

FINAL

Office of River Protection

Tri-Party Agreement

Project Summary Report

September 27, 2011



Office of River Protection
Tri-Party Agreement Milestone Review Meeting
September 27, 2011

Page	Topic	Leads	Time
TPA 1 / CD 1	Statistics / Status	Woody Russell / Dan McDonald / Jeff Lyon	9:00
TPA 6	Single-Shell Tank Corrective Action; M-45, -50, -60	Bob Lober / Jeff Lyon	9:05
TPA 8 / 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	9:20
TPA 18	SST Integrity Assurance; M-45-91	Jeremy Johnson / Michelle Hendrickson	9:40
TPA 21	In Tank Characterization and Summary	Jeremy Johnson / Michael Barnes	9:45
TPA 22	Tank Operations Contract (TOC) Overview	Dan Knight / Jeff Lyon	9:50
TPA 27	Acquisition of New Facilities; M-90-00; M-47-00	Janet Diediker / Jeff Lyon / Dan McDonald	10:05
TPA 28	Supplemental Treatment and Part B Permit Applications; M-62-00, -20, -30, -45	Steve Pfaff / Jeff Lyon / Dan McDonald	10:10
TPA 29	System Plan; M-62-40	Dabrisha Smith / Jeff Lyon / Dan McDonald	10:15
BREAK			
TPA 30 / 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	10:30
TPA 32 / CD 10	WTP Pretreatment (PT) Facility; D-00A-13, -14, -15, -16, -19	Wahed Abdul / Dan McDonald	10:40
TPA 34 / CD 13	WTP High-Level Waste (HLW) Facility; D-00A-02, -03, -04, -21	Gary Olsen / Dan McDonald	10:50
TPA 35 / CD 15	WTP Low-Activity Waste (LAW) Facility; D-00A-07, -08, -09	Jeff Bruggeman / Dan McDonald	11:00
TPA 37 / CD 18	WTP Analytical Laboratory (LAB); D-00A-05	Jason Young / Dan McDonald	11:05
TPA 39 / CD 21	WTP Balance of Facilities (BOF); D-00A-12	Jason Young / Dan McDonald	11:10

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-062-40A	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 – AIP signed and new document submitted via letter 11-TF-090
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										
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 07/18/11			
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	09/20/11										
M-045-92F	Meet Yearly on Performance of Barrier	12/31/11		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-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									

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 July 29, 2011. Meeting minutes for the June 23, 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. Meeting for 2011 was held on July 13, 2011. Draft meeting minutes have been developed, and will be signed by the parties and entered into the TPA administrative record.

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: Complete.

M-045-92M, Barrier 2 Design/Monitoring Approval from Ecology, Due: 6/30/2012, Status: Complete. 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. Ecology letter, 11-NWP-044, dated May 19, 2011, approved the actions associated with these milestones. ORP sent letter 11-TF-064 to ECY on June 15, 2011 to formally close these milestones.

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 and completed the angled direct push campaign beneath tank C-101
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. Electrical resistivity data was collected from surface and deep electrodes in eastern BY farm and is being analyzed.
7. Continued direct push campaign in S-farm in support of a future interim barrier.

Significant Planned Actions in the Next Six Months:

1. Continue direct push campaign in C Farm.
2. Complete direct push campaign in S-Farm in support of a future interim barrier.
3. Complete 3-D SGE data analysis in eastern BY farm.
4. Continue remediation technology assessments in support of a Corrective Measures Study for WMA C.
5. Perform additional updates to WMA C RFI/CMS workplan based on requested changes from Ecology.

Issues:

ORP is in internal discussions in consideration of Ecology's request for additional RFI/CMS milestones.

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: In Dispute. Transmitted from ORP to ECY via letter 10-TPD-176 on 12/28/10. Ecology issued a Notice of Violation on May 24, 2011, via letter 11-NWP-038, indicating that the deliverable did not fulfill the milestone. The ORP initiated dispute resolution on June 1, 2011 via letter 11-TF-065. ORP also requested an extension of the comment resolution period via letter 11-TF-067. Ecology letter 11-NWP-099 to DOE, dated August 25, 2011, highlighted an ECY/DOE Agreement In Principle for a path forward and extended the due date to October 31, 2011. A revision to the M-45-100 milestone deliverable document was developed collaboratively between ECY and ORP, and was formally transmitted from ORP to ECY on August 29, 2011, via letter 11-TF-090.

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 August 31, 2011, of the comment resolution period, via letter 11-TF-067. ORP requested an additional extension to the comment resolution period in the August TPA managers meeting to September 30, 2011. Resolutions have been identified for all comments, and the document is being revised.

