

FINAL

Office of River Protection
Tri-Party Agreement
Project Summary Report
May 19, 2011



Office of River Protection
Tri-Party Agreement Milestone Review Meeting
May 19, 2011

Page	Topic	Leads	Time
TPA 1 / CD 1	Statistics / Status	Woody Russell / Dan McDonald / Jeff Lyon	8:30
TPA 7	Single-Shell Tank Corrective Action; M-45, -50, -60	Bob Lober / Jeff Lyon	8:35
TPA 9 / CD 5	Single-Shell Retrieval and Closure Program TPA Milestones Status; M-45-00 series, <ul style="list-style-type: none"> - Tank in Appendix H Status - C-Farm Critical Path - Tanks with Individual Milestones - Double-Shell Tank Closure - 242-A Evaporator Status SST Retrieval and Closure CD Milestones and TWRWP Status; D-00B series	Chris Kemp / Dan Knight / Jeff Lyon	8:50
TPA 19	SST Integrity Assurance; M-45-91	Jeremy Johnson/ Michelle Hendrickson	9:10
TPA 22	Interim Stabilization Consent Decree (closed, to be removed after May TPA Quarterly Meeting)	Jeremy Johnson/ Nancy Uziemblo	---
TPA 23	In Tank Characterization and Summary	Jeremy Johnson / Michael Barnes	9:15
TPA 24	Tank Operations Contract (TOC) Overview	Dan Knight / Jeff Lyon	9:20
TPA 34	Acquisition of New Facilities; M-90-00; M-47-00	Janet Diediker / Jeff Lyon / Dan McDonald	9:35
TPA 35	Supplemental Treatment and Part B Permit Applications; M-62-00, -20, -30, -45	Steve Pfaff / Jeff Lyon / Dan McDonald	9:40
TPA 37	System Plan; M-62-40	Ron Koll / Jeff Lyon / Dan McDonald	9:45
BREAK			
TPA 38 / CD 8	WTP Overall TPA and CD Summary and Milestones Status; M-62-01; M-62-49; D-00A-01, -06, -17	Delmar Noyes / Dan McDonald	10:00
TPA 39 / CD 10	WTP Pretreatment (PT) Facility; D-00A-13, -14, -15, -16, -19	Wahed Abdul / Dan McDonald	10:10
TPA 41 / CD 13	WTP High-Level Waste (HLW) Facility; D-00A-02, -03, -04, -21	Jason Young / Dan McDonald	10:20
TPA 42 / CD 15	WTP Low-Activity Waste (LAW) Facility; D-00A-07, -08, -09	Gary Olsen / Dan McDonald	10:30
TPA 43 / CD 17	WTP Analytical Laboratory (LAB); D-00A-05		10:35
TPA 44 / CD 19	WTP Balance of Facilities (BOF); D-00A-12		10:40

Fiscal Year 2011 Tri-Party Agreement Milestone Status													
Milestone No.	Description	Due Date	Date Completed	On Schedule	At Risk	Recoverable	To Be Missed	Missed	In Litigation	Deleted	In Program Planning	In Abeyance	Dispute Resolution
M-062-40A	Select a Minimum of 3 scenarios	10/31/10	10/27/10										
D-001-00-R46	Quarterly Report	10/31/10	10/28/10										
M-045-100	Submit to Ecology an Agreement Primary Document a Catch Tank "Assumed Leak" Response Plan.	12/28/10	12/28/10										
M-045-101	Submit to Ecology as an Agreement Primary Document a Report on all Catch Tanks and Pipelines Used for SST Operations	12/28/10	12/28/10										
M-045-91A	Submit an Agreement Change Package with Interim Milestones to Implement the Panel's Recommendations M-045-91	12/27/10	09/27/10										
M-045-92D	Complete Negotiations to Schedule Remaining 4 Additional Barriers	12/31/10	12/07/10										
M-045-92E	Meet Yearly on Performance of Barrier	12/31/10	12/07/10										

Fiscal Year 2011 Tri-Party Agreement Milestone Status													
Milestone No.	Description	Due Date	Date Completed	On Schedule	At Risk	Recoverable	To Be Missed	Missed	In Litigation	Deleted	In Program Planning	In Abeyance	Dispute Resolution
M-062-20	Complete All 28 Issues in Independent WTP Flowsheet & Throughput Assessment	12/31/10	08/20/10										
M-045-80	Complete those Portions of C-200 Closure Demonstration Plan Necessary to Complete Closure Plan Development for SST System	01/31/11	12/28/10										
M-062-01V	Submit Semi-Annual Project Compliance Report	01/31/11	01/27/11										
D-001-00-R47	Quarterly Report	01/31/11	01/28/11										
M-045-91G-T05	Provide Report of the Visual Inspections of 12 SSTs in Table 3.3	03/31/11	3/11/11										
M-045-92K	Barrier 1 Design/Monitoring Approval from Ecology	06/30/11		X									
M-045-15	Interim Completion of Tank S-102 SST Waste Retrieval and Closure Demonstration Project. Completion of Tank A-103 SST Waste Retrieval	06/30/11 09/30/22			X								

Fiscal Year 2011 Tri-Party Agreement Milestone Status													
Milestone No.	Description	Due Date	Date Completed	On Schedule	At Risk	Recoverable	To Be Missed	Missed	In Litigation	Deleted	In Program Planning	In Abeyance	Dispute Resolution
M-045-15A	Submit a Retrieval Data Report Pursuant to Agreement Appendix I	06/30/11 09/30/22		X									
M-045-15B	Remaining Wastes Adequately Characterized; Risk Assessment Completed for Residuals Remaining in the Tank	06/30/11								X			
M-045-15C	Update S-102 Component Closure Activity Plan	06/30/11								X			
M-045-15D	Exception to Waste Retrieval Criteria Pursuant to Agreement Appendix H	06/30/11 09/30/22		X									
M-036-01A	Submit to EPA & Ecology Lifecycle, Scope, Schedule & Cost for Hanford Site (RL is DOE Lead)	07/25/11		X									
M-045-56G	Ecology and DOE Agree to Meet, at a Minimum, Yearly (by July)	07/31/11		X									
M-062-01W	Submit Semi-Annual Project Compliance Report	07/31/11		X									

Fiscal Year 2011 Tri-Party Agreement Milestone Status													
Milestone No.	Description	Due Date	Date Completed	On Schedule	At Risk	Recoverable	To Be Missed	Missed	In Litigation	Deleted	In Program Planning	In Abeyance	Dispute Resolution
M-045-91C	Implement DQO Process, Test Plan to Evaluate the Chemistries	09/30/11		X									
M-045-91G-T01	Provide AOR Final Doc. For SSTs on 530,000 Gallon Tanks	09/30/11		X									
M-045-13	Interim Completion of Tank S-112 SST Waste Retrieval and Closure	TBD [In accordance with M-045-84 or -85]		X									
M-045-13E	Complete Negotiations for Interim Milestones for Closure of S-112	TBD [In accordance with M-045-84 or -85]		X									

Fiscal Year 2012 Tri-Party Agreement Milestone Status													
Milestone No.	Description	Due Date	Date Completed	On Schedule	At Risk	Recoverable	To Be Missed	Missed	In Litigation	Deleted	In Program Planning	In Abeyance	Dispute Resolution
M-062-30	Complete Negotiations Establishing Milestones for Near-Term Actions	10/25/11		X									
M-062-40B	Submit System Plan	10/31/11		X									
M-062-49	Submit Report to Ecology Demonstrating WTP Design Meets Vit. Criteria	10/31/11		X									
M-045-91B	Submit a Sampling and Analysis Plan to Ecology	12/30/11		X									
M-045-92F	Meet Yearly on Performance of Barrier	12/31/11		X									
M-045-91F-T02	Provide Report of Liner Failures for SSTs	01/31/12		X									
M-045-91G-T02	Provide AOR Final Doc. For SSTs on 750,000 Gallon Tanks	01/31/12		X									
M-045-91F-T01	Provide Report of the Liquid Leak Rate Assessments	01/31/12		X									
M-045-91D	Submit Analytical Test Plan for Cores Removed from C-107 Plug	03/31/12		X									
M-045-91G-T06	Provide Report of the Visual Inspection of 12 SSTs per criteria in M-045-91G-T05	03/31/12		X									

Fiscal Year 2012 Tri-Party Agreement Milestone Status													
Milestone No.	Description	Due Date	Date Completed	On Schedule	At Risk	Recoverable	To Be Missed	Missed	In Litigation	Deleted	In Program Planning	In Abeyance	Dispute Resolution
M-045-92M	Barrier 2 Design/Monitoring Approval from Ecology	06/30/12		X									
M-047-06	Complete Negotiation of No More Than 2 Interim Milestones	06/30/12		X									
M-045-91G-T03	Provide AOR Final Doc for SSTs on 1,000,000 Gallon Tanks	09/30/12		X									

WBS 5.2 Retrieve and Close Single Shell Tanks

M-045-58, Submit to Ecology for Review and Approval as an Agreement primary document, a phase 2 CMS Master Work Plan, Due: 12/31/08 Status: Complete.

Master Work Plan is in the Primary document revision process. ORP transmitted its response to Ecology on August 18, 2010. Ecology extended review of comment responses to October 29, 2010. Ecology requested at the October PMM a two week extension from October 27, 2010. ORP acknowledged that Ecology's comment response will be considered in abeyance until DOE-ORP, Ecology, and EPA complete their negotiation of the AIP applicable to Appendix I. Ecology assumed that negotiations would be done December 24, 2010. They have been extended.

M-045-60, Submit to Ecology for review and approval as an Agreement primary document DOE's Phase 2 RFI/CMS Work Plan and Sampling and Analysis Plan (SAP) for WMA C, Due: 12/31/08, Status: Complete.

ORP and Ecology continue to meet monthly to identify and manage changes in the work plan. The last meeting was held April 28, 2011. Meeting minutes for the February 25 and March 24, 2011 sessions have been signed by the parties and have been entered into the TPA administrative record.

M-045-56G, Complete Implementation of Agreed to Interim Measures, Due: 07/31/11, Status: On Schedule

M-045-59, Control surface water infiltration pathways as needed to control or significantly reduce the likelihood of migration of subsurface contamination to groundwater at the SST WMAS (pending the CMS report, milestone M-45-58, and implementation of other interim corrective measures), Due: TBD, Status: On Schedule

M-045-61, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 RFI/CMS Report for WMA C, Due: 12/31/14, Status: On Schedule

M-045-62, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 Corrective Measures Study Report for WMA C, Due: 06/30/2015, Status: On Schedule

M-045-92, DOE and Ecology will establish selection criteria for installation of additional interim barriers at additional WMAs (beyond the T-106 and TY barriers), Due: 9/30/2016, Status: On Schedule.

M-045-92K, Barrier 1 Design/Monitoring Approval from Ecology, Due: 6/30/2011, Status: On Schedule. If negotiated, complete installation of 4 additional interim barriers at a rate of one per year, with the first being completed by October 31, 2012. Prior to beginning construction and at least sixteen months before construction is to be complete, DOE will submit to Ecology a final design and monitoring plan for each interim barrier. The barrier design and monitoring plans will be consistent with those developed for WMA T and TY unless DOE and Ecology agree otherwise. Ecology will authorize construction upon approval of these submittals.

M-045-92F, DOE and Ecology will meet yearly to review the monitoring data, agree to changes in monitoring (if needed) and assess the performance of the demonstration barrier,
Due: 12/31/2011, Status: On Schedule

Significant Past Accomplishments:

1. T-Farm interim barrier monitoring continues.
2. TY Interim Barrier monitoring continues.
3. Continued direct push characterization in C Farm at various planned locations. Completed angled direct push sampling campaign beneath tank C-104.
4. Continued the joint process with Ecology and other regulatory agencies and stakeholders to define the inputs, approaches, assumptions and methods that will be used for development of a performance assessment for Waste Management Area C.
5. Continued remediation technology assessments in support of a Corrective Measures Study for WMA C.
6. Completed 90% design review for a surface barrier in 241-SX farm. Ecology's comments were resolved and this design was approved via email, authorizing the bidding and construction process to begin.
7. Continued the Data Quality Objective process for the Phase 2 RFI-CMS work plan for WMA A/AX.
8. Completed reanalysis of well-to-well resistivity data from C Farm using recent advancements in codes and hardware; report in process.
9. Continued analysis of 3-D SGE data set for UPR-200-E-82 in C farm; 2-D lines were collected April 14-16.
10. Deep electrodes placed during direct push campaign in eastern BY farm have been wired to determine when they have equilibrated with the surrounding soils.

