

FINAL

Office of River Protection
Tri-Party Agreement
Project Summary Report
December 2011



Office of River Protection
Tri-Party Agreement Milestone Review
December 2011

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7	Single-Shell Tank Corrective Action; M-45, -50, -60	Bob Lober / Jeff Lyon
9	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
18	SST Integrity Assurance; M-45-91	Jeremy Johnson / Michelle Hendrickson
20	In Tank Characterization and Summary	Jeremy Johnson / Michael Barnes
21	Tank Operations Contract (TOC) Overview	Dan Knight / Jeff Lyon
26	Acquisition of New Facilities; M-90-00; M-47-00	Janet Diediker / Jeff Lyon / Dan McDonald
27	Supplemental Treatment and Part B Permit Applications; M-62-00, -20, -30, -45	Steve Pfaff / Jeff Lyon / Dan McDonald
28	System Plan; M-62-40	Dabrisha Smith / Jeff Lyon / Dan McDonald
29	WTP Overall TPA and CD Summary and Milestones Status; M-62-01; M-62-49; D-00A-01, -06, -17	Delmar Noyes / Dan McDonald
31	WTP Pretreatment (PT) Facility; D-00A-13, -14, -15, -16, -19	Wahed Abdul / Dan McDonald
33	WTP High-Level Waste (HLW) Facility; D-00A-02, -03, -04, -21	Gary Olsen / Dan McDonald
34	WTP Low-Activity Waste (LAW) Facility; D-00A-07, -08, -09	Jeff Bruggeman / Dan McDonald
36	WTP Analytical Laboratory (LAB); D-00A-05	Jason Young / Dan McDonald
37	WTP Balance of Facilities (BOF); D-00A-12	McDonald

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										X – CLOSED, Resolved 10/05/11
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	03/11/11										
M-045-92K	Barrier 1 Design/Monitoring Approval from Ecology	06/30/11	05/19/11										
M-036-01A	Submit to EPA & Ecology Lifecycle, Scope, Schedule & Cost for Hanford Site (RL is DOE Lead)	07/25/11	07/21/11										

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-045-56G	Ecology and DOE Agree to Meet, at a Minimum, Yearly (by July)	07/31/11	07/13/11										
M-062-01W	Submit Semi-Annual Project Compliance Report	07/31/11	07/28/11										
M-045-91C	Implement DQO Process, Test Plan to Evaluate the Chemistries	09/30/11	09/15/11										
M-045-91G-T01	Provide AOR Final Doc. For SSTs on 530,000 Gallon Tanks	09/30/11	09/15/11										

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 07/18/11			
M-062-40B	Submit System Plan	10/31/11	10/24/11										
M-062-49	Submit Report to Ecology Demonstrating WTP Design Meets Vit. Criteria	10/31/11	10/27/11										
M-045-91B	Submit a Sampling and Analysis Plan to Ecology	12/30/11	09/20/11										
M-045-92F	Meet Yearly on Performance of Barrier	12/31/11	11/30/11										
M-045-91G-T02	Provide AOR Final Doc. For SSTs on 750,000 Gallon Tanks	01/31/12	11/18/11										
M-045-91F-T01	Provide Report of the Liquid Leak Rate Assessments	01/31/12					X						
M-062-01X	Submit Semi-Annual Project Compliance Report	01/31/12		X									
M-045-91D	Submit Analytical Test Plan for Cores Removed from C-107 Plug	03/31/12	06/27/11										

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-045-91G-T06	Provide Report of the Visual Inspection of 12 SSTs per criteria in M-045-91G-T05	03/31/12		X									
M-045-92M	Barrier 2 Design/Monitoring Approval from Ecology	06/30/12	05/19/11										
M-047-06	Complete Negotiation of No More Than 2 Interim Milestones	06/30/12		X									
M-062-01Y	Submit Semi-Annual Project Compliance Report	07/31/12		X									
M-045-91G-T03	Provide AOR Final Doc for SSTs on 1,000,000 Gallon Tanks	09/30/12			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 2013 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-045-92L	Barrier 1 Construction Complete	10/31/2012			X								
M-045-92G	Meet Yearly on Performance of Barrier	12/31/2012		X									
M-090-11	Comp. Neg's No More Than 2 Canister Storage Fac. Const. Int. M/S	12/31/2012		X									
M-062-01Z	Submit Semi-Annual Project Compliance Report	1/31/2013		X									
M-045-91D-T01	Provide Report on the Concrete Dome Samples from Tank C-107 Plug	5/31/2013		X									
M-045-91F-T03	Provide Report on Testing for Ionic Conductivity of SSTs	5/31/2013		X									
M-045-92O	Barrier 3 Design/Monitoring Approval From Ecology	6/30/2013		X									
M-045-91F-T02	Provide Report of Liner Failures for SSTs	7/31/2013		X									
M-045-91F-T04	Provide Report on 100-Series SSTs as having Leaked in RPP-32681	7/31/2013		X									
M-045-91E	Provide SST Farms Dome Deflection Surveys Every Two Years	9/30/2013		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. Continue field sampling with decommissioning of angle push under C203 underway. ORP and Ecology met for review of sampling results and draft workplan modifications and sampling optimization strategy on September 22, 2011. September meeting minutes, which document efforts, were signed 11/09/2011 by parties and were subsequently entered into the administrative record. Identified changes will require a draft workplan modification/SAP with applicable TPA change notice. The changes have been drafted and are in ORP concurrence for submittal. ORP requests periodic meetings on RFI development effort.

M-045-56, Complete Implementation of Agreed to Interim Measures, Due: TBD, Status: On schedule. Annual DOE/Ecology meeting to discuss interim measures for 2011 was held on July 13, 2011, completing milestone M-045-56G. Meeting minutes have been signed by the parties and entered into the TPA administrative record. FY2012 funding constraints may impact FY2012 scheduled work as noted in meeting minutes.

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-45-92B, DOE shall submit to Ecology for approval, a final design and monitoring plan for TY farm interim barrier, Due: 03/31/2010, Status: Complete. A revision will be made to

the monitoring plan and submitted to Ecology with a TPA Change Notice, based on current evaluation of data.

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: Complete. Meeting was held November 30, 2011. Meeting notes are being prepared and will be entered into the TPA Administrative Record.

M-045-92L, Construct Barrier 1 Due: 10/31/12, Status: At risk pending final appropriations. See issues below.

Significant Past Accomplishments:

- Automated data collection system for T-Farm interim barrier monitoring continues gathering data.
- Automated data collection system for TY Interim Barrier monitoring continues gathering data.
- Analysis of barrier monitoring data collected to date has been performed and results are being documented.
- Completed direct push campaign near C-200 tanks in C Farm.
- Continued laboratory analysis of direct push soil samples previously obtained in C farm and other farms

Significant Planned Actions in the Next Six Months:

- Perform additional updates to WMA C RFI/CMS workplan and SAP based on requested changes from Ecology.
- Publish results of evaluation of barrier monitoring data, and recommend changes to future monitoring plan for TY barrier.
- Continue laboratory analysis of direct push soil samples previously obtained in C farm and other farms.

Issues:

- FY2012 funding constraints may impact FY2012 scheduled work. Current baseline leaves the majority of the milestones on schedule pending final Congressional appropriation levels. Changes in appropriated funding and resulting baseline changes will be followed by applicable TPA Change Packages if necessary.

SST Retrieval and Closure Program

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 Ecology via letter 10-TPD-176 on 12/28/10. Comments were transmitted from Ecology to ORP on May 27, 2011, via letter 11-NWP-048. ORP requested an extension to the comment resolution period in to December 5 2011. Resolutions have been identified for all comments, and the RCRs and redline provided to Ecology on 11/14. Document to be revised following review by Ecology.

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. Comments on three of the four documents were transmitted from Ecology to ORP on May 27, 2011, via letters 11-NWP-045, 11-NWP-047, and 11-NWP-051. ORP requested an extension, to December 5, 2011. Ecology requested additional time to review *Radioactive Waste Determination Process Plan for Waste Management Area C Tank Waste Residual* via 11-NWP-049. ORP transmitted responses on the C-301 Catch Tank Retrieval Feasibility Study (RPP-RPT-45723) to Ecology on November 8, 2011, via 11-TDP-085. ORP transmitted responses on the 241-C Tank Removal Study (RPP-RPT-47167) on November 9, 2011, via 11-TPD-084. The Waste Management Area C RCRA/CERCLA Integration White Paper (RPP-PLAN-46459) has been revised and is in concurrence process.

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: Complete. 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. Comments were transmitted from Ecology to ORP on June 1, 2011, via letter 11-NWP-052. ORP requested an extension, to December 5, 2011. Ecology and ORP met on 11/1, 11/14, and 11/17 to resolve comments. ORP requested an extension to January 31, 2012 to incorporate comment resolutions.

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:

- See discussions above and related discussions in Consent Decree report.

