.000
2004	0.301		1.000
2005	0.301		1.000
Totals	1.785		5.000

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 currently packaged/stored)** Contact-handled Remote-handled

3.1.3 **Comments on radiological characteristics (e.g., more specific 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 **Matrix characteristics (physical content)**

3.2.1 **Matrix constituent table (each constituent listed should constitute at least 1% of the total volume or mass)**

Matrix Parameter Category Code	Matrix Constituent Description	Typical or Range (%)
X7590	UNKNOWN/OTHER REACTIVE METALS	50-100
X7520	REACTIVE METAL CONTAMINATED COMPONENTS	50-100

LDR REPORT TREATABILITY GROUP DATA SHEET**3.2.2 Confidence level for matrix characteristic data in Section 3.2.1:**

Low Medium High

3.2.3 Comments on matrix characteristics and/or confidence level:

A typical container consists of waste contaminated with reactive components.

3.3 Regulated contaminated characteristics**3.3.1 Wastewater/non-wastewater under RCRA**

Wastewater Non-wastewater Unknown

3.3.2 Regulated contaminant 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
D003	Reactive	Reactive Cyanides	NA	Process Knowledge	590/30 mg/kg
D003	Reactive	Water Reactive	NA	Process Knowledge	DEACT and meet 268.48 standards
D003	Reactive	Other Reactives	NA	Process Knowledge	DEACT and meet 268.48 standards

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

**If the waste is not consistent in concentration or the concentration is unknown, this may not apply. Describe in Section 3.3.6.

3.3.3 List any waste numbers from Section 3.3.2 for which the 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

LDR REPORT TREATABILITY GROUP DATA SHEET

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 (ppm)

<50 ≥ 50 Unknown

3.3.5 What is the confidence level for the regulated contaminant characteristic data?

Low Medium High

3.3.6 Comments on regulated contaminant characteristics and/or confidence level:

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

4.0 WASTE STREAM TREATMENT

4.1 Is this stream currently being treated? Yes No

If yes, provide details:

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 off site
 Treating or plan to treat on 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:

There are no treatment campaigns planned for this waste until after 2005, to allow the stored volume to accumulate for performance of more cost-effective treatment.

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

None.

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:

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment:

None

LDR REPORT TREATABILITY GROUP DATA SHEET

4.9 Key assumptions: None.

5.0 WASTE STREAM DISPOSAL

After treatment, how will the waste stream be disposed of (include description, 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 Plant/unit name:** 222-S/Reactive Metals and Metal Compounds, Dangerous Mixed Waste Storage Area (DMWSA), Reactive metals **Waste stream** Reactive Metals and Metal Compounds
- Treatability/aggregated group identifier MLLW-10
- Treatability/aggregated group name: Reactive metals

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

None

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):

Solid waste from unused or expired standard and reagents used in laboratory operations (chemical in an analytical procedure performed in the Hood of the Lab or Hot cell analytical procedures).

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

222S generates waste during laboratory activities (e.g. analytical procedures and Hot Cell operations).

1.3.3 Source of the hazardous constituents

222-S Laboratory use standards and reagents to perform analytical operations.

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

Material safety data sheets are used primarily to designate standard and reagents.

1.3.5 Additional notes:

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

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?

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Per the Hanford Facility Dangerous Waste Permit Application, 222-S Laboratory Complex
(DOE/ RL-91-27 Revision 1)

2.1.2 Timeframe when waste was placed into storage:

08/11/95-12/31/2000

2.2 Inventory locations:

Building/room number	Number of containers/tanks
HS-0082B	1

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 0.208

Date of inventory values: 12/31/2000

Comments on waste inventory: This data is from Solid Waste Information and Tracking
System (SWITS) specific to 222S Laboratory.

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:

2.5 Planned management areas for storage of this waste: Current location CWC DST Other area(s) list: None**2.6 Estimated generation projection by calendar year:**

Year	m3	and/or	kg
2001	0.380		
2002	0.300		
2003	0.300		
2004	0.300		
2005	0.300		
Totals	1.580		

2.7 DOE Storage Compliance Assessment information:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Assessment has been completed. Reference to most recent assessment:

Assessment has been scheduled. Scheduled date:

May 2001

Other. Explain:

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

None

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

If yes, provide Tri-Party Agreement milestone number(s):

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

3.0 WASTE MINIMIZATION

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

Yes No

If yes, provide date assessment conducted: 9/2000

If yes, provide document number or other identification: "Operating and analytical procedures at 222S Laboratory", File: /p2oahtml/paperlesslab.htm, Web address: //apsql05.rl.gov/p2oahtml/paperlesslab.ht

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

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, etc.):

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

222-S personnel minimize waste through proper planning during Automated Job Hazard Analysis (AJHA) and pre-jobs and optimizing use of lab ware. 222-S seek innovative technology that will allow waste minimization.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year (volume or mass): 7.3 m3

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

DOE/RL-2000-79 - "Pollution Prevention Accomplishments" document reported waste reductions for CY 2000. The waste reduction volume reported above in Section 3.3.1 is a total waste minimization volume for similar waste streams across the 222-S Laboratory; this waste stream may be a portion of what was reported. 222-S has no waste minimization goals for this waste stream; therefore, no projected future waste volume reduction are reported above in Section 3.3.2. However, the analytical process generating this stream is continuously evaluated for waste minimization opportunities.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Plant/unit name: 327/327, Reactive metals **Waste stream** Reactive Metals Discarded Chemical

Treatability/aggregated group identifier MLLW-10

Treatability/aggregated group name: Reactive metals

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

NA

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 chemical product

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

Chemical was used in the past processing or clean up activities.

1.3.3 Source of the hazardous constituents

Chemical product

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

Process knowledge

1.3.5 Additional notes:

NA

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

2.1 Current storage method

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

Tank DST SST

Other (explain): NA

2.1.1 How was the waste managed prior to storage?

Waste is being managed in SAA. Waste volume projection is provided in Section 2.6

2.1.2 Timeframe when waste was placed into storage:

NA

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET**2.2 Inventory locations:**

Building/room number	Number of containers/tanks
NA	

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters):

Date of inventory values:

12/31/2000

Comments on waste inventory:

NA**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?

NA

When is this capacity expected to be reached?

NA

Bases and assumptions used: Waste is being accumulated in SAA

2.5 Planned management areas for storage of this waste: Current location CWC DST Other area(s) list: NA None**2.6 Estimated generation projection by calendar year:**

Year	m3	and/or	kg
2001	0.200		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.200		

2.7 DOE Storage Compliance Assessment information: Assessment has been completed. Reference to most recent assessment: Assessment has been scheduled. Scheduled date:

May 2002

 Other. Explain: NA**2.8 Applicable Tri-Party Agreement milestones related to storage at this location:**

NA

2.9 Has there ever been any non-permitted, unauthorized release of this stream to the environment? Yes No

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

If yes, summarize releases and quantities and provide date:

NA

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

Yes No

If yes, explain: NA

2.11 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

NA

If yes, provide Tri-Party Agreement milestone number(s): NA

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

NA

3.0 WASTE MINIMIZATION**3.1 Has a waste minimization assessment been completed for this stream?**

Yes No

If yes, provide date assessment conducted:

NA

If yes, provide document number or other identification:

NA

If no, provide date assessment will be completed, or if waste stream is no longer generated then indicate NA: 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, etc.):

Disposal of unused chemical product. Procurement of additional chemical product will be restricted

3.3 Waste minimization schedule**3.3.1 Reduction achieved during calendar year (volume or mass):**

0

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Totals 0.000

3.3.3 Bases and assumptions used in above estimates:

NA

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Plant/unit name: CWC/CWC, Reactive metals **Waste stream** Alkali metals
Treatability/aggregated group identifier MLLW-10
Treatability/aggregated group name: Reactive metals

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

NA

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 hazardous constituents

See 1.3.1 and 1.3.2

1.3.4 Source of 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

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 into storage:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Waste storage at CWC began in 1987 and has continued since then.

2.2 Inventory locations:

Building/room number	Number of containers/tanks
CWC	4

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 0.82

Date of inventory values: 01/05/2001

Comments on waste inventory: Inventory based on data for containers residing at the CWC as reported in the Solid Waste Information Tracking System (SWITS) for WSRd 820.

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? NA

When is this capacity expected to be reached? NA

Bases and assumptions used: No issues with CWC storage based on 20 year waste generation forecast.

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed. Reference to most recent assessment: NA

Assessment has been scheduled. Scheduled date: September 2001

Other. Explain:

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

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

None

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

Yes No

If yes, summarize releases and quantities and provide date:

NA

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

Yes No

If yes, explain: NA

2.11 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

If necessary to provide further characterization, waste will be re-characterized just prior to treatment for most efficient use of resources to meet current disposal requirements. The time frame for assessment of further characterization needs for this waste stream have not yet been determined.

If yes, provide Tri-Party Agreement milestone number(s):None

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

Inventory based on data for containers residing at the CWC as reported in the Solid Waste Information Tracking System (SWITS).

3.0 WASTE MINIMIZATION

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

Yes No

If yes, provide date assessment conducted:

NA

If yes, provide document number or other identification:

NA

If no, provide date assessment will be completed, or if waste stream is no longer generated then indicate NA: 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, etc.):

These activities occur before the wastes are shipped to CWC. There are few opportunities to reduce

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

waste volumes placed into storage.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year (volume or mass): 0

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

There is no projected waste generation by CWC.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET**1.0 WASTE STREAM IDENTIFICATION AND SOURCE**

1.1 Plant/unit name: FFTF/FFTF, Reactive Metals **Waste stream** FFTF
 Treatability/aggregated group identifier MLLW-10
 Treatability/aggregated group name: 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 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 activities

1.3.3 Source of the hazardous constituents

Sodium from maintenance and refueling activities. Refueling activities also include removing non-fuel components from storage in sodium.

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

Process knowledge

1.3.5 Additional notes:

The waste that is being reported is in a satellite accumulation area.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

2.1 Current storage method

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

2.1.1 How was the waste managed prior to storage?

SAA

2.1.2 Timeframe when waste was placed into storage:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Item 96-15 10/25/96

2.2 Inventory locations:

Building/room number	Number of containers/tanks
4717	1

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 0
 Date of inventory values: 12/31/2000
 Comments on waste inventory: N/A

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? 0

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

Bases and assumptions used: N/A

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list: N/A

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	0.001		1.000
2002	0.001		1.000
2003	0.001		1.000
2004	0.001		1.000
2005	0.001		1.000
Totals	0.005		5.000

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed. Reference to most recent assessment: N/A

Assessment has been scheduled. Scheduled date: Currently scheduled for February 200

Other. Explain: N/A

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

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

N/A

If yes, provide Tri-Party Agreement milestone number(s): N/A

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

The final disposition of the 260,000 gallons of FFTF sodium has not been determined but 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 NA: February 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, etc.):

The waste stream is of such insignificant volume that any further minimization is not required. The refueling equipment is designed to minimize the waste generated. In addition, sodium is collected in drip pots, then heated and returned to the system.

3.3 Waste minimization schedule

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

0 kg

3.3.2 Projected future waste volume reductions:

Year m3 and/or kg

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2001	0
2002	0
2003	0
2004	0
2005	0
Totals	0

3.3.3 Bases and assumptions used in above estimates:

Process Knowledge

LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

- 1.1 **Treatability group/aggregated stream identifier:** PNNL-HWTU Waste
Treatability group/aggregated stream name: PNNL Laboratory Waste
- 1.2 **Description of waste (list WSRd numbers for this waste stream, as applicable):**

This waste stream consists of many different inorganic and organic solids and liquids that are contaminated with inorganic and organic regulated dangerous waste constituents, including PCBs. This waste stream also includes hazardous debris. WSRds in this waste stream: 400, 401, 402, 403, 404, 420, 421, 422, 500, 501, 503, 504, 505, 521, 523, 524, 525, 627, 647, 800, 820, 822, 830, 923, 930.

2.0 WASTE STREAM INVENTORY AND GENERATION

- 2.1 **Current total inventory for this stream (stored waste only, not accumulation areas)**

Total volume (cubic meters): 1.483

- 2.2 **Estimated generation projection by calendar year**

Year	m3	and/or	kg
2001	19.620		
2002	14.310		
2003	14.310		
2004	14.310		
2005	14.310		
Totals	76.860		

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 currently packaged/stored)** Contact-handled Remote-handled

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

Remote handled waste is packaged to meet contact handled limits, thus only CH is indicated. The radiological constituents are characterized using methods approved in PNNL's Waste stream profiles for the waste currently being stored.

- 3.2 **Matrix characteristics (physical content)**

3.2.1 **Matrix constituent table (each constituent listed should constitute at least 1% of the total volume or mass)**

Matrix Parameter Category Code	Matrix Constituent Description	Typical or Range (%)

LDR REPORT TREATABILITY GROUP DATA SHEET

Matrix Parameter Category Code	Matrix Constituent Description	Typical or Range (%)
X6300	SOLID LAB PACKS	4
X6100	ORGANIC LAB PACKS	3
S5300	ORGANIC DEBRIS	50
S3200	ORGANIC HOMOGENEOUS SOLIDS	27
S3150	SOLIDIFIED HOMOGENEOUS SOLIDS	16

3.2.2 Confidence level for matrix characteristic data in Section 3.2.1:

Low Medium High

3.2.3 Comments on matrix characteristics and/or confidence level:

There is high confidence that the subject waste stream will not contain physical matrix characteristics that do not meet the waste stream description.

3.3 Regulated contaminated characteristics

3.3.1 Wastewater/non-wastewater under RCRA

Wastewater Non-wastewater Unknown

3.3.2 Regulated contaminant 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 & meet 268.48
D002	Corrosive	Corrosive Charac.	***	***	DEACT & meet 268.48
D003	Reactive	multiple	***	***	DEACT & meet 268.48
D004	TC-Arsenic	NA	***	***	5.0 mg/L TCLP
D005	TC-Barium	NA	***	***	100 mg/L TCLP
D006	TC-Cadmium	Cadmium Charac.	***	***	1.0 mg/L TCLP
D007	TC-Chromium	NA	***	***	5.0 mg/L TCLP
D008	TC-Lead	Lead Charac.	***	***	5.0 mg/L TCLP
D009	TC-Mercury	Low Mercury	<260 mg/kg	***	0.2 mg/L TCLP
D010	TC-Selenium	NA	***	***	5.7 mg/L TCLP
D011	TC-Silver	NA	***	***	5.0 mg/L TCLP

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
D018	Benzene	NA	***	***	10 mg/kg & meet 268.48
D019	Carbon Tetrachloride	NA	***	***	6.0 mg/kg & meet 268.48
D021	Chlorobenzene	NA	***	***	6.0 mg/kg & meet 268.48
D022	Chloroform	NA	***	***	6.0 mg/kg & meet 268.48
D027	p-Dichlorobenzene	NA	***	***	6.0 mg/kg & meet 268.48
D028	1,2-Dichlorethane	NA	***	***	6.0 mg/kg & meet 268.48
D029	1,1-Dichloroethylene	NA	***	***	6.0 mg/kg & meet 268.48
D030	2,4-Dinitrotoluene	NA	***	***	140.0 mg/kg & meet 268.48
D033	Hexachlorobutadiene	NA	***	***	5.6 mg/kg & meet 268.48
D035	Methyl Ethyl Ketone	NA	***	***	36 mg/kg & meet 268.48
D038	Pyridine	NA	***	***	16 mg/kg & meet 268.48
D039	Tetrachloroethane	NA	***	***	6.0 mg/kg & meet 268.48
D040	Trichloroethylene	NA	***	***	6.0 mg/kg & meet 268.48
D043	Vinyl Chloride	NA	***	***	6.0 mg/kg & meet 268.48
F001	1,1,1-Trichloroethane	Spent Solvent	***	***	6.0 mg/kg
F002	Methylene Chloride	Spent Solvent	***	***	30 mg/kg
F003	Acetone & Hexone	Spent Solvent	***	***	160 mg/kg
F004	o-Cresol & p-Cresol	Spent Solvent	***	***	5.6 mg/kg
F005	Methyl Ethyl Ketone	Spent Solvent	***	***	36 mg/kg
WP01	Persistent, EHW	NA	***	***	None (1)
WP02	Persistent, DW	NA	***	***	None
WP03	Persistent, EHW	NA	***	***	None

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
WSC2	Solid Corrosive	NA	***	***	Remove solid- acid char
WT02	Toxic, DW	NA	***	***	None

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

**If the waste is not consistent in concentration or the concentration is unknown, this may not apply. Describe in Section 3.3.6.

