



U.S. Department of Energy
Office of River Protection

0097858

P.O. Box 450, MSIN H6-60
Richland, Washington 99352

JUL 28 2011

11-WTP-238

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

Mr. Dennis E. Faulk
U.S. Environmental Protection Agency
Hanford, INL Project Office
309 Bradley Blvd. Ste 115
Richland, Washington 99352

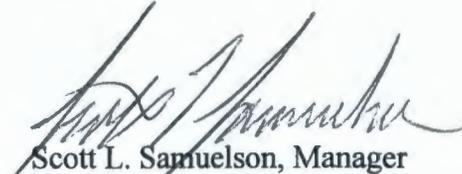
Addressees:

HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER (HFFACO)
(ALSO KNOWN AS TRI-PARTY AGREEMENT) INTERIM MILESTONE M-062-01,
"SEMI-ANNUAL PROJECT COMPLIANCE REPORT" FOR JANUARY 1, 2011 THROUGH
JUNE 30, 2011

This letter transmits the U.S. Department of Energy, Semi-Annual Project Compliance Report
(Attachment) required by Interim Milestone M-062-01 for the period of January 1, 2011 through
June 30, 2011. As stipulated in the M-062-01 milestone, this report includes project summaries of
accomplishments, issues, and actions being taken.

If you have any questions, please contact me, or your staff may contact Dale E. Knutson, Federal Project
Director, Waste Treatment and Immobilization Plant Project, (509) 376-6727, or Thomas W. Fletcher,
Acting Manager for Tank Farms Project, (509) 376-3434.

Sincerely,

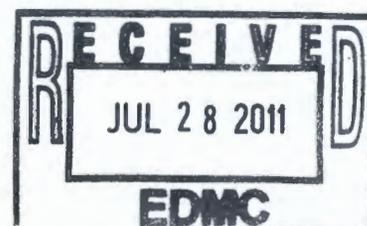


Scott L. Samuelson, Manager
Office of River Protection

WTP:RBS

Attachment

cc: See Page 2



Addressees
11-WTP-238

JUL 28 2011

cc w/attach:

- F. Russo, BNI
- B. G. Erlandson, BNI
- J. Cox, CTUIR
- S. Harris, CTUIR
- S. L. Dahl, Ecology
- J. J. Lyon, Ecology
- D. McDonald, Ecology
- J. B. Price, Ecology
- C. Whalen, Ecology
- K.G. Picha, EM-2
- S. L. Leckband, HAB
- J. F. Ollero, MSA
- R. E. Piippo, MSA
- J. G. Vance, MSA
- G. Bohnee, NPT
- K. Niles, ODOE
- C. Burrows, WRPS
- J. W. Donnelly, WRPS
- C. G. Spencer, WRPS
- R. Jim, YN
- Administrative Record
- BNI Correspondence
- Environmental Portal, LMSI
- TPA Administrative Record (S-2-4)
- WRPS Correspondence

cc w/o attach:

- M. Anderson-Moore, Ecology
- G. P. Davis, Ecology

ATTACHMENT

11-WTP-238

**U.S. DEPARTMENT OF ENERGY, OFFICE OF RIVER
PROTECTION RIVER PROTECTION PROJECT – SEMI-
ANNUAL PROJECT COMPLIANCE REPORT PER HANFORD
FEDERAL FACILITY AGREEMENT AND CONSENT ORDER
MILESTONE M-062-01**

January 1, 2011 – June 30, 2011

Pages 7 (Including Coversheet)

**U.S. DEPARTMENT OF ENERGY, OFFICE OF RIVER
PROTECTION RIVER PROTECTION PROJECT – SEMI-
ANNUAL PROJECT COMPLIANCE REPORT PER HANFORD
FEDERAL FACILITY AGREEMENT AND CONSENT ORDER
MILESTONE M-062-01**

January 1, 2011 – June 30, 2011



**U.S. DEPARTMENT OF ENERGY
OFFICE OF RIVER PROTECTION
2440 Stevens Center Place
Richland, Washington 99354**

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LIST OF ACRONYMS

BNI	Bechtel National, Inc.
DOE	U.S. Department of Energy
EAC	Estimate at Completion
Ecology	Washington State Department of Ecology
EFRT	External Flowsheet Review Team
FSBR	Fluid Bed Stream Reformer
FY	Fiscal Year
HFFACO	Hanford Federal Facility Agreement and Consent Order
HTWOS	Hanford Tank Waste Operations Simulation
LCM	Life Cycle Cost Model
ORP	Office of River Protection
RCRA	Resource Conservation and Recovery Act of 1976, as amended
SP	System Plan
SST	Single shell tank
TOC	Tank operations contract
TPA	Tri-Party Agreement
WRPS	Washington River Protection Solutions
WTP	Waste Treatment and Immobilization Plant

1.0 INTRODUCTION

The U.S. Department of Energy (DOE) Office of River Protection is submitting this Semi-Annual Project Compliance Report (M-062-01V) to satisfy the requirements of the Hanford Federal Facility Agreement and Consent Order (HFFACO), commonly referred to as the Tri-Party Agreement (TPA), Milestone M-062-01. As detailed in M-062-01, this report documents ORP's compliance with the TPA Milestone M-062-00 series requirements for the period from January 1, 2011, through June 30, 2011, provides updates, progress and issues relative to those milestones, and identifies activities expected in the near future.

DOE and DOE's Contractors remain in compliance with TPA Milestone M-062-00 series requirements and have completed sufficient work to allow achievement of the requirements.