Significant Planned Activities in the Next Six Months:

- See discussions above and related discussions in Consent Decree report.
- Work to discuss and resolve issues and comments associated with deliverables for M-45-101, 80, and 81.

Issues:

- 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.)

Issues:

None

SLCS-CUR / OPER-CUR		C-Farm Critical Path by WBS							Data Date 21-Nov-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					
								FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2			
5.02.02.06.01 C-101 Retrieval		941	665	18-Oct-10 A	14-Jul-14	35	0																								
HHA-3C001B	C-101 Retrieval Design	144	7	18-Oct-10 A	01-Dec-11	114	-1																								
HHA-3C001C	C-101 Retrieval Procurement - Receive Equipment	77	0	14-Jun-11 A	30-Sep-11 A	0	0																								
HHA-3C001CA	C-101 Retrieval Procurement - Receive Equipment	60	114	26-Sep-11 A	04-May-12	137	0																								
HHA-3C001E	C-101 Retrieval System Installation	48	0	16-May-11 A	02-Nov-11 A	9	9																								
HHA-3C001E2	C-101 Retrieval System Installation - FY12	40	16	03-Oct-11 A	14-Dec-11	35	0																								
HHA-3C001EA	C-101 Retrieval System Installation - FY12	200	200	15-Dec-11	28-Sep-12	35	0																								
HHA-3C001F	C-101 Retrieval Startup and Readiness - FY12	47	47	25-Jul-12	28-Sep-12	35	0																								
HHA-3C001F1	C-101 Retrieval Startup and Readiness - FY13	23	23	01-Oct-12	31-Oct-12	35	0																								
HHA-3C001G	C-101 Retrieval Operations (MS)	84	84	01-Nov-12	06-Mar-13	35	0																								
HHA-3C001M1	C-101 Sample for Hard Heel Removal Decision	107	107	07-Mar-13	06-Aug-13	35	0																								
HHA-3C001R	C-101 Hard Heel Rmvl Procurement	125	125	03-Oct-13	03-Apr-14	35	0																								
HHA-3C001T	C-101 Hard Heel Rmvl Design & Engineering Support	195	195	07-Aug-13	15-May-14	35	0																								
HHA-3C001S	C-101 Hard Heel Rmvl Installation	70	70	06-Feb-14	15-May-14	35	0																								
HHA-3C001M	C-101 Hard Heel Rmvl Operations	40	40	16-May-14	14-Jul-14	35	0																								
5.02.02.06.02 C-102 Retrieval		945	703	07-Dec-10 A	05-Sep-14	17	10																								
HHA-1C002B	C-102 Retrieval Design	108	21	07-Dec-10 A	21-Dec-11	205	-15																								
HHA-1C002C	C-102 Retrieval Procurement	80	114	15-Aug-11 A	19-Sep-12	17	1																								
HHA-1C002E	C-102 Retrieval System Installation	185	210	10-Oct-11 A	20-Sep-12	17	1																								
HHA-1C002F	C-102 Retrieval Startup and Readiness FY12	46	46	23-Jul-12	25-Sep-12	17	1																								
HHA-1C002F1	C-102 Retrieval Startup and Readiness FY13	24	24	26-Sep-12	29-Oct-12	17	1																								
HHA-1C002G	C-102 Retrieval Operations (MS)	170	170	02-Nov-12	20-Apr-13	24	15																								
HHA-1C002R	C-102 Sample for HHR Decision	113	113	22-Apr-13	30-Sep-13	17	10																								
HHA-1C002J	C-102 Hard Heel Rmvl Procurement	125	125	26-Nov-13	28-May-14	17	10																								
HHA-1C002H	C-102 Hard Heel Rmvl Design & Engineering Support	195	195	01-Oct-13	10-Jul-14	17	10																								
HHA-1C002K	C-102 Hard Heel Rmvl Installation	70	70	02-Apr-14	10-Jul-14	17	10																								
HHA-1C002M	C-102 Hard Heel Rmvl Operations	40	40	11-Jul-14	05-Sep-14	17	10																								

█ Actual Work █ Critical Remain Work Baseline Act
█ Remain Work Milestone Baseline Milestone

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

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TASK filters: ! - C-Farm CP
Exclude, C-Farm - Critical Path.

SLCS-CUR / OPER-CUR		C-Farm Critical Path by WBS							Data Date 21-Nov-1																						
Activity ID	Activity Name	Orig Dur	Rem Dur	Current Start	Current Finish	Total Float	Chg Since Last Month	FY2010			FY2011			FY2012			FY2013			FY2014			FY2015								
								FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2			
5.02.02.06.04 C-104 Retrieval		551	551	14-Nov-11 A	30-Jan-14	109	0																								
HHA-1C004C	C-104 Caustic Dissolution	165	110	14-Nov-11 A	30-Apr-12	84	41																								
HHA-1C004R...	C-104 Sample for HHR Decision FY13	107	107	01-Oct-12*	06-Mar-13	109	0																								
HHA-1C004J	C-104 Hard Heel Rmvl Procurement	125	125	11-Apr-13	07-Oct-13	109	0																								
HHA-1C004H	C-104 Hard Heel Rmvl Design & Engineering Support	188	188	07-Mar-13	02-Dec-13	109	0																								
HHA-1C004K	C-104 Hard Heel Rmvl Installation	68	68	26-Aug-13	02-Dec-13	109	0																								
HHA-1C004M	C-104 Hard Heel Rmvl Operations	40	40	03-Dec-13	30-Jan-14	109	0																								
5.02.02.06.05 C-105 Retrieval		988	720	01-Nov-10 A	30-Sep-14	0	0																								
HHA-3C005B	C-105 Retrieval Design - Phase 1	82	54	01-Nov-10 A	09-Feb-12	204	-13																								
HHA-3C005B2	C-105 Retrieval Installation Design - MARS Eductor	148	148	02-Mar-12*	28-Sep-12	101	0																								
HHA-3C005C	C-105 Procurement of Phase 1 Components - FY11	72	88	15-Jul-11 A	29-Mar-12	170	2																								
HHA-3C005C1	C-105 Procurement of Phase 1 Components - FY12	131	131	17-Jan-12*	20-Jul-12	91	0																								
HHA-3C005C2	C-105 Procurement of MARS Eductor Installation Components - FY12	40	40	03-Aug-12	28-Sep-12	101	0																								
HHA-3C005C3	C-105 Procurement of MARS Eductor Installation Components - FY13	20	20	01-Oct-12	28-Oct-12	101	0																								
HHA-3C005E	C-105 Retrieval System Installation - Phase 1	198	198	02-Dec-11*	13-Sep-12	53	3																								
HHA-3C005E2	C-105 Retrieval System Installation - MARS	89	89	24-May-12*	28-Sep-12	42	0																								
HHA-3C005E3	C-105 Retrieval System Installation - MARS	179	179	01-Oct-12	17-Jun-13	42	0																								
HHA-3C005F	C-105 Retrieval Startup and Readiness	315	315	10-May-12	08-Aug-13	42	0																								
HHA-3C005G	C-105 Retrieval Operations (MARS)	227	227	09-Aug-13*	23-Mar-14	61	0																								
HHA-3C005M2	C-105 Hard Heel Rmvl Evaluations & Readiness	40	40	24-Mar-14	02-May-14	61	0																								
HHA-3C005M	C-105 Hard Heel Rmvl Operations	90	90	03-May-14	31-Jul-14	61	0																								
HHC-3C005R	Complete C-Farm Retrieval	0	0	05-Sep-14	17	10																									
M-B-1	M-B-1, Complete C-Farm Retrieval	0	0	30-Sep-14*	0	0																									
5.02.02.06.07 C-107 Retrieval		563	148	01-Apr-10 A	22-Jun-12	151	-19																								
HHA-3C007E	C-107 Retrieval System Installation	379	0	01-Apr-10 A	30-Sep-11 A	0																									
HHA-3C007F1	C-107 Retrieval Startup and Readiness for MARS	132	0	21-Mar-11 A	25-Sep-11 A	0																									
HHA-3C007G	C-107 Bulk Retrieval Operations (MARS) FY11	30	0	11-Oct-11 A	28-Oct-11 A	0																									

█ Actual Work █ Critical Remain Work ▶ Baseline Act
█ Remain Work ◆ Milestone ▼ Baseline Milestone

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

Page 2 of 4 TASK filters: ! - C-Farm CP
Exclude, C-Farm - Critical Path.