3.3.3 List any waste numbers from Section 3.3.2 for which the 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 (ppm)

- <50 ≥ 50 Unknown

3.3.5 What is the confidence level for the regulated contaminant characteristic data?

- Low Medium High

3.3.6 Comments on regulated contaminant characteristics and/or confidence level:

The subject waste has been characterized as prescribed in the waste profiles for the various WSRds listed in 1.2. Some of the waste does contain PCBs subject to TSCA regulation. If a waste package is regulated by TSCA, it is identified as such on the storage records. In 3.3.4.2, the PCB concentration range is marked as "Unknown" because concentrations occur below and above 50 ppm. In 3.3.1, waste may be either wastewater or non-wastewater at the point of generation but is most likely to be non-wastewater at the time of shipment.

LDR REPORT TREATABILITY GROUP DATA SHEET

4.0 WASTE STREAM TREATMENT

4.1 Is this stream currently being treated? Yes No

If yes, provide details: Some of the contents of individual waste containers will be treated to meet acceptance criteria for other Hanford waste management units and /or to allow for bulking and absorbing larger volumes of waste into each container. Occasionally the results of this treatment produce waste that meets all LDR treatment standards.

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 off site
 Treating or plan to treat on site Treatment options still being assessed

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

Some of the individual wastes will be treated to meet acceptance criteria for other Hanford Site waste management units. Occasionally the results of this treatment will be a waste that meets all LDR treatment standards.

4.4 Treatment schedule information:

Treatment will be performed in the 325 Hazardous Waste Treatment Units.

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

Has met milestone M-20-20.

4.6 Proposed new Tri-Party Agreement treatment milestones:

NA

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: The 325 HWTU follows PNNL's Pollution prevention program. Staff requirements for pollution prevention and waste minimization are detailed in PNNL's program entitled "Waste minimization and Pollution Prevention".

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment:

NA

4.9 Key assumptions: NA

5.0 WASTE STREAM DISPOSAL

LDR REPORT TREATABILITY GROUP DATA SHEET

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

Waste from PNNL (treated or untreated) is transferred to other Hanford waste management units (CWC, LLBG, Tank Farms) for further treatment/disposal.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

- 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 this storage facility.

2.1.2 Timeframe when waste was placed into storage:

The waste currently stored here was placed in storage between 05/07/1993 and 12/05/2000.

2.2 Inventory locations:

Building/room number	Number of containers/tanks
325/520	84
325/528	82
325/SAL	26

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 1.483

Date of inventory values: 01/22/2001

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? _____

When is this capacity expected to be reached? _____

Bases and assumptions used:

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	19.620		
2002	14.310		
2003	14.310		
2004	14.310		
2005	14.310		
Totals	76.860		

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed. Reference to most recent assessment:

Assessment has been scheduled. Scheduled date:

October 2001

Other. Explain:

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

No TPA milestone is directly associated with storage of this waste.

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

If yes, provide Tri-Party Agreement milestone number(s):

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

NA

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 NA: To be determined.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

- 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, etc.):**

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. Additionally, some tank waste contaminated debris streams have been compacted to minimize the number of containers shipped to CWC.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year (volume or mass): 1.04 m³

3.3.2 Projected future waste volume reductions:

Year	m ³	and/or	kg
2001	12.000		
2002	10.000		
2003	10.000		
2004	10.000		
2005	10.000		
Totals	52.000		

3.3.3 Bases and assumptions used in above estimates:

Reductions indicated reflect only those achieved prior to shipment to CWC, not minimization efforts done in the laboratory prior to packaging. Thus the reduction is in shipping volume, not generation volume. The reductions projected are based upon historical reductions achieved through unit operations.

LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

- 1.1 Treatability group/aggregated stream identifier:** PUREX Containment Bldg. Waste
Treatability group/aggregated stream name: PUREX containment building
- 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 facility is under long term surveillance and maintenance.

2.0 WASTE STREAM INVENTORY AND GENERATION

2.1 Current total inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 1.000

2.2 Estimated generation projection by calendar year

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	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 currently packaged/stored) Contact-handled Remote-handled

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

The work done in E cell was primarily removal of fuel cladding hulls, which does not meet the definition of high-level waste. Based on the radiological characteristics of the waste (emits approximately 500 rad/hr), this waste is categorized as remote-handled TRU. The confidence level is high.

3.2 Matrix characteristics (physical content)

3.2.1 Matrix constituent table (each constituent listed should constitute at least 1% of the total volume or mass)

Matrix Parameter Category Code	Matrix Constituent Description	Typical or Range (%)
S5121	CONCRETE DEBRIS	99.9

LDR REPORT TREATABILITY GROUP DATA SHEET**3.2.2 Confidence level for matrix characteristic data in Section 3.2.1:**

Low Medium High

3.2.3 Comments on matrix characteristics and/or confidence level:

None

3.3 Regulated contaminated characteristics**3.3.1 Wastewater/non-wastewater under RCRA**

Wastewater Non-wastewater Unknown

3.3.2 Regulated contaminant 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	Chromium	~1000 ppm	Analytical results	DEBRIS STANDARD

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

**If the waste is not consistent in concentration or the concentration is unknown, this may not apply. Describe in Section 3.3.6.

3.3.3 List any waste numbers from Section 3.3.2 for which the 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 (ppm)

LDR REPORT TREATABILITY GROUP DATA SHEET

<50 ≥ 50 Unknown

3.3.5 What is the confidence level for the regulated contaminant characteristic data?

Low Medium High

3.3.6 Comments on regulated contaminant characteristics and/or confidence level:

Based on laboratory analysis

4.0 WASTE STREAM TREATMENT

4.1 Is this stream currently being treated? Yes No

If yes, provide details:

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 off site
 Treating or plan to treat on 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 milestone numbers (including permitting):

PUREX is under long term surveillance and maintenance in accordance with Section 8.0, Facility Decommissioning Process, of the Tri-Party Agreement

4.6 Proposed new Tri-Party Agreement treatment milestones:

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:

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment:

Unknown

4.9 Key assumptions: Decommissioning of PUREX is addressed under Chapter 8 of the Tri-Party Agreement

5.0 WASTE STREAM DISPOSAL

LDR REPORT TREATABILITY GROUP DATA SHEET

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

A decision on the Canyon Disposition Initiative will be made by 2005. Results of that decision will affect the final disposition of the PUREX facility and its contents.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Plant/unit name: PUREX/202-A, Containment **Waste stream** 202-A
Treatability/aggregated group identifier PUREX Containment Bldg. Waste
Treatability/aggregated group name: PUREX containment building

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

NA

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 hazardous constituents

E-Cell was used when removing fuel cladding hulls

1.3.4 Source of 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

2.1 Current storage method

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

2.1.1 How was the waste managed prior to storage?

Unknown

2.1.2 Timeframe when waste was placed into storage:

Waste was generated in September 1989

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET**2.2 Inventory locations:**

Building/room number	Number of containers/tanks
202A/ F-CELL	1 cell

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 1
Date of inventory values: 12/31/2000
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? _____

When is this capacity expected to be reached? _____

Bases and assumptions used:

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed. Reference to most recent assessment:

Assessment has been scheduled. Scheduled date:

March 2003

Other. Explain:

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

PUREX is under Long Term Surveillance and Maintenance under Section 8 of the TPA

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

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

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 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

If yes, provide Tri-Party Agreement milestone number(s):

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

No additional waste will be stored at this location.

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 NA: 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, etc.):

3.3 Waste minimization schedule

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

3.3.2 Projected future waste volume reductions:

3.3.3 Bases and assumptions used in above estimates:

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LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

- 1.1 Treatability group/aggregated stream identifier:** PUREX Storage Tunnel Waste
Treatability group/aggregated stream 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 powder in canisters.

2.0 WASTE STREAM INVENTORY AND GENERATION

2.1 Current total inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 2,800.000

2.2 Estimated generation projection by calendar year

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	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 currently packaged/stored)** Contact-handled Remote-handled
- 3.1.3 Comments on radiological characteristics (e.g., more specific content, treatment concerns caused by radiation, confidence level):**

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

3.2 Matrix characteristics (physical content)

- 3.2.1 Matrix constituent table (each constituent listed should constitute at least 1% of the total volume or mass)**

Matrix Parameter Category Code	Matrix Constituent Description	Typical or Range (%)
X7211	NONACTIVATED LEAD	1
S5111	METAL DEBRIS WITHOUT PB OR CD	99

3.2.2 Confidence level for matrix characteristic data in Section 3.2.1:

- Low Medium High

LDR REPORT TREATABILITY GROUP DATA SHEET

3.2.3 Comments on matrix characteristics and/or confidence level:

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.

3.3 Regulated contaminated characteristics

3.3.1 Wastewater/non-wastewater under RCRA

Wastewater Non-wastewater Unknown

3.3.2 Regulated contaminant 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/Proce ss knowledge	0.11 mg/l TCLP & Deact 40 CFR 268.48
D007	Chromium	Chromium	5-1000 ppm	Analytical/procc ess 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	NONE

LDR REPORT TREATABILITY GROUP DATA SHEET

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

**If the waste is not consistent in concentration or the concentration is unknown, this may not apply. Describe in Section 3.3.6.

UHCs must be determined for the PUREX tunnel waste 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 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 (ppm)

- <50 ≥ 50 Unknown

3.3.5 What is the confidence level for the regulated contaminant characteristic data?

- Low Medium High

3.3.6 Comments on regulated contaminant characteristics and/or confidence level:

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.

4.0 WASTE STREAM TREATMENT

4.1 Is this stream currently being treated? Yes No

If yes, provide details:

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 off site
- Treating or plan to treat on site Treatment options still being assessed

LDR REPORT TREATABILITY GROUP DATA SHEET

- 4.3 **Planned treatment method, facility, extent of treatment capacity available:**
NA
- 4.4 **Treatment schedule information:**
NA
- 4.5 **Applicable Tri-Party Agreement milestone numbers (including permitting):**
NA
- 4.6 **Proposed new Tri-Party Agreement treatment milestones:**
- 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:
- 4.8 **List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment:**
- 4.9 **Key assumptions:** Closure of the PUREX Storage Tunnels will be coordinated with disposition of the PUREX plant as well as the PUREX containment building waste.

5.0 WASTE STREAM DISPOSAL

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

Unknown, however the most likely disposal location is the LLBG subtitle-C or LLBG LLW trenches.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Plant/unit name: PUREX/Storage Tunnels 1 and 2 **Waste stream** Storage Tunnels 1 and 2
 Treatability/aggregated group identifier PUREX Storage Tunnel Waste
 Treatability/aggregated group name: PUREX storage tunnels

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

NA

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):

Failed rail cars are in the tunnels. Material varies from very large equipment vessels with lead counterweights to very fine 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 facility. However, waste from other Hanford Facility locations, including 324 and 327 research and development laboratories, has been placed in the tunnels.

1.3.3 Source of the hazardous constituents

The bulk of the waste is failed equipment from the PUREX facility. However, waste from other Hanford Facility locations, including 324 and 327 research and development laboratories, has been placed in the tunnels

1.3.4 Source of 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

2.1 Current storage method

Container (pad)	Container (covered)	Container (retrievably buried)
Tank	DST	SST

✓ 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?

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

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

2.1.2 Timeframe when waste was placed into storage:

June 1960 to June 1996

2.2 Inventory locations:

Building/room number	Number of containers/tanks
PUREX TUNNEL #1	8 rail cars
PUREX TUNNEL #2	28 rail cars

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 2800
 Date of inventory values: 03/01/2000
 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? _____

When is this capacity expected to be reached? _____

Bases and assumptions used:

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

2.7 DOE Storage Compliance Assessment information:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Assessment has been completed. Reference to most recent assessment:

Assessment has been scheduled. Scheduled date:

Jul 2001

Other. Explain:

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

None

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

If yes, provide Tri-Party Agreement milestone number(s):

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

Waste in the tunnels mainly came from the PUREX canyon/plant. The waste from the tunnels will be handled at the same time and in the same manner as the vessels and materials (including containment building waste) in the PUREX canyon/plant will be handled during final disposition.

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 NA: NA

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, etc.):

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.3 Waste minimization schedule

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

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

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

LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

- 1.1 Treatability group/aggregated stream identifier:** Purgewater Storage and Treatment Facility
Treatability group/aggregated stream name: PSTF
- 1.2 Description of waste (list WSRd numbers for this waste stream, as applicable):**
 Groundwater contaminated with uranium, technetium, carbon tetrachloride, and nitrates.

2.0 WASTE STREAM INVENTORY AND GENERATION

- 2.1 Current total inventory for this stream (stored waste only, not accumulation areas)**

Total volume (cubic meters): _____ 0.000

- 2.2 Estimated generation projection by calendar year**

Year	m3	and/or	kg
2001	100.600		
2002	100.600		
2003	100.600		
2004	100.600		
2005	100.600		
Totals	503.000		

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 currently packaged/stored) Contact-handled Remote-handled

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

- 3.2 Matrix characteristics (physical content)**

3.2.1 Matrix constituent table (each constituent listed should constitute at least 1% of the total volume or mass)

Matrix Parameter Category Code	Matrix Constituent Description	Typical or Range (%)
L1130	NEUTRAL WASTEWATERS	100

3.2.2 Confidence level for matrix characteristic data in Section 3.2.1:

Low Medium High

3.2.3 Comments on matrix characteristics and/or confidence level:

LDR REPORT TREATABILITY GROUP DATA SHEET

Waste stream is generated from groundwater sampling, well maintenance, well drilling, and pump and treat operations

3.3 Regulated contaminated characteristics

3.3.1 Wastewater/non-wastewater under RCRA

Wastewater Non-wastewater Unknown

3.3.2 Regulated contaminant 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
D019	Carbon Tetrachloride				
F001			**	analytical data	
F003			**	analytical data	

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

**If the waste is not consistent in concentration or the concentration is unknown, this may not apply. Describe in Section 3.3.6.