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 September 25, 2011, of the comment resolution period for those three documents via letter 11-TF-067. Ecology requested additional time to review *Radioactive Waste Determination Process Plan for Waste Management Area C Tank Waste Residual* via 11-NWP-049.

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. Comments were transmitted from Ecology to ORP on June 1, 2011, via letter 11-NWP-052. ORP requested an extension, to September 25, 2011, of the comment resolution period for those three documents via letter 11-TF-067.

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-45-100, 101, 80, and 81.

Issues:

- M-045-100 Notice of Violation (NOV): Ecology gave ORP an NOV (letter 11-NWP-038, dated 5/24/11) for a determination that the primary document for the Single-Shell Tank System Catch Tank Assumed Leak Response Plan (RPP-RPT-48438, Revision 0) did not fulfill the intent of milestone M-045-100. ORP initiated dispute resolution on June 1, 2011, via letter 11-TF-065. ORP also requested an extension of the comment resolution period via letter 11-TF-067. Ecology letter 11-NWP-099 to DOE, dated August 25, 2011, highlighted an ECY/DOE Agreement In Principle for a path forward and extended the due date to October 31, 2011. A revision to the M-45-100 milestone deliverable document was developed collaboratively between Ecology and ORP, and was formally transmitted from ORP to Ecology on August 29, 2011, via letter 11-TF-090.
- 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 22-Aug-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					
								FQ1	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		764	637	18-Oct-10 A	04-Mar-14	147	-14																								
HHA-3C001B	C-101 Retrieval Design	144	45	18-Oct-10 A	24-Oct-11	231	-10																								
HHA-3C001C	C-101 Retrieval Procurement - Receive Equipment FY11	28	86	14-Jun-11 A	22-Dec-11	190	0																								
HHA-3C001CA	C-101 Retrieval Procurement - Receive Equipment FY12	52	52	23-Dec-11	09-Mar-12	190	0																								
HHA-3C001E1	C-101 Retrieval System Installation Bid/Award Contract	60	44	06-Apr-11 A	24-Oct-11	243	-10																								
HHA-3C001EA	C-101 Retrieval System Installation FY12	137	137	03-Oct-11*	18-Apr-12	162	1																								
HHA-3C001F	C-101 Retrieval Startup and Readiness	211	211	22-Aug-11	21-Jun-12	147	-14																								
HHA-3C001G	C-101 Retrieval Operations (MS)	84	84	22-Jun-12	19-Oct-12	147	-14																								
HHA-3C001M1	C-101 Sample for Hard Heel Removal Decision	107	107	22-Oct-12	27-Mar-13	147	-14																								
HHA-3C001T	C-101 Hard Heel Rmvl Design & Engineering Support	195	195	28-Mar-13	06-Jan-14	147	-14																								
HHA-3C001R	C-101 Hard Heel Rmvl Procurement	125	125	23-May-13	18-Nov-13	147	-14																								
HHA-3C001S	C-101 Hard Heel Rmvl Installation	70	70	24-Sep-13	06-Jan-14	147	-14																								
HHA-3C001M	C-101 Hard Heel Rmvl Operations	40	40	07-Jan-14	04-Mar-14	147	-14																								
5.02.02.06.02 C-102 Retrieval		933	776	07-Dec-10 A	18-Sep-14	8	-5																								
HHA-1C002B	C-102 Retrieval Design	108	34	07-Dec-10 A	07-Oct-11	46	-7																								
HHA-1C002C	C-102 Retrieval Procurement	80	80	11-Jun-12	02-Oct-12	6	-28																								
HHA-1C002E1	C-102 Retrieval System Installation - Bid/Award Contract	60	94	07-Jul-11 A	06-Jan-12	6	-5																								
HHA-1C002E	C-102 Retrieval System Installation	188	188	09-Jan-12	02-Oct-12	6	-8																								
HHA-1C002F	C-102 Retrieval Startup and Readiness	70	70	07-Aug-12	13-Nov-12	6	-8																								
HHA-1C002G	C-102 Retrieval Operations (MS)	170	170	14-Nov-12	02-May-13	12	-7																								
HHA-1C002R	C-102 Sample for HHR Decision	113	113	03-May-13	11-Oct-13	8	-5																								
HHA-1C002H	C-102 Hard Heel Rmvl Design & Engineering Support	195	195	14-Oct-13	23-Jul-14	8	-5																								
HHA-1C002J	C-102 Hard Heel Rmvl Procurement	125	125	11-Dec-13	10-Jun-14	8	-5																								
HHA-1C002K	C-102 Hard Heel Rmvl Installation	70	70	15-Apr-14	23-Jul-14	8	-5																								
HHA-1C002M	C-102 Hard Heel Rmvl Operations	40	40	24-Jul-14	18-Sep-14	8	-5																								
5.02.02.06.04 C-104 Retrieval		891	632	03-Mar-10 A	30-Sep-13	252	-205																								
HHA-1C004R	C-104 Sample for HHR Decision	43	0	22-Feb-11 A	21-Apr-11 A	0	0																								
HHA-1C004G	C-104 Retrieval Operations (MS)	84	87	03-Mar-10 A	16-Nov-11	747	-105																								
HHA-1C004RA	C-104 Sample for HHR Decision	129	323	13-Jun-11 A	30-Nov-12	252	-243																								
HHA-1C004J	C-104 Hard Heel Rmvl Procurement	120	120	26-Jan-13	17-Jul-13	257	-238																								