SLCS-CUR / OPER-CUR		C-Farm Critical Path by WBS							Data Date 21-Nov-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						
								FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2						
HHA-1C012G	C-112 Retrieval Operations (MS)	58	58	01-Dec-11	27-Jan-12	340	-30																											
HHA-1C012R	C-112 Sample for HHR Decision FY12	84	84	01-Jun-12*	28-Sep-12	146	0																											
HHA-1C012R1	C-112 Sample for HHR Decision FY13	23	23	01-Oct-12	31-Oct-12	146	0																											
HHA-1C012J	C-112 Hard Heel Rmvl Procurement	125	125	03-Jan-13	28-Jun-13	146	0																											
HHA-1C012H	C-112 Hard Heel Rmvl Design & Engineering Support	195	195	01-Nov-12	12-Aug-13	146	0																											
HHA-1C012K	C-112 Hard Heel Rmvl Installation	70	70	03-May-13	12-Aug-13	146	0																											
HHA-1C012M	C-112 Hard Heel Rmvl Operations	40	40	13-Aug-13	08-Oct-13	146	0																											
5.02.02.06.20 C-Farm Infrastructure DST Receiver Tan...		495	193	07-Dec-10 A	27-Aug-12	219	218																											
HNA-2NFC0BA	C-Farm Infrastructure DST Receiver Tank 4 Design	20	48	17-Nov-11 A	01-Feb-12	146	-2																											
HNA-2NFC0B	C-Farm Infrastructure DST Receiver Tank 4 Design	100	51	07-Dec-10 A	06-Feb-12	61	-25																											
HNA-2NFC0C	C-Farm Infrastructure AN-101 Upgrades Procurement	110	110	28-Dec-11	01-Jun-12	61	47																											
HNA-2NFC0D	C-Farm Infrastructure AN-101 Upgrades - Construction	40	40	04-Jun-12	30-Jul-12	61	58																											
HNA-2NFC0E	C-Farm Infrastructure AN-101 Upgrades Startup/Readiness	58	58	06-Jun-12	27-Aug-12	61	58																											
HNA-2NFC0C5	C-Farm Infrastructure AN-106 HIHTL Procurement	65	65	13-Feb-12	14-May-12	262	176																											
HNA-2NFC0D3	C-Farm Infrastructure AN-106 HIHTL Replacement	25	25	16-May-12	20-Jun-12	261	235																											
HNA-2NFC0E1	C-Farm Infrastructure AN-106 HIHTL Replacement Startup/Readiness	15	15	07-Jun-12	27-Jun-12	261	260																											

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

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. 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-045-15D, 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:

No campaigns were conducted in FY2011 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 6, 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 conducted in FY11 due to ongoing 242-A and Tank Farm facility life extension and ARRA funded upgrades.
FY12	12-01	AP-107	AP-107	Estimated start August 2012. May require two (2) passes to achieve waste volume reduction.
FY13	13-01	AP-104	AP-107	Estimated start March 2013.
FY13	13-02-	AW-106	AP-107	Estimated start September 2013.
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-045-91F-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: To Be Missed. See issues.

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: Complete 11/18/11. (ORP letter 11-TPD-091)

M-045-91D, Submit to Ecology an analytical test plan for the cores removed from the C-107 plug, Due: 3/31/2012, Status: Complete 06/27/11. (ORP letter 11-TPD-043)

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: At Risk. See issues.

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 pending final appropriations.

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 pending final appropriations.

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 pending final appropriations.

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: 7/31/2013, Status: On schedule pending final appropriations.

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 pending final appropriations.

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 pending final appropriations.

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 pending final appropriations.

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

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 pending final appropriations.

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 pending final appropriations.

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 pending final appropriations.

Significant Past Accomplishments:

- M-045-91B: Ecology approved the SAP for sidewall coring of tank A-107. (Ecology letter 11-NWP-138 dated 11/09/11)
- M-045-91G-T02: Completed on 11/18/11 with submittal of AOR for SSTs for 750,000 gallon tanks - BY, S, TX and TY Farms. (ORP letter 11-TPD-091).

Significant Planned Actions in the Next Six Months:

- Complete target M-045-91G-T06, provide report to Ecology documenting and evaluating the visual inspection of the 12 SSTs per criteria in M-045-91G-T05.
- Complete target M-045-91F-T03, provide Ecology the Ionic Conductivity Feasibility Report.
- Prepare and issue demonstration test report for the sidewall coring demonstration to support M-045-91B-T01.

Issues:

- FY12 funding constraints have placed FY12 work supporting SST Integrity Assurance program in question. Current baseline leaves the majority of the milestones on schedule pending final appropriation levels. Changes in appropriated funding and resulting baseline changes will be followed by applicable TPA Change Packages if necessary.

In Tank Characterization and Summary

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

Accomplishments:

- Completed grab sampling of tank AN-106 supernatant on November 15 to evaluate corrosion chemistry during tank C-107 retrieval (AN-106 is the double-shell tank receiver for the retrieved waste).
- Collected the fourth set of grab samples from tank C-108 to support the heel retrieval (the first three sets were taken in October).
- Completed the tank sampling and analysis plan for AN-101(RPP-PLAN-50985, *Tank 21-AN-101 Grab Sampling and Analysis Plan at the Midpoint of Tank 241-C-112 Retrieval*) on November 21. The data will be used to evaluate corrosion chemistry during C-112 retrieval.

Planned Action within the next Six Months:

- Tank Sampling
 - Continue to sample C-108 to support heel retrieval.
 - Tank AN-101 grab samples for corrosion chemistry control taken at 50% of the retrieval of tank C-112 scheduled for January 2012
 - Tank AN-101 grab samples for chemistry control after completion of C-112 sluicing scheduled for February 2012
 - Tank C-108 off- riser samples scheduled for February 2012
 - Tank 204-AR-TK-1 compatibility grab samples scheduled for February 2012
 - Tank AN-102 grab samples for chemistry control scheduled for March 2012
 - Tank C-104 grab samples to support heel retrieval scheduled for March 2012
 - Tank C-109 grab samples to support heel retrieval scheduled for March 2012
 - Tank SY-102 grab samples for chemistry control scheduled for May 2012
- BBI Updates
 - Ten tanks have been identified for updates in FY12 Quarter1.
- Data Quality Objectives (DQO)
 - Revision of the PCB Management DQO (RPP-7614) and the Compatibility DQO (HNF-SD-WM-DQO-001) in February 2011.
 - Revision of the Strategic Planning DQO (RPP-44057) in February 2011.

Issues:

None

TANK OPERATIONS CONTRACT (TOC) OVERVIEW

Project Performance

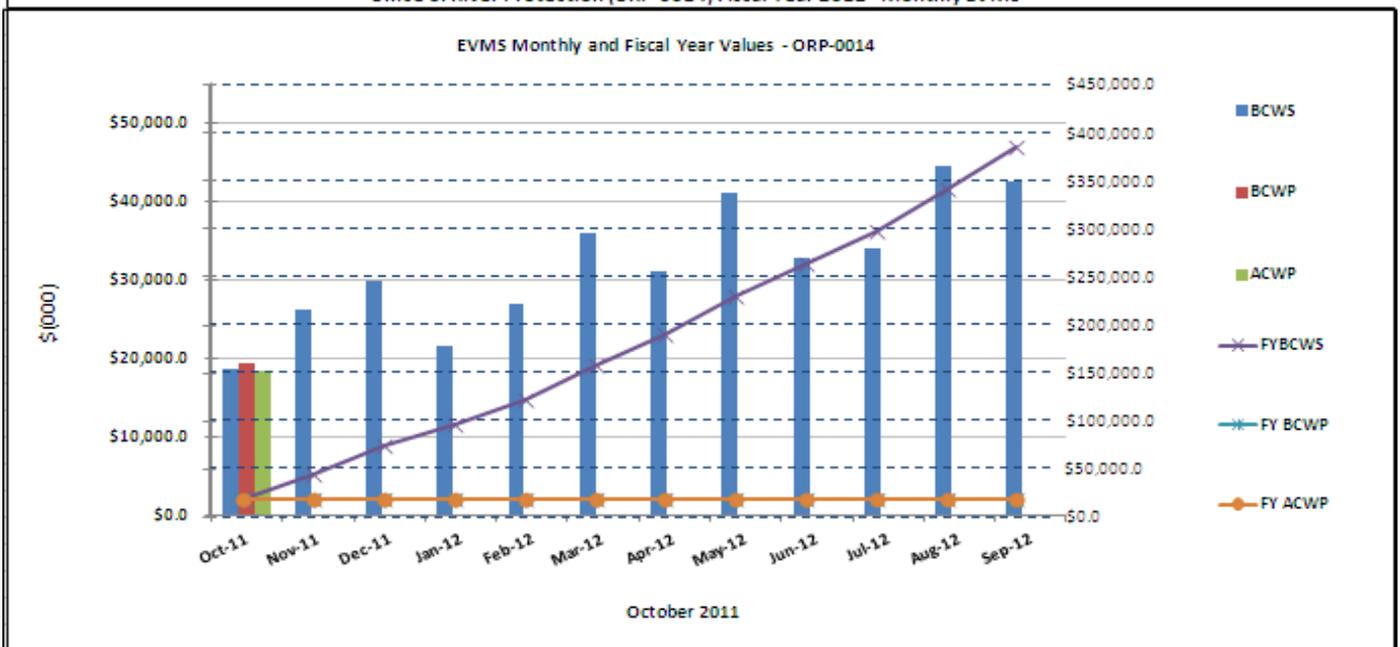
The earned value analysis is a comparison of cost and schedule contract-to-date performance. The earned value performance reporting reflects the format, Work Breakdown Structure (WBS) reporting levels, and variance thresholds as agreed to with the Tank Farms Operations Contractor (TOC) for monthly performance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