3.3.3 List any waste numbers from Section 3.3.2 for which the 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 (ppm)

<50 ≥ 50 Unknown

LDR REPORT TREATABILITY GROUP DATA SHEET**3.3.5 What is the confidence level for the regulated contaminant characteristic data?**

Low Medium High

3.3.6 Comments on regulated contaminant characteristics and/or confidence level:

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

4.0 WASTE STREAM TREATMENT**4.1 Is this 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 off site
 Treating or plan to treat on site Treatment options still being assessed

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

Treated via solar evaporation at the Purgewater Storage and Treatment Facility

4.4 Treatment schedule information:

Treatment is ongoing

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

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:

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment:

N/A

4.9 Key assumptions: The Hanford Site purgewater management plan is being re-negotiated, as a result of the negotiations, codes applied to this waste may be updated.**5.0 WASTE STREAM DISPOSAL**

LDR REPORT TREATABILITY GROUP DATA SHEET

After treatment, how will the waste stream be disposed of (include description, 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 to ERDF.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET**1.0 WASTE STREAM IDENTIFICATION AND SOURCE**

- 1.1 Plant/unit name:** Purgewater Storage and Treatment Facility/PSTF **Waste stream** Modu-Tanks
 Treatability/aggregated group identifier Purgewater Storage and Treatment Facility
 Treatability/aggregated group name: PSTF

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 hazardous constituents

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

1.3.4 Source of 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**2.1 Current storage method**

Container (pad)	Container (covered)	Container (retrievably buried)
Tank	DST	SST

- ✓ 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

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.1.2 Timeframe when waste was placed into storage:

The facility is a solar evaporation unit that has been in service since 1991.

2.2 Inventory locations:

Building/room number	Number of containers/tanks
PSTF UNIT #1	1

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 0

Date of inventory values: 12/31/2000

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? _____

When is this capacity expected to be reached? _____

Bases and assumptions used:

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	100.600		
2002	100.600		
2003	100.600		
2004	100.600		
2005	100.600		
Totals	503.000		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed. Reference to most recent assessment: Aug. 2000, A&E-00-ASS
068

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:

None

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

If yes, provide Tri-Party Agreement milestone number(s):

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. However, for this report it is assumed that the PSTF operations will continue.

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 NA: 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, etc.):

Hanford contractors are currently evaluating zero purge and near zero purge sampling techniques to minimize the amount of waste that is required to be generated during well sampling. 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 (volume or mass):

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.3.2 Projected future waste volume reductions:

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/aggregated stream identifier:** SST Waste
- Treatability group/aggregated stream name:** Single-shell tank system
- 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 STREAM INVENTORY AND GENERATION

- 2.1 Current total inventory for this stream (stored waste only, not accumulation areas)**

Total volume (cubic meters): 127,355.000

- 2.2 Estimated generation projection by calendar year**

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	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 currently packaged/stored) Contact-handled Remote-handled

3.1.3 Comments on radiological characteristics (e.g., more specific 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.

- 3.2 Matrix characteristics (physical content)**

3.2.1 Matrix constituent table (each constituent listed should constitute at least 1% of the total volume or mass)

Matrix Parameter Category Code	Matrix Constituent Description	Typical or Range (%)
S9000	UNKNOWN/OTHER SOLIDS	98
L1220	BASIC AQUEOUS SLURRIES	2

LDR REPORT TREATABILITY GROUP DATA SHEET

3.2.2 Confidence level for matrix characteristic data in Section 3.2.1:

Low Medium High

3.2.3 Comments on matrix characteristics and/or confidence level:

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 contaminated characteristics

3.3.1 Wastewater/non-wastewater under RCRA

Wastewater Non-wastewater Unknown

3.3.2 Regulated contaminant 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	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	NA	(4)	(4)	10 mg/kg (2)
D019	Carbon Tetrachloride	NA	(4)	(4)	6.0 mg/kg (2)
D022	Chloroform	NA	(4)	(4)	6.0 mg/kg (2)
D028	1,2-Dichloroethane	NA	(4)	(4)	6.0 mg/kg (2)

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
D029	1,1-Dichloroethylene	NA	(4)	(4)	6.0 mg/kg (2)
D030	2,4-Dinitrotoluene	NA	(4)	(4)	140 mg/kg (2)
D033	Hexachlorobutadiene	NA	(4)	(4)	5.6 mg/kg (2)
D034	Hexachloroethane	NA	(4)	(4)	30 mg/kg (2)
D035	Methyl Ethyl Ketone	NA	(4)	(4)	36 mg/kg (2)
D036	Nitrobenzene	NA	(4)	(4)	14 mg/kg (2)
D038	Pyridine	NA	(4)	(4)	16 mg/kg (2)
D039	Tetrachloroethylene	NA	(4)	(4)	6.0 mg/kg (2)
D040	Trichloroethylene	NA	(4)	(4)	6.0 mg/kg (2)
D041	2,4,5- Trichlorophenol	NA	(4)	(4)	7.4 mg/kg (2)
D043	Vinyl Chloride	NA	(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	Methyl Isobutyl Ketone	Spent Solvent	(4)	(4)	33 mg/kg
F003	Acetone	Spent Solvent	(4)	(4)	160 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
WP01	Persistent wastes, Extremely hazardous wastes	NA	(4)	(4)	NONE (3)
WP02	Persistent Dangerous wastes	NA	(4)	(4)	NONE
WT01	Toxic Dangerous Wastes, Extremely Hazardous Wastes	NA	(4)	(4)	NONE (3)
WTO2	Toxic Dangerous Wastes, Dangerous Wastes	NA	(4)	(4)	NONE

LDR REPORT TREATABILITY GROUP DATA SHEET

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

**If the waste is not consistent in concentration or the concentration is unknown, this may not apply. Describe in Section 3.3.6.

- 1) Radioactive high-level wastes generated during the reprocessing of fuel rods.
- 2) and meet 40CFR268.48
- 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

Tank Waste is subject to non-wastewater treatment standards.

3.3.3 List any waste numbers from Section 3.3.2 for which the 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 (ppm)

- < 50 ≥ 50 Unknown

3.3.5 What is the confidence level for the regulated contaminant characteristic data?

- Low Medium High

3.3.6 Comments on regulated contaminant characteristics and/or confidence level:

The wastes in the SSTs continue 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.

4.0 WASTE STREAM TREATMENT

4.1 Is this stream currently being treated? Yes No

If yes, provide details:

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 off site
 Treating or plan to treat on 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 milestone numbers (including permitting):

M-45-00, SST Retrieval; M-44-00, Characterization

4.6 Proposed new Tri-Party Agreement treatment milestones:

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.

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment:

None at this time.

4.9 Key assumptions:

5.0 WASTE STREAM DISPOSAL

After treatment, how will the waste stream be disposed of (include description, 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 Plant/unit name: SST/SST-A **Waste stream** 241-A
 Treatability/aggregated group identifier SST Waste
 Treatability/aggregated group name: Single-shell tank system

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

NA

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):

A Farm waste is Double-Shell slurry feed, non-complexed waste and concentrated phosphate waste. This waste is mostly sludge, with some saltcake, and liquid waste layered over saltcake.

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 a variety of analytical, decladding, and separation processes. Most of the waste in the A Farm was generated at PUREX and B Plant.

1.3.3 Source of the hazardous constituents

Waste is from facility operations and maintenance; and laboratories, including analytical laboratories, as well as, R&D work.

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

Process Knowledge, and Tank Characterization Reports.

1.3.5 Additional notes:

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

2.1 Current storage method

Container (pad)	Container (covered)	Container (retrievably buried)
<input checked="" 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 operating facility.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.1.2 Timeframe when waste was placed into storage:

From 1955 to 1980.

2.2 Inventory locations:

Building/room number	Number of containers/tanks
241-A	6 Tanks Diversion Boxes French Drains Valve Pits Catch Tanks Ancillary Equip

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 6000

Date of inventory values: 12/31/2000

Comments on waste inventory: The volume is rounded to the nearest 1,000. 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.

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:

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Totals 0.000

2.7 DOE Storage Compliance Assessment information:

- Assessment has been completed. Reference to most recent assessment: A-01-OPD-TANKFARM-011
- Assessment has been scheduled. Scheduled date: Planned for 12/2001
- Other. Explain:

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

M-45-00, SST Retrieval and Closure,

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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:

2.11 Is further characterization necessary?

- Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

No further characterization for waste designation and/or LDR is necessary for storage. Further characterization to support waste treatment and other issues is planned. Waste is sampled and characterized per RPP-5832, Fiscal Year 2001 Tank Characterization Technical Sampling Basis and Waste Information Requirements Document, 8/2000 (WIRD document).

If yes, provide Tri-Party Agreement milestone number(s): M-44-00

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

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 NA:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

NA

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, etc.):

3.3 Waste minimization schedule

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

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

From 1966 to Present

2.2 Inventory locations:

Building/room number	Number of containers/tanks
244-AR	4 tanks Ancillary Equip

2.3 Current inventory for this stream (stored waste only, not accumulation areas)Total volume (cubic meters): 62Date of inventory values: 12/31/2000

Comments on waste inventory: Rounded to the nearest cubic meter. Tank volumes were obtained from HNF-SD-WM-SAR-067, Rev 2, "Tank Farms Final Safety Analysis Report".

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:

2.5 Planned management areas for storage of this waste: Current location CWC DST Other area(s) list: None**2.6 Estimated generation projection by calendar year:**

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed. Reference to most recent assessment:

 Assessment has been scheduled. Scheduled date:

Planned for 11/2002

 Other. Explain:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

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

M-45-00

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

No further characterization for waste designation and/or LDR is necessary for storage. Further characterization to support waste treatment and other issues is planned. Waste is sampled and characterized per RPP-5832, Fiscal Year 2001 Tank Characterization Technical Sampling Basis and Waste Information Requirements Document, 8/2000 (WIRD document).

If yes, provide Tri-Party Agreement milestone number(s): M-44-00

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

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 NA: NA

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, etc.):

3.3 Waste minimization schedule

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

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET**3.3.2 Projected future waste volume reductions:**

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET**1.0 WASTE STREAM IDENTIFICATION AND SOURCE**

1.1 Plant/unit name: SST/SST-AX **Waste stream** 241-AX
 Treatability/aggregated group identifier SST Waste
 Treatability/aggregated group name: Single-shell tank system

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

NA

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):**

AX Farm contains non-complexed wastes, Double-Shell slurry feed, and complexant concentrate waste. This is mostly solid saltcake wastes and liquids layered over saltcake.

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 a variety of analytical, decladding, and separation processes. Four basic chemical processing operations were the source of radioactive waste solutions transferred to the SST system. These processes were the Bismuth Phosphate process, the Tributyl Phosphate process, the REDOX process and the PUREX process. The liquid wastes were made alkaline before storage.

1.3.3 Source of the hazardous constituents

Waste is from facility operations and maintenance, and laboratories, including analytical laboratories and R&D work.

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

Process Knowledge, and Tank Characterization Reports

1.3.5 Additional notes:**2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION****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?

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Wastes were managed at the specific operating facility

2.1.2 Timeframe when waste was placed into storage:

From 1964 to 1980

2.2 Inventory locations:

Building/room number	Number of containers/tanks
241-AX	4 Tanks
	Diversion Boxes
	Catch Tanks
	Valve Pits
	Ancillary Equip

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 3000

Date of inventory values: 12/31/2000

Comments on waste inventory: The volume is rounded to the nearest 1,000. 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.

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:

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
------	----	--------	----

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2001	0.000
2002	0.000
2003	0.000
2004	0.000
2005	0.000
Totals	0.000

2.7 DOE Storage Compliance Assessment information:

- Assessment has been completed. Reference to most recent assessment: A-01-OPD-TANKFARM-011
- Assessment has been scheduled. Scheduled date: Planned for 12/2001
- Other. Explain:

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

M-45-00

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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:

2.11 Is further characterization necessary? Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

No further characterization for waste designation and/or LDR is necessary for storage. Further characterization to support waste treatment and other issues is planned. Waste is sampled and characterized per RPP-5832, Fiscal Year 2001 Tank Characterization Technical Sampling Basis and Waste Information Requirements Document, 8/2000 (WIRD document)

If yes, provide Tri-Party Agreement milestone number(s): M-44-00

2.12 Other key assumptions related to storage, inventory, and generation information:**3.0 WASTE MINIMIZATION****3.1 Has a waste minimization assessment been completed for this stream?** Yes No

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

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 NA: NA

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, etc.):

3.3 Waste minimization schedule

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

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET**1.0 WASTE STREAM IDENTIFICATION AND SOURCE**

1.1 Plant/unit name: SST/SST-B **Waste stream** 241-B
 Treatability/aggregated group identifier SST Waste
 Treatability/aggregated group name: Single-shell tank system

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

NA

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):**

B Farm contains non-complexed waste. This is mixed waste which is saltcake and sludge with a small amount interstitial liquids.

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 a variety of analytical, decladding, and separation processes. Four basic chemical processing operations were the source of radioactive waste solutions transferred to the SST system. These processes were the Bismuth Phosphate process, the Tributyl Phosphate process, the REDOX process and the PUREX process. The liquid wastes were made alkaline before storage.

1.3.3 Source of the hazardous constituents

Waste is from facility operations and maintenance; and laboratories, including analytical laboratories and R&D work.

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

Process knowledge and Tank Characterization Reports.

1.3.5 Additional notes:**2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION****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?

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Wastes were managed at the specific operating facility

2.1.2 Timeframe when waste was placed into storage:

From 1945 to 1978

2.2 Inventory locations:

Building/room number	Number of containers/tanks
241-B	12 Tanks
	4 Small Tanks
	Diversion Boxes
	Catch Tanks
	Ancillary Equip

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 7000

Date of inventory values: 12/31/2000

Comments on waste inventory: The volume is rounded to nearest 1000. 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.

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:

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year _____ m³ and/or _____ kg

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2001	0.000
2002	0.000
2003	0.000
2004	0.000
2005	0.000
Totals	0.000

2.7 DOE Storage Compliance Assessment information:

- Assessment has been completed. Reference to most recent assessment: A-01-OPD-TANKFARM-011
- Assessment has been scheduled. Scheduled date: 12/2001
- Other. Explain:

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

M-45-00

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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:

2.11 Is further characterization necessary?

- Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

No further characterization for waste designation and/or LDR is necessary for storage. Further characterization to support waste treatment and other issues is planned. Waste is sampled and characterized per RPP-5832, Fiscal Year 2001 Tank Characterization Technical Sampling Basis and Waste Information Requirements Document, 8/2000 (WIRD document).

