



U.S. Department of Energy
Office of River Protection

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Richland, Washington 99352

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JUL 31 2008

08-TPD-044

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

RECEIVED
JUL 31 2008
EDMC

Dear Ms. Hedges:

TRANSMITTAL OF THE CONSENT DECREE THIRD AMENDMENT DELIVERABLE,
"SINGLE-SHELL TANK (SST) INTERIM STABILIZATION ACTIVITY REPORT FOR THE
THIRD QUARTER OF FISCAL YEAR (FY) 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. *0060562*

This letter transmits the Consent Decree deliverable "SST Interim Stabilization Activity
Report for the Third Quarter of FY 2008" (Enclosure).

The Consent Decree requires the U.S. Department of Energy, Office of River Protection to
submit to the Washington State Department of Ecology, a quarterly report documenting interim
stabilization (IS) 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 FY 2004.

The provisions of the Consent Decree, as amended, have been met for 28 of the 29 SSTs. Tank
241-S-102 is undergoing retrieval in lieu of IS, as provided by the Third Amendment to the
Consent Decree, and is approximately 93 percent complete as of June 30, 2008. Retrieval of
Tank 241-S-102 was halted due to a leak in the retrieval system and will be delayed while
recovery from the leak is effected and appropriate corrective actions are implemented. 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
08-TPD-044

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If you have any questions, you may contact me or your staff may contact Stacy Charbonneau, Assistant Manager for Tank Farms Project, (509) 373-9112.

Sincerely,



Shirley J. Olinger, Manager
Office of River Protection

TOD:JDL

Enclosure

cc w/encl:

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Administrative Record

CH2M HILL Correspondence

Environmental Portal, LMSI

**Enclosure
08-TPD-044**

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

Consisting of 4 pages, including coversheet

SINGLE-SHELL TANK INTERIM STABILIZATION ACTIVITY REPORT FOR THE THIRD 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 third quarter of Fiscal Year (FY) 2008, as prescribed by Consent Decree Number CT-99-5076-EFS, "Washington State Department of Ecology versus U.S. Department of Energy (DOE)," as amended or otherwise agreed. The period of performance for the third quarter report extends from April 1, 2008, through June 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 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 Consent Decree."

The Consent Decree defines "IS" as follows:

"For purposes of this Decree, a SST 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."

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

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 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 IS of all 29 SSTs by September 30, 2004." This milestone was met roughly six months ahead of schedule, as modified by the Consent Decree filed in the U.S. District Court, Eastern District of Washington, on September 9, 2003.

The Consent Decree Third Amendment 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 was held "in abeyance" pending completion of accelerated retrieval of waste in accordance with applicable *Hanford Federal Facility Agreement and Consent Order* (known as Tri-Party Agreement) M-45 series milestones. The DOE, 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 Tri-Party Agreement Milestones M-45-05A and M-45-03C, respectively. The Consent Decree and the status of accelerated waste retrieval operations in Tanks 241-S-102 and 241-S-112 are 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 screened interval into the saltwell.

ITEM 1: ACCOMPLISHMENTS AND ISSUES

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

Cleanup of the spill area is ongoing. Seventy-two drums of contaminated soil have been removed. Most of the instrumentation and monitoring equipment for this tank are currently out of service due to the cleanup work; however, the 241-S-102 ENRAF has been returned to service. Drywell monitoring for leak detection is ongoing. No evidence of leaking has been detected.

A material balance calculation has been performed to estimate the current status of the waste in Tank 241-S-102. The current best estimate is that the tank contains less than 2,500 gallons of supernate and less than 16,000 gallons of drainable interstitial liquid. These values are well within the IS criteria. A video camera was installed in S-102 to attempt to obtain evidence in support of interim stabilizing the tank. However, the camera failed to focus and no good video was obtained.

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

Tank 241-S-102 is undergoing retrieval in lieu of IS, as provided by the Third Amendment to the Consent Decree, and is approximately 93 percent complete as of June 30, 2008. Tank 241-S-102 retrieval status is provided at the monthly Tri-Party Agreement meetings.

Six-Month Look Ahead:

Contaminated soil and contaminated equipment removal will be completed.

Current Issues and Recovery Actions:

Recovery actions will be performed in accordance with the Corrective Action Plan.

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 Tri-Party Agreement 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 Tri-Party Agreement 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 third quarter of FY 2008 that affected the IS Project related to the Consent Decree, as amended by the Third Amendment.