	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC
CM	18,559.4	19,444.2	18,407.6	884.8	1,036.6	1.05	1.06			
FYTD	18,559.4	19,444.2	18,407.6	884.8	1,036.6	1.05	1.06	388,355.8	384,367.5	3,988.3
CTD	1,243,726.9	1,238,494.0	1,181,537.9	(5,232.9)	56,956.2	1.00	1.05	2,136,989.4	2,072,809.0	64,180.4

Red shaded cells indicates a SPI/CPI less than 0.90
 Green shaded cells indicate a SPI/CPI between 0.90 and 0.99
 Blue shaded cells indicate a SPI/CPI greater than or equal to 1.0

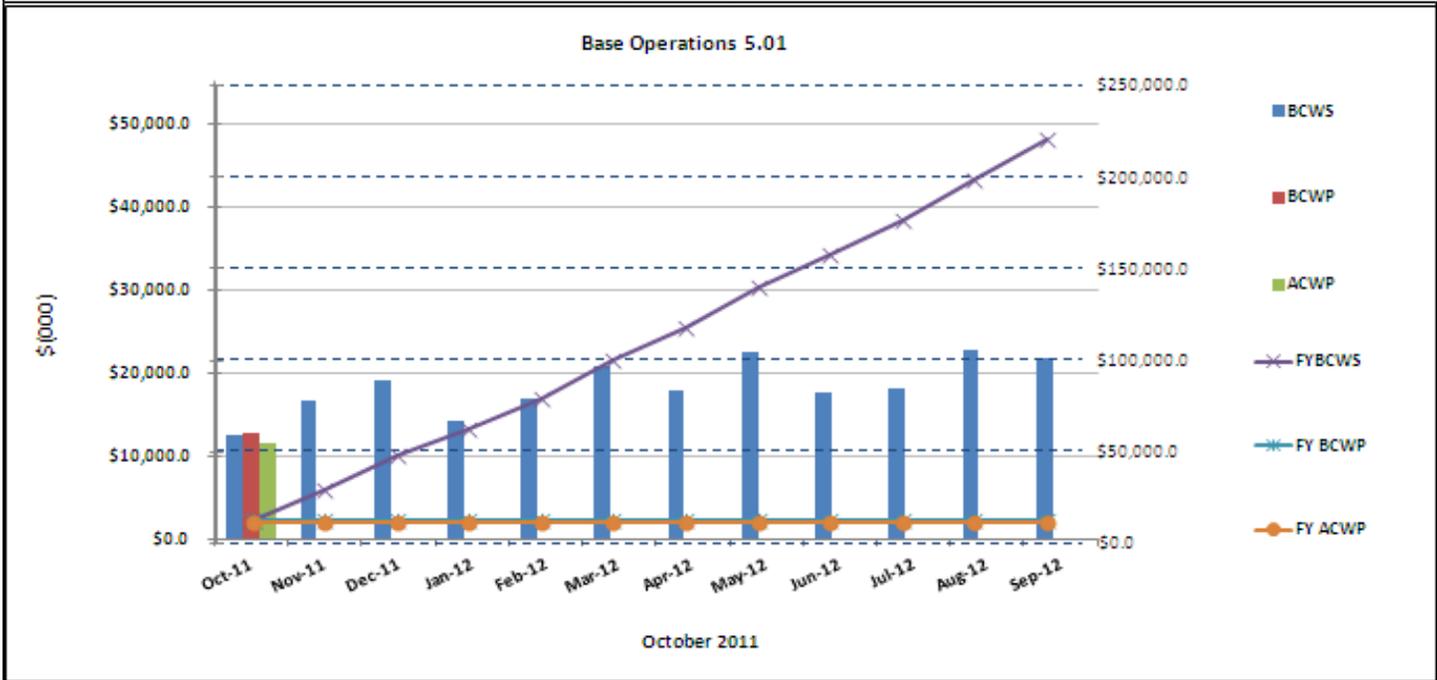
Current Month Significant Variance Contributors

Office of River Protection (ORP-0014) Fiscal Year 2012 - Monthly EVMS



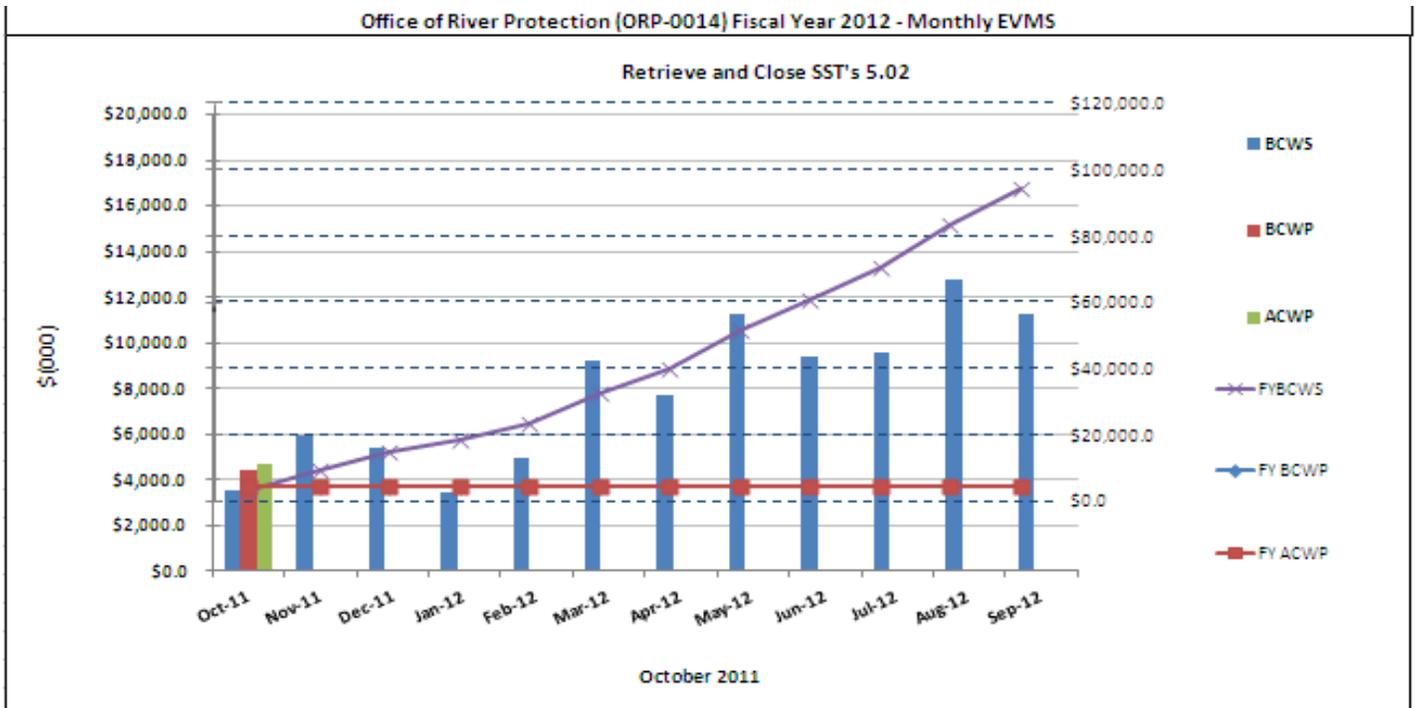
Earned Value Month	BCWS	BCVP	ACWP	SPI	CPI	FYBCWS	FY BCVP	FY ACWP	FY SPI	FY CPI
Oct-11	\$18,559.4	\$19,444.2	\$18,407.6	1.05	1.06	\$18,559.4	\$19,444.2	\$18,407.6	1.05	1.06
Nov-11	\$26,121.7	\$0.0	\$0.0	0.00	#DIV/0!	\$44,681.1	\$19,444.2	\$18,407.6	0.44	1.06
Dec-11	\$29,706.5	\$0.0	\$0.0	0.00	#DIV/0!	\$74,387.6	\$19,444.2	\$18,407.6	0.26	1.06
Jan-12	\$21,641.4	\$0.0	\$0.0	0.00	#DIV/0!	\$96,029.0	\$19,444.2	\$18,407.6	0.20	1.06
Feb-12	\$26,820.6	\$0.0	\$0.0	0.00	#DIV/0!	\$122,849.6	\$19,444.2	\$18,407.6	0.16	1.06
Mar-12	\$35,840.7	\$0.0	\$0.0	0.00	#DIV/0!	\$158,690.3	\$19,444.2	\$18,407.6	0.12	1.06
Apr-12	\$31,047.1	\$0.0	\$0.0	0.00	#DIV/0!	\$189,737.4	\$19,444.2	\$18,407.6	0.10	1.06
May-12	\$41,053.6	\$0.0	\$0.0	0.00	#DIV/0!	\$230,791.0	\$19,444.2	\$18,407.6	0.08	1.06
Jun-12	\$32,817.5	\$0.0	\$0.0	0.00	#DIV/0!	\$263,608.5	\$19,444.2	\$18,407.6	0.07	1.06
Jul-12	\$34,004.0	\$0.0	\$0.0	0.00	#DIV/0!	\$297,612.5	\$19,444.2	\$18,407.6	0.07	1.06
Aug-12	\$44,331.0	\$0.0	\$0.0	0.00	#DIV/0!	\$341,943.5	\$19,444.2	\$18,407.6	0.06	1.06
Sep-12	\$42,592.1	\$0.0	\$0.0	0.00	#DIV/0!	\$384,535.6	\$19,444.2	\$18,407.6	0.05	1.06
CTD	\$1,269,848.6	\$1,261,930.0	\$1,204,874.0	0.99	1.05					