Significant Planned Actions in the Next Six Months:

1. Continue direct push campaign in C Farm.
2. Initiate direct push campaign in S-Farm in support of a future interim barrier.
3. Initiate 3-D SGE data collection in eastern BY farm.
4. Complete resistivity data analysis for 3-D SGE characterization of UPR-82 in C Farm.
5. Continue remediation technology assessments in support of a Corrective Measures Study for WMA C.
6. Perform additional updates to WMA C RFI/CMS workplan based on requested changes from Ecology.
7. Complete design of interim surface barriers for SX farm, and initiate construction.
8. Complete the Data Quality Objective process for the Phase 2 RFI/CMS work plan for waste management area A/AX.

Issues:

- ORP would like to address Ecology's request for additional RFI/CMS milestones as part of the next tank farm closure discussions underway.
 - An unsigned draft AIP was submitted by ORP to ECY on 4/18/11 to address the necessary actions to facilitate closure of the WMA to be closed after WMA C. Awaiting Ecology response and comments.

SST Retrieval and Closure Program

M-045-100, Submit as a primary document a Catch Tank "assumed leak response plan, Due: 12/27/10, Status: Complete. Transmitted from ORP to ECY via letter 10-TPD-176 on 12/28/10.

M-045-101, Submit to Ecology as a primary document a report on all catch tanks and associated pipelines in the SST System Part A, Due: 12/27/10, Status: Complete. Transmitted from ORP to ECY via letter 10-TPD-176 on 12/28/10.

M-045-80, Complete those portions of C-200 Closure Demonstration Plan, Due: 1/31/2011 Status: Complete. Four primary documents transmitted from ORP to Ecology via letter 10-TPD-166 on 12/28/10.

M-045-81, Implement & complete all remaining activities in C-200 Closure Demonstration Plan and provide a report of the results of those activities, Due: 9/30/2014, Status: On Schedule. The first deliverable specified in the closure demonstration plan was formally transmitted from ORP to ECY via letter 10-TPD-166 on 12/28/10.

M-045-82, Submit complete permit mod requests for Tiers 1, 2, & 3 of the SST, Due: 9/30/2015 Status: On Schedule

M-045-84, Complete negotiations of TPA interim MS for closure of second WMA, Due: 1/31/2017, Status: On Schedule

M-045-83, Complete the closure of WMA C, Due: 6/30/2019, Status: On Schedule

M-045-85, Complete negotiations of TPA interim MS for closure of remaining WMAs, Due: 1/31/2022, Status: On Schedule

M-045-70, Complete waste retrieval from all remaining SSTs, Due: 12/31/2040, Status: On Schedule

M-045-00, Complete Closure of all Single Shell Tank Farms, Due: 1/31/2043, Status: On Schedule

M-045-86, Submit retrieval data report to Ecology for 19 tanks retrieved, Due: TBD (12 months after retrieval certification), Status: On Schedule

Significant Past Accomplishments:

- Per letter 10-TPD-166 (dated 12/28/10) for M-045-80 and M-045-81, DOE submitted:
 - Radioactive Waste Determination process Plan for waste Management Area C Tank Waste Residuals, RPP-PLAN-47325, Revision 0
 - Single-Shell Tank waste Management Area C RCRA/CERCLA Integration White Paper RPP-46459, Revision 1

- Tank Farm - Tank Removal Study, RPP-RPT-47167, Revision 0
- Catch Tank 241-C-301 Retrieval Feasibility Study, RPP-RPT-45723, Revision 0
- Single-Shell Tank System Waste Management Area C Pipeline Feasibility Evaluation, RPP-PLAN-47559, Revision 0
- Per letter 10-TPD-176 (dated 12/28/10) for M-045-100 and M-045-101:
 - Single-Shell Tank System Catch Tank Assumed Leak Response Plan, RPP-RPT-48438, Revision 0
 - Single-Shell Tank System Component Identification and Proposed Closure Strategy, RPP-PLAN-41977, Revision 1

Significant Planned Activities in the Next Six Months:

See discussions above and related discussions in Consent Decree report.

Issues:

- Primary Document Adequacy: Ecology has given verbal notice of a forthcoming NOV that milestone M-45-100 was not completed on schedule due to inadequacies in Single-Shell Tank System Catch Tank Assumed Leak Response Plan, RPP-RPT-48438, Revision 0.
- Primary Document Review Extensions: Ecology has extended review period for the M-45-80, -81, -100, and -101 primary documents listed above twice. The current extension, received by ORP on 4/20/11 via ECY letter 11-NWP-028, extends the review period to 5/30/10. ORP acknowledges these extensions per HFFACO Section 9.2 and awaits Ecology comments.
- Tank Farm Soil Cleanup: Unsigned draft Tentative Agreement and unsigned draft Change Packages C-11-01 (for WMA C soil to be addressed as RCRA/CERCLA Past Practice Unit) and M-45-11-02 (title changes to M-045-61 and -62 to allow CAD/ROD process) were presented to Ecology on 03/29/11. Ecology preference is to address soils through a 3116 and RCRA process.
- The Richland Office of USDOE has proposed an IS-1 alternate to the planned deliverable, as we understand the “IS-1 Common Vision” discussion on 1-18-11. IS-1 requires the delivery of an RFI/CMS that would include Tank Farm Pipelines. This should be included in the critical path as well.
- C-106 Closure Plan approval and SST radiological Categorical Notice of Construction (NOC) Phase 3 (closure) and a toxics categorical NOC application are pending completion of the Tank Closure and Waste Management Environmental Impact Statement (EIS) and associated Record of Decision (ROD); forecast completion for the final EIS is in the Winter of 2011.
- USDOE is delaying the final numeric modeling supporting the WMA C performance assessment to align the timing with completion of the Tank Closure and Waste Management EIS. Impacts of this delay are being incorporated into the critical path schedules.

Tank in Appendix H. Status - Single Shell Waste Retrieval Criteria

Tank 241-C-106

Significant Past Accomplishments:

None

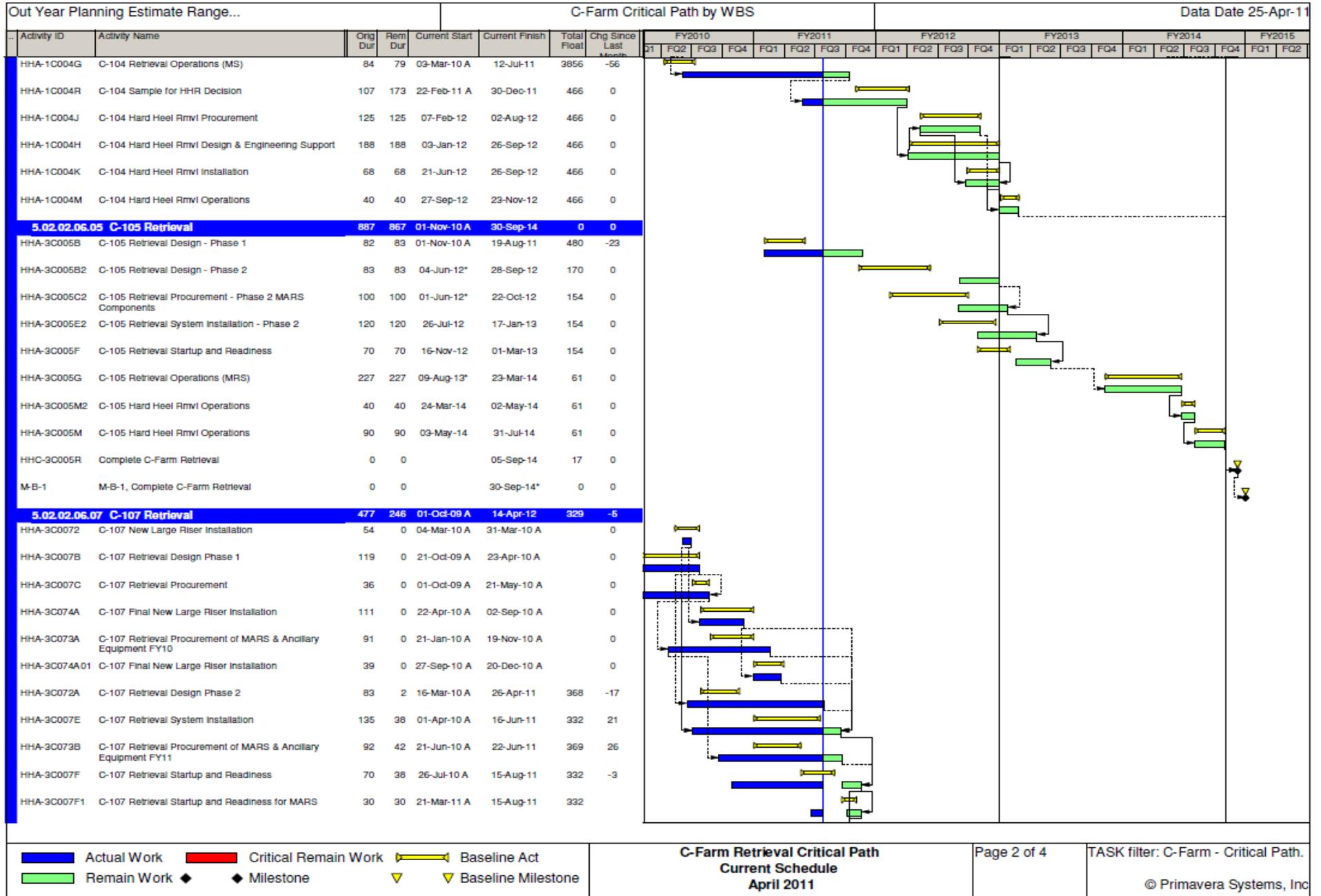
Significant Planned Activities in the Next Six Months:

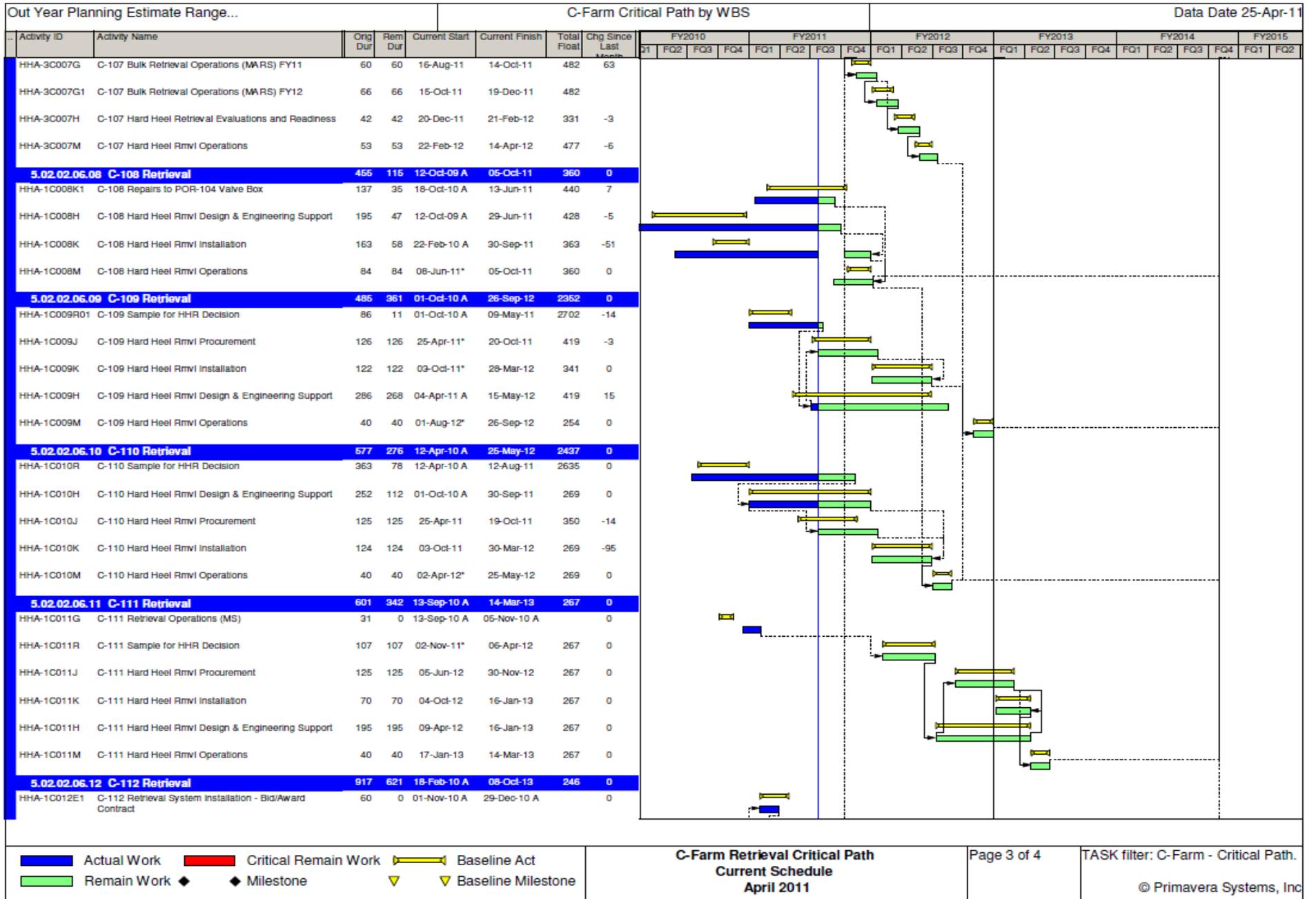
- Continue U.S. Nuclear Regulatory Commission (NRC) review of the C-106 exception request. A Request for Additional Information (RAI) was received from the NRC in February 2009. (It has been discussed with the NRC that much of the additional information requested is dependent upon development of C-Farm residual waste PA and, therefore, cannot be provided until the PA is published.)
- Continue WMA-C PA workshops with Ecology, EPA, NRC, and DOE HQ focused ecological risk assessment, and review of results from soil sampling.

