



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

3100 Port of Benton Blvd • Richland, WA 99354 • (509) 372-7950

August 26, 2008

Mr. David A. Brockman, Manager
Richland Operations Office
United States Department of Energy
P.O. Box 550, MSIN: A7-50
Richland, Washington 99352

Ms. Shirley J. Olinger, Manager
Office of River Protection
United States Department of Energy
P.O. Box 450, MSIN: H6-60
Richland, Washington 99352

Re: *Calendar Year (CY) 2007 Land Disposal Restrictions (LDR) Summary Report*,
Submitted in Accordance with M-26-01R

Dear Mr. Brockman and Ms. Olinger:

The Department of Ecology received the responses from the United States Department of Energy (USDOE) to our comments on the 2007 LDR Summary Report. We discussed the response to Comment 1 with USDOE-Office of River Protection and have agreed on a modified response that affects Table 4-1 in Section 4.0 (Enclosure 1). The remaining responses adequately document the comment resolution agreed to during recent Tri-Party Agreement LDR Project Manager Meetings.

As we agreed, with the substitution of the enclosed two pages of Table 4-1 of the *CY 2007 LDR Summary Report*, Ecology approves USDOE's *CY 2007 LDR Summary Report*, as noted on the approval page (Enclosure 2).

If you have questions, please contact me at 509-372-7929.

Sincerely,

Deborah Singleton
Waste Management Project Manager
Nuclear Waste Program

evm/pll
Enclosures (2)
cc : Please see next page

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Mr. Brockman and Ms. Olinger
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cc w/enc:

Craig Cameron, EPA
Mary Cole, CH2M
Richard Engelmann, EFSH
Judy Vance, FFS
Doug Black, FHI
Tony Miskho, FHI
Rob Piippo, FHI
Harold Tilden, PNNL
Kathe Christensen, WCH
Lela Buck, Wanapum
Stuart Harris, CTUIR
Gabriel Bonhee, NPT
Russell Jim, YN
Susan Leckband, HAB
Ken Niles, ODOE
Administrative Record: M-026
Environmental Portal

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Table 4-1. Summary of Treatment Information for Each Treatability Group.

Treatability group name	Treatment process	Volume currently stored (m ³) ¹	Projected generation volume 2008 through 2012 (m ³) ¹	Projected volume to be treated 2008 through 2012 (m ³)	Planned treatment period	Tri-Party Agreement milestone
221-T Containment Building	Not yet determined	58	0	0	2035 ⁴ .	None
221-T Tank System	Not yet determined.	7.3	0	0	2035 ⁴ .	None.
222-S Laboratory Complex	Commercial-Stabilization, Commercial -Thermal.	0.61	55	56	2042 ⁴ .	None.
222-S T8 Tunnel	Not yet determined.	0.2	0	0	2042 ⁴ .	None.
241-CX Tank System ²	Not yet determined.	6.4	0	0	To be determined through development of 200-IS-1 documentation.	M-015-00
324 Building REC Waste	As necessary, ERDF stabilization or macroencapsulation	5.0	0	0	In accordance with schedules established under M-094 milestones	M-089-00, M-094-03.
325HWTU	HWTU, Commercial-Stabilization, Commercial -Thermal.	6.1	55	61	Through 2028 ⁴ .	M-094-00
400 Area WMU	Deactivation and conversion to sodium hydroxide.	1.4	0	0	Treatment is planned to begin after 2015 ⁴	None.
B Plant Cell 4	Not yet determined.	1.4	0	0	In accordance with Tri-Party Agreement Action Plan, Section 8.0.	None.
B Plant Containment Building	Not yet determined.	290,000 kg	0	0	In accordance with Tri-Party Agreement Action Plan, Section 8.0.	None.
Cesium and Strontium Capsules	Not yet determined.	2.0	0	0	Treatment options are still being assessed.	M-092-05.
DST Waste	WTP vitrification.	100,000	190	0	M-62-00 requires completion of pretreatment and vitrification of Hanford tank waste by 2028; this date is currently under negotiation since the current date of 2028 cannot be met.	M-050, M-051, M-061, M-062, and M-090.