Office of River Protection (ORP-0014) Fiscal Year 2012 - Monthly EVMS



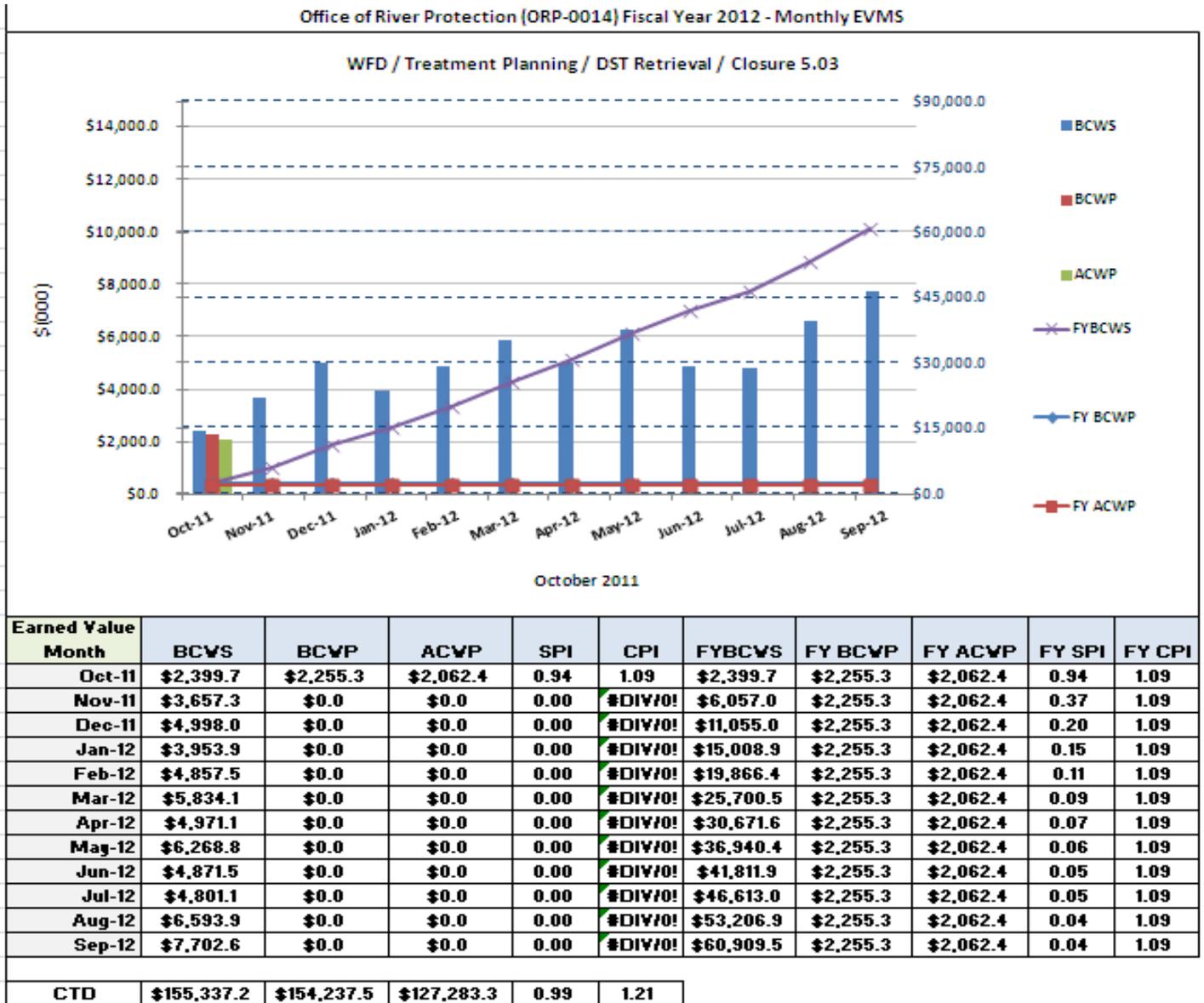
Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-11	\$12,392.2	\$12,786.7	\$11,613.8	1.03	1.10	\$12,392.2	\$12,786.7	\$11,613.8	1.03	1.10
Nov-11	\$16,611.9	\$0.0	\$0.0	0.00	#DIY/0!	\$29,004.1	\$12,786.7	\$11,613.8	0.44	1.10
Dec-11	\$19,202.9	\$0.0	\$0.0	0.00	#DIY/0!	\$48,207.0	\$12,786.7	\$11,613.8	0.27	1.10
Jan-12	\$14,241.5	\$0.0	\$0.0	0.00	#DIY/0!	\$62,448.5	\$12,786.7	\$11,613.8	0.20	1.10
Feb-12	\$16,985.9	\$0.0	\$0.0	0.00	#DIY/0!	\$79,434.4	\$12,786.7	\$11,613.8	0.16	1.10
Mar-12	\$20,765.7	\$0.0	\$0.0	0.00	#DIY/0!	\$100,200.1	\$12,786.7	\$11,613.8	0.13	1.10
Apr-12	\$17,756.2	\$0.0	\$0.0	0.00	#DIY/0!	\$117,956.3	\$12,786.7	\$11,613.8	0.11	1.10
May-12	\$22,450.1	\$0.0	\$0.0	0.00	#DIY/0!	\$140,406.4	\$12,786.7	\$11,613.8	0.09	1.10
Jun-12	\$17,679.3	\$0.0	\$0.0	0.00	#DIY/0!	\$158,085.7	\$12,786.7	\$11,613.8	0.08	1.10
Jul-12	\$18,234.5	\$0.0	\$0.0	0.00	#DIY/0!	\$176,320.2	\$12,786.7	\$11,613.8	0.07	1.10
Aug-12	\$22,751.1	\$0.0	\$0.0	0.00	#DIY/0!	\$199,071.3	\$12,786.7	\$11,613.8	0.06	1.10
Sep-12	\$21,708.9	\$0.0	\$0.0	0.00	#DIY/0!	\$220,780.2	\$12,786.7	\$11,613.8	0.06	1.10
CTD	\$852,188.1	\$850,667.1	\$824,179.6	1.00	1.03					

- **Base Operations Farms S/SX/SY/T/TX/TY/U (\$240k):** CM (CV) under run in ST Team material and maintenance/survey labor costs due to reduced staff (workforce restructuring), less fieldwork performed than planned due to bargaining unit personnel training after bump and role, and late award of contracts to support fieldwork.
- **DST to DST Transfer \$503k:** CM (SV) schedule recovery for completion of the AN-101 to AP-104 transfer (carryover work) and acceleration of the second decant transfer from AN-106 to AP-104 in support of SST C-107 retrieval.
- **Base Operations Farms AW/AP (\$257k):** CM (CV) under run in EV Team material and maintenance/survey labor costs due to reduced staff (workforce restructuring), less fieldwork performed than planned due to bargaining unit personnel training after bump and role, and late award of contracts to support fieldwork.