Issues:

None

Out Year Planning Estimate Range...				C-Farm Critical Path by WBS					Data Date 25-Apr-11																						
Activity ID	Activity Name	Orig Dur	Rem Dur	Current Start	Current Finish	Total Float	Chg Since Last Month	FY2010				FY2011				FY2012				FY2013				FY2014				FY2015			
								Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
5.02.02.06.01 C-101 Retrieval																															
HHA-3C001B	C-101 Retrieval Design	144	96	18-Oct-10 A	10-Feb-14	2008	0																								
HHA-3C001C1	C-101 Retrieval Procurement - Bid/Award Purchase Orders	40	50	06-Jan-11 A	08-Sep-11	2617	-30																								
HHA-3C001E1	C-101 Retrieval System Installation Bid/Award Contract	60	60	06-Apr-11 A	08-Sep-11	148	-30																								
HHA-3C001C	C-101 Retrieval Procurement - Receive Equipment	138	166	21-Apr-11 A	19-Dec-11	238	-30																								
HHA-3C001E	C-101 Retrieval System Installation	220	220	23-May-11*	05-Apr-12	164	-20																								
HHA-3C001F	C-101 Retrieval Startup and Readiness	211	211	28-Jul-11	29-May-12	164	-27																								
HHA-3C001G	C-101 Retrieval Operations (MS)	84	84	30-May-12	26-Sep-12	164	-27																								
HHA-3C001M1	C-101 Sample for Hard Heel Removal Decision	107	107	01-Oct-12	06-Mar-13	162	0																								
HHA-3C001R	C-101 Hard Heel Rmvl Procurement	125	125	02-May-13	28-Oct-13	162	0																								
HHA-3C001T	C-101 Hard Heel Rmvl Design & Engineering Support	195	195	07-Mar-13	11-Dec-13	162	0																								
HHA-3C001S	C-101 Hard Heel Rmvl Installation	70	70	03-Sep-13	11-Dec-13	162	0																								
HHA-3C001M	C-101 Hard Heel Rmvl Operations	40	40	12-Dec-13	10-Feb-14	162	0																								
5.02.02.06.02 C-102 Retrieval																															
HHA-1C002B	C-102 Retrieval Design	108	89	07-Dec-10 A	29-Aug-11	37	-25																								
HHA-1C002E1	C-102 Retrieval System Installation - Bid/Award Contract	60	60	03-Oct-11*	29-Dec-11	14	0																								
HHA-1C002C1	C-102 Retrieval Procurement - Bid/Award Purchase Orders	40	40	06-Mar-12	30-Apr-12	14	0																								
HHA-1C002C	C-102 Retrieval Procurement	80	80	01-May-12	22-Aug-12	14	0																								
HHA-1C002E	C-102 Retrieval System Installation	185	185	30-Dec-11	20-Sep-12	14	0																								
HHA-1C002F	C-102 Retrieval Startup and Readiness	70	70	26-Jul-12	01-Nov-12	14	0																								
HHA-1C002G	C-102 Retrieval Operations (MS)	170	170	02-Nov-12	20-Apr-13	24	0																								
HHA-1C002R	C-102 Sample for HHR Decision	113	113	22-Apr-13	30-Sep-13	17	0																								
HHA-1C002J	C-102 Hard Heel Rmvl Procurement	125	125	26-Nov-13	28-May-14	17	0																								
HHA-1C002H	C-102 Hard Heel Rmvl Design & Engineering Support	195	195	01-Oct-13	10-Jul-14	17	0																								
HHA-1C002K	C-102 Hard Heel Rmvl Installation	70	70	02-Apr-14	10-Jul-14	17	0																								
HHA-1C002M	C-102 Hard Heel Rmvl Operations	40	40	11-Jul-14	05-Sep-14	17	0																								
5.02.02.06.04 C-104 Retrieval																															
5.02.02.06.04....	C-104 Retrieval Start-up/Testing Support	44	0	11-Feb-09 A	08-Jan-10 A	0	0																								
5.02.02.06.04....	C-104 Retrieval Operations to 25%	20	0	08-Jan-10 A	18-Feb-10 A	0	0																								
5.02.02.06.04....	C-104 Acceleration Tank Retrieval Ops (Supplemental)	27	0	18-Feb-10 A	03-Mar-10 A	0	0																								





Out Year Planning Estimate Range...				C-Farm Critical Path by WBS										Data Date 25-Apr-11														
Activity ID	Activity Name	Orig Dur	Rem Dur	Current Start	Current Finish	Total Fical	Chg Since Last Month	FY2010				FY2011				FY2012				FY2013				FY2014		FY2015		
								Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
HHA-1C012C1	C-112 Retrieval Procurement - Bid/Award Purchase Orders	30	5	01-Oct-10 A	29-Apr-11	168	-20																					
HHA-1C012B	C-112 Retrieval Design	125	48	18-Feb-10 A	30-Jun-11	125	0																					
HHA-1C012E	C-112 Retrieval System Installation	144	109	09-Jan-11 A	27-Sep-11	370	-17																					
HHA-1C012F	C-112 Retrieval Startup and Readiness	107	107	02-May-11*	30-Sep-11	367	0																					
HHA-1C012C01	C-112 Retrieval Procurement	130	134	17-Jan-11 A	01-Nov-11*	39	-15																					
HHA-1C012G	C-112 Retrieval Operations (MS)	64	64	01-Oct-11	03-Dec-11	536	0																					
HHA-1C012R	C-112 Sample for HHR Decision	107	107	01-Jun-12*	31-Oct-12	246	0																					
HHA-1C012J	C-112 Hard Heel Rmvl Procurement	125	125	09-Jan-13	28-Jun-13	246	0																					
HHA-1C012K	C-112 Hard Heel Rmvl Installation	70	70	09-May-13	12-Aug-13	246	0																					
HHA-1C012H	C-112 Hard Heel Rmvl Design & Engineering Support	195	195	01-Nov-12	12-Aug-13	246	0																					
HHA-1C012M	C-112 Hard Heel Rmvl Operations	40	40	13-Aug-13	08-Oct-13	246	0																					
5.02.02.06.10 C-Farm Infrastructure DST Receiver Tan...							399	77	09-Oct-09 A	11-Aug-11	334	-18																
HNA-1NFC0B	C-Farm Infrastructure DST Receiver Tank 3 Design	145	0	09-Oct-09 A	22-Apr-11 A	18																						
HNA-1NFC0C	C-Farm Infrastructure DST Receiver Tank 3 Procurement	140	22	01-Mar-10 A	24-May-11	369	-7																					
HNA-1NFC0D	C-Farm Infrastructure DST Receiver Tank 3 Construction	105	57	17-May-10 A	14-Jul-11	334	-18																					
HNA-1NFC0E	C-Farm Infrastructure DST Receiver Tank 3 Startup/Readiness	30	77	26-Oct-10 A	11-Aug-11	334	-18																					
5.02.02.06.20 C-Farm Infrastructure DST Receiver Tan...							375	387	07-Dec-10 A	01-Nov-12	14	0																
HNA-2NFC0B	C-Farm Infrastructure DST Receiver Tank 4 Design	120	132	07-Dec-10 A	28-Oct-11	14	0																					
HNA-2NFC0D1	C-Farm Infrastructure DST Receiver Tank 4 Construction	60	60	31-Oct-11	27-Jan-12	14	0																					
HNA-2NFC0D	C-Farm Infrastructure DST Receiver Tank 4 Construction	165	165	30-Jan-12	20-Sep-12	14	0																					
HNA-2NFC0E	C-Farm Infrastructure DST Receiver Tank 4 Startup/Readiness	70	70	26-Jul-12	01-Nov-12	14	0																					

█ Actual Work █ Critical Remain Work ▬ Baseline Act
█ Remain Work ◆ Milestone ▽ Baseline Milestone

**C-Farm Retrieval Critical Path
Current Schedule
April 2011**

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TASK filter: C-Farm - Critical Path.
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Tank Retrievals with Individual Milestones

Tank 241-A-103

M-045-15, Completion of Tank A-103 SST Waste Retrieval, Due: 9/30/22 Status: On schedule. Recent change package M-45-11-04 switched tank S-102 to A-103 with a completion date of 09/30/2022 for M-045-15.

M-045-15A, Embedded Milestone, Submit a Retrieval Data Report Pursuant to Agreement Appendix I, Due: 9/30/22, Status: On schedule. Updated with A-103 tank and due date of 9/30/22 per M-45-11-04 Change Package.

M-045-15B, Embedded Milestone, Remaining Wastes have been adequately Characterized, and a Risk Assessment has been completed for residuals that remain in the tank, Due: 6/30/11, Status: Deleted per M-45-11-04 Change Package.

M-045-15C, Embedded Milestone, An update to the S-102 Component Closure Activity Plan has been submitted by DOE, Due: 6/30/11, Status: Deleted per M-45-11-04 Change Package.

M-045-15D, Embedded Milestone, if appropriate, DOE will request an exception to waste retrieval criteria pursuant to Agreement Appendix H, Due: 9/30/22, Status: On Schedule. Updated with A-103 tank and due date of 9/30/22 per M-45-11-04 Change Package.

Significant Past Accomplishments:

- Change Package M-45-11-04 was signed by ORP and Ecology on 04/19/11.

Significant Planned Activities in the Next Six Months:

None

Issues:

None

Tank 241-S-112

M-045-13, Interim Completion of Tank S-112 SST Waste Retrieval and Closure Demonstration Project, Due: TBD (in accordance with M-045-84 or M-045-85), Status: On Schedule

M-045-13E, Complete Negotiations for Interim Milestones for Closure of S-112, Due: TBD Status: On Schedule as part of M-045-84 and M-045-85.

Significant Past Accomplishments:

- Ecology letter of January 7, 2008, concurred with ORP that retrieval of Tank S-112 is complete.

Significant Planned Activities in the Next Six Months:

None

Issues:

None

Complete Closure of Double Shell Tanks

M-042-00A, Complete closure of all double shell tank farms, Due: TBD, based upon completion of retrieval under M-62-45 plus 5 yrs but no later than 9/30/2052 Status: On Schedule

Significant Past Accomplishments:

None

Significant Planned Actions in the Next Six Months:

None

Issues:

None

242-A Evaporator Status (previously reported under Milestone M-48, which has been closed out)

242-A Campaign strategy:

One (1) cold run (utilizing water only) and two (2) waste processing campaigns were completed in FY2010. No additional campaigns are anticipated in CY2011 due to ongoing 242-A and Tank Farm Life Extension and ARRA funded facility upgrades. The 242-A Campaign Strategy for FY2010 through FY2015 depicted below has been updated based on ORP-11242, River Protection Project Plan, Revision 5, and ongoing schedule integration efforts.