If yes, provide Tri-Party Agreement milestone number(s): M-44-00

2.12 Other key assumptions related to storage, inventory, and generation information:**3.0 WASTE MINIMIZATION****3.1 Has a waste minimization assessment been completed for this stream?**

- Yes No

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

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 NA: This stream is

no longer
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, etc.):**

3.3 Waste minimization schedule

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

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Wastes were managed at the specific operating facility.

2.1.2 Timeframe when waste was placed into storage:

From 1947 until 1980

2.2 Inventory locations:

Building/room number	Number of containers/tanks
241-BX	12 Tanks Diversion Boxes Catch Tanks Ancillary Equip

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 6000

Date of inventory values: 12/31/2000

Comments on waste inventory: The volume is rounded to the nearest 1,000. 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.

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: _____

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Totals 0.000

2.7 DOE Storage Compliance Assessment information:

- Assessment has been completed. Reference to most recent assessment: A-01-OPD-TANKFARM-011
- Assessment has been scheduled. Scheduled date: Planned for 12/2001
- Other. Explain:

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

M-45-00

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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:

2.11 Is further characterization necessary?

- Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

No further characterization for waste designation and/or LDR is necessary for storage. Further characterization to support waste treatment and other issues is planned. Waste is sampled and characterized per RPP-5832, Fiscal Year 2001 Tank Characterization Technical Sampling Basis and Waste Information Requirements Document, 8/2000 (WIRD document).

If yes, provide Tri-Party Agreement milestone number(s): M-44-00

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

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 NA:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

This stream is
no longer
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, etc.):

3.3 Waste minimization schedule

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

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Wastes were managed at the specific operating facility.

2.1.2 Timeframe when waste was placed into storage:

From 1949 to 1979

2.2 Inventory locations:

Building/room number	Number of containers/tanks
241-BY	12 Tanks Diversion Boxes Ancillary Equip

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 17000

Date of inventory values: 12/31/2000

Comments on waste inventory: The volume is rounded to the nearest 1,000. 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.

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: _____

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year	m ³	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.7 DOE Storage Compliance Assessment information:

- Assessment has been completed. Reference to most recent assessment: A-01-OPD-TANKFARM-011
- Assessment has been scheduled. Scheduled date: Planned for 12/2001
- Other. Explain:

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

M-45-00

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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:

2.11 Is further characterization necessary?

- Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

No further characterization for waste designation and/or LDR is necessary for storage. Further characterization to support waste treatment and other issues is planned. Waste is sampled and characterized per RPP-5832, Fiscal Year 2001 Tank Characterization Technical Sampling Basis and Waste Information Requirements document, 8/2000 (WIRD document)

If yes, provide Tri-Party Agreement milestone number(s): M-44-00

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

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 NA: NA

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

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, etc.):

3.3 Waste minimization schedule

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

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Plant/unit name: SST/SST-C **Waste stream** 241-C
 Treatability/aggregated group identifier SST Waste
 Treatability/aggregated group name: Single-shell tank system

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

NA

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):

C Farm contains non-complexed wastes, dilute complexed waste and complexed concentrate waste. This is mostly solid wastes of sludge and saltcake with interstitial liquids, and liquid layered over solids.

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 a variety of analytical, decladding, and separation processes. Four basic chemical processing operations were the source of radioactive waste solutions transferred to the SST system. These processes were the Bismuth Phosphate Process, the Tributyl Phosphate process, the REDOX process and the PUREX process. The liquid wastes were made alkaline before storage.

1.3.3 Source of the hazardous constituents

Waste is from facility operations, and maintenance; and laboratories, including analytical laboratories and R&D work.

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

Process Knowledge, and Tank Characterization Reports.

1.3.5 Additional notes:

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

2.1 Current storage method

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

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET**2.1.1 How was the waste managed prior to storage?**

Wastes were managed at the specific operating facility.

2.1.2 Timeframe when waste was placed into storage:

From 1945 to 1980.

2.2 Inventory locations:

Building/room number	Number of containers/tanks
241-C	12 Tanks
	4 Small Tanks
	Diversion Boxes
	Catch Tank
	French Drain
	Ancillary Equip

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 7000

Date of inventory values: 12/31/2000

Comments on waste inventory: The volume is rounded to the nearest 1,000. 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.

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: _____

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year m3 and/or kg

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2001	0.000
2002	0.000
2003	0.000
2004	0.000
2005	0.000
Totals	0.000

2.7 DOE Storage Compliance Assessment information:

- Assessment has been completed. Reference to most recent assessment: A-01-OPD-TANKFARM-011
- Assessment has been scheduled. Scheduled date: Planned for 12/2001
- Other. Explain:

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

M-45-00

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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:

2.11 Is further characterization necessary?

- Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

No further characterization for waste designation and/or LDR is necessary for storage. Further characterization to support waste treatment and other issues is planned. Waste is sampled and characterized per RPP-5832, Fiscal Year 2001 Tank Characterization Technical Sampling Basis and Waste Information Requirements Document, 8/2000 (WIRD document)

If yes, provide Tri-Party Agreement milestone number(s): M-44-00

2.12 Other key assumptions related to storage, inventory, and generation information:**3.0 WASTE MINIMIZATION****3.1 Has a waste minimization assessment been completed for this stream?**

- Yes No

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

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 NA: NA

- 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, etc.):**

3.3 Waste minimization schedule

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

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.1.2 Timeframe when waste was placed into storage:

From 1946 to 1986

2.2 Inventory locations:

Building/room number	Number of containers/tanks
244-CR	4 Tanks
	Ancillary Equip

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 161

Date of inventory values: 12/31/2000

Comments on waste inventory: The volume is rounded to the nearest cubic meter. Tank volumes for this facility were taken from HNF-SD-WM-SAR-067, Rev 2, "Tank Farms Final Safety Analysis Report".

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:

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

2.7 DOE Storage Compliance Assessment information:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

- Assessment has been completed. Reference to most recent assessment:
- Assessment has been scheduled. Scheduled date:
- Other. Explain: Not scheduled at this time

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

None

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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 Is further characterization necessary?

- Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

No further characterization for waste designation and/or LDR is necessary for storage. Further characterization to support waste treatment and other issues is planned. Waste is sampled and characterization per RPP-5832, Fiscal Year 2001 Tank Characterization Technical Sampling Basis and Waste Information Requirements Document, 8/200 (WIRD document).

If yes, provide Tri-Party Agreement milestone number(s): M-44-00

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

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 NA: This steam is

no longer
generated.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

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, etc.):

3.3 Waste minimization schedule

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

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

From 1945 to 1995

2.2 Inventory locations:

Building/room number	Number of containers/tanks
241-Z-8	Silica Slurry Tank
244-TXR	Vault (3 tanks)
244-BXR	Vault (4 tanks)
216-BY-201	Settling tank
242-TA-RI	Receiving Vault
231-W-151	2 tanks
200-W-7	Catch Tank
242-T-135	Storage Tank

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 132
 Date of inventory values: 12/31/2000
 Comments on waste inventory: The volume is rounded to the nearest cubic meter

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:

2.5 Planned management areas for storage of this waste: Current location CWC DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	<u>0.000</u>		

2.7 DOE Storage Compliance Assessment information:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Assessment has been completed. Reference to most recent assessment:

Assessment has been scheduled. Scheduled date:

Other. Explain: Not scheduled at this time

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

M-45-00

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

If further characterization is required before acceptance into the DST system, it will be performed per Tank Farms Characterization protocols.

If yes, provide Tri-Party Agreement milestone number(s):

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

The IMUSTs listed here are those IMUSTs which do not have strong ties to a specific farm. There are other tanks within the Tank Farm system which are considered IMUSTs, however, they are listed with the specific farm they supported.

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 NA: NA

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

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, etc.):

3.3 Waste minimization schedule

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

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET**1.0 WASTE STREAM IDENTIFICATION AND SOURCE**

1.1 Plant/unit name: SST/SST-S **Waste stream** 241-S
 Treatability/aggregated group identifier SST Waste
 Treatability/aggregated group name: Single-shell tank syste

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

None

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):**

S Farm contains non-complexed wastes and Double-Shell slurry feed. This is mixed waste which is saltcake and sludge with interstitial liquid and liquid layered over solids.

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 a variety of analytical, decladding, and separation processes. Four basic chemical processing operations were the source of radioactive waste solutions transferred to the SST system. These processes were the Bismuth Phosphate process, the Tributyl Phosphate process, the REDOX process and the PUREX process. The liquid wastes were made alkaline before storage.

1.3.3 Source of the hazardous constituents

Waste is from facility operations and maintenance, and laboratories, including analytical laboratories and R&D work.

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

Process knowledge and Tank Characterization Reports.

1.3.5 Additional notes:**2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION****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?

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Wastes were managed at the specific operating facility

2.1.2 Timeframe when waste was placed into storage:

From 1951 to 1980

2.2 Inventory locations:

Building/room number	Number of containers/tanks
241-S	12 Tanks
	Diversion Boxes
	Catch Tanks
	Valve Pits
	Ancillary Equip

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 19000

Date of inventory values: 12/31/2000

Comments on waste inventory: The volume is rounded to the nearest 1,000. 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.

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:

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
_____	_____	_____	_____

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2001	0.000
2002	0.000
2003	0.000
2004	0.000
2005	0.000
Totals	0.000

2.7 DOE Storage Compliance Assessment information:

- Assessment has been completed. Reference to most recent assessment: A-01-OPD-TANKFARM-011
- Assessment has been scheduled. Scheduled date: Planned for 12/2001
- Other. Explain:

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

M-45-00

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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:

2.11 Is further characterization necessary?

- Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

No further characterization for waste designation and/or LDR is necessary for storage. Further characterization to support waste treatment and other issues is planned. Waste is sampled and characterized per RPP-5832, Fiscal Year 2001 Tank Characterization Technical Sampling Basis and Waste Information Requirements Document, 8/2000 (WIRD document)

If yes, provide Tri-Party Agreement milestone number(s): M-44-00

2.12 Other key assumptions related to storage, inventory, and generation information:**3.0 WASTE MINIMIZATION****3.1 Has a waste minimization assessment been completed for this stream?**

- Yes No

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

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 NA: NA

- 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, etc.):**

3.3 Waste minimization schedule

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

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Plant/unit name: SST/SST-SX **Waste stream** 241-SX
 Treatability/aggregated group identifier SST Waste
 Treatability/aggregated group name: Single-shell tank system

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

None

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):

SX Farm contains non-complexed waste, Double-Shell slurry feed, and dilute complexed waste. This is mixed waste which is saltcake and sludge with interstitial liquids, and liquid wastes layered over saltcake.

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 a variety of analytical, decladding, and separation processes. Four basic chemical processing operations were the source of radioactive waste solutions transferred to the SST system. These processes were the Bismuth Phosphate process, the Tributyl Phosphate process, the REDOX process and the PUREX process. The liquid wastes were made alkaline before storage.

1.3.3 Source of the hazardous constituents

Waste is from facility operations and maintenance, and laboratories, including analytical laboratories and R&D work

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

Process knowledge and Tank Characterization Reports

1.3.5 Additional notes:

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

2.1 Current storage method

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

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET**2.1.1 How was the waste managed prior to storage?**

Wastes were managed at the specific operating facility

2.1.2 Timeframe when waste was placed into storage:

From 1954 to 1980

2.2 Inventory locations:

Building/room number	Number of containers/tanks
241-SX	15 tanks Diversion Boxes Catch Tank Valve Pits Ancillary Equip

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 14000

Date of inventory values: 12/31/2000

Comments on waste inventory: The volume is rounded to the nearest 1,000. 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.

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: _____

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year m3 and/or kg

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2001	0.000
2002	0.000
2003	0.000
2004	0.000
2005	0.000
Totals	0.000

2.7 DOE Storage Compliance Assessment information:

- Assessment has been completed. Reference to most recent assessment: A-01-OPD-TANKFARM-011
- Assessment has been scheduled. Scheduled date: Planned for 12/2001
- Other. Explain:

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

M-45-00

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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:

2.11 Is further characterization necessary?

- Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

No further characterization for waste designation and/or LDR is necessary for storage. Further characterization to support waste treatment and other issues is planned. Waste is sampled and characterized per RPP-5832, Fiscal Year 2001 Tank Characterization Technical Sampling Basis and Waste Information Requirements Document, 8/2000 (WIRD document).

If yes, provide Tri-Party Agreement milestone number(s): M-44-00

2.12 Other key assumptions related to storage, inventory, and generation information:**3.0 WASTE MINIMIZATION****3.1 Has a waste minimization assessment been completed for this stream?**

- Yes No

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

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 NA: NA

- 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, etc.):**

3.3 Waste minimization schedule

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

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET**1.0 WASTE STREAM IDENTIFICATION AND SOURCE**

1.1 Plant/unit name: SST/SST-T **Waste stream** 241-T
 Treatability/aggregated group identifier SST Waste
 Treatability/aggregated group name: Single-shell tank system

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

None

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):**

T Farm contains non-complexed wastes. This is mixed waste which is sludge and saltcake, with some interstitial liquid.

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

The waste was generated as a byproduct of processing spent nuclear fuel, and a variety of analytical, decladding, and separation processes. Four basic chemical processing operations were the source of radioactive waste solutions transferred to the SST system. These processes were the Bismuth Phosphate process, the Tributyl Phosphate process, the REDOX process and the PUREX process. The liquid wastes were made alkaline before storage.

1.3.3 Source of the hazardous constituents

Waste is from facility operations and maintenance, and laboratories, including analytical laboratories and R&D work.

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

Process knowledge, and Tank Characterization Reports

1.3.5 Additional notes:**2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION****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?

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Wastes were managed at the specific operating facility.

2.1.2 Timeframe when waste was placed into storage:

From 1945 to 1979

2.2 Inventory locations:

Building/room number	Number of containers/tanks
241-T	12 Tanks
	4 Small Tanks
	Diversion Boxes
	Catch Tanks
	Storage Tank
	Receiving Vault
	French Drain
	Ancillary Equip

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 7000

Date of inventory values: 12/31/2000

Comments on waste inventory: The volume is rounded to the nearest 1,000. 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 round errors.

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:

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2001	0.000
2002	0.000
2003	0.000
2004	0.000
2005	0.000
Totals	0.000

2.7 DOE Storage Compliance Assessment information:

- Assessment has been completed. Reference to most recent assessment: A-01-OPD-TANKFARM-011
- Assessment has been scheduled. Scheduled date: Planned for 12/2001
- Other. Explain:

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

M-45-00

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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:

2.11 Is further characterization necessary?

- Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

No further characterization for waste designation and/or LDR is necessary for storage. Further characterization to support waste treatment and other issues is planned. Waste is sampled and characterized per RPP-5832, Fiscal Year 2001 Tank Characterization Technical Sampling Basis and Waste Information Requirements Document, 8/2000 (WIRD document).

If yes, provide Tri-Party Agreement milestone number(s): M-44-00

2.12 Other key assumptions related to storage, inventory, and generation information:**3.0 WASTE MINIMIZATION****3.1 Has a waste minimization assessment been completed for this stream?**

- Yes No

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

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 NA: NA

- 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, etc.):**

3.3 Waste minimization schedule

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

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Wastes were managed at the specific operating facility.