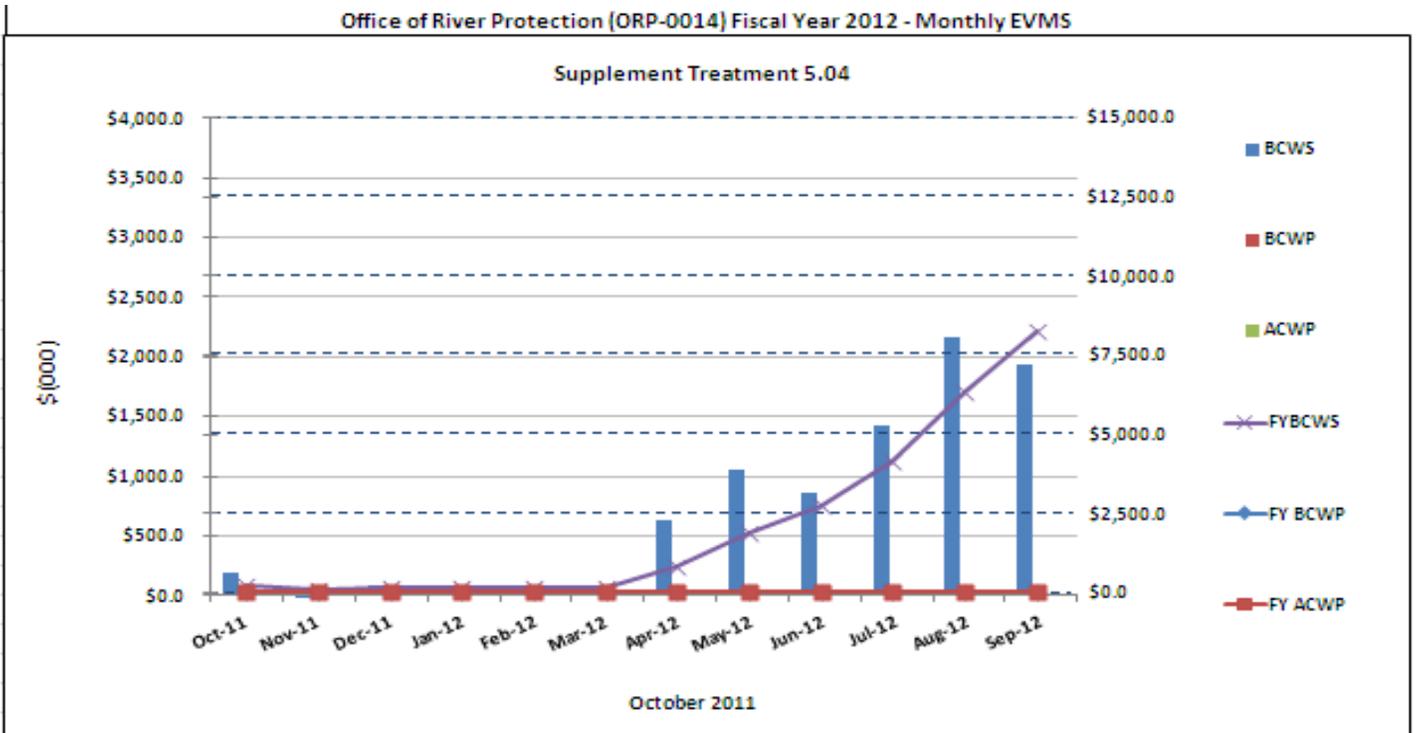


Earned Value Month	BCWS	BCVP	ACVP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-11	\$3,580.0	\$4,402.2	\$4,709.1	1.23	0.93	\$3,580.0	\$4,402.2	\$4,709.1	1.23	0.93
Nov-11	\$5,940.2	\$0.0	\$0.0	0.00	#DIV/0!	\$9,520.2	\$4,402.2	\$4,709.1	0.46	0.93
Dec-11	\$5,420.7	\$0.0	\$0.0	0.00	#DIV/0!	\$14,940.9	\$4,402.2	\$4,709.1	0.29	0.93
Jan-12	\$3,446.0	\$0.0	\$0.0	0.00	#DIV/0!	\$18,386.9	\$4,402.2	\$4,709.1	0.24	0.93
Feb-12	\$4,977.2	\$0.0	\$0.0	0.00	#DIV/0!	\$23,364.1	\$4,402.2	\$4,709.1	0.19	0.93
Mar-12	\$9,240.9	\$0.0	\$0.0	0.00	#DIV/0!	\$32,605.0	\$4,402.2	\$4,709.1	0.14	0.93
Apr-12	\$7,685.9	\$0.0	\$0.0	0.00	#DIV/0!	\$40,290.9	\$4,402.2	\$4,709.1	0.11	0.93
May-12	\$11,278.1	\$0.0	\$0.0	0.00	#DIV/0!	\$51,569.0	\$4,402.2	\$4,709.1	0.09	0.93
Jun-12	\$9,407.2	\$0.0	\$0.0	0.00	#DIV/0!	\$60,976.2	\$4,402.2	\$4,709.1	0.07	0.93
Jul-12	\$9,538.1	\$0.0	\$0.0	0.00	#DIV/0!	\$70,514.3	\$4,402.2	\$4,709.1	0.06	0.93
Aug-12	\$12,814.2	\$0.0	\$0.0	0.00	#DIV/0!	\$83,328.5	\$4,402.2	\$4,709.1	0.05	0.93
Sep-12	\$11,249.6	\$0.0	\$0.0	0.00	#DIV/0!	\$94,578.1	\$4,402.2	\$4,709.1	0.05	0.93
CTD	\$248,867.1	\$243,569.2	\$241,997.1	0.98	1.01					

- **C-112 Retrieval, (\$449k):** CM (SV) overruns on retrieval system installation and design and engineering costs related to WRPS and subcontractor labor for completion of construction punch list items.
- **C-107 Retrieval (\$650k):** CM (CV) driven by three root causes:
 - Significant progress achieved and cost efficiencies on retrieval operations using the MARS (\$421k);
 - Adjustment of the actual cost of work performed for procurement (\$230k);
- **C-108 Retrieval (\$409k):** CM (CV) overruns on hard-heel removal operations labor due to longer-than-anticipated water recirculation and the number of saturated water samples required.



- **242-A Evaporator, \$650k:** CM (SV) schedule recovery on the SST C-112 retrieval system procurement and installation (\$1,071k), which is partially offset by an unfavorable SV in startup and readiness of (\$435k) due to resource constraints that delayed the completion of construction. Procurement and construction are now complete.
- **242-A Evaporator DSA upgrades CM (SV) project work completed in September (\$219k),**
 - Subcontract support for the Chief Engineer/Engineering Management and Nuclear Safety organizations not utilized as planned (\$72k),
 - Accrual adjustments to reflect completion costs on resolution of the plutonium oxide criticality issue (\$50k).



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-11	\$187.5	\$0.0	\$22.3	0.00	0.00	\$187.5	\$0.0	\$22.3	0.00	0.00
Nov-11	(\$87.7)	\$0.0	\$0.0	0.00	#DIY/0!	\$99.8	\$0.0	\$22.3	0.00	0.00
Dec-11	\$84.8	\$0.0	\$0.0	0.00	#DIY/0!	\$184.6	\$0.0	\$22.3	0.00	0.00
Jan-12	\$0.0	\$0.0	\$0.0	#DIY/0!	#DIY/0!	\$184.6	\$0.0	\$22.3	0.00	0.00
Feb-12	\$0.0	\$0.0	\$0.0	#DIY/0!	#DIY/0!	\$184.6	\$0.0	\$22.3	0.00	0.00
Mar-12	\$0.0	\$0.0	\$0.0	#DIY/0!	#DIY/0!	\$184.6	\$0.0	\$22.3	0.00	0.00
Apr-12	\$634.0	\$0.0	\$0.0	0.00	#DIY/0!	\$818.6	\$0.0	\$22.3	0.00	0.00
May-12	\$1,056.6	\$0.0	\$0.0	0.00	#DIY/0!	\$1,875.2	\$0.0	\$22.3	0.00	0.00
Jun-12	\$859.6	\$0.0	\$0.0	0.00	#DIY/0!	\$2,734.8	\$0.0	\$22.3	0.00	0.00
Jul-12	\$1,430.3	\$0.0	\$0.0	0.00	#DIY/0!	\$4,165.1	\$0.0	\$22.3	0.00	0.00
Aug-12	\$2,171.8	\$0.0	\$0.0	0.00	#DIY/0!	\$6,336.9	\$0.0	\$22.3	0.00	0.00
Sep-12	\$1,931.1	\$0.0	\$0.0	0.00	#DIY/0!	\$8,268.0	\$0.0	\$22.3	0.00	0.00
CTD	\$13,456.3	\$13,456.3	\$11,414.1	1.00	1.18					

- *WTP Pre-Treatment Alternative Studies, (\$775k), CM (CV) from self-performing WTP technology development baseline studies, reducing subcontractor cost with less than expected labor.*

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:

Conceptual Design activities continue on the Interim Hanford Storage and Secondary Liquid Waste Treatment Projects.

The Interim Hanford Storage Project conducted a three day Value Engineering (VE) session the week of November 28, 2011. The VE session revealed that the existing conceptual design (approximately 60% complete) is considered to be adequate however, numerous design ideas were discussed, organized and collected and will be further evaluated during conceptual design and preliminary design.