Fiscal Year	Campaign No.	Feed Source	Slurry Tank	Comments
FY10	10-01	AW-106	AW-106	Campaigns 10-01/10-02 were performed back-to back starting in late August and completing in early October 2010. Campaign 10-02 was an acceleration of previously planned Campaign 11-01.
FY10	10-02	AW-106	AW-106	
FY11	NA	NA	NA	No campaign planned in FY11 due to ongoing 242-A and Tank Farm facility life extension and ARRA funded upgrades.
FY12	12-01	AP-107 AZ-102	AP-104 AP-107	Estimated start June 2012. Anticipates blending AZ-102 high cesium concentration with AP-107 waste. May require two (2) passes to achieve waste volume reduction.
FY12	12-02	AP-107 AZ-102	AP-107	Estimated start August 2012. Anticipates blending AZ-102 high cesium concentration with AP-107 waste. May require two (2) passes to achieve waste volume reduction.
FY13	13-01	AW-106	AP-107	Estimated start March 2013. Two (2) passes required.
FY13	13-02	AZ-101 AN-101 AW-106	AP-107	Estimated start September 2013. Two (2) passes required.
FY14	14-01	AN-106 AZ-102 AW-106	AP-107	Estimated start March 2014. Two (2) passes required.
FY15	15-01	AY-101 AZ-102	AP-107	Estimated start March 2015. Three (3) passes required.
FY15	15-02	AY-101	AP-107	Estimated start August 2015. Four (4) passes required.

SST Integrity Assurance

M-045-91G-T05, Provide to Ecology a report documenting and evaluating the visual inspection of 12 SSTs per the criteria listed in Table 3.3 in RPP-PLAN-46847, Rev.0, Due: 3/31/2011, Status: Complete 03/11/11 (Letter 11-TF-039). Ecology completed review and sent an approval letter stating ORP had met this milestone on 5/12/2011.

M-045-91C, implement the DQO process to develop and provide Ecology a Test Plan to evaluate the chemistries as specified in RPP-RPT-43 116. Rev 0, Due: 9/30/2011, Status: On Schedule

M-045-91G-T01, Provide to Ecology the Structural Analyses of Record final documentation for SSTs for 530, 000 gallon tanks (B, BX. C, T and U Farms), Due: 9/30/2011, Status: On Schedule

M-045-91B, Submit a Sampling and Analysis Plan to Ecology for the sampling of sidewall cores from tank 241-A-106 or alternate tank approved by Ecology, Due: 12/30/2011, Status: On Schedule

M-045-91F-T01, Provide to Ecology as a HFFACO secondary document a report evaluating the applicability to Hanford SSTs of the liquid leak rate assessments of sludge and salt-cake from the Savannah River Site, Due: 1/31/2012, Status: On Schedule

M-045-91F-T02, Provide to Ecology as a HFFACO secondary document a report evaluating the common factors of liner failures for SSTs that have leaked and will provide recommendations as appropriate, such as enhanced Leak Detection, Monitoring, and Mitigation, Due: 1/31/2012, Status: On Schedule

M-045-91G-T02, provide to Ecology the Structural Analyses of Record final documentation for SSTs for 750,000 gallon tanks (BY, S, TX and TY Farms), Due: 1/31/2012, Status: On Schedule

M-045-91D, Submit to Ecology an analytical test plan for the cores removed from the C-107 plug, Due: 3/31/2012, Status: On Schedule

M-045-91G-T06, Provide to Ecology a report documenting and evaluating the visual inspection of 12 SSTs per the criteria in M-045-91G-T05, Due: 3/31/2012, Status: On Schedule

M-045-91G-T03, Provide to Ecology the Structural Analyses of Record final documentation for SSTs for 1,000,000 gallon tanks (A, AX and SX Farms), Due: 9/30/2012, Status: On Schedule

M-045-91D-T01, Provide Ecology a report containing the results and interpretation of testing, and analysis performed on the concrete dome samples obtained from the Tank C-107 plug, Due: 5/31/2013, Status: On Schedule

M-045-91F-T03, Provide to Ecology, as a HFFACO secondary document a report assessing the feasibility of testing for ionic conductivity between the inside and outside of SSTs, Due: 5/31/2013, Status: On Schedule

M-045-91F-T04, provide to Ecology, as a HFFACO secondary document, a report on the 100-series single-shell tanks which have been or will be identified as having leaked in RPP-32681, Rev 0, Due: 7/31/2013, Status: On Schedule. Ecology and ORP are jointly drafting a Class III Change Request, M-45-11-05, aligning the completion dates of this milestone and M-045-91F-T02 (“Common Factors of Liner Failures for SSTs” report) to ensure all of this milestone’s leak evaluations will be available for use in the Common Factors report.

M-045-91E, Provide to Ecology a compilation of the Single-Shell Tank farms dome deflection surveys every two years, beginning 9/30/2013, Due: 9/30/2013, Status: On Schedule

M-045-91G-T04, provide to Ecology the Structural Analyses of Record final documentation for SSTs for 55,000 gallon tanks (B, C, T and U Farms), Due: 10/31/2013, Status: On Schedule

M-045-91F, Provide to Ecology a report (Summary Conclusions Report on Leak Integrity) summarizing and evaluating the information submitted under M-045-91F-T01 through - T04, Due: 12/31/2013, Status: On Schedule

M-045-91G, Provide a Summary Conclusions Report of Structural Analysis of Record (AOR) for SSTs, Due: 4/30/2014, Status: On Schedule

M-045-91B-T01, Provide Ecology a report containing the results and interpretation of testing, and analysis, performed on the concrete core obtained from Tank A- 106 or alternate tank, Due: 9/30/2014, Status: On Schedule

M-045-91H, Submit a change package (if deemed necessary by DOE and Ecology) to establish additional milestones based on information obtained from the actions in the preceding M-045-91 series milestones to date, Due: 7/31/2015, Status: On Schedule

M-045-91I, Provide to Ecology an IQRPE certification of SSTs structural integrity for the remainder of the mission, or for such time as the IQRPE believes he/she can reasonably certify, Due: 9/30/2018, Status: On Schedule

Significant Past Accomplishments:

- M-045-91G-T05: Complete 03/11/11 (Letter 11-TF-039) Approved by Ecology 5/12/2011
- M-045-91B: Draft DQO report sent to Ecology 04/20/11. Comment resolution meeting held May 5/9/2011. All comments satisfactorily resolved.
- M-045-91D: Draft Analytical Test Plan for Tank C-107 dome core analyses were submitted to Ecology 5/5/2011. Ecology provided comments 5/11/2011 and authorized core samples to be shipped to the lab. Due: 03/31/2012.

- M-045-91C: Implement the DQO process to develop and provide Ecology a Test Plan to evaluate the chemistries as specified in RPP-RPT-43116. Rev 0. A DQO meeting was held 4/27/2011. Due: 9/30/2011.

Significant Planned Actions in the Next Six Months:

- M-045-91B: Finalized DQO and SAP is planned to be submitted to Ecology 07/2011 (approximately 5 months in advance). Due 12/30/11.
- Complete milestone M-045-91C, implement the DQO process to develop and provide Ecology a Test Plan to evaluate the chemistries as specified in RPP-RPT-43 116. Rev 0, Due: 9/30/2011. The DQO is being drafted for Ecology review and comment.
- Complete milestone M-045-91F-T03, plan to provide Ecology, Ionic Conductivity Feasibility Report in July. Due: 5/31/2013.
- M-045-91F-T04: Leak assessments are ongoing with meetings every other week through 2012.
- Complete milestone M-045-91G-T01, Provide to Ecology the Structural Analyses of Record final documentation for SSTs for 530, 000 gallon tanks (B, BX. C, T and U Farms), planned submittal to Ecology in July. Due: 9/30/2011.
- Complete milestone M-045-91G-T02, Provide to Ecology the Structural Analyses of Record final documentation for SSTs for 750, 000 gallon tanks (BY, S. TX, and TY Farms), planned submittal to Ecology in October. Due: 1/31/2012.

Issues:

None

Interim Stabilization Consent Decree

I. Near-Term Deliverables:

D-001-00, Complete Interim Stabilization of all 29 SSTs

Due: 09/30/04

Status: Completed on March 31, 2004, with discontinuation of pumping in U-108 and subsequent consultation with Ecology staff. Interim stabilization of S-102 and S-112 is held in abeyance by third amendment to the Consent Decree. ORP's obligation to interim stabilize S-112 was satisfied upon completion of retrieval operations. Retrieval of S-102 has been impacted by the spill at this tank. A review of the January 25, 2010, video of the tank has shown approximately 2,400 gallons of supernatant liquid remaining. This is below the criteria for interim stabilization of less than 5000 gallons supernatant liquid.

On October 21, 2010, ORP received a letter from Ecology notifying ORP of Ecology's decision to require ORP to Interim Stabilize tank 241-S-102 within 18 months of receipt of its notification. ORP transmitted the required documentation to Ecology to demonstrate that tank 241-S-102 meets the requirements for interim stabilization, as set forth in Case Number CT-99-5076, Third Amendment on December 9, 2010 via letter 10-TPD-163.

On March 8, 2011, the Interim Stabilization Consent Decree was terminated.

II. Significant Accomplishments:

- Termination papers signed by court on 03/08/2011. This closes out the D-001-00 milestone series.

III. Significant Planned Actions in the Next 6 Months:

- None

IV. Issues

- None

In Tank Characterization and Summary

For the period from April 1 – April 30, 2011:

Accomplishments:

- Complete tank 241-C-109 off riser sampling on April 18, 2011.
- Completed Revision 18 of the DQO HNF-SD-WM-DQO-001, *Data Quality Objectives for Tank Farms Waste Compatibility Program*, on April 12, 2011.
- Completed Revision 12 of the DQO, RPP-8532, *Double-Shell Tanks Chemistry Control Data Quality Objectives*, on April 25, 2011.
- Completed Revision 0 of the TSAP RPP-PLAN-43865, *Sampling and Analysis Plan for Liquid and Solids in the 204-AR-TK-1 Catch Tank* on April 14, 2011.
- Completed the *ULD Calculation Spreadsheet v. 1.0 – FY11 Q2 BBI Update SVF-2213.xlsm* on April 26, 2011.
- Completed revision 2 of RPP-RPT-43493, *Derivation of Best-Basis Inventory for Tank 241-AP-106 as of April 1, 2011* for the FY11 quarter 3 BBI update on April 27, 2011.

Planned Action within the next Six Months:

- Tank Sampling
 - Tank 241-AP-105 corrosion mitigation grab samples scheduled for May 2011.
 - Tank 241-AY-101 corrosion mitigation grab samples scheduled for May 2011.
 - Tank 241-C-104 off riser sampling scheduled for August 2011.
 - Tank 241-AW-106 evaporator samples scheduled for August 2011.
 - Tank 204-AR-TK-1 compatibility samples scheduled for July 2011
 - Tank 241-C-108 hard heel dissolution samples scheduled for August 2011.
 - Tank 241-AN-106 corrosion mitigation samples scheduled for October 2011.
- BBI Updates
 - Nine tank updates are planned for FY11 Quarter 3.
 - One tank is complete and the information sent to BBI users.
 - Four other tanks have been started.
- Data Quality Objectives (DQO)
 - Complete revision 0 of the 244-CR Vault tanks in May 2011.
 - Complete revision 3 of the PCB Management DQO in July 2011.
 - Complete revision 0 of the SST Corrosion Test DQO in June 2011.

Issues:

None

TANK OPERATIONS CONTRACT (TOC) OVERVIEW

Project Performance

The earned value analysis is a comparison of cost and schedule contract-to-date performance. The earned value performance reporting reflects the format, Work Breakdown Structure (WBS) reporting levels, and variance thresholds as agreed to with the Tank Farms Operations Contractor (TOC) for monthly performance reporting. The earned value analysis is not intended to be a measurement of performance against existing Tri-Party Agreement Milestones.