This compliance report discusses each of the M-062-00 milestones due during the reporting period. The budget and cost information in the report is based on the period of November 2010 through April 2011.

2.0 NEAR-TERM M-062-00 SERIES TPA MILESTONES

2.1 M-062-30

Near-term milestone M-062-30, Complete Negotiations Establishing Milestones for Near-Term Actions, due October 31, 2011, is under review by ORP and Washington State Department of Ecology. Informal agreement has been reached between Ecology and ORP to develop a change package cancelling/deleting this milestone and allowing the elements required by this milestone to be considered during the M-062-40 or M-062-45 negotiations.

2.3 M-062-40

Embedded within M-062-40 and identified as M-062-40B is the requirement to submit a system plan describing the disposition of all tank waste managed by Office of River Protection (ORP). This is the near term milestone, due October 31, 2011, for the System Plan milestone series. The 50% review of the draft System Plan 6 (SP6) was completed May 2011, focusing on the model-independent portions of the document and included reviewers from ORP, Ecology and WRPS. All comments were dispositioned and incorporated as appropriate. Hanford Tank Waste Operations Simulation (HTWOS) modeling and results verification have been completed for all 10 cases evaluated for SP6. Overviews of results for Case 3: Fluid Bed Stream Reformer (FBSR) for Supplemental Treatment, Case 7: Enhanced Tank Waste Strategy, and Case 9: Early U-Farm Retrieval, are currently with ORP and Ecology for review.

In addition to HTWOS modeling results, Tank operations contract (TOC) Life Cycle Cost Model (LCM) results are also being developed for each case. More detailed descriptions of case-specific results are being developed and incorporated into the draft SP6 document. Key issues, technology development, and integrated schedules are also being developed at this time and will be included. Draft SP6 will be released for a 90% review, allowing ORP, Ecology and WRPS to review the entire document, for two weeks in July. Comments will be tracked and closed. The finalized document will be approved by ORP, released by WRPS, and transmitted from ORP to Ecology in time to meet the October 31, 2011, milestone due date.

2.4 M-062-49

DOE Letter 11-WTP-106, *Tri-Party Agreement (TPA) Changes and BNI Support*, directed BNI to take responsibility for TPA milestone M-62-49. This milestone requires a report to be submitted to the Department of Ecology by October 31, 2011 certifying that the WTP is designed to pretreat and vitrify 100% of retrievable tank waste when combined with supplemental LAW vitrification. BNI has prepared a set of initial assumptions to complete a Tank Utilization Assessment to provide the required information to DOE by September 27, 2011.

3.0 WASTE TREATMENT AND IMMOBILIZATION PLANT (WTP)

3.1 WTP Project Overview

Design, procurement, and construction activities continue for all of the facilities. Design/Engineering for the WTP Project is 81 percent complete, procurement is 61 percent complete, construction is 55 percent complete, and the overall WTP Project is 59 percent complete. Currently, BNI employs about 3,400 personnel, with an average of about 1,700 personnel (1,200 craft, 180 subcontractor, and 500 non-manual staff) working at the construction site. Accomplishments during the reporting period position the project to be on track for all milestones.

In December 2010, through the budgeting process, the facility percent complete values for Design/Engineering and Construction were adjusted. This decrease in percent complete values is tied to budget increases required as a result of the incorporation of the remaining External Flowsheet Review Team (EFRT) Issues. The increase in facility engineering and construction budgets impacted the calculation process, lowering applicable to-date percent complete values.

3.2 Budget/Cost Status

Budget: Total funding available for the WTP Project in FY 2011 is \$956 million, which includes \$740 million new budget authority, and \$216 million of FY 2010 carryover funds. To date, the WTP Project has received \$6.663 billion of funding.

Spend: For FY 2011, the WTP Project plans to spend \$805 million through September 2011. Through FY 2011 to date, the total WTP Project spend is \$6.326 billion.

4.0 TANK FARMS

4.1 Tank Farms Project Overview

During the period of November 1, 2010 through June 30, 2011, the bulk retrieval of Tank 241-C-104, using Modified Sluicing, was completed on May 6, 2011. An evaluation continues on hard to retrieve heel material. A large 52-inch riser has been cut into 241-C-107 tank dome and after placement of the mobile arm retrieval system, both modified sluicing and high pressure water will be used for retrieval of this tank. Additionally, construction continues on a new control trailer for the 241-C-107 retrieval which will commence in August 2011. One of the two receiver double shell tanks used to support 241-C Tank Farm retrieval was upgraded with the replacement of the supernatant pump and slurry distributor at 241-AN-106. Design work is also being done for both the modified sluicing efforts on tanks 241-C-101 and 241-C-112 and hard to retrieve heels at the 241-C-108/-109/-110/-111 tanks. The RCRA Feasibility Investigation/Corrective Measures Study is 66 percent complete through the reporting period.

4.2 Budget/Cost Status

Budget: DOE work schedules have been completed and work initiated to complete consent decree project B-1 and TPA milestones by the milestone due date.

Spend: The total budget at completion for SST retrieval activities in fiscal year 2011 is \$83,065,800. For the period November 1, 2010, through May 31, 2011, SST retrieval activities cost-to-date is \$49,781,800. The estimate-at-completion (EAC) for FY 2011 is \$81,423,000.

5.0 SCHEDULE MITIGATION

All M-062-00 milestones are on schedule. No schedule mitigation has been necessary during the reporting period.