Significant Planned Actions in the Next Six Months:

- Continue Conceptual Design for both the Interim Hanford Storage and Secondary Liquid Waste Treatment Projects.
- Issue the Value Engineering Report for the Secondary Liquid Waste Treatment Project.
- Issue the Process Hazard Analysis Report for the Interim Hanford Storage Project.
- Conduct Value Engineering session for the Interim Hanford Storage Project.
- Issue the Value Engineering Report for the IHS Project.
- Complete Conceptual Design for both the Interim Hanford Storage and Secondary Waste Treatment Project.

Issues:

None

Supplemental Treatment and Part B Permit Applications

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-062-45ZZ, Negotiate a one-time supplemental treatment selection, Due: 4/30/2015,
Status: On schedule. Negotiations are not yet underway.

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:

None

Significant Planned Actions in the Next Six Months:

None

Issues:

None

System Plan

M-062-40B, Submit a system plan describing the disposition of all tank waste managed by ORP, Due: 10/31/2011, Status: Completed 10/24/2011 via DOE-ORP/ECY joint signature letter 11-TPD-087.

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-062-45-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:

DOE/ORP submitted the River Protection Project System Plan, Revision 6, with a joint Ecology signature to EPA on October 24, 2011.

Significant Planned Actions in the Next Six Months:

None

Issues:

None

WASTE TREATMENT AND IMMOBILIZATION PLANT (WTP) PROJECT

Number	Title	Due Date	Status
M-062-01W	Submit Semi-Annual Project Compliance Report	07/28/2011	Complete. Letter 11-WTP-238 sent 7/27/11.
M-062-49	Submit a report to Ecology demonstrating that the WTP Project is designed to pretreat 100% of retrievable waste and vitrify 100% of separated high-level waste; with supplemental treatment WTP LAW can vitrify 100% of separated low-level waste stream.	10/31/2011	Complete. Letter 11-WTP-374 was signed sent with report on 10/27/11.
M-062-01X	Submit Semi-Annual TPA Project Compliance Report	01/31/2012	On Schedule.

The WTP Project currently employs about 3,658 Full-Time Equivalent (FTE) contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel, including 1,061 craft, 623 non-manual, and about 212 subcontractor personnel FTEs working at the WTP construction site (all facilities). As of October 2011, the project was 62 percent complete, design and engineering was 84 percent complete, procurement was 66 percent complete, construction was 58 percent complete, and startup and commissioning was 14 percent complete.

The overall WTP Project schedule variance in October was a negative \$25.9M; the cost variance was a positive \$8.7M. The negative cost variance was due to Engineering Design, Construction Crafts, and Construction Subcontracts; and the schedule variances primarily were related to Plant Equipment and Plant Material.

Following is the status through the end of October for current project issues.

Significant Past Accomplishments:

- Awarded Resin Testing, Aerosol Testing, and fabrication of High Efficiency Mist Eliminator – PT facility.
- Developed an updated detailed execution plan for the design, procurement, and installation of liner plates, jumper frames and equipment pads for the hot cell in PT.
- Completed five concrete placements (for a total of 998 cubic yards) in HLW in October.
- Completed roof and insulated siding on HLW Annex several months ahead of schedule.
- Substantially completed mechanical systems design for the LAW facility.

Significant Planned Actions in the Next Six Months:

- Complete erection of 4th-tier structural steel in PT (77ft to 98ft elevation).
- Perform Large Scale Integrated Testing in 4ft and 8ft vessels to resolve PT mixing issues.
- Set in-place two piping modules (PA07 upper, PA01 lower) in the PT black cells.
- Receive Plant Wash and Drains vessel for HLW (RLD-VSL-8).
- Complete vendor fabrication of the carbon bed adsorber for LAW
- Complete installation of the LAB autosampler systems.
- Complete construction of the Balance of Facilities (BOF) cooling tower.

- Complete construction of BOF switchgear building.

Issues:

- PT Facility - Vessel Critical Path: An issue with the seismic supports of vessel HLP-22 has prompted a redesign of PJM mounting hardware and a rework of the seismic analysis, which impacts critical path by an estimated 7-8 weeks. BNI is applying focused management attention to meet the schedule, and will be looking at ways to mitigate the slip in the construction portion of the schedule.
- No significant issues in HLW, LAW, LAB or BOF at this time.

PRETREATMENT (PT) FACILITY

The Pretreatment (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 October 2011, the PT Facility is 50 percent complete overall, with engineering design 77 percent complete, procurement 48 percent complete, and construction 40 percent complete.

Significant Past Accomplishments:

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 October include placement of six 5th lift (77ft to 98ft elevation) walls (total of 970 CY), and placement of a mud mat (80 CY) and the Plant Wash & Disposal system encasement (22 CY) for the Control Building.

On-going work includes installation of rebar for the Control Building basemat, fabrication of piping modules, installation of drain piping, service air piping, cable trays and supports, ductwork, conduit, wall liner plates, and sparge tubing in the hot cell, and structural steel at the 77ft elevation.

Engineering continues to implement changes from the technical issue resolutions into Piping and Instrumentation Diagrams (P&ID) and piping isometric drawings (issued 309). Engineering has issued re-committed P&IDs for the Radioactive Liquid Waste Disposal (RLD) and Steam Condensate Water (SCW) systems, and completed re-analysis of the Lag Storage and Feed Blending Process (HLP) vessel HLP-28.

Awards were made for the Resin Testing, Aerosol Testing, and fabrication of the High Efficiency Mist Eliminator (HEME). The report for TPA Milestone M-62-49 certifying WTP design meets the mission need has been delivered to Ecology on October 27, 2011, ahead of the milestone completion date of October 31, 2011.

An updated detailed execution plan for the design, procurement and installation of liner plates, jumper frames and equipment pads has been developed for the hot cell. Informational tests for the adequacy of Pulse Jet Mixers (PJM) with various firing sequences and pump-out configurations have been completed to understand the impacts of those changes. A number of

tests have yielded positive results for mixing. These tests will be further validated by NQA-1 tests in the 4ft, 8ft and 14ft vessels. Contracts for the procurement and testing of these platforms have been awarded. A dedicated Integrated Project Team (IPT) has been formed to support the resolution of the vessel mixing issue, and installation of vessels in the plant. The PJM design and control strategy document has been issued by BNI and sent out for the External Review Team (ERT) review.

PT critical paths primarily flows through the vessel HLP-22 installation. The next critical path flows through CXP vessel alterations, followed by the hot cell vertical pumps, integrated pump frames, and rigid electrical jumpers. The tertiary critical path flows through installation of HVAC PVV fans and blowers, followed by completion of the Filter Cave.

Significant Planned Actions in the Next Six Months:

- Start modification of the on-site process vessels to accommodate design changes from the seismic criteria changes and process changes.
- Complete fabrication of 3 black cell vessels.
- Set in-place 2 piping modules (PA07 upper, PA01 lower) in the black cells.
- Fabrication and delivery of initial hot cell equipment frames.
- Perform Large Scale Integrated Testing (LSIT) in 4ft and 8ft vessels for resolving mixing issues.
- Complete 5th lift wall placements, eight 98ft slab placements, two 6th lift wall placements, and placements of the Control Building basemat.
- Set Hot Cell Vertical door drive mechanism replacement gearbox and switch.
- Complete removal of the vessel CXP-001 from the black cell in accordance with the modified CXP system design.
- Complete Verification and Validation (V&V) of quantitative risk analysis for Hydrogen in Piping and Ancillary Vessels (HPAV).
- Complete nineteen mechanical systems re-committed design packages.
- Complete erection of 4th tier structural steel (77ft to 98ft elevation).
- Obtain Ecology approval of the permit packages to proceed with the alteration of the on-site vessels FRP -2A/B/C/D and UFP-62A/B/C in December 2011. These packages are scheduled to begin a public comment period in October 2011.
- Complete aerosol testing to determine entrainment coefficient for the PVV system

Issues:

- Vessel Critical Path: An issue with the seismic supports of vessel HLP-22 has prompted a redesign of PJM mounting hardware and a rework of the seismic analysis, which impacts critical path by an estimated 7-8 weeks. BNI is applying focused management attention to meet the schedule, and will be looking at ways to mitigate the slip in the construction portion of the schedule.

HIGH-LEVEL WASTE (HLW) FACILITY

The High Level Waste (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 56 percent complete overall, with engineering design 86 percent complete, procurement 72 percent complete, and construction 37 percent complete.

Significant Past Accomplishments:

The build-out of the Filter Cave remains critical path for HLW. The five C5V filter housings were set in September, with eight of the twenty dampers installed this month. Two HLW Melter Offgas (HOP) and two Pulse Jet Ventilation (PJV) housings were also set into the filter cave. The final two HOP housings will be the final units installed in mid-November. Fabrication and installation of the transition spool pieces began in October. Sixteen of the twenty C5V dampers have completed fabrication at the vendor in Switzerland and have either been received or are in transit. The last four C5V dampers have been shipped from Switzerland. With the completion of the C5V dampers, the vendor will continue with fabrication of the PJV System and followed by the HOP System remote-operated dampers. The schedule for equipment installations and deliveries is being maintained and will support a completion of the Filter Cave build-out in May 2012.