WRPS Project Performance - (\$k)										
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC
CM	50,219.3	44,202.5	45,098.7	(6,016.8)	(896.2)	0.88	0.98			
FYTD	226,155.1	219,969.4	224,205.1	(6,185.7)	(4,235.7)	0.97	0.98	487,816.0	478,874.2	8,941.8
CTD	986,210.8	973,203.1	916,328.1	(13,007.7)	56,875.0	0.99	1.06	2,117,867.2	2,053,784.4	64,082.8
Red shaded cells indicates a SPI/CPI less than .90; Green shaded cells indicate a SPI/CPI between .90 and .99; and Blue shaded indicates a SPI/CPI greater than or equal to 1.										

The SV and CV analysis thresholds at the reporting levels are as follows:

5.01.01 - BASE OPERATIONS

March 2011 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CTD	208,604.0	204,998.0	210,560.5	(3,606.0)	(2%)	(5,562.6)	(3%)	0.98	0.97	430,628.1

Schedule Variance and Cost Variance Analysis

The unfavorable CTD SV (\$3,606k) is reportable:

Description/Cause: due to

- *RA-Sampling Operations, (\$1,420k)*: fabrication delays following ongoing design review and approval, which causes the construction subcontractor to wait for resolution of potential design changes.
- *DST Integrity Project, (\$1,079k)*: delayed encasement pressure checks in the AZ-01A pit due to the resolution of a problem evaluation request (PER) on lock and tag requirements and crane positioning issues, in addition to the failed jumper in the AZ-01A pit during a leak detection test that prevented crews from entering the pit to perform the encasement pressure checks.

These variances are offset by a favorable SV in *RA-Filter Replacement/Removal, \$585k*: due to completion of the Radial Filter Replacement project eight months ahead of schedule.

The unfavorable CTD CV (5,563k) is reportable:

Description/Cause: due to

- *DST TSR/Basic Maintenance, (\$9,806k)*: more resources required to repair failed equipment because more equipment failed than expected; field and project work has not required the level of support expected; and additional farms being maintained than planned.

- *RA-Management & Oversight*, (\$3,033k): more seat time required for qualification and certification training than planned and additional utilization of Request for Offsite Services (ROS) support for reporting.

These variances are offset by favorable CVs in *SST Safe Storage & Operations*, \$5,583k: continuous labor and subcontractor underruns because work did not materialize as planned.

5.01.04 – TANK FARM UPGRADES

March 2011 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CTD	78,198.7	77,913.6	66,912.0	(285.2)	(0%)	11,001.6	14%	1.00	1.16	141,972.5

Schedule and Cost Variance Analysis

The favorable CTD CV of \$11,002k is reportable:

Description/Cause: due to

- *RA-Remove Obsolete Equipment*, \$2,523k: fewer hours required to prepare the engineering documents to support the Demolish AN and AW Exhausters projects; use of lower rate engineering resources to prepare the engineering documentation for the Remove DST Obsolete Equipment project.
- *RA-DST Valve Assembly Upgrades*, \$1,757k: efficiencies and reduced pricing negotiated with the supply chain on the firm fixed-price contract for the fabrication of the jumpers for the AP, AN-A, and AN-B valve pits and condensed activities for the funnel replacements have resulted in savings on valve procurement and project support resources.

5.01.05 - PROJECT SUPPORT

March 2011 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CTD	284,091.6	283,912.5	265,368.5	(179.1)	(0%)	18,544.0	7%	1.00	1.07	560,902.8

Schedule Variance and Cost Variance Analysis

The favorable CTD CV of \$18,544k is reportable:

Description/Cause: due to

- *Liquidations*, \$5,950k: the FY09 and FY10 rate true-up to the higher than planned rates.
- *Finance Support*, \$2,588k: Continuity of Service over liquidations in FY09; P-card volume credit; and material and labor underruns due to unfilled staff positions.

These variances are offset by an unfavorable CV in *RA-Finance Support*, (\$5,503k): FY09 and FY10 rate adjustments based on estimated incurred cost rates.

5.02.01 - RETRIEVAL/CLOSURE PROGRAM

March 2011 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CTD	87,260.4	86,924.5	76,606.3	(335.9)	(0%)	10,318.3	12%	1.00	1.13	164,728.3

Schedule Variance and Cost Variance Analysis

The favorable CTD CV of \$10,318k is reportable:

Description/Cause: due to

- *Hose in Hose Transfer Line Disposition (SST)*, \$4,446k: efficiencies realized in engineering and the field by grouping multiple hoses together to work in parallel, and several HIHTLs were less contaminated than anticipated, therefore not requiring flushing or high radiation controls; and waste boxes were shipped directly to the disposal facility without using a subcontractor.
- *Catch Tank & Pipeline Reporting*, \$1,773k: efficiencies gained by using direct labor rather than contract support for the initial planning scope, preparing the report using an existing database, and the use of in-house rather than subcontract personnel for finalization and comment resolution of the report. Work scope complete.
- *Interim Barrier*, \$1,357k: efficiencies realized as part of the SGE activities by using multiple depth electrodes for data collection.

5.02.02 - SST RETRIEVAL EAST AREA

March 2011 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CTD	96,247.3	91,797.7	97,869.5	(4,449.5)	(5%)	(6,071.8)	(7%)	0.95	0.94	215,339.0

Schedule Variance and Cost Variance Analysis

The unfavorable CTD SV of (\$4,450k) is reportable:

Description/Cause: due to

- *C-107 Retrieval*, (\$1,744k): delays in completing the MARS resulting from additional system improvements and the related turnover documentation.
- *C-108 Retrieval*, (\$1,232k): engineering and plant forces resources directed to higher priorities, delaying fabrication of key equipment; modifications, repairs, and inspections are needed to existing equipment prior to installation of new equipment; and plant forces fieldwork supervisor continually reassigned to other work.
- *C-Farm Infrastructure DST Receiver Tank 3*, (\$1,216k): the change in designation of DST #3 receiver tank from AY-101 to AN-106 in order to utilize existing infrastructure from the C Farm in the AN Farm, and additional delays in procurement of the jumper assemblies, slurry distributor, and pump assembly.

The unfavorable CTD CV of (\$6,072k) is reportable:

Description/Cause: due to

- *C-104 Retrieval*, (\$9,228k): increased planning and preparatory work required for completion of 04-AZ jumper removal, pump removal/disposal, sluicer installation; additional cost associated with the installation and modifications to the Articulated Mast System (AMS); and increased cost in replacing the slurry pump.
- *C-107 Retrieval*, (\$4,618k): the MARS procurement costing more than estimated and higher subcontractor cost due to additional time to complete the MARS.

These variances are offset by favorable CVs in

- *C-110 Retrieval*, \$2,169k: due to efficiencies captured during C-110 waste retrieval operations because of the amount of slurry being greater than the model predicted.

- *C-Farm Infrastructure DST Receiver Tank 3*, \$1,999k: efficiencies realized from changing the designation of the receiver tank from AY-101 to AN-106, which avoids duplicating efforts in the AY Farm including resources, materials, and equipment.

5.03.01 - WTP FEED DELIVERY PROGRAM

March 2011 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CTD	43,465.6	42,888.5	35,099.6	(577.1)	(1%)	7,789.0	18%	0.99	1.22	88,993.9

Schedule Variance and Cost Variance Analysis

The favorable CTD CV of \$7,789k is reportable:

Description/Cause: due to

- *WFD PE/Flow Sheet*, \$2,075k: lack of contract support until scope was established and delays in hiring staff. Additional saving is due to less request for baseline flow sheets than originally planned and staff working on System Plan Rev. 6.
- *WFD Technical Baseline*, \$1,520k: technical task being completed with fewer engineering hours than expected.
- *RA-WFD Tank Mixing & Sampling*, \$961k: the transfer of \$1,037k to SRNL for the bench-scale demonstration.

5.03.02 - CONSTRUCT DST SYSTEMS

March 2011 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CTD	12,620.2	12,225.5	10,685.3	(394.7)	(3%)	1,540.2	13%	0.97	1.14	93,735.2

Schedule Variance and Cost Variance Analysis

The favorable CTD CV of \$1,540k is reportable:

Description/Cause: due to

- *DST Feed Delivery Project Management*, \$533k: FY09 staff vacancies and efficiencies with developing the DST Upgrade strategic management plan resulting from highly qualified staff.
- *RA- DST Feed Delivery Environmental/Permitting*, \$350k: a duplication of resources budgeted in FY10.
- *RA- Waste Feed EPCC [Engineering, Procurement, Construction, and Commissioning] - Strategic Plan*, \$332k: a duplication of resources budgeted in FY10.

5.03.03- RA- TRANSFER SYSTEM MOD PROJECT

March 2011 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CTD	15,092.5	15,075.1	12,012.0	(17.4)	(0%)	3,063.1	20%	1.00	1.26	20,581.3

Schedule Variance and Cost Variance Analysis

The favorable CTD CV of \$3,063k is reportable:

Description/Cause: due to

- *RA-SY Transfer Line Upgrades*, \$805k: efficiencies from consolidating fieldwork, which reduced duration and resources.

5.03.06 - IMMOBILIZATION PROGRAM

March 2011 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CTD	7,586.7	7,580.7	5,613.9	(6.0)	(0%)	1,966.8	26%	1.00	1.35	31,344.4

Schedule Variance and Cost Variance Analysis

The favorable CTD CV of \$1,967k is reportable:

Description/Cause: due to

- *Hanford IHLW Storage Project Support*, \$604k: labor efficiencies realized by using prior knowledge, limiting the need for additional engineering support.
- *Interim Hanford Storage Facility Project Mgmt*, \$573k: labor efficiencies realized by using prior knowledge, limiting the need for additional engineering support. Additional savings realized from not ramping up the Integrated Project Team due to a delay in receiving CD-0.

5.03.07 - WTP OPERATIONAL READINESS

March 2011 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CTD	7,622.4	7,618.7	6,430.8	(3.6)	(0%)	1,188.0	16%	1.00	1.18	16,111.0

Schedule Variance and Cost Variance Analysis

The favorable CTD CV of \$1,188k is reportable:

Description/Cause: due to

- *WTP Interface Management*, \$359k: delayed hiring project staff in the first quarter due to utilization of highly trained individuals with applicable experience.
- *WTP Pretreatment Engineering Platform*, \$312k: work was submitted with available information at a significant savings.
- *WTP Operations Readiness Plan*, \$178k: less labor than planned. Work scope complete.
- *WTP Transition*, \$177k: delayed hiring project staff.

5.03.09 – TANK WASTE PRETREATMENT PROJECT

March 2011 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CTD	6,690.6	6,383.9	3,622.4	(306.7)	(5%)	2,761.5	43%	0.95	1.76	6,863.0

Schedule Variance and Cost Variance Analysis

The favorable CTD CV of \$2,762k is reportable:

Description/Cause: due to

- *TDD-RMF/SCIX/FNSR Technology/Evaluations*, \$2,253k: the de-obligating of WRPS funds to direct fund both SNNL and ATL/222-S Laboratory in support of FBSR sample analysis and product testing.
- *Lithium/Bayer Pretreatment Program*, \$366k: under run from the delayed receipt and cancellation of technology development and demonstration funds. Work scope complete.

5.03.10 – SECONDARY WASTE TREATMENT/ETF

March 2011 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CTD	9,399.0	9,413.6	7,440.9	14.7	0%	1,972.7	21%	1.00	1.27	34,920.4

Schedule Variance and Cost Variance Analysis

The favorable CTD CV of \$1,973k is reportable:

Description/Cause: due to

- *RA-Secondary Waste Form Testing*, \$1,044k: efficiencies associated with Ceramcrete® and FBSR test plan development, lower costs for purchasing chemicals for testing, and labor efficiencies in laboratory testing of samples.
- *Secondary Waste Treatment/EFT Project Mgmt*, \$524k: fewer resources charging than planned.