2.1.2 Timeframe when waste was placed into storage:

From 1948 to 1980.

2.2 Inventory locations:

Building/room number	Number of containers/tanks
241-TX	18 Tanks Diversion Boxes Catch Tanks Ancillary Equip

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 26000

Date of inventory values: 12/31/2000

Comments on waste inventory: The volume is rounded to the nearest 1,000. Tank volume 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.

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:

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Totals 0.000

2.7 DOE Storage Compliance Assessment information:

- Assessment has been completed. Reference to most recent assessment: A-01-OPD-TANKFARM-011
- Assessment has been scheduled. Scheduled date: Planned for 12/2001
- Other. Explain:

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

M-45-00

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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:

2.11 Is further characterization necessary?

- Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

No further characterization for waste designation and/or LDR is necessary for storage. Further characterization to support waste treatment and other issues is planned. Waste is sampled and characterized per RPP-5832, Fiscal Year 2001 Tank Characterization Technical Sampling Basis and Waste Information Requirements Document, 8/2000 (WIRD document).

If yes, provide Tri-Party Agreement milestone number(s): M-44-00

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

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

NA

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, etc.):

3.3 Waste minimization schedule

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

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Wastes were managed at the specific operating facility.

2.1.2 Timeframe when waste was placed into storage:

From 1952 to 1980

2.2 Inventory locations:

Building/room number	Number of containers/tanks
241-TY	6 Tanks Diversion Boxes Catch Tanks Ancillary Equip

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 3000

Date of inventory values: 12/31/2000

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

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:

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Totals 0.000

2.7 DOE Storage Compliance Assessment information:

- Assessment has been completed. Reference to most recent assessment: A-01-OPD-TANKFARM-011
- Assessment has been scheduled. Scheduled date: Planned for 12/2001
- Other. Explain:

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

M-45-00

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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:

2.11 Is further characterization necessary?

- Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

No further characterization for waste designation and/or LDR is necessary for storage. Further characterization to support waste treatment and other issues is planned. Waste is sampled and characterized per RPP-5832, Fiscal Year 2001 Tank Characterization Technical Sampling Basis and Waste Information Requirements Document, 8/2000 (WIRD Document)

If yes, provide Tri-Party Agreement milestone number(s): M-44-00

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

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 NA:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

NA

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, etc.):

3.3 Waste minimization schedule

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

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET**1.0 WASTE STREAM IDENTIFICATION AND SOURCE**

1.1 Plant/unit name: SST/SST-U **Waste stream** 241-U
 Treatability/aggregated group identifier SST Waste
 Treatability/aggregated group name: Single-shell tank system

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

None

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):**

U Farm contains non-complexed waste, and double-shell slurry feed waste. This is mixed waste which is saltcake and sludge with some interstitial liquids. Several tanks have liquid layered over the solids.

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 a variety of analytical, decladding and separation processes. Four basic chemical processing operations were the source of radioactive waste solutions transferred to the SST system. These processes were the Bismuth Phosphate process, the Tributyl Phosphate process, the REDOX process and the PUREX process. The liquid wastes were made alkaline before storage.

1.3.3 Source of the hazardous constituents

Waste is from facility operations and maintenance, and laboratories, including analytical laboratories and R&D work.

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

Process knowledge, and Tank Characterization Reports.

1.3.5 Additional notes:**2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION****2.1 Current storage method**

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

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.1.1 How was the waste managed prior to storage?

Wastes were managed at the specific operating facility.

2.1.2 Timeframe when waste was placed into storage:

From 1945 to 1980.

2.2 Inventory locations:

Building/room number	Number of containers/tanks
241-U	12 Tanks 4 Small Tanks Diversion Boxes Catch Tank Valve Pits Ancillary Equip

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 12000

Date of inventory values: 12/31/2000

Comments on waste inventory: The volume is rounded to the nearest 1,000. 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.

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:

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2001	0.000
2002	0.000
2003	0.000
2004	0.000
2005	0.000
Totals	0.000

2.7 DOE Storage Compliance Assessment information:

- Assessment has been completed. Reference to most recent assessment: A-01-OPD-TANKFARM-011
- Assessment has been scheduled. Scheduled date: Planned for 12/2001
- Other. Explain:

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

M-45-00

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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:

2.11 Is further characterization necessary?

- Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

No further characterization for waste designation and/or LDR is necessary for storage. Further characterization to support waste treatment and other issues is planned. Waste is sampled and characterized per RPP-5832, Fiscal Year 2001 Tank Characterization Technical Sampling Basis and Waste Information Requirements Document, 8/2000 (WIRD document)

If yes, provide Tri-Party Agreement milestone number(s): M-44-00

2.12 Other key assumptions related to storage, inventory, and generation information:**3.0 WASTE MINIMIZATION****3.1 Has a waste minimization assessment been completed for this stream?**

- Yes No

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

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 NA: NA

- 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, etc.):**

3.3 Waste minimization schedule

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

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

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LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

- 1.1 Treatability group/aggregated stream identifier:** T Plant EC-1 Condenser
Treatability group/aggregated stream name: T Plant complex EC-1 condenser
- 1.2 Description of waste (list WSRd numbers for this waste stream, as applicable):**
 Large piece of steel equipment (condenser) contaminated with listed mixed waste. This is the old condenser from the 242-A Evaporator. The condenser was received at T Plant in 1995.

2.0 WASTE STREAM INVENTORY AND GENERATION

- 2.1 Current total inventory for this stream (stored waste only, not accumulation areas)**

Total volume (cubic meters): 32.110

- 2.2 Estimated generation projection by calendar year**

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	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 currently packaged/stored) Contact-handled Remote-handled

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

Dose rate is 6.0 mrem per hour.

- 3.2 Matrix characteristics (physical content)**

3.2.1 Matrix constituent table (each constituent listed should constitute at least 1% of the total volume or mass)

Matrix Parameter Category Code	Matrix Constituent Description	Typical or Range (%)
S5111	METAL DEBRIS WITHOUT PB OR CD	100

3.2.2 Confidence level for matrix characteristic data in Section 3.2.1:

Low Medium High

LDR REPORT TREATABILITY GROUP DATA SHEET

3.2.3 Comments on matrix characteristics and/or confidence level:

None

3.3 Regulated contaminated characteristics

3.3.1 Wastewater/non-wastewater under RCRA

Wastewater Non-wastewater Unknown

3.3.2 Regulated contaminant 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
F001	1,1,1-Trichloroethane	Spent Solvent	Unknown	Process knowledge	Debris standards, 40 CFR 268.45
F002	Methylene Chloride	Spent Solvent	Unknown	Process knowledge	Debris standards, 40 CFR 268.45
F003	Methyl Isobutyl Ketone (1)	Spent Solvent	Unknown	Process knowledge	Debris standards, 40 CFR 268.45
F003	Acetone	Spent Solvent	Unknown	Process knowledge	Debris standards, 40 CFR 268.45
F004	Cresol/Cresylic Acid	Spent Solvent	Unknown	Process knowledge	Debris standards, 40 CFR 268.45
F005	Methyl Ethyl Ketone	Spent Solvent	Unknown	Process knowledge	Debris standards, 40 CFR 268.45

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

**If the waste is not consistent in concentration or the concentration is unknown, this may not apply. Describe in Section 3.3.6.

N/A

3.3.3 List any waste numbers from Section 3.3.2 for which the 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?

LDR REPORT TREATABILITY GROUP DATA SHEET

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 (ppm)

<50 ≥ 50 Unknown

3.3.5 What is the confidence level for the regulated contaminant characteristic data?

Low Medium High

3.3.6 Comments on regulated contaminant characteristics and/or confidence level:

None

4.0 WASTE STREAM TREATMENT**4.1 Is this 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 off site
 Treating or plan to treat on site Treatment options still being assessed

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

Treatment in accordance with alternative debris standards for macroencapsulation or microencapsulation is likely.

4.4 Treatment schedule information:

N/A

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

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:

LDR REPORT TREATABILITY GROUP DATA SHEET

N/A

4.9 Key assumptions: N/A

5.0 WASTE STREAM DISPOSAL

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

Disposal to the LLBG Subtitle-C or LLBG LLW trenches depending on the type of treatment performed.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET**1.0 WASTE STREAM IDENTIFICATION AND SOURCE**

1.1 Plant/unit name: 221-T/221-T **Waste stream** EC-1 Condenser
 Treatability/aggregated group identifier T Plant EC-1 Condenser
 Treatability/aggregated group name: T Plant complex EC-1 condenser

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):**

Large piece of steel equipment (condenser) contaminated with listed mixed waste.

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

This is the old condenser from the 242-A Evaporator. The condenser was received at T Plant in 1995.

1.3.3 Source of the hazardous constituents

The EC1 condenser was part of the 242-A Evaporator and came into direct contact while treating Tank Farm generated waste.

1.3.4 Source of 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**2.1 Current storage method**

✓ Container (pad)	Container (covered)	Container (retrievably buried)
Tank	DST	SST

Other (explain): N/A

2.1.1 How was the waste managed prior to storage?

Condenser was part of the treatment process at the 242-A Evaporator. When this condenser was removed from service, arrangements were made to ship to the T Plant Complex for storage and eventual treatment.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.1.2 Timeframe when waste was placed into storage:

The condenser was placed in storage in 1995.

2.2 Inventory locations:

Building/room number	Number of containers/tanks
T PLANT COMPLEX	1

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 32.11
 Date of inventory values: 12/31/2000
 Comments on waste inventory: N/A

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 management areas for storage of this waste: Current location CWC

DST Other area(s) list: N/A

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

2.7 DOE Storage Compliance Assessment information:

- Assessment has been completed. Reference to most recent assessment: Oct. 2000, A&E-00-ASS-07
 Assessment has been scheduled. Scheduled date: Assessment currently scheduled for July 200
 Other. Explain: N/A

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

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

N/A

If yes, provide Tri-Party Agreement milestone number(s): N/A

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

N/A

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 NA: 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, etc.):

N/A

3.3 Waste minimization schedule

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

0

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
_____	_____	_____	_____

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2001	0.000
2002	0.000
2003	0.000
2004	0.000
2005	0.000
Totals	<u>0.000</u>

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/aggregated stream identifier:** TRUM-BOX
- Treatability group/aggregated stream name:** M-91 T Plant TRUM, large boxed
- 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 iron-based metal, plastic/polyurethane, wood, paper, filters, soil, miscellaneous/unknown/other, rags, lead, Plexiglas, Styrofoam, anti-corrosive radpad, asbestos, rubber, glass, absorbent/kitty litter, cement and concrete.

2.0 WASTE STREAM INVENTORY AND GENERATION

- 2.1 Current total inventory for this stream (stored waste only, not accumulation areas)**

Total volume (cubic meters): 152.196

- 2.2 Estimated generation projection by calendar year**

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	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 currently packaged/stored) Contact-handled Remote-handled

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

Each container of waste has more than 100 nCi/g of TRU nuclide activity. The characteristics of non-TRU radioactivity vary considerably.

- 3.2 Matrix characteristics (physical content)**

3.2.1 Matrix constituent table (each constituent listed should constitute at least 1% of the total volume or mass)

Matrix Parameter Category Code	Matrix Constituent Description	Typical or Range (%)
U9999	UNKNOWN/OTHER MATRIX	5
S5400	HETEROGENEOUS DEBRIS	8

LDR REPORT TREATABILITY GROUP DATA SHEET

Matrix Parameter Category Code	Matrix Constituent Description	Typical or Range (%)
S5300	ORGANIC DEBRIS	53
S5100	INORGANIC DEBRIS	29
S4200	SOIL/DEBRIS	5

3.2.2 Confidence level for matrix characteristic data in Section 3.2.1:

Low Medium High

3.2.3 Comments on matrix characteristics and/or confidence level:

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 box acceptable to the Waste Isolation Pilot Plant. Most of the waste is TRU contaminated metals which are also contaminated with Di-n-octyl phthalate.

3.3 Regulated contaminated characteristics

3.3.1 Wastewater/non-wastewater under RCRA

Wastewater Non-wastewater Unknown

3.3.2 Regulated contaminant 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 Charac.	NA	***	***	Remove characteristic (1)
D005	Barium	NA	***	***	Exempt (61 FR 60704)
D006	Cadmium	NA	***	***	Exempt (61 FR 60704)
D007	Chromium	NA	***	***	Exempt (61 FR 60704)
D008	Lead	NA	***	***	Exempt (61 FR 60704)
D009	Mercuric Oxide	NA	***	***	Exempt (61 FR 60704)
D009	Mercury	NA	***	***	Exempt (61 FR 60704)
D011	Silver	NA	***	***	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
D019	Carbon Tetrachloride	NA	***	***	Exempt (61 FR 60704)
F003	Methyl Isobutyl Ketone	Spent Solvent	***	***	Exempt (61 FR 60704)
F005	Methyl Ethyl Ketone	Spent solvent	***	***	Exempt (61 FR 60704)
WP02	Persistent, DW	NA	***	***	N/A
WSC2	Solid Corrosive	NA	***	***	N/A
WT01	Toxic, EHW	NA	***	***	N/A
WT02	Toxic, DW	NA	***	***	N/A

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

**If the waste is not consistent in concentration or the concentration is unknown, this may not apply. Describe in Section 3.3.6.

(1) Treatment standards are based on WIPP Waste Acceptance Criteria

3.3.3 List any waste numbers from Section 3.3.2 for which the 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 (ppm)

- <50 ≥ 50 Unknown

3.3.5 What is the confidence level for the regulated contaminant characteristic data?

- Low Medium High

LDR REPORT TREATABILITY GROUP DATA SHEET

3.3.6 Comments on regulated contaminant characteristics and/or confidence level:

The number and concentration of contaminants varies greatly among the boxes. Most of the boxes contain Di-n-octyl phthalate as the single contaminant, and are not regulated by WAC 173-303. One box contain F003/F005 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 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 off site
 Treating or plan to treat on site Treatment options still being assessed

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

Wastes are planned to be treated at the proposed M91 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 only accept a box up to a size of approximately 1.9 m³.

4.4 Treatment schedule information:

The programmatic treatment schedule for large box TRUM is from 2006-2032. The schedule is subject to change as it depends on the ability of DOE to accept mixed TRU at WIPP and available funding for treatment.

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

M-91-01

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: As the M-91 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:

Waste disposed at WIPP is exempt from the LDR treatment standards

4.9 Key assumptions: None

LDR REPORT TREATABILITY GROUP DATA SHEET

5.0 WASTE STREAM DISPOSAL

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

Waste will be shipped to WIPP.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Plant/unit name: CWC/CWC, TRUM Boxes **Waste stream** TRUM Boxes
Treatability/aggregated group identifier TRUM-BOX
Treatability/aggregated group name: M-91 T Plant TRUM, large boxed

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

NA

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 absorbents. The material was contaminated with TRU isotopes from facility operations and R&D processes. The primary component in the boxes is metal that will 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 is generated from the Plutonium Finishing Plant, Purex Canyon and Service Facility, Radiochemistry Building, Critical Mass Storage, and Materials Engineering Laboratory. The waste has been generated in intermittently since 1989.