Five concrete placements (for a sum of 998 cubic yards) were completed in October. The subcontractor has completed the roof and the insulated siding on the HLW Annex several months ahead of schedule. Electrical and piping commodities are progressing throughout the -21ft, 0ft and 14ft elevation, including cooling water, cable trays and supports, and fire protection piping. Sub-Contractors are also continuing with applying special coatings, installing Heating, Ventilation, and Air Conditioning (HVAC), fire protection piping, and liner plate installations.

Significant Planned Actions in the Next Six Months:

- Complete siding of HLW Annex.
- C5V housing and remote-operated damper installations.
- Receive Melter Feed Preparation vessel.
- Receive Plant Wash and Drains vessel (RLD-VSL-8).

Issues:

No significant issues at this time.

LOW-ACTIVITY WASTE (LAW) FACILITY

The Low-Activity Waste (LAW) Facility will vitrify LAW from the Pretreatment (PT) Facility. Waste will be mixed with glass formers, vitrified into glass at a design capacity of 30 metric tons per day, and placed in stainless steel containers that will be disposed on the Hanford Site in the Integrated Disposal Facility. The LAW Facility is 67 percent complete, with engineering design 88 percent complete, procurement 86 percent complete, and construction 66 percent complete.

Significant Past Accomplishments:

Mechanical systems design for the LAW facility is substantially complete. Electrical systems design continues in support of all equipment, controls, and lighting throughout the facility. For example, several electrical panel schedules were issued for the Low-Voltage Electrical (LVE) and Uninterruptible Power Electrical (UPE) systems. Engineering review of vendor calculations and interactions continues as a major emphasis during the ongoing procurement of Secondary Off-Gas/Vessel Vent Process (LVP) system components. For example, this month BNI Engineering issued several confirmed calculations including, *LAW Activated Carbon Bed Operation Conditions and Process Design Requirements*, *LAW Caustic Scrubber Process Operating Conditions and Design Requirements*, and *LAW Catalytic Oxidizer/Reducer Skid Inlet Operating Conditions and Design Requirements*, each for the LVP system, as well as *Overflow Drain Line Sizing* for the Primary Off-Gas Process (LOP) system and *Calculation for Evaluation of Off-Gas System in Case of Leakage in the LOP & LVP Vacuum Section*. Pipe support and piping isometric drawings were issued for the Radioactive Liquid Waste Disposal (RLD), Carbon Dioxide Gas (CDG), LAW Melter Feed Process (LFP), LAW Melter Process (LMP), LAW Primary Off-Gas Process (LOP), and Plant Service Air (PSA) systems.

Procurement activities for the LAW facility are currently focused on the LVP system components. The BNI/vendor interactions progressed well through the month. The first of these secondary off-gas treatment system components to be delivered will be the Carbon Bed Adsorber (CBA), which is currently expected by late November.

The primary areas of construction focus currently are facility partition wall installation and equipment installation for the Container Finishing Handling (LFH) system. Construction activities initiated this month included installation of the hoist for the Container Pour Handling (LPH) system and decontamination turntables for the LFH system. Installation was completed

on the bogie recovery equipment for the LPH system and on the inert fill hoppers and drop lines for the LFH system; other normal construction activities continued with installation of the fire alarm system, Medium-Voltage Electrical (MVE) equipment, Low-Voltage Electrical (LVE) equipment, hoist for the LPH system, cranes for the Melter Equipment Support Handling (LSH) system, and south finishing line mono-rail hoist and dual-rail hoist for the LFH system.

Integrated Control Network (ICN) development continued with software design and testing for the following systems:

- Melter Feed Process (LFP)
- Melter Process (LMP)

The LMP (LAW Melter Process) System Software Acceptance Test Report was issued.

Significant Planned Actions in the Next Six Months:

- Complete vendor fabrication of the carbon bed adsorber.
- Install melter power supplies.
- Complete installation of the ASX system.

Issues:

No major issues at this time.

ANALYTICAL LABORATORY

The Analytical Laboratory (LAB) will support the Hanford Tank Waste Treatment and Immobilization (WTP) operations by analyzing feed, vitrified waste, and effluent streams. The LAB is 49 percent complete overall, with engineering design 78 percent complete, procurement 75 percent complete, and construction 70 percent complete.

Significant Past Accomplishments:

Efforts at the LAB are focused on the successful completion of the LAB Construction Substantially Complete Milestone in December 2012. Installation of partition walls is currently in progress. Installation of these walls defines individual work spaces and allows for easier visualization of the final product. Currently efforts are focused on the radiological laboratory area. BNI has refined the specifications for the fume hoods in these areas based on the processes that will be carried out by the technicians working in the LAB. In an effort to ensure personnel are appropriately qualified and trained once the LAB becomes operational, BNI has begun development of job descriptions for laboratory technicians.

In the last few months BNI has successfully resolved two daunting technical challenges in LAB. The first is the completion of the fireproofing slab in the C5 area, which prevented the installation of a new roof to meet fire safety concerns. The second is the remote maintenance of Radioactive Liquid Waste (RLD) valves in the C5 pit, which will reduce worker exposure during maintenance operations.

The LAB will typically receive samples from the other facilities via the autosampling system. Installation and testing of this system is currently in progress within LAB. Once the samples have arrived within LAB they will be analyzed for an array of different chemical and radiological properties. There is currently an evaluation in progress to determine if there are any gaps with regard to the required analyses and technology available for analysis.

Significant Planned Actions in the Next Six Months:

- Install Autosampler HEPA filter housings frames.
- Complete installation of Autosampler System.
- Install can crusher
- Set pumps in C5 pit
- Install Hot Cell import/export motors

Issues:

No major issues.

BALANCE OF FACILITIES (BOF)

The Balance of Facilities (BOF) provides services and utilities to support operation of the main production facilities – PT, HLW, LAW, and LAB. The BOF is 47 percent complete overall, with engineering design 69 percent complete, procurement 47 percent complete, and construction 62 percent complete.

Significant Past Accomplishments:

Construction efforts for the BOF facilities are focused on supporting turnover of the first facility in 2012, and numerous other facilities in 2013. The framework and precedence for facility turnover will be established following completion of the Switchgear Building (B87). In addition, to preparing for the turnover of the first facility, BNI is developing alternate plans for a temporary control room until the LAW control room becomes operational.

The selection of an Emergency Turbine Generator (ETG) manufacturer was a major stepping stone in the transition from an emergency diesel generator to an ETG. The challenging work continues with ensuring that the BNI and the ETG vendor are in alignment with the required performance of the ETG.

BNI continues to address all safety related concerns as they arise, and is in the final stages of a response to a letter issued by the Defense Nuclear Facilities Safety Board (DNFSB) with regard to the anhydrous ammonia system.

Significant Planned Actions in the Next Six Months:

- Complete construction of cooling tower.
- Complete construction of BOF switchgear building.
- Install structural steel for anhydrous ammonia facility.
- Receive anhydrous ammonia system.

Issues:

No major issues.

Waste Treatment Plant Project - Percent Complete Status Through October 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
Facilities															
Low-Activity Waste	960.2	641.4	67%	231.8	204.3	88%	238.0	205.2	86%	342.3	225.5	66%	148.1	6.4	4%
Analytical Lab	351.4	171.6	49%	55.4	43.3	78%	56.2	41.9	75%	104.6	73.7	70%	135.5	12.4	9%
Balance of Facilities	536.9	253.8	47%	90.6	62.2	69%	81.3	37.9	47%	228.8	143.4	63%	136.1	10.4	8%
High-Level Waste	1,495.4	842.1	56%	347.2	297.5	86%	455.7	326.0	72%	574.7	214.0	37%	117.8	4.5	4%
Pretreatment	2,520.2	1,269.6	50%	724.3	559.7	77%	711.0	342.7	48%	902.3	360.4	40%	182.6	6.7	4%
Shared Services	4,721.4	3,368.4	71%	1,023.9	903.5	88%	469.2	373.8	80%	1,426.5	1,062.2	74%	455.8	119.9	26%
Total WTP w/o UB	10,585.5	6,546.8	62%	2,473.2	2,070.5	84%	2,011.4	1,327.5	66%	3,579.2	2,079.1	58%	1,175.9	160.4	14%
Undistributed Budget	0.0	n/a	n/a	n/a	n/a	n/a									
Total WTP	10,585.5	6,546.8	62%	2,473.2	2,070.5	84%	2,011.4	1,327.5	66%	3,579.2	2,079.1	58%	1,175.9	160.4	14%

Source: WTP Contract Performance Report - Format 1 Data for October 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.