



U.S. Department of Energy
Office of River Protection

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Richland, Washington 99352

OCT 28 2008

08-TPD-081

Ms. Jane A. Hedges, Program Manager
Nuclear Waste Program
State of Washington
Department of Ecology
3100 Port of Benton Blvd.
Richland, Washington 99354

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OCT 29 2008
EDMC

Dear Ms. Hedges:

TRANSMITTAL OF THE CONSENT DECREE THIRD AMENDMENT DELIVERABLE,
"SINGLE-SHELL TANK INTERIM STABILIZATION ACTIVITY REPORT FOR THE
FOURTH QUARTER OF FISCAL YEAR 2008"

Reference: Consent Decree Number CT-99-5076-EFS, "Washington Department of Ecology
versus the U.S. Department of Energy," U.S. District Court, Eastern District of
Washington, filed September 9, 2003.

This letter transmits the Consent Decree deliverable "Single-Shell Tank Interim Stabilization
Activity Report for the Fourth Quarter of Fiscal Year 2008" (Enclosure).

The Consent Decree requires the U.S. Department of Energy (DOE), Office of River Protection
to submit to the Washington State Department of Ecology, a quarterly report of Interim
Stabilization activities that occurred during the period covered by the report. Formal reporting
requirements under the Consent Decree were completed in October 2004, with submittal of the
fourth quarter report for fiscal year 2004.

The provisions of the Consent Decree, as amended, have been met for 28 of the 29 Single-Shell
Tanks. DOE believes that Tank S-102 currently meets interim stabilization requirements under
the consent decree. DOE is conducting an evaluation to confirm whether Tank S-102 meets
interim stabilization criteria using TFC-ENG-CHEM-P-15 "Single Shell Tank Interim
Stabilization Evaluation." Tank 241-S-102 retrieval status is provided at the monthly Hanford
Federal Facility Agreement and Consent Order (Tri-Party Agreement) meetings.

Ms. Jane A. Hedges
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If you have any questions, you may contact me, or your staff may contact Stacy L. Charboneau, Assistant Manager for Tank Farms Project, (509) 373-9112.

Sincerely,



Shirley J. Olinger, Manager
Office of River Protection

TPD:JDL

Enclosure

cc w/encl:

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**Enclosure
08-TPD-081**

**Consent Decree Deliverable,
Single-Shell Tank Interim Stabilization Activity Report
for the Fourth Quarter of Fiscal Year 2008**

Consisting of 4 pages, including coversheet

SINGLE-SHELL TANK INTERIM STABILIZATION ACTIVITY REPORT FOR THE FOURTH QUARTER OF FISCAL YEAR 2008

INTRODUCTION

This document is submitted to satisfy the quarterly reporting requirements for single-shell tank (SST) Interim Stabilization (IS) Project activities conducted during the fourth quarter of fiscal year (FY) 2008, as prescribed by Consent Decree Number CT-99-5076-EFS, "State of Washington, Department of Ecology v. U.S. Department of Energy," as amended or otherwise agreed. The period of performance for the fourth quarter report extends from July 1, 2008 through September 30, 2008.

The Consent Decree stipulates that:

"DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period and shall include:

1. A brief description of the project accomplishments and project issues encountered during the reporting period and/or expected in the next six months;
2. A definitive statement describing whether or not the U.S. Department of Energy (DOE) remains in compliance with the schedule set forth in Section IV-A (of the Consent Decree);
3. Where applicable, a description of actions initiated or otherwise taken to recover any schedule slippage;
4. Budget/cost status; and
5. Copies of written directives given by the DOE to the contractor(s) for work required by this Decree."

The Consent Decree defines "interim stabilized" as follows:

"For purposes of this Decree, a single-shell tank has been interim stabilized and tank pumping may be discontinued when the tank contains less than 50,000 gallons of drainable interstitial liquid and less than 5,000 gallons of supernatant liquid. In addition, if jet pumping is used, the pump flow must be at 0.05 gallons per minute or less before pumping may be discontinued. If a major equipment failure occurs at a tank that contains less than 50,000 gallons of drainable interstitial liquid and less than 5,000 gallons of supernatant, then DOE may, after consulting with Ecology, consider the tank interim stabilized."