1.3.3 Source of the hazardous constituents

Radiochemical operations around the site and D&D activities.

1.3.4 Source of 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

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.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.1.2 Timeframe when waste was placed into storage:

1989-2000.

2.2 Inventory locations:

Building/room number	Number of containers/tanks
CWC	Approx. 35

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 152.196

Date of inventory values: 01/05/2001

Comments on waste inventory: Inventory based on data for containers residing at the CWC as reported in the Solid Waste Information Tracking System (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? NA

When is this capacity expected to be reached? NA

Bases and assumptions used: No issues with CWC storage based on 20 year waste generation forecast.

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed. Reference to most recent assessment: NA

Assessment has been scheduled. Scheduled date: September 2001

Other. Explain:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

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

M-91-01

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

Yes No

If yes, summarize releases and quantities and provide date:

NA

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

Yes No

If yes, explain: NA

2.11 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

Waste that is to be sent to WIPP will need to be characterized to assure it meets the WIPP Waste Acceptance Criteria. The schedule for this is beyond 2006.

If yes, provide Tri-Party Agreement milestone number(s): M-91-01

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

Inventory based on data for containers residing at the CWC as reported in the Solid Waste Information Tracking System (SWITS).

3.0 WASTE MINIMIZATION

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

Yes No

If yes, provide date assessment conducted:

NA

If yes, provide document number or other identification:

NA

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

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, etc.):

These activities occur before the wastes are shipped to CWC. There are few opportunities to reduce

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

waste volumes placed into storage.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year (volume or mass): 0

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

There is no projected waste generation.

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LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

- 1.1 **Treatability group/aggregated stream identifier:** TRUM-CH
Treatability group/aggregated stream name: WRAP TRUM
- 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, conweb pads, absorbent/kitty litter, filters, lead shielding, universal polypropylenes, anti-corrosive radpad, carbon steel, fiberglass, brick/firebrick, plastic liner, shielding, concrete, animal waste, paints, ceramics, sludges, asbestos, aluminum, sand equipment, diatomaceous earth, resins, copper metal, lead, water, floor sweeps, batteries, leather, liquid, teflon, cork, cotton/kotex, light bulbs, urethane and wax.

2.0 WASTE STREAM INVENTORY AND GENERATION

- 2.1 **Current total inventory for this stream (stored waste only, not accumulation areas)**

Total volume (cubic meters): 223.619

- 2.2 **Estimated generation projection by calendar year**

Year	m3	and/or	kg
2001	349.868		
2002	352.500		
2003	365.684		
2004	658.548		
2005	766.400		
Totals	2,493.000		

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 currently packaged/stored)** Contact-handled Remote-handled

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

Each container of waste has more than 100 nCi/g of TRU nuclide activity. Non-TRU activity is either not reported or in trace quantities.

- 3.2 **Matrix characteristics (physical content)**

3.2.1 **Matrix constituent table (each constituent listed should constitute at least 1% of the total volume or mass)**

Matrix Parameter Category Code	Matrix Constituent Description	Typical or Range (%)
--------------------------------------	--------------------------------	-------------------------

LDR REPORT TREATABILITY GROUP DATA SHEET

X7200	ELEMENTAL HAZARDOUS METALS	5
U9999	UNKNOWN/OTHER MATRIX	5
S5400	HETEROGENEOUS DEBRIS	1
S3100	INORGANIC HOMOGENEOUS SOLIDS	5
S5300	ORGANIC DEBRIS	60
S5100	INORGANIC DEBRIS	16
S4200	SOIL/DEBRIS	8

3.2.2 Confidence level for matrix characteristic data in Section 3.2.1:

Low Medium High

3.2.3 Comments on matrix characteristics and/or confidence level:

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

3.3 Regulated contaminated characteristics

3.3.1 Wastewater/non-wastewater under RCRA

Wastewater Non-wastewater Unknown

3.3.2 Regulated contaminant 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 Charac.	NA	***	***	Remove characteristic (1)
D002	Corrosive Charac.	NA	***	***	Remove characteristic (1)
D004	Arsenic	NA	***	***	Exempt (61 FR 60704)
D005	Barium	NA	***	***	Exempt (61 FR 60704)
D006	Cadmium	NA	***	***	Exempt (61 FR 60704)
D007	Chromium	NA	***	***	Exempt (61 FR 60704)
D008	Lead	NA	***	***	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
D009	Mercury	NA	***	***	Exempt (61 FR 60704)
D010	Selenium	NA	***	***	Exempt (61 FR 60704)
D011	Silver	NA	***	***	Exempt (61 FR 60704)
D014	Methoxychlor	NA	***	***	Exempt (61 FR 60704)
D018	Benzene	NA	***	***	Exempt (61 FR 60704)
D019	Carbon Tetrachloride	NA	***	***	Exempt (61 FR 60704)
D027	1,4-Dichlorobenzene	NA	***	***	Exempt (61 FR 60704)
D028	1,2-Dichloroethane	NA	***	***	Exempt (61 FR 60704)
D029	1,1-Dichlorethylene	NA	***	***	Exempt (61 FR 60704)
D030	2,4-Dinitrotoluene	NA	***	***	Exempt (61 FR 60704)
D031	Heptachlor	NA	***	***	Remove characteristic (1)
D033	Hexachlorobutadiene	NA	***	***	Remove characteristic (1)
D034	Hexachloroethane	NA	***	***	Exempt (61 FR 60704)
D035	Methyl Ethyl Ketone	NA	***	***	Exempt (61 FR 60704)
D036	Nitrobenzene	NA	***	***	Exempt (61 FR 60704)
D040	Trichloroethylene	NA	***	***	Exempt (61 FR 60704)
D043	Vinyl chloride	NA	***	***	Exempt (61 FR 60704)
F001	1,1,1-Trichloroethane	Spent Solvent	***	***	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
F001	Trichloroethylene	Spent Solvent	***	***	Exempt (61 FR 60704)
F002	Trichloroethylene	Spent Solvent	***	***	Exempt (61 FR 60704)
F003	Xylene	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)
P015	Beryllium	NA	***	***	Exempt (61 FR 60704)
WP01	Persistent, EHW	NA	***	***	N/A
WP02	Persistent, DW	NA	***	***	N/A
WSC2	Solid Corrosive	NA	***	***	N/A
WT01	Toxic, EHW	NA	***	***	N/A
WT02	Toxic, DW	NA	***	***	N/A

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

**If the waste is not consistent in concentration or the concentration is unknown, this may not apply. Describe in Section 3.3.6.

(1) Treatment standards are based on WIPP Waste Acceptance Criteria.

3.3.3 List any waste numbers from Section 3.3.2 for which the 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?

LDR REPORT TREATABILITY GROUP DATA SHEET

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 (ppm)

<50 ≥ 50 Unknown

3.3.5 What is the confidence level for the regulated contaminant characteristic data?

Low Medium High

3.3.6 Comments on regulated contaminant characteristics and/or confidence level:

The list and degree 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 stream currently being treated?** Yes No

If yes, provide details: Treatment and characterization at WRAP to conform to applicable WIPP Waste Acceptance Criteria.

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 off site
 Treating or plan to treat on site Treatment options still being assessed

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

TRUM does not require LDR treatment, but may require repackaging, solidification, etc., to meet WIPP Waste Acceptance Criteria. WRAP has a design capacity of 4725 drums (983 m³) per year on a single shift.

4.4 Treatment schedule information:

The programmatic treatment schedule for mixed and non-mixed TRU waste is from 1999 to 2032. The schedule is subject to change as it depends on the ability of DOE to accept mixed TRU at WIPP and available funding for treatment.

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

(None)

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: Best management practices.

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment:

None planned.

4.9 Key assumptions: None

5.0 WASTE STREAM DISPOSAL

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

Waste will be shipped to WIPP for disposal in a deep geologic repository.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Plant/unit name: 200 Area Investigation/200 Area Investigation **Waste stream** 200 Area Investigation

Treatability/aggregated group identifier TRUM-CH

Treatability/aggregated group name: WRAP TRUM

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

Not available.

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 site investigations planned 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 hazardous constituents

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

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

Analytical data and process knowledge

1.3.5 Additional notes:

Site investigations are scheduled to begin in the 200 Area in Fiscal Year 2001

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

2.1 Current storage method

- Container (pad) Container (covered) Container (retrievably buried)
- Tank DST SST
- Other (explain): No waste has been generated to date

2.1.1 How was the waste managed prior to storage?

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.1.2 Timeframe when waste was placed into storage:

N/A

2.2 Inventory locations:

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 0
 Date of inventory values: 12/31/2000
 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? _____

When is this capacity expected to be reached? _____

Bases and assumptions used:

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	1.000		
2002	1.000		
2003	0.000		
2004	0.000		
2005	0.300		
Totals	2.300		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed. Reference to most recent assessment:

Assessment has been scheduled. Scheduled date:

Other. Explain: Not scheduled at this time

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

N/A

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

Yes No

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

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 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

Waste stream will be generated to better characterize waste sites in the 200 Area of the Hanford Site

If yes, provide Tri-Party Agreement milestone number(s): M-13-00O and M-15-00C

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

The forecasted waste volumes are subject to change upon approval of the Operable Unit Work Plans. This waste stream only addresses the projected CH-TRU. Low level waste meeting the ERDF Waste Acceptance Criteria will be disposed at ERDF, and is reported in the ERDF Direct Disposal 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 NA: 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, etc.):

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

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year (volume or mass): 0

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2001	0.000
2002	0.000
2003	0.000
2004	0.000
2005	0.000
Totals	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 **Plant/unit name:** 233-S/233-S **Waste stream** 233-S
Treatability/aggregated group identifier TRUM-CH
Treatability/aggregated group name: WRAP TRUM

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

BHIX-20K-0001-01, BHIX-400-0001-00, BHIX401-0001-00, BHIX-402-0001-00, BHIX-403-0001-00
 BHIX-404-0001-00, BHIX-420-0001-00, BHIX-421-0001-00, BHIX-422-0001-00, BHIX-422-0001-00,
 BHIX-921-0001-00

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):**

Demolition waste

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

Waste generated as a result of facility demolition

1.3.3 **Source of the hazardous constituents**

Hazardous constituents were introduced to the facility as part of plant operations

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

Process knowledge and analytical data

1.3.5 **Additional notes:**

This waste stream only accounts for the TRU waste that will be shipped to CWC for storage. The waste that meets the ERDF Waste Acceptance Criteria is included in the ERDF location specific data sheets.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

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 placed into temporary storage in 2000

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.1.2 Timeframe when waste was placed into storage:

Calendar Year 2000

2.2 Inventory locations:

Building/room number	Number of containers/tanks
4 CONEX BOXES	44 drums
1 WASTE TENTS	8 drums

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 12

Date of inventory values: 12/31/2000

Comments on waste inventory: TRU waste with PCB contamination

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:

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year	m ³	and/or	kg
2001	100.000		
2002	100.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	200.000		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed. Reference to most recent assessment:

Assessment has been scheduled. Scheduled date:

Other. Explain: Not scheduled at this time

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

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

DOE is completing demolition of this facility under an Action Memorandum from EPA.

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

Characterization is ongoing and will be completed in early 2002.

If yes, provide Tri-Party Agreement milestone number(s): Demolitioned under an Action Memorandum

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

Demolition project is scheduled to be completed by June 2002

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 NA: Ongoing

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, etc.):

Waste is segregated to minimize the volume of TRU waste generated.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year (volume or mass): 0

3.3.2 Projected future waste volume reductions:

Year m3 and/or kg

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2001	0.000
2002	0.000
2003	0.000
2004	0.000
2005	0.000
Totals	0.000

3.3.3 Bases and assumptions used in above estimates:

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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 into storage:

1987-2000

2.2 Inventory locations:

Building/room number	Number of containers/tanks
CWC	Approx. 862

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 183.4556

Date of inventory values: 01/05/2001

Comments on waste inventory: Inventory based on data for containers residing at the CWC as reported in the Solid Waste Information Tracking System (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? NA

When is this capacity expected to be reached? NA

Bases and assumptions used: No issues with CWC storage based on 20 year waste generation forecast.

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	1.800		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	1.800		

2.7 DOE Storage Compliance Assessment information:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

- Assessment has been completed. Reference to most recent assessment: NA
- Assessment has been scheduled. Scheduled date: September 2001
- Other. Explain:

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

M-91-01

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

- Yes No

If yes, summarize releases and quantities and provide date:

NA

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

- Yes No

If yes, explain: NA

2.11 Is further characterization necessary?

- Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

Waste that is sent to WIPP will need to be characterized to assure it meets the WIPP Waste Acceptance Criteria. This is a ongoing activity at the WRAP facility.

If yes, provide Tri-Party Agreement milestone number(s): None

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

Inventory based on data for containers residing at the CWC as reported in the Solid Waste Information Tracking System (SWITS). The waste generation projections are for waste expected to be received from Missouri University Research Reactor.

3.0 WASTE MINIMIZATION

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

- Yes No

If yes, provide date assessment conducted: NA

If yes, provide document number or other identification: NA

If no, provide date assessment will be completed, or if waste stream is no longer generated then indicate NA: None

planned -
waste not
generated at

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

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, etc.):**

These activities occur before the wastes are 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 (volume or mass):**

0

- 3.3.2 Projected future waste volume reductions:**

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

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

There is no projected waste generation by CWC.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.1.2 Timeframe when waste was placed into storage:

The wastes currently stored at HWTU were placed in storage between 05/07/1993 and 12/05/2000.

2.2 Inventory locations:

Building/room number	Number of containers/tanks
325/520	4
325/528	82
325/SAL	9

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 1.473

Date of inventory values: 01/22/2001

Comments on waste inventory: This represents the TRU mixed waste currently in these storage locations. TRU 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? _____

When is this capacity expected to be reached? _____

Bases and assumptions used:

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	9.300		
2002	2.100		
2003	2.100		
2004	2.100		
2005	2.100		
Totals	17.700		

2.7 DOE Storage Compliance Assessment information:

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Assessment has been completed. Reference to most recent assessment:

Assessment has been scheduled. Scheduled date:

October 2001

Other. Explain:

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

No TPA milestone is directly associated with storage of this waste stream.

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

If yes, provide Tri-Party Agreement milestone number(s):

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

NA

3.0 WASTE MINIMIZATION**3.1 Has a waste minimization assessment been completed for this stream?**

Yes No

If yes, provide date assessment conducted:

NA

If yes, provide document number or other identification:

NA

If no, provide date assessment will be completed, or if waste stream is no longer generated then indicate NA: 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, etc.):

Laboratory staff routinely evaluate their processes to determine if less reagents or less hazardous

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

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. Additionally, some tank waste contaminated debris streams have been compacted to minimize the number of containers shipped to CWC.