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Table 4-1. Summary of Treatment Information for Each Treatability Group.

Treatability group name	Treatment process	Volume currently stored (m ³) ¹	Projected generation volume 2008 through 2012 (m ³) ¹	Projected volume to be treated 2008 through 2012 (m ³)	Planned treatment period	Tri-Party Agreement milestone
SST Waste	WTP vitrification.	110,000	0	0	M-62-00 requires completion of pretreatment and vitrification of Hanford tank waste by 2028; this date is currently under negotiation since the current date of 2028 cannot be met.	M-050, M-051, M-061, M-062, and M-090.
TRUM-CH Large Container	M-091 TRUM.	6,000	55	TBD ³	M-091-44 ³ .	M-091-44.
TRUM-CH Small Container	WRAP Facility and/or T Plant Complex.	2,700	170	TBD ³	M-091-42 ³ .	None.
TRUM-RH	M-091 TRUM.	270	9.2	TBD ³	M-091-44 ³ .	M-091-44.

¹ Volume numbers in this table have been rounded to two significant figures.

² The stored volume reported contains uncertainty as to the actual volume (DOE 2005).

³ Treatment is anticipated to be performed as necessary to meet M-091 milestones. See the M-091 milestones to determine what portion of the total volume requires treatment under those milestones.

⁴ Dates are anticipated to change based on changes to the DOE forecasted funding profile.

CH contact handled
 DST double-shell tank
 ERDF Environmental Restoration Disposal Facility
 ETF 200 Area Effluent Treatment Facility
 HSTF Hexone Storage and Treatment Facility
 HWTU Hazardous Waste Treatment Unit
 LDR land disposal restriction
 LERF Liquid Effluent Treatment Facility
 MLLW mixed low-level waste
 PCB polychlorinated biphenyls

PSTF Purgewater Storage and Treatment Facility
 PUREX plutonium-uranium extraction (facility or process)
 REC radiochemical engineering cell
 RH remote handled
 SST single-shell tank
 TRUM transuranic mixed
 WIPP Waste Management Unit
 WMU Waste Isolation Pilot Plant
 WRAP Waste Receiving and Processing Facility
 WTP Waste Treatment Plant

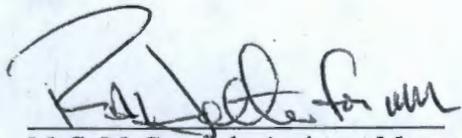
PRIMARY DOCUMENT STATEMENT

**CALENDAR YEAR 2007 HANFORD SITE MIXED WASTE LAND
DISPOSAL RESTRICTIONS SUMMARY REPORT**

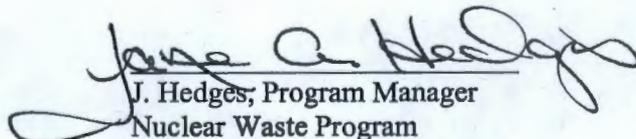
Approval of the U.S. Department of Energy's annual land disposal restriction report as a *Hanford Federal Facility Agreement and Consent Order* primary document shall be by written approval of U.S. Department of Energy and Washington State Department of Ecology Interagency Management Integration Team representatives.

This document has been prepared, submitted, revised, and approved as a primary document in response to the requirements of the *Hanford Federal Facility Agreement and Consent Order* milestone series M-26-01 and related *Resource Conservation and Recovery Act of 1976* land disposal restrictions and *Hanford Federal Facility Agreement and Consent Order* requirements. As such, this document serves as a binding and enforceable document under the *Hanford Federal Facility Agreement and Consent Order*.

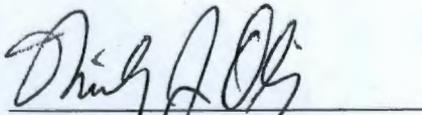
Approved and issued this 20th day of August 2008.



M. S. McCormick, Assistant Manager
for the Central Plateau
U.S. Department of Energy,
Richland Operations Office
RL IAMIT Representative



J. Hedges, Program Manager
Nuclear Waste Program
State of Washington
Department of Ecology
IAMIT Representative



Shirley J. Olinger, Manager
U. S. Department of Energy,
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ORP SEC Representative