5.04.01 - SUPPLEMENTAL TREATMENT

March 2011 (\$k)

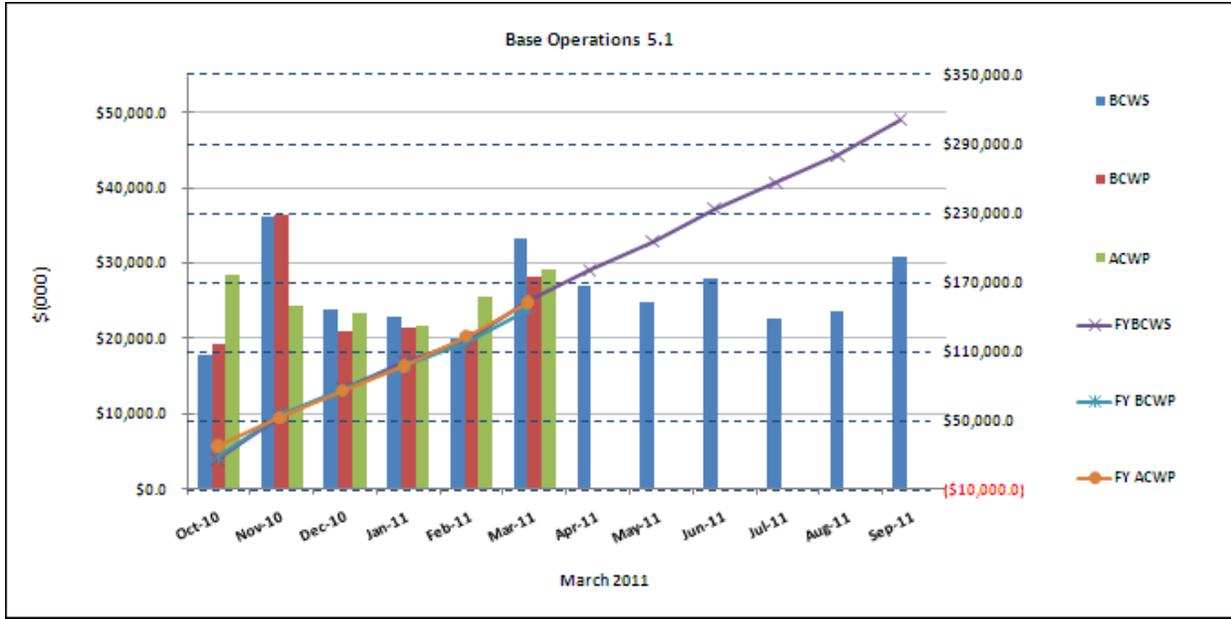
	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CTD	7,587.7	7,067.4	6,241.3	(\$20.3)	(7%)	826.1	12%	0.93	1.13	23,780.5

Schedule Variance and Cost Variance Analysis

The favorable CTD CV of \$826k is reportable:

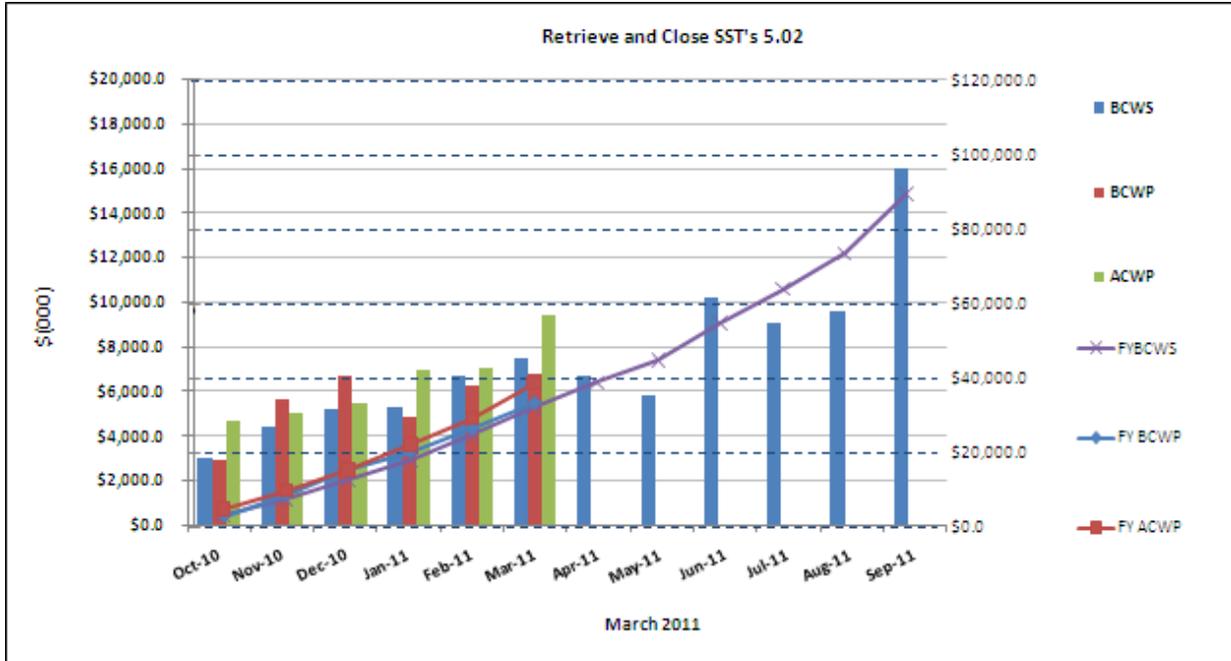
Description/Cause: due to

- *Treatment Project Support*, \$190k: lower utilization of resources.
- *Immobilization Project Support*, \$124k: lower utilization of resources and one open engineering position.



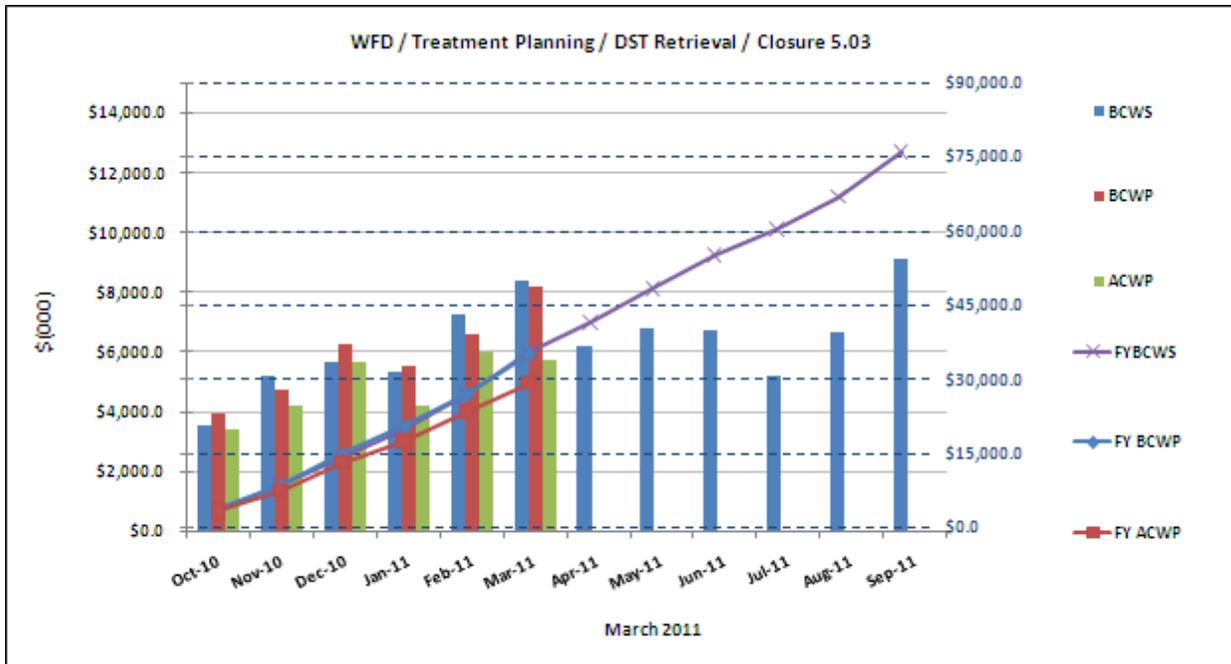
Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-10	\$17,777.2	\$19,285.1	\$28,549.6	1.08	0.68	\$17,777.2	\$19,285.1	\$28,549.6	1.08	0.68
Nov-10	\$36,143.1	\$36,366.3	\$24,452.2	1.01	1.49	\$53,920.3	\$55,651.4	\$53,001.8	1.03	1.05
Dec-10	\$23,775.6	\$20,995.7	\$23,448.8	0.88	0.90	\$77,695.9	\$76,647.1	\$76,450.6	0.99	1.00
Jan-11	\$22,876.6	\$21,370.0	\$21,705.1	0.93	0.98	\$100,572.5	\$98,017.1	\$98,155.7	0.97	1.00
Feb-11	\$20,031.0	\$21,023.0	\$25,607.6	1.05	0.82	\$120,603.5	\$119,040.1	\$123,763.3	0.99	0.96
Mar-11	\$33,329.2	\$28,292.6	\$29,059.6	0.85	0.97	\$153,932.7	\$147,332.7	\$152,822.9	0.96	0.96
Apr-11	\$26,989.3					\$180,922.0				
May-11	\$24,825.5					\$205,747.5				
Jun-11	\$28,050.3					\$233,797.8				
Jul-11	\$22,688.4					\$256,486.2				
Aug-11	\$23,719.6					\$280,205.8				
Sep-11	\$30,894.2					\$311,100.0				

CTD	\$666,916.6	\$661,666.0	\$636,949.4	0.99	1.04
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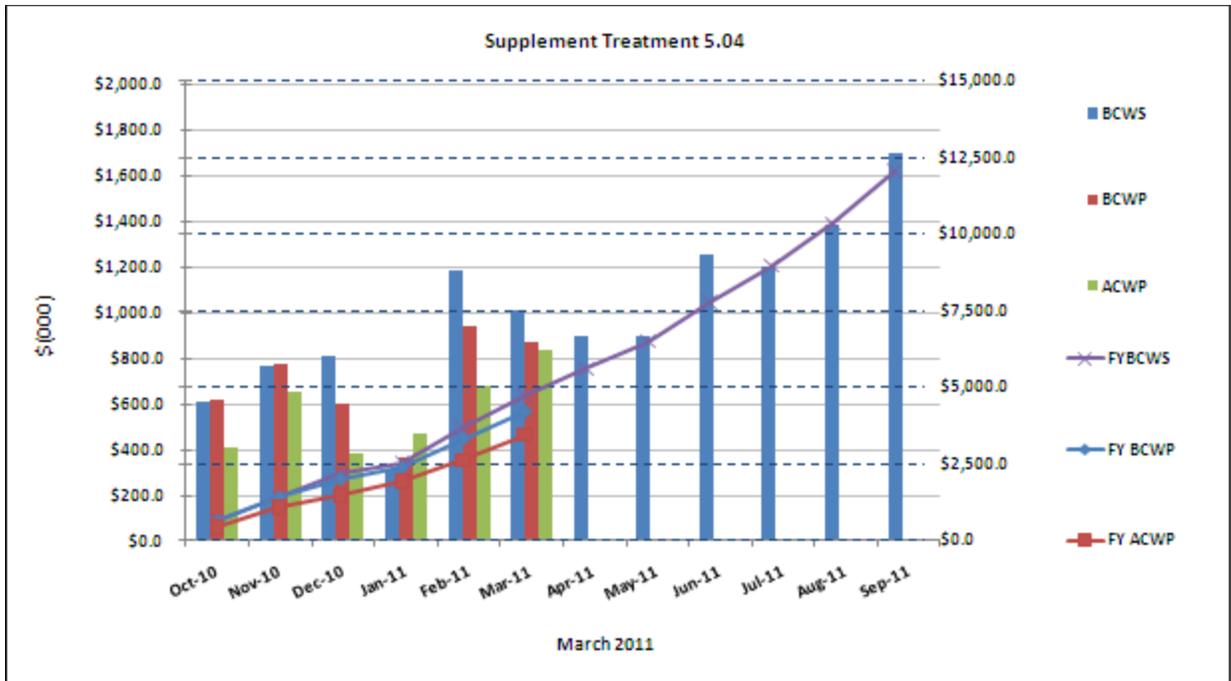
Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-10	\$2,991.6	\$2,932.6	\$4,707.6	0.98	0.62	\$2,991.6	\$2,932.6	\$4,707.6	0.98	0.62
Nov-10	\$4,412.7	\$5,622.7	\$5,006.7	1.27	1.12	\$7,404.3	\$8,555.3	\$9,714.3	1.16	0.88
Dec-10	\$5,209.7	\$6,682.7	\$5,494.0	1.28	1.22	\$12,614.0	\$15,238.0	\$15,208.3	1.21	1.00
Jan-11	\$5,310.0	\$4,820.2	\$6,975.6	0.91	0.69	\$17,924.0	\$20,058.2	\$22,183.9	1.12	0.90
Feb-11	\$6,670.0	\$6,253.2	\$7,006.6	0.94	0.89	\$24,594.0	\$26,311.4	\$29,190.5	1.07	0.90
Mar-11	\$7,513.3	\$6,825.3	\$9,447.6	0.91	0.72	\$32,107.3	\$33,136.7	\$38,638.1	1.03	0.86
Apr-11	\$6,709.5					\$38,816.8				
May-11	\$5,854.3					\$44,671.1				
Jun-11	\$10,202.7					\$54,873.8				
Jul-11	\$9,031.9					\$63,905.7				
Aug-11	\$9,630.5					\$73,536.2				
Sep-11	\$16,001.6					\$89,537.8				