3.3 Waste minimization schedule

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

0

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	8.200		
2002	1.800		
2003	1.800		
2004	1.800		
2005	1.800		
Totals	15.400		

3.3.3 Bases and assumptions used in above estimates:

Any reductions indicated reflect only those achieved prior to shipment to CWC, 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

Tank DST SST

Other (explain): Waste is currently disposed of in a retrievably buried configuration. It will be generated as part of retrieval.

2.1.1 How was the waste managed prior to storage?

NA. Waste is currently disposed of.

2.1.2 Timeframe when waste was placed into storage:

NA. Disposed of between 1980-1987.

2.2 Inventory locations:

Building/room number	Number of containers/tanks
LLBG	>10,000 drums

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 0

Date of inventory values: 12/31/2000

Comments on waste inventory: Waste inventory is currently disposed of.

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:

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	93.000		
2002	187.000		
2003	312.000		
2004	546.000		
2005	764.000		
Totals	1,902.000		

2.7 DOE Storage Compliance Assessment information:

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Assessment has been completed. Reference to most recent assessment:

Assessment has been scheduled. Scheduled date:

October 2001

Other. Explain:

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

M-91-04 (completed); M-91-07

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

Waste will be assayed as it is retrieved to verify that it is TRU. Waste that is sent to WIPP will need to be characterized to assure that it meets the WIPP Waste Acceptance Criteria.

If yes, provide Tri-Party Agreement milestone number(s): M-91-07

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 suspect-TRU drums will assay as TRU and require retrieval.

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 NA: 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, etc.):

No waste minimization assessment is planned because the process is not generating and packaging

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

new waste, it is retrieving waste that already exists. TRU waste will be minimized by assaying the suspect-TRU drums in the trench. Those that are low-level will remain disposed of in the LLBG.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year (volume or mass): 0

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

None.

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October 28, 1999 (per correspondence 00-OSS-273, dated April 3, 2000, S. H. Wisness, DOE to M. A. Wilson, Washington Department of Ecology)

2.2 Inventory locations:

Building/room number	Number of containers/tanks
2736-Z	189

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 0.189

Date of inventory values: 12/31/2000

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: N/A

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list: 234-5Z (Non-permitted Storage)

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	18.512		
2002	20.800		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	39.312		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed. Reference to most recent assessment:

Assessment has been scheduled. Scheduled date:

May, 2001

Other. Explain:

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

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Hanford Ash Change Request

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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:

2.11 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

Hanford Ash Change Request states there will be discussions related to the designation/characterization of the Hanford Ash. Negotiations are currently scheduled to start 11/1/2001.

If yes, provide Tri-Party Agreement milestone number(s): Hanford Ash Change Request (See above)

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:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated then indicate NA: By the end of the fiscal year

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, etc.):

PFPP 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.

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Segregation is applicable in all of these activities.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year (volume or mass): 0 m3

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

PFP is currently in a clean up and stabilization mode. Clean up and stabilization operations tend to increase production of waste. PFP has a waste minimization program and is currently undergoing a Site Strategic Pollution Prevention Opportunity Assessment, which will identify if there are further opportunities to reduce waste production or produce waste in a less hazardous form.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET**1.0 WASTE STREAM IDENTIFICATION AND SOURCE**

1.1 Plant/unit name: PFP/234-5Z, MHPP Solids **Waste stream** MHPP Solids
Treatability/aggregated group identifier TRUM-CH
Treatability/aggregated group name: WRAP TRUM

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

PFPX-20H-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):**

Maintenance waste, containers, excess PR (product receiver) cans

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

Waste from the Magnesium Hydroxide Precipitation Process (MHPP)

1.3.3 Source of the hazardous constituents

Material contaminated with hazardous constituents by the process

1.3.4 Source of 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**2.1 Current storage method** Container (pad) Container (covered) Container (retrievably buried) Tank DST SST Other (explain): Waste is not yet generated, therefore it is not in storage. Material is contained in 600 containers.**2.1.1 How was the waste managed prior to storage?**

As material for recovery via MHPP

2.1.2 Timeframe when waste was placed into storage:

Not waste until it exits the MHPP

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Inventory locations:

Building/room number	Number of containers/tanks
-------------------------	-------------------------------

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 0

Date of inventory values: 12/31/2000

Comments on waste inventory: Waste is not yet generated, therefore it is not in storage.
Material is contained in 600 containers.

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: Not storage. When material becomes waste it is shipped out of the plant.

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list: 234-5Z (Non-permitted Storage)

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	104.000		
2002	20.800		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	124.800		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed. Reference to most recent assessment:

Assessment has been scheduled. Scheduled date:

May, 2001

Other. Explain:

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

NONE

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

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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 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

As each batch is processed.

If yes, provide Tri-Party Agreement milestone number(s): None

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

Waste is not yet generated, therefore it is not in storage. Material is contained in 600 containers.

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 NA: By the end of

the Fiscal Year.

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, etc.):

PFP has a waste minimization program and is currently undergoing a Site Strategic Pollution Prevention Opportunity Assessment, which will identify if there are further opportunities to reduce waste production or produce waste in a less hazardous form.

3.3 Waste minimization schedule

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

0 m³

3.3.2 Projected future waste volume reductions:

Year _____ m³ and/or _____ kg

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2001	0.000
2002	0.000
2003	0.000
2004	0.000
2005	0.000
Totals	0.000

3.3.3 Bases and assumptions used in above estimates:

PFP is currently in a clean up and stabilization mode. Clean up and stabilization operations tend to increase production of waste. PFP has a waste minimization program and is currently undergoing a Site Strategic Pollution Prevention Opportunity Assessment, which will identify if there are further opportunities to reduce waste production or produce waste in a less hazardous form.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Plant/unit name: PFP/234-5Z, O/MO Residues **Waste stream** Pu Oxides/Mixed Oxides Residues

Treatability/aggregated group identifier TRUM-CH

Treatability/aggregated group name: WRAP TRUM

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

A new profile will be generated for this waste stream before processing begins.

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 oxide and mixed oxide material that has previously undergone thermal treatment and contains very little moisture and no organics.

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

Plutonium-bearing oxide and mixed oxide material that has previously undergone thermal treatment and contains very little moisture and no organics. There are three sub-categories: 1. PFP generated Oxide residues - a low-grade plutonium oxide material recovered from the RMC and PRF processes. All material was thermally stabilized prior to storage in the vaults. 2. Rocky Flats oxide - plutonium oxide residues recovered from various pyrochemical operations. Materials have been thermally stabilized to remove moisture and reactive or gas generating components. 3. Mixed oxide and alloys - scrap materials resulting from 300 Area fuel fabrication research. The material varies widely in composition. Material was originally generated as product and then later declared waste by the DOE. See section 2.1.2.

1.3.3 Source of the hazardous constituents

Feed stock contained hazardous constituents.

1.3.4 Source of 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

2.1 Current storage method

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

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

- Tank DST SST
 Other (explain):

2.1.1 How was the waste managed prior to storage?

Product in vaults or vault-like rooms as material.

2.1.2 Timeframe when waste was placed into storage:

October 28, 1999 (per correspondence 00-OSS-273, dated April 3, 2000, S. H. Wisness, DOE to M. A. Wilson, Washington Department of Ecology)

2.2 Inventory locations:

Building/room number	Number of containers/tanks
2736-Z	418

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 2.93
Date of inventory values: 12/31/2000
Comments on waste inventory: Waste is not yet generated, therefore it is not in storage. Material is contained in 418 containers.

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 management areas for storage of this waste: Current location CWC

- DST Other area(s) list: 234-5Z (Non-permitted Storage)
2736-Z (Non-permitted Storage)

- None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	24.544		
2004	62.400		
2005	0.000		
Totals	86.944		

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed. Reference to most recent assessment:

Assessment has been scheduled. Scheduled date:

May, 2001

Other. Explain:

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

NONE

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

Negotiations related to PFP transition are currently scheduled to start 11/1/2001.

If yes, provide Tri-Party Agreement milestone number(s): See above

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 NA: By the end of

the fiscal year

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

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, etc.):

PFP 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 (volume or mass): 0 m³

3.3.2 Projected future waste volume reductions:

Year	m ³	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

PFP is currently in a clean up and stabilization mode. Clean up and stabilization operations tend to increase production of waste. PFP has a waste minimization program and is currently undergoing a Site Strategic Pollution Prevention Opportunity Assessment, which will identify if there are further opportunities to reduce waste production or produce waste in a less hazardous form.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

October 28, 1999 (per correspondence 00-OSS-273, dated April 3, 2000, S. H. Wisness, DOE to M. A. Wilson, Washington Department of Ecology)

2.2 Inventory locations:

Building/room number	Number of containers/tanks
2736-Z	10 containers

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 0.01
 Date of inventory values: 12/31/2000
 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: NONE

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list: 234-5Z (Non-permitted Storage)

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	2.080		
2005	0.000		
Totals	2.080		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed. Reference to most recent assessment:

Assessment has been scheduled. Scheduled date:

May, 2001

Other. Explain:

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

NONE

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET**2.9 Has there ever been any non-permitted, unauthorized release of this stream 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 Is further characterization necessary? Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

Negotiations related to PFP transition are currently scheduled to start 11/1/2001.

If yes, provide Tri-Party Agreement milestone number(s): See above.

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 NA: By the end of
the fiscal year**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, etc.):**

PFP 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 (volume or mass):**0 m³

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET**3.3.2 Projected future waste volume reductions:**

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

PFP is currently in a clean up and stabilization mode. Clean up and stabilization operations tend to increase production of waste. PFP has a waste minimization program and is currently undergoing a Site Strategic Pollution Prevention Opportunity Assessment, which will identify if there are further opportunities to reduce waste production or produce waste in a less hazardous form.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Plant/unit name: PFP/234-5Z, Pu Misc. Residues **Waste stream** Plutonium-Bearing Misc. Residues

Treatability/aggregated group identifier TRUM-CH

Treatability/aggregated group name: WRAP TRUM

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

A new profile will be generated for this waste stream before processing begins.

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 materials from plutonium recovery processes at PFP. Items that include other compounds and other combustibles, not well characterized, grinding medium, grinding wheels, grit, graphite, Pu foil.

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

Plutonium bearing materials from plutonium recovery processes at PFP. Material was originally generated as product and then later declared waste by the DOE. See section 2.1.2.

1.3.3 Source of the hazardous constituents

Introduced during processing of material as part of process feed.

1.3.4 Source of 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

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?

Product in vaults or vault-like rooms as material.

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2.1.2 Timeframe when waste was placed into storage:

October 28, 1999 (per correspondence 00-OSS-273, dated April 3, 2000, S. H. Wisness, DOE to M. A. Wilson, Washington Department of Ecology)

2.2 Inventory locations:

Building/room number	Number of containers/tanks
2736-Z	221 Containers

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 0.221

Date of inventory values: 12/31/00

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: None

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list: 234-5Z (Non-permitted Storage)

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	45.968		
2005	0.000		
Totals	45.968		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed. Reference to most recent assessment:

Assessment has been scheduled. Scheduled date:

May, 2001

Other. Explain:

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

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NONE

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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 Is further characterization necessary? Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

Negotiations related to PFP transition are currently scheduled to start 11/1/2001.

If yes, provide Tri-Party Agreement milestone number(s): See above.

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 NA: By the end of the fiscal year

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, etc.):

PFP 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.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year (volume or mass): 0 m3

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

PPF is currently in a clean up and stabilization mode. Clean up and stabilization operations tend to increase production of waste. PPF has a waste minimization program and is currently undergoing a Site Strategic Pollution Prevention Opportunity Assessment, which will identify if there are further opportunities to reduce waste production or produce waste in a less hazardous form.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

M. A. Wilson, Washington Department of Ecology)

2.2 Inventory locations:

Building/room number	Number of containers/tanks
234-5Z	64
2736-Z	43

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 13.355

Date of inventory values: 12/31/2000

Comments on waste inventory: Material was originally contained in 160 containers in 2736-Z. 117 items have become 64 drums in 234-5Z. 43 items remain in 2736-Z.

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 management areas for storage of this waste: Current location CWC DST Other area(s) list: 234-5Z (Non-permitted Storage) None**2.6 Estimated generation projection by calendar year:**

Year	m3	and/or	kg
2001	22.256		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	22.256		

2.7 DOE Storage Compliance Assessment information: Assessment has been completed. Reference to most recent assessment: Assessment has been scheduled. Scheduled date:

May, 2001

 Other. Explain:

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

Rocky Flats Ash Change Request

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

N/A

If yes, provide Tri-Party Agreement milestone number(s): 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 NA: By the end of

the fiscal year

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, etc.):

PFM 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.

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3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year (volume or mass): 0 m3

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

PFP is currently in a clean up and stabilization mode. Clean up and stabilization operations tend to increase production of waste. PFP has a waste minimization program and is currently undergoing a Site Strategic Pollution Prevention Opportunity Assessment, which will identify if there are further opportunities to reduce waste production or produce waste in a less hazardous form.

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2.1.2 Timeframe when waste was placed into storage:

October 28, 1999 (per correspondence 00-OSS-273, dated April 3, 2000, S. H. Wisness, DOE to M. A. Wilson, Washington Department of Ecology)

2.2 Inventory locations:

Building/room number	Number of containers/tanks
2736-Z	210
234-5Z	21

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 4.585

Date of inventory values: 12/31/2000

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: NONE

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list: 234-5Z (Non-permitted Storage)
2736-Z (Non-permitted Storage)

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	0.000		
2002	20.800		
2003	27.040		
2004	0.000		
2005	0.000		
Totals	47.840		

2.7 DOE Storage Compliance Assessment information:

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Assessment has been completed. Reference to most recent assessment:

Assessment has been scheduled. Scheduled date:

May, 2001

Other. Explain:

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

NONE

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

Negotiations related to PFP transition are currently scheduled to start 11/1/2001.

If yes, provide Tri-Party Agreement milestone number(s): See above

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 NA: By the end of

the fiscal year

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, etc.):

PFP has a waste minimization program. A hierarchical approach to environmental management is

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

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 (volume or mass): 0 m³

3.3.2 Projected future waste volume reductions:

Year	m ³	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

PFP is currently in a clean up and stabilization mode. Clean up and stabilization operations tend to increase production of waste. PFP has a waste minimization program and is currently undergoing a Site Strategic Pollution Prevention Opportunity Assessment, which will identify if there are further opportunities to reduce waste production or produce waste in a less hazardous form.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Plant/unit name: WRAP/2336-W, CH TRUM **Waste stream** TRUM-CH
 Treatability/aggregated group identifier TRUM-CH
 Treatability/aggregated group name: WRAP TRUM

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

WSRds 20D and 20I

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 Plutonium Finishing Plant, 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 hazardous constituents

Radiochemical operations around the site and D&D.

1.3.4 Source of 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. LDR waste destined for WIPP is exempt from LDRs.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

2.1 Current storage method

- Container (pad) Container (covered) Container (retrievably buried)
 Tank DST SST

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

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.

2.1.2 Timeframe when waste was placed into storage:

Waste was placed into storage between 1987 and present. Drums at WRAP are undergoing verification and repackaging to meet WIPP WAC.