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

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

Page 1 of 4 TASK filters: ! - C-Farm CP
Exclude, C-Farm - Critical Path.

SLCS-CUR / OPER-CUR		C-Farm Critical Path by WBS						Data Date 22-Aug-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					
								FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2		
HHA-1C008H	C-108 Hard Heel Rmvl Design & Engineering Support	195	13	12-Oct-09 A	08-Sep-11	319	-19																								
HHA-1C008J	C-108 Hard Heel Rmvl Procurement	125	31	01-Feb-10 A	04-Oct-11	364	-2																								
HHA-1C008K1	C-108 Repairs to POR-104 Valve Box	137	9	18-Oct-10 A	01-Sep-11	386	-26																								
HHA-1C008K	C-108 Hard Heel Rmvl Installation	75	20	22-Feb-10 A	19-Sep-11	312	9																								
HHA-1C008M	C-108 Hard Heel Rmvl Operations	63	63	20-Sep-11	19-Dec-11	312	-45																								
5.02.02.06.09 C-109 Retrieval		479	272	01-Oct-10 A	18-Sep-12	389	8																								
HHA-1C009R01	C-109 Sample for HHR Decision	86	0	01-Oct-10 A	12-May-11 A	0	0																								
HHA-1C009HA	C-109 Hard Heel Rmvl Design & Engineering Support FY12	201	201	03-Oct-11*	19-Jul-12	431	0																								
HHA-1C009J	C-109 Hard Heel Rmvl Procurement	126	29	17-Mar-11 A	30-Sep-11	431	0																								
HHA-1C009JA	C-109 Hard Heel Rmvl Procurement FY12	117	117	03-Oct-11	21-Mar-12	431	0																								
HHA-1C009K	C-109 Hard Heel Rmvl Installation	30	30	22-Mar-12*	02-May-12	314	-25																								
HHA-1C009M	C-109 Hard Heel Rmvl Operations	42	42	20-Jul-12*	18-Sep-12	260	8																								
5.02.02.06.10 C-110 Retrieval		523	193	12-Apr-10 A	25-May-12	272	0																								
HHA-1C010R	C-110 Sample for HHR Decision	385	32	12-Apr-10 A	05-Oct-11	356	-6																								
HHA-1C010H1	C-110 Hard Heel Rmvl Engineering Support FY12	98	98	26-Sep-11*	15-Feb-12	303	0																								
HHA-1C010J	C-110 Hard Heel Rmvl Procurement	237	29	07-Mar-11 A	30-Sep-11	272	0																								
HHA-1C010K	C-110 Hard Heel Rmvl Installation	124	124	03-Oct-11*	30-Mar-12	272	0																								
HHA-1C010M	C-110 Hard Heel Rmvl Operations	40	40	02-Apr-12*	25-May-12	272	0																								
5.02.02.06.11 C-111 Retrieval		601	342	13-Sep-10 A	14-Mar-13	267	0																								
HHA-1C011G	C-111 Retrieval Operations (MS)	31	0	13-Sep-10 A	05-Nov-10 A	0	0																								
HHA-1C011R	C-111 Sample for HHR Decision	107	107	02-Nov-11*	06-Apr-12	267	0																								
HHA-1C011H	C-111 Hard Heel Rmvl Design & Engineering Support	195	195	09-Apr-12	16-Jan-13	267	0																								
HHA-1C011J	C-111 Hard Heel Rmvl Procurement	125	125	05-Jun-12	30-Nov-12	267	0																								
HHA-1C011K	C-111 Hard Heel Rmvl Installation	70	70	04-Oct-12	16-Jan-13	267	0																								
HHA-1C011M	C-111 Hard Heel Rmvl Operations	40	40	17-Jan-13	14-Mar-13	267	0																								
5.02.02.06.12 C-112 Retrieval		917	538	18-Feb-10 A	08-Oct-13	246	0																								
HHA-1C012B	C-112 Retrieval Design	125	27	18-Feb-10 A	28-Sep-11	415	0																								
HHA-1C012C01	C-112 Retrieval Procurement	130	58	17-Jan-11 A	10-Nov-11	384	0																								
HHA-1C012E1	C-112 Retrieval System Installation - Bid/Award Contract	60	0	01-Nov-10 A	29-Dec-10 A	0	0																								
HHA-1C012E	C-112 Retrieval System Installation	144	37	03-Jan-11 A	12-Oct-11	360	-8																								