The schedule for removal of pumpable liquid from the final 29 SSTs is provided in "Attachment A" of the Consent Decree. This schedule is enforceable pursuant to the terms

SINGLE-SHELL TANK INTERIM STABILIZATION ACTIVITY REPORT FOR THE FOURTH QUARTER OF FISCAL YEAR 2008

and conditions of the Consent Decree except for the "Projected Pumping Completion Dates," which are target dates only and are not enforceable. Consent Decree Milestone D-001-00 required that "DOE Shall Complete Interim Stabilization of all 29 SSTs by September 30, 2004." This milestone was met roughly six months ahead of schedule, as modified by the Third Amendment to Consent Decree filed in the U.S. District Court, Eastern District of Washington, on September 9, 2003.

The Consent Decree makes provisions for accelerated retrieval of the final two SSTs (241-S-102 and 241-S-112) in lieu of IS and removes waste volumes associated with these tanks from IS calculations. IS of these tanks is being held "in abeyance" pending completion of accelerated retrieval of waste in accordance with applicable *Hanford Federal Facility Agreement and Consent Order* (HFFACO) M-45 series milestones. The U.S. Department of Energy, Office of River Protection (ORP) obligation to complete IS of Tanks 241-S-102 and 241-S-112 will be satisfied upon completion of waste retrieval from these tanks as defined in HFFACO Milestones M-45-05A and M-45-03C, respectively. Retrieval of 241-S-112 has been completed in accordance with the applicable HFFACO Milestone. The Retrieval Data Report for retrieval of 241-S-112 was transmitted to ORP on Dec. 12, 2007. The Consent Decree and the status of accelerated waste retrieval operations in Tank 241-S-102 is discussed further under the section entitled, "ITEM 2: SCHEDULE COMPLIANCE."

In addition, an IS evaluation form was issued for Tanks 241-S-112 and 241-S-102 at the point where waste retrieval progress resulted in the meeting of the IS drainable interstitial liquid and supernatant volume criteria. The IS jet pump rate criterion of less than or equal to 0.05 gallons per minute does not apply to Tank 241-S-112 or Tank 241-S-102 because retrieval operations utilize submersible pumps rather than jet pumps. Retrieval pumping removes both solids and liquids while IS jet pumping removes primarily liquids that drain through a screen into the saltwell.

ITEM 1: ACCOMPLISHMENTS AND ISSUES

The following lists major accomplishments/issues for the IS Project during the fourth quarter of FY 2008.

Cleanup of the spill area at 241-S-102 has been completed. Drywell monitoring for leak detection is ongoing. No evidence of leaking has been detected. The excavated area has been backfilled with fresh gravel.

Tank 241-S-102 is undergoing retrieval in lieu of IS, and is approximately 93 percent complete as of September 30, 2008. Tank 241-S-102 retrieval status is provided at the monthly Tri-Party Agreement meetings.

Six-Month Look Ahead:

**SINGLE-SHELL TANK INTERIM STABILIZATION ACTIVITY REPORT
FOR THE FOURTH QUARTER OF FISCAL YEAR 2008**

Continue to perform moisture data logging for leak detection. Perform in tank video exam to estimate the amount of supernatant liquid remaining in the tank to compare against IS criteria of less than 5000 gallons.

Current Issues and Recovery Actions:

None

Issues Expected to Arise in the Next Six Months:

None

ITEM 2: SCHEDULE COMPLIANCE

The ORP remains in compliance with the schedule set forth in Section IV-A of the Consent Decree, as amended. Consistent with the Consent Decree, there are presently no schedule items for IS of Tank 241-S-102. The schedule for retrieval of Tank 241-S-102 is covered by HFFACO Milestone M-45-05A.

ITEM 3: SCHEDULE RECOVERY ACTIONS

There are no required scheduled recovery actions relative to IS. Any schedule issues related to retrieval of Tank 241-S-102 will be addressed along with HFFACO Milestone M-45-05A.

ITEM 4: BUDGET/COST STATUS

There are no remaining field activities and no remaining budget solely for IS activities.

ITEM 5: DOE DIRECTIVES

There were no new directives issued from the ORP during the fourth quarter of FY 2008 that affected the IS Project related to the Consent Decree, as amended by the Third Amendment.