2.2 Inventory locations:

Building/room number	Number of containers/tanks
2336W	27

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 5.4

Date of inventory values: 01/03/2001

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 1/3/01.

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

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Totals 0.000

2.7 DOE Storage Compliance Assessment information: Assessment has been completed. Reference to most recent assessment: Assessment has been scheduled. Scheduled date:

June 2001

 Other. Explain:**2.8 Applicable Tri-Party Agreement milestones related to storage at this location:**

None

2.9 Has there ever been any non-permitted, unauthorized release of this stream to the environment? Yes No

If yes, summarize releases and quantities and provide date:

NA

2.10 Are there any plans to submit requests for variances or other exemptions related to storage? Yes No

If yes, explain: NA

2.11 Is further characterization necessary? Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

This waste is at WRAP being characterized to meet WIPP WAC requirements.

If yes, provide Tri-Party Agreement milestone number(s): None

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:

NA

If yes, provide document number or other identification:

NA

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

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

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, etc.):

This is waste generated by other facilities. However, to the extent practical, all mixed waste is segregated and packaged separately from LLW or TRU wastes. The volume of mixed waste is reduced by in-drum compaction when possible, and where it does not interfere with future treatment activities. 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 (volume or mass): 0 m3

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	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.

LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

- 1.1 **Treatability group/aggregated stream identifier:** TRUM-RH
Treatability group/aggregated stream name: M-91 T Plant 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 STREAM INVENTORY AND GENERATION

- 2.1 **Current total inventory for this stream (stored waste only, not accumulation areas)**

Total volume (cubic meters): 14.982

- 2.2 **Estimated generation projection by calendar year**

Year	m3	and/or	kg
2001	0.000		
2002	3.600		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	3.600		

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 currently packaged/stored)** Contact-handled Remote-handled

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

The waste contains TRU nuclides greater than 100 nCi/g. The waste also contain non-TRU radioactivity. Typical concentrations exceed 1000 Ci/m³ for Sr90, 1000 Ci/m³ for Y90, 1000 Ci/m³ for Cs137, and 950 Ci/m³ for Ba137m.

- 3.2 **Matrix characteristics (physical content)**

3.2.1 **Matrix constituent table (each constituent listed should constitute at least 1% of the total volume or mass)**

Matrix Parameter Category Code	Matrix Constituent Description	Typical or Range (%)
X7200	ELEMENTAL HAZARDOUS METALS	28

LDR REPORT TREATABILITY GROUP DATA SHEET

Matrix Parameter Category Code	Matrix Constituent Description	Typical or Range (%)
S5100	INORGANIC DEBRIS	60
S4200	SOIL/DEBRIS	12

3.2.2 Confidence level for matrix characteristic data in Section 3.2.1:

Low Medium High

3.2.3 Comments on matrix characteristics and/or confidence level:

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 contaminated characteristics

3.3.1 Wastewater/non-wastewater under RCRA

Wastewater Non-wastewater Unknown

3.3.2 Regulated contaminant 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
D004	Arsenic	NA	***	***	Exempt (61 FR 60704)
D005	Barium	NA	***	***	Exempt (61 FR 60704)
D006	Cadmium	NA	***	***	Exempt (61 FR 60704)
D007	Chromium	NA	***	***	Exempt (61 FR 60704)
D008	Lead	NA	***	***	Exempt (61 FR 60704)

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

**If the waste is not consistent in concentration or the concentration is unknown, this may not apply. Describe in Section 3.3.6.

(1) Treatment standards based on WIPP waste acceptance criteria

LDR REPORT TREATABILITY GROUP DATA SHEET**3.3.3 List any waste numbers from Section 3.3.2 for which the 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 (ppm)

- <50 ≥ 50 Unknown

3.3.5 What is the confidence level for the regulated contaminant characteristic data?

- Low Medium High

3.3.6 Comments on regulated contaminant characteristics and/or confidence level:

None

4.0 WASTE STREAM TREATMENT**4.1 Is this 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 off site
- Treating or plan to treat on 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-91 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 they will likely include segregation, decontamination, solidification, and repackaging. The treatment technologies and capacity of M-91 has yet to be determined.

4.4 Treatment schedule information:

The programmatic schedule for treatment of remote handled TRU waste is from 2006-2032. The schedule is subject to change as it depends on the ability of DOE to accept mixed TRU waste at WIPP

LDR REPORT TREATABILITY GROUP DATA SHEET

and available funding for treatment.

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

M-91-01

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:

None are planned.

4.9 Key assumptions: None.

5.0 WASTE STREAM DISPOSAL

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

TRUM is expected to be disposed at WIPP.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Accumulated and packaged at various Hanford locations prior to storage.

2.1.2 Timeframe when waste was placed into storage:

1987-2000

2.2 Inventory locations:

Building/room number	Number of containers/tanks
CWC	3

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 14.982

Date of inventory values: 01/05/2001

Comments on waste inventory: The inventory volume estimate is based on 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? NA

When is this capacity expected to be reached? NA

Bases and assumptions used: No issues with CWC storage based on 20 year waste generation forecast.

2.5 Planned management areas for storage of this waste: Current location CWC

DST Other area(s) list:

None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	0.000		
2002	3.600		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	3.600		

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed. Reference to most recent assessment: NA

Assessment has been scheduled. Scheduled date: September 2001

Other. Explain:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

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

M-91-01

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

Yes No

If yes, summarize releases and quantities and provide date:

NA

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

Yes No

If yes, explain: NA

2.11 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

Waste that is sent to WIPP will need to be characterized to assure that it meets the WIPP Waste Acceptance Criteria. M-91 capability will include characterization to meet WIPP criteria. Operations to commence in 2013 and continue through 2032.

If yes, provide Tri-Party Agreement milestone number(s): M-91-01

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

Inventory based on data for containers residing at the CWC as reported in the Solid Waste Information Tracking System (SWITS). The waste generation projections are for waste expected to be received from Battelle Columbus Labs.

3.0 WASTE MINIMIZATION

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

Yes No

If yes, provide date assessment conducted:

NA

If yes, provide document number or other identification:

NA

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

None
planned -
waste not
generated at
CWC

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

- 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, etc.):**

These activities occur before the wastes are 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 (volume or mass):**

0

- 3.3.2 Projected future waste volume reductions:**

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

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

There is no projected waste generation by CWC.

LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

- 1.1 **Treatability group/aggregated stream identifier:** TRU-PCB
Treatability group/aggregated stream name: PCB TRUM and/or PCB TRU, CH
- 1.2 **Description of waste (list WSRd numbers for this waste stream, as applicable):**

The waste contains metal, plastic, wood, lead, oils (hydraulic fluid), paper, conweb pads, glass (crushed fluorescent tubes), concrete, rags, absorbent/kitty litter, rubber, universal polypropylenes, soil, and tape/rope that have been contaminated with PCBs. The light ballasts are typically in large boxes and the hydraulic fluid is typically in drums.

2.0 WASTE STREAM INVENTORY AND GENERATION

- 2.1 **Current total inventory for this stream (stored waste only, not accumulation areas)**

Total volume (cubic meters): 79.996

- 2.2 **Estimated generation projection by calendar year**

Year	m3	and/or	kg
2001	0.640		
2002	1.270		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	1.910		

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 currently packaged/stored)** Contact-handled Remote-handled

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

The waste contain more than 100 nCi/g of TRU nuclides. The concentration of non-TRU nuclides is either very low or zero.

- 3.2 **Matrix characteristics (physical content)**

3.2.1 **Matrix constituent table (each constituent listed should constitute at least 1% of the total volume or mass)**

Matrix Parameter Category Code	Matrix Constituent Description	Typical or Range (%)
X7200	ELEMENTAL HAZARDOUS METALS	4
U9999	UNKNOWN/OTHER MATRIX	2

LDR REPORT TREATABILITY GROUP DATA SHEET

Matrix Parameter Category Code	Matrix Constituent Description	Typical or Range (%)
L2200	PURE ORGANIC LIQUIDS	2
S5300	ORGANIC DEBRIS	30
S5100	INORGANIC DEBRIS	62

3.2.2 Confidence level for matrix characteristic data in Section 3.2.1:

Low Medium High

3.2.3 Comments on matrix characteristics and/or confidence level:

Matrix characteristics vary significantly from package to package. High confidence that PCB contamination is present.

3.3 Regulated contaminated characteristics

3.3.1 Wastewater/non-wastewater under RCRA

Wastewater Non-wastewater Unknown

3.3.2 Regulated contaminant 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 Charac.	NA	***	***	Remove characteristic (1)
D004	Arsenic	NA	***	***	Exempt (61 FR 60704)
D005	Barium	NA	***	***	Exempt (61 FR 60704)
D006	Cadmium	NA	***	***	Exempt (61 FR 60704) D005
D007	Chromium	NA	***	***	Exempt (61 FR 60704)
D008	Lead	NA	***	***	Exempt (61 FR 60704)
D009	Mercury	NA	***	***	Exempt (61 FR 60704)
D010	Selenium	NA	***	***	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
D011	Silver	NA	***	***	Exempt (61 FR 60704)
WT01	Toxic, EHW	NA	***	***	NA
WT02	Toxic, DW	NA	***	***	NA

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

**If the waste is not consistent in concentration or the concentration is unknown, this may not apply. Describe in Section 3.3.6.

(1) Treatment standards based on WIPP waste acceptance criteria.

3.3.3 List any waste numbers from Section 3.3.2 for which the 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 (ppm)

<50 ≥ 50 Unknown

3.3.5 What is the confidence level for the regulated contaminant characteristic data?

Low Medium High

3.3.6 Comments on regulated contaminant characteristics and/or confidence level:

None

4.0 WASTE STREAM TREATMENT

4.1 Is this stream currently being treated? Yes No

LDR REPORT TREATABILITY GROUP DATA SHEET

If yes, provide details:

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 off site
 Treating or plan to treat on site Treatment options still being assessed

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

Waste are planned to be treated under the proposed M-91 capability. The extent of treatment options and technologies has yet to be determined.

4.4 Treatment schedule information:

Waste treatment schedules have not been developed due to a lack of acceptance criteria for PCBs at WIPP. Treatment technologies to be utilized may include thermal treatment (e.g., molten salt oxidation, vitrification, pyrolysis) or chemical treatment (e.g., chemical oxidation, chemical reduction, or dechlorination).

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

M-91-01

4.6 Proposed new Tri-Party Agreement treatment milestones:

No new milestones are proposed because the treatment requirements depend on development of acceptance criteria for PCBs at WIPP

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: One treatment operation will likely consist of box opening and sorting of the ballasts into separate containers. This action alone will substantially reduce the PCB waste volume.

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment:

Waste disposed 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 description, locations, milestone numbers, variances required, etc., as applicable)?

Waste will be shipped to WIPP for disposal..

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1988-1989

2.2 Inventory locations:

Building/room number	Number of containers/tanks
CWC	Approx. 58

2.3 Current inventory for this stream (stored waste only, not accumulation areas)Total volume (cubic meters): 79.636Date of inventory values: 01/05/2001

Comments on waste inventory: Inventory based on data for containers residing at the CWC as reported in the Solid Waste Information Tracking System (SWITS).

2.4 Is storage capacity at this location potentially an issue for this waste stream? Yes NoIf yes, what is the total estimated storage capacity? NAWhen is this capacity expected to be reached? NA

Bases and assumptions used: No issues with CWC storage based on 20 year waste generation forecast.

2.5 Planned management areas for storage of this waste: Current location CWC DST Other area(s) list: None**2.6 Estimated generation projection by calendar year:**

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

2.7 DOE Storage Compliance Assessment information: Assessment has been completed. Reference to most recent assessment: NA Assessment has been scheduled. Scheduled date: September 2001 Other. Explain:**2.8 Applicable Tri-Party Agreement milestones related to storage at this location:**

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

M-91-01

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

Yes No

If yes, summarize releases and quantities and provide date:

NA

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

Yes No

If yes, explain: NA

2.11 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

Waste sent to WIPP will need to be characterized to assure that it meets the WIPP Waste Acceptance Criteria. This is not scheduled before 2006.

If yes, provide Tri-Party Agreement milestone number(s): M-91-01

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

Additional TRUM PCB waste is not expected to be generated in the future.

3.0 WASTE MINIMIZATION

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

Yes No

If yes, provide date assessment conducted:

NA

If yes, provide document number or other identification:

NA

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

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, etc.):

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

3.3 Waste minimization schedule

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.3.1 Reduction achieved during calendar year (volume or mass): 0

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

There is no projected waste generation from CWC.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET**1.0 WASTE STREAM IDENTIFICATION AND SOURCE**

1.1 Plant/unit name: PFP/234-5Z, Org Non-debris **Waste stream** Hydraulic Fluids contaminated with PCBs/Rad

Treatability/aggregated group identifier TRU-PCB

Treatability/aggregated group name: PCB TRUM and/or PCB TRU, CH

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

New profile needed

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):**

Radiologically contaminated spent polychlorinated biphenyl (PCB) hydraulic oil and capacitor fluid

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

PCB oil was used in PFP for hydraulic systems and as a conductive medium in electrical capacitors for induction furnaces.

1.3.3 Source of the hazardous constituents

Intrinsically hazardous, feed contained PCB's for thermal stability

1.3.4 Source of 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**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?

Contained within the original system.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.1.2 Timeframe when waste was placed into storage:

6/01/00

2.2 Inventory locations:

Building/room number	Number of containers/tanks
234-5Z	15 containers

2.3 Current inventory for this stream (stored waste only, not accumulation areas)

Total volume (cubic meters): 0.36Date of inventory values: 12/31/2000

Comments on waste inventory: NONE

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

 Yes NoIf yes, what is the total estimated storage capacity? N/AWhen is this capacity expected to be reached? N/A

Bases and assumptions used: NONE

2.5 Planned management areas for storage of this waste: Current location CWC

 DST Other area(s) list: None

2.6 Estimated generation projection by calendar year:

Year	m3	and/or	kg
2001	0.640		
2002	1.270		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	1.910		

2.7 DOE Storage Compliance Assessment information:

 Assessment has been completed. Reference to most recent assessment: Assessment has been scheduled. Scheduled date:

May, 2001

 Other. Explain:

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

NONE

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this stream 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 Is further characterization necessary?

Yes No Unknown at this time

If yes, provide details and schedule (also see treatment/characterization plan volume for further information):

N/A

If yes, provide Tri-Party Agreement milestone number(s): 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 NA: By the end of the fiscal year

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, etc.):

PFP 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 (volume or mass):

0 m3

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.3.2 Projected future waste volume reductions:

Year	m3	and/or	kg
2001	0.000		
2002	0.000		
2003	0.000		
2004	0.000		
2005	0.000		
Totals	0.000		

3.3.3 Bases and assumptions used in above estimates:

PFP is currently in a clean up and stabilization mode. Clean up and stabilization operations tend to increase production of waste. PFP has a waste minimization program and is currently undergoing a Site Strategic Pollution Prevention Opportunity Assessment, which will identify if there are further opportunities to reduce waste production or produce waste in a less hazardous form.