CTD	\$193,377.3	\$187,489.9	\$181,167.2	0.97	1.03
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Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-10	\$3,540.0	\$3,944.3	\$3,413.8	1.11	1.16	\$3,540.0	\$3,944.3	\$3,413.8	1.11	1.16
Nov-10	\$5,203.6	\$4,748.8	\$4,184.7	0.91	1.13	\$8,743.6	\$8,693.1	\$7,598.5	0.99	1.14
Dec-10	\$5,677.1	\$6,277.7	\$5,689.4	1.11	1.10	\$14,420.7	\$14,970.8	\$13,287.9	1.04	1.13
Jan-11	\$5,366.1	\$5,557.1	\$4,225.6	1.04	1.32	\$19,786.8	\$20,527.9	\$17,513.5	1.04	1.17
Feb-11	\$7,269.3	\$6,582.6	\$5,993.5	0.91	1.10	\$27,056.1	\$27,110.5	\$23,507.0	1.00	1.15
Mar-11	\$8,362.9	\$8,213.8	\$5,757.0	0.98	1.43	\$35,419.0	\$35,324.3	\$29,264.0	1.00	1.21
Apr-11	\$6,224.2					\$41,643.2				
May-11	\$6,775.5					\$48,418.7				
Jun-11	\$6,703.1					\$55,121.8				
Jul-11	\$5,199.8					\$60,321.6				
Aug-11	\$6,653.1					\$66,974.7				
Sep-11	\$9,116.0					\$76,090.7				

CTD	\$118,329.2	\$116,979.8	\$91,970.1	0.99	1.27
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Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-10	\$610.0	\$619.9	\$412.6	1.02	1.50	\$610.0	\$619.9	\$412.6	1.02	1.50
Nov-10	\$768.6	\$773.1	\$657.3	1.01	1.18	\$1,378.6	\$1,393.0	\$1,069.9	1.01	1.30
Dec-10	\$807.0	\$602.2	\$384.2	0.75	1.57	\$2,185.6	\$1,995.2	\$1,454.1	0.91	1.37
Jan-11	\$309.8	\$368.0	\$470.6	1.19	0.78	\$2,495.4	\$2,363.2	\$1,924.7	0.95	1.23
Feb-11	\$1,186.8	\$941.8	\$680.9	0.79	1.38	\$3,682.2	\$3,305.0	\$2,605.6	0.90	1.27
Mar-11	\$1,013.9	\$870.9	\$834.5	0.86	1.04	\$4,696.1	\$4,175.9	\$3,440.1	0.89	1.21
Apr-11	\$901.6					\$5,597.7				
May-11	\$897.5					\$6,495.2				
Jun-11	\$1,251.4					\$7,746.6				
Jul-11	\$1,205.8					\$8,952.4				
Aug-11	\$1,385.8					\$10,338.2				
Sep-11	\$1,700.7					\$12,038.9				

CTD	\$7,587.7	\$7,067.4	\$6,241.3	0.93	1.13
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Acquisition of New Facilities

M-090-11, Complete the Negotiation of No More Than Two Canister Storage Facility Construction Interim Milestones, Due: 12/31/12, Status: On Schedule. Negotiations are not yet underway.

M-090-00, Acquire/modify facilities for storage of IHLW, Due: 12/31/2019, Status: On Schedule

M-047-06, Complete negotiation of no more than two interim milestones governing work necessary to support completion of M-047-00, Due: 06/30/12, Status: Negotiations are not yet underway.

M-047-00, Complete Work Necessary to provide facilities for management of secondary waste from the WTP, Due: 12/31/2022, Status: On Schedule

Significant Past Accomplishments:

None

Significant Planned Actions in the Next Six Months:

None

Issues:

None

Supplemental Treatment and Part B Permit Applications

M-062-30, Complete negotiations establishing milestones for near term actions, Due: 10/25/11, Status: On schedule. Draft agreement in principle (AIP) provided by ORP to Ecology on April 8, 2011. Milestone negotiations are not yet underway. See “Issues” below for further discussion.

M-062-45ZZ, Negotiate a one-time supplemental treatment selection, Due: 4/30/2015, Status: On schedule. Negotiations are not yet underway. See “Issues” below for further discussion.

M-062-45ZZ-A, Convert M-062-31-T01 through M-062-34-T01 to Interim Milestones, Due: 4/30/2015, Status: On Schedule.

M-062-31-T01, Complete final design and submit RCRA Part B permit mod request, Due: 4/30/2016, Status: On schedule

M-062-32-T01, Start construction of supplemental vitrification treatment facility and/or WTP enhancements, Due: 4/30/2018, Status: On schedule

M-062-33-T01, Complete construction of supplemental vitrification treatment facility and/or WTP enhancements, Due: 4/30/2021, Status: On schedule

M-062-45XX, No later than 12/31/2021, the DOE and Ecology shall complete negotiations to establish a mechanism that will apply to resolve future disputes regarding the determinations in M-062-45, paragraphs 4 and 5, due: 12/31/2021, Status: On Schedule

M-062-34-T01, Complete hot commissioning of supplemental vitrification treatment facility and/or WTP enhancements, Due: 12/30/2022, Status: On schedule

M-062-21, Annually, submit data that demonstrates operation of the WTP, Due: 2/28/2023, Status: On Schedule

M-062-00, Complete Pretreatment Processing and Vitrification of HLW and LAW Tank Wastes, Due: 12/31/2047, Status: On Schedule

Significant Past Accomplishments:

- Draft agreement in principle (AIP) provided by ORP to Ecology on April 8, 2011.

Significant Planned Actions in the Next Six Months:

- ORP and Ecology negotiate Agreement in Principle for M-62-30 negotiations in the next 30 days.

Issues:

- ORP received a letter from Ecology on 01/13/11 stating Ecology has "...formed the opinion that USDOE actions jeopardize completion of HFFACO Milestone M-062-30."
- DOE-ORP letter 11-ESQ-024 (sent to Ecology on 02/03/11) responded to the 01/13/11 Ecology letter, and ORP submitted a draft AIP to Ecology on 04/08/2011 to establish negotiations for HFFACO Milestone M-062-30.

System Plan

M-062-40B, Submit a system plan describing the disposition of all tank waste managed by ORP, Due: 10/31/2011, Status: On Schedule

M-062-40C, Select a minimum of three scenarios that will be analyzed in the system plan, Due: 10/31/2013, Status: On Schedule

M-062-40D, Submit a system plan describing the disposition of all tank waste managed by ORP, Due: 10/31/2014, Status: On Schedule

M-062-40ZZ, Submit a one-time Tank Waste Supplemental Treatment Technologies report if a supplemental treatment technology is proposed other than a 2nd LAW, Due: 10/31/2014, Status: On Schedule.

M-062-45-T01, Every six years, within six-months after last revision of the System Plan, negotiate tank waste retrieval sequencing, Due: 4/30/2015, Status: On Schedule

Significant Past Accomplishments:

Modeling and result verification for Scenario 1: Baseline Case, Scenario 2: TRU to WTP and Scenario 4: WTP Delay with 10% increased Vitrification were completed during March 2011. Results of the Baseline Case were reviewed with ORP and Ecology on March 21, 2011. Modeling was started or nearly completed for Scenario 6: WTP Delay w/8 new DSTs, Scenario 9: Early U Farm Retrieval, Scenario 10: Increased SST Retrieval Duration and Scenario 5: 2020 Vision.

Significant Planned Actions in the Next Six Months:

Work on System Plan Rev. 6 supporting M-062-40B during the next six months will include the following activities: Complete HTWOS modeling, V&V and data analysis and perform periodic reviews with ORP and Ecology. The reviews will include reviews of the model results as well as 50% and 90% reviews of the System Plan report.

Issues:

None

Hanford Waste Treatment and Immobilization Plant (WTP) Project

M-062-01W, Submit Semi-Annual Project Compliance Report, Due: 7/31/2011, Status: On Schedule

M-062-49, Submit a report to Ecology demonstrating that the WTP is designed to accomplish, pretreat 100% of retrievable waste, vitrify 100% of separated hi level waste, WTP LAW with Supplemental treatment can vitrify 100% of separated low level waste stream, Due: 10/31/2011, Status: BNI was provided direction to prepare this report on March 30, 2011, letter 11-WTP-106 Subject: Tri-Party Agreement (TPA) Changes and BNI Support.

There are about 3,284 FTE equivalent contractor [Bechtel National Inc. (BNI)] and subcontractor personnel working on the WTP Project, including 1,125 craft, 579 non-manual, and about 187 subcontractor personnel FTE equivalents working at the WTP construction site (all facilities). Overall project percent complete through March 2011 is 58%, design and engineering is 81% complete, procurement is 61% complete, construction is 54% complete and Start-Up and Commissioning is 12% complete.

The overall WTP Project Schedule Variance (SV) in March was a positive \$4.0M, the Cost Variance (CV) was a positive \$0.7M. The positive cost variance was due to Research and Technology and Commissioning control accounts and the schedule variances came primarily from the Plant Equipment and Commissioning control accounts.

Following is the status through the end of March for current project issues:

Significant Past Accomplishments:

- Revised Project Execution Plan sent to HQ first week of March

Significant Planned Actions in the Next Six Months:

- Complete analytical results from the Low Order Accumulation Model (LOAM) validation testing for the non-Newtonian vessel configuration
- Comment with Large Scale Integrated Testing
- Erection of PT 4th tier structural steel (77ft to 98ft elevation)
- Commence Siding and Roofing of HLW Annex
- Complete vendor fabrication of the LAW Carbon Bed Adsorber (CBA)
- Complete the BOF water treatment facility

Issues:

No significant issues at this time.

Pretreatment (PT) Facility

Significant Past Accomplishments:

The PT Facility will separate radioactive tank waste into High Level Waste (HLW) and Low-Activity Waste (LAW) fractions and transfer each waste type to the respective vitrification facility for immobilization. Through April 2011, overall facility percent complete is 46%, engineering is 77% complete, procurement is 43% complete, and construction is 35% complete.

In April, overall construction continues to perform well. Rebar and embed installation and fabrication of rebar wall curtains continues to support additional slab and wall placements at the 56ft to 98ft elevations. Construction completions for April include placement of three 5th lift (77ft to 98ft elevation) walls for 356 CY.

On-going work includes fabrication of piping modules, installation of drain piping, service air piping, cable trays and supports, ductwork, and sparge tubing in the hot cell.

The permitting strategy for the on-site vessels modifications has been developed jointly with Ecology. The permitting strategy for the off-site vessels modifications has been agreed upon with Ecology, and is in the process of being finalized. Engineering continues to implement changes from the technical issue resolutions into Piping and Instrumentation Design (P&ID) and piping isometric drawings. PT engineering issued 52 piping isometric drawings and equipment lists for the Pretreatment Filter Cave Handling (PFH), Pretreatment In-cell Handling (PIH), Pulse Jet Ventilation (PJV), and Treated LAW Evaporation Process (TLP) systems, as well as issuing 57 hanger drawings, 20 utility rack electrical diagrams, and 35 circuits on consolidated block diagrams. Approved Request for Technology Development (RTD) for fire testing of ion exchange column resin for the Cesium Ion Exchange Process (CXP) system in support of the Pretreatment Vessel Vent Process (PVP)/Process Vessel Vent Exhaust (PVV) systems issue resolution.

Thirty jet pump pairs, six flow-indicator rotameters, and four decontamination heating deductors for the PIH system are ready for shipping. Procurement issued material requisitions for quote on plant wash, fluidic, and utility racks, and the vessel vent carbon bed absorber.

Significant Planned Actions in the Next Six Months:

- Complete analytical results from the Low Order Accumulation Model (LOAM) validation testing for the non-Newtonian vessel configuration
- Complete planning and initiate fabrication and testing for the Large Scale testing for the validation of vessel mixing
- Issue the revised P&ID's for the PVP system and the PVV system
- Complete placement of one 56-ft elevation slab, completion of the basemat slab, two 4th lift (56ft to 77ft) walls, twenty seven 5th lift walls, one 98ft slab, and initial placements of the Control Building slab, totaling approximately 4,314 CY.
- Complete erection of 4th tier structural steel (77ft to 98ft elevation)
- Award contract for High Efficiency Mist Eliminator (HEME)
- Award contract for on-site vessel modifications

Issues:

- **Vessel Critical Path:** Fabrication of vessel HLP-22 continues to be the critical path for the PT Facility. The fabrication of the vessel is in progress and on track to complete as planned by October 2012. Efforts are also ongoing for the analysis of the on-site vessels in order to support the vessel modifications. Initial site work and pre-modification preparation work has begun. Schedules for the vessel modifications and permit needs have been provided to Ecology. The current plan is to award the first set of vessels modifications in June 2011. Ecology authorization is required to proceed with the vessel alteration for Waste Feed Receipt Process (FRP) vessels 2A/B/C/D. Ecology is being briefed routinely on the status of vessel design, fabrication and permitting schedule, due to the critical nature of this activity.
 - **LOAM Test Results:** The physical benchmark testing of the LOAM for application to the 5 non-Newtonian vessels is complete. The test report has been issued for DOE review, and scheduled to be finalized on May 20, 2011.
 - **PVP/PVV System Upgrades:** The PVP/PVV systems were upgraded from passive to active safety systems to maintain negative pressure during all normal, off-normal, and Design Basis Earthquake (DBE) conditions. Changes in the requirement of the Entrainment factor, the postulated aerosol loading was increased by several orders of magnitude. This affected PVP/PVVs ability to meet functional requirements during off-normal condition. The execution strategy issued identifies the following actions to ensure that the system design meets the functional criteria:
 1. Develop an improved aerosol model based on testing that is aligned with the physical plant configuration. Preliminary indications are that this would lower the aerosol loading significantly.
 - a. Draft aerosol testing strategy has been issued.
 2. Evaluate alternative operating scenarios to reduce aerosol generation.
- Procure the long-lead equipment (Scrubber and HEME) as SC-1 to mitigate schedule constraint.

High-Level Waste (HLW) Facility

The HLW Facility will receive the separated high-level waste from the Pretreatment (PT) facility. The concentrate is blended with glass formers and converted into molten glass in one of the two HLW melters and then poured into cylindrical stainless steel canisters. After cooling, the canisters are sealed and decontaminated prior to shipment to interim storage. The HLW Facility is 53% complete overall, with engineering design 86% complete, procurement 65% complete, and construction 33% complete.

Significant Past Accomplishments:

The majority of HLW Filter Cave activities have transitioned from procurement to the installation phase. Installation of the C5V supply header and exhaust headers are finishing, and work will begin on the vertical risers. Additional activities include the installation of support steel to the +8ft elevation and layout of large-bore piping by direct-hire craft. Installation of steel and piping will continue to the +14ft elevation to coordinate with upcoming filter housing installations.

Fabrication of the final C5V filter housing is complete, and vendor efforts are focused on the HOP and PJV filter housings to support the HLW schedule. Filter housings and dampers will be installed sequentially starting from the outermost units and working in towards the center of the Filter Cave starting with the first C5V filter housing in mid-August. All of the C5V housing and remote-operated damper installations are scheduled for completion in December 2011. The remaining piping and installation of plate steel decking will be complete in April 2012.

Significant Planned Actions in the Next Six Months:

- Receive Canister Decontamination Vessels and Canister Rinse Vessel
- Set Shielded Personnel Access Door RWH-DOOR-20 in the Waste Drum Swabbing and Monitoring Area
- Complete Fabrication and Delivery of C5V Dampers
- Complete Siding of Annex
- Receipt of Melter Cave 1 and 2 Feed and Feed Prep vessels

Issues:

The fabrication and delivery of HLW vessels is being monitored closely due to long lead times and construction acceleration. Vessel status and progress is reported weekly to ensure completion and delivery prior to the scheduled installation dates.

Unit Rates for commodity installation are below expectations resulting in reduced cost performance. Performance Improvement Plans are being developed to improve communications and efficiency throughout engineering, procurement and construction.

Weld quality issues with the C5V Supply and Exhaust Header supports (i.e., saddles) required temporary repositioning of the 60" Exhaust header in the filter cave to support repair and re-examination. However, the project remains on schedule with no impact to the HLW critical path.

Low-Activity Waste (LAW) Facility

Significant Past Accomplishments:

The LAW Facility will vitrify low-activity waste from the PT Facility. Waste will be mixed with glass formers, vitrified into glass at an average daily rate of 30 metric tons, and placed in stainless-steel canisters that will be disposed on site in the Integrated Disposal Facility. Overall facility percent complete is 65%, engineering is 90% complete, procurement is 82% complete, and construction is 62% complete.

LAW secondary offgas treatment systems component procurement activities continued. Vendor activities are progressing as scheduled for all offgas system components with the exception of the carbon bed adsorber (see “issues” below). Other procurement activities included issuance of a material requisition for the purchase of jet-pump-pair mixers for the LAW feed preparation vessels and the release for shipment of a container decontamination refrigeration unit.

BNI completed installation of all the cooling panels in the pour caves that are essential to maintaining safe operating temperatures. Installation was completed also on the personnel elevator, the pour cave steel thresholds, the conduit in the LAW switchgear building, and an air handling unit on the top floor of the facility. Thermite welding of rails in the North finishing line continued, as well as installation of the ASX auto-sampling system, fire alarm system, Low-Voltage Electrical (LVE) system equipment, cask handling area door electrical components, container finishing line hoists, and stairs over the roof pipe rack. Other normal activities continued, including installation of piping for the Non-Radioactive Liquid Waste Disposal (NLD), Radioactive Liquid Waste Disposal (RLD), and plant cooling water systems within the LAW, as well as installation of cable tray, conduit and wiring, instrument enclosures, lighting fixtures, partition wall framing, gypsum wallboard, and coatings.

Integrated Control Network (ICN) development for LAW systems continued with software reviews related to the primary offgas process and container export handling systems. The radioactive liquid waste disposal system control software was accepted. Commissioning Operations personnel are working with BNI Engineering to resolve carbon bed adsorber guard bed life and media replacement safety concerns.

Significant Planned Actions in the Next Six Months:

- Complete vendor fabrication of the Carbon Bed Adsorber (CBA)
- Complete installation of container handling line shield doors

Issues:

Carbon Bed Adsorber fabrication difficulties have been encountered related to welding warpage. Additional Bechtel personnel have been deployed to the vendor facility including welding engineers to resolve the issue and maintain the current ship date of November 2011. Revision of assembly techniques and attention to all aspects of quality control are in place to help ensure success and preserve the schedule.

Analytical Laboratory

Significant Past Accomplishments:

The LAB will support WTP operations by analyzing feed, vitrified waste, and effluent streams. Overall facility complete for LAB is 46%, engineering is 80% complete, procurement is 74% complete, and construction is 65% complete.

On-going construction work includes: the installation of piping in the C2V/C3V system pits, autosampler equipment above the hot cells, trolleys in the hot cells, bulk piping/hanger installation, and conduit in various planning areas. Construction completed installation of the grout covers in the area of the hot cells.

Engineering completed scoping of 15 medium-voltage electrical drawings, all mechanical handling, "M7", drawings for in-cell handling and radioactive solid waste handling, and system block diagram, "J1", drawings for all lab systems. Material requisitions for jet-pump-pair fluidic devices were issued.

As construction and engineering continue commissioning personnel are diligently working on procedure development for caustic and/or oxidative leach during the batch processing of the feed slurry, as well incorporating comments to the Waste Acceptance Criteria Data Quality Objective Report. The operations team is inquiring about the date the LAB will have its environmental permits to allow for methods validation. The operations staff accepted proposed vendor cost savings measures to replace drawer slides and counter top fixtures, other suggestions were either denied or referred to the design authority.

Significant Planned Actions in the Next Six Months:

- Install fume hoods (Forecast July 2011)
- Install LAB waste drum bogie transfer port (Forecast June 2011)
- Install Autosampler HEPA filter housings (Forecast June 2011)
- Install hot cell monorail airlocks (Forecast August 2011)
- Complete installation of Autosampler System (Milestone date of October 2011)

Issues:

No major issues.

Balance of Facilities (BOF)

Significant Past Accomplishments:

BOF provides services and utilities to support operation of the main production facilities – PT, HLW, LAW, and LAB. Overall facility percent complete for BOF is 46%, engineering is 77% complete, procurement is 46% complete, and construction is 60% complete.

Construction of BOF is progressing, and systems are being completed as demonstrated by the completion of the water treatment facility. Progress continues in the areas of plant service air for the glass former facility, fire detection equipment for the T-52 building, and cable, electrical terminations, and pressure safety valve instrumentation for the plant cooling water system in the chiller compressor plant.

The operations staff continues to evaluate facilities as they are constructed and turned over, and proposed a field change to add low point drains to the domestic water system, and concerns with the fact that the glass former facility does not have a redundant air dryer. They are also actively involved in evaluating the requirements of the emergency turbine generators.

Significant Planned Actions in the Next Six Months:

- Complete construction of cooling tower (Forecast June 2011)
- Complete construction of fuel oil pumphouse (Forecast August 2011)
- Substantially complete construction of main switchgear building (Forecast June 2011)
- Complete construction of BOF switchgear building (Forecast July 2011)
- Install structural steel for anhydrous ammonia facility (Forecast August 2011)
- Emergency turbine generator supplier selection and notice to proceed (Forecast July 2011)
- Award hi-purity gas subcontract (Forecast May 2011)

Issues:

- Welding of anhydrous ammonia vessel
- Evaluation, selection, and procurement of emergency turbine generator

Waste Treatment Plant Project - Percent Complete Status Through March 2011															
(Dollars - Millions)	Overall Facility Percent Complete Unallocated Dollars			Design/Engineering Unallocated Dollars			Procurement Unallocated Dollars			Construction Unallocated Dollars			Startup & Commissioning Unallocated Dollars		
	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete
Low-Activity Waste	941.0	607.1	65%	222.5	199.4	90%	235.1	193.0	82%	335.2	208.5	62%	148.1	6.2	4%
Analytical Lab	342.0	158.7	46%	52.2	42.0	80%	55.9	41.5	74%	98.7	63.6	65%	135.2	11.6	9%
Balance of Facilities	523.4	242.7	46%	77.2	59.6	77%	81.2	37.5	46%	228.8	137.2	60%	136.1	8.4	6%
High-Level Waste	1,450.9	763.9	53%	332.5	287.0	86%	450.3	291.0	65%	550.3	181.7	33%	117.8	4.2	4%
Pretreatment	2,465.3	1,144.9	46%	682.4	524.0	77%	708.5	304.7	43%	891.8	310.5	35%	182.6	5.7	3%
Shared Services	4,781.1	3,173.8	66%	1,092.9	872.2	80%	467.2	342.6	73%	1,421.0	1,002.1	71%	455.6	106.8	23%
Total WTP w/o UB	10,503.6	6,091.0	58%	2,459.8	1,984.2	81%	1,998.3	1,210.2	61%	3,525.8	1,903.6	54%	1,175.4	142.9	12%
Undistributed Budget	5.8	n/a	n/a	n/a	n/a	n/a									
Total WTP	10,509.4	6,091.0	58%	2,459.8	1,984.2	81%	1,998.3	1,210.2	61%	3,525.8	1,903.6	54%	1,175.4	142.9	12%

Source: WTP Contract Performance Report - Format 1, Data for March 2011

Note: Starting with the June 2009 report, facility Construction percent complete values decreased significantly, and a couple of Design/Engineering facility percent complete values went down as well. The decrease in values was tied to Phase I of BNI's elimination of WBS 1.08, Plant Wide EPCC; scope from WBS 1.08 was moved to facilities as appropriate or to WBS 1.90, Shared Services. This resulted in an increase in the facility construction budgets, which has correspondingly reduced the to-date percent complete values. In July 2010 the allocation of 1.90 to the facilities was removed to show true facility percent complete.

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¹ Note: EVMS data is through March 2011.