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

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

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

SLCS-CUR / OPER-CUR C-Farm Critical Path by WBS Data Date 22-Aug-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	
								FQ1	FQ2	FQ3	FQ4	FQ1	FQ2																
HHA-1C012F	C-112 Retrieval Startup and Readiness	57	66	11-Jul-11 A	21-Nov-11	332	-20																						
HHA-1C012G	C-112 Retrieval Operations (MS)	62	62	23-Nov-11	23-Jan-12	485	-28																						
HHA-1C012R	C-112 Sample for HHR Decision	107	107	01-Jun-12*	31-Oct-12	246	0																						
HHA-1C012H	C-112 Hard Heel Rmvl Design & Engineering Support	195	195	01-Nov-12	12-Aug-13	246	0																						
HHA-1C012J	C-112 Hard Heel Rmvl Procurement	125	125	03-Jan-13	26-Jun-13	246	0																						
HHA-1C012K	C-112 Hard Heel Rmvl Installation	70	70	03-May-13	12-Aug-13	246	0																						
HHA-1C012M	C-112 Hard Heel Rmvl Operations	40	40	13-Aug-13	08-Oct-13	246	0																						
5.02.02.06.19 C-Farm Infrastructure DST Receiver Tan...		429	29	09-Oct-09 A	30-Sep-11	299	-31																						
HNA-1NFC0B	C-Farm Infrastructure DST Receiver Tank 3 Design	145	0	09-Oct-09 A	22-Apr-11 A	0	0																						
HNA-1NFC0C	C-Farm Infrastructure DST Receiver Tank 3 Procurement	140	0	01-Mar-10 A	13-Jun-11 A	0	0																						
HNA-1NFC0D...	C-Farm Infrastructure DST Receiver Tank 3 Construction	23	0	14-Feb-11 A	17-Aug-11 A	-12	-12																						
HNA-1NFC0E	C-Farm Infrastructure DST Receiver Tank 3 Startup/Readiness	30	5	26-Oct-10 A	26-Aug-11	320	-7																						
HNA-1NFC0D	C-Farm Infrastructure DST Receiver Tank 3 Construction	105	29	17-May-10 A	30-Sep-11	299	-43																						
5.02.02.06.20 C-Farm Infrastructure DST Receiver Tan...		966	327	07-Dec-10 A	06-Dec-12	211	-20																						
HNA-2NFC0B	C-Farm Infrastructure DST Receiver Tank 4 Design	100	52	07-Dec-10 A	02-Nov-11	211	-20																						
HNA-2NFC0BA	C-Farm Infrastructure DST Receiver Tank 4 Design	20	20	03-Nov-11	02-Dec-11	211	-20																						
HNA-2NFC0C1	C-Farm Infrastructure DST Receiver Tank 4 Procurement	20	20	22-Aug-11	19-Sep-11	323	-20																						
HNA-2NFC0C3	C-Farm Infrastructure DST Receiver Tank 4 Procurement	20	20	20-Sep-11	17-Oct-11	323	-20																						
HNA-2NFC0C	C-Farm Infrastructure DST Receiver Tank 4 Procurement	80	80	01-May-12*	22-Aug-12	234	0																						
HNA-2NFC0D1	C-Farm Infrastructure DST Receiver Tank 4 Construction - Bid/Award	60	60	05-Dec-11	01-Mar-12	211	-20																						
HNA-2NFC0D	C-Farm Infrastructure DST Receiver Tank 4 Construction	165	165	02-Mar-12	23-Oct-12	211	-20																						
HNA-2NFC0E	C-Farm Infrastructure DST Receiver Tank 4 Startup/Readiness	70	70	28-Aug-12	06-Dec-12	211	-20																						

	C-Farm Retrieval Critical Path Current Schedule August 2011	Page 4 of 4	TASK filters: ! - C-Farm CP Exclude, 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. 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 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	AP-107	Estimated start June 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-045-91G-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: Complete 09/15/11 (Letter 11-TPD-057).

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: Complete 09/15/11 (Letter 11-TPD-064).

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: Complete 09/20/11 (Letter 11-TPD-069).

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-045-91G-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: Complete 06/27/11. ORP letter 11-TPD-043 transmitted the test plan to Ecology on June 27, 2011.

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.

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, date changed with M-45-11-05 Change Control Form.

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:

- Approved M-045-91D on July 29, 2011 by Ecology letter 11-NWP-077.
- In support of M-045-91B, the Sampling and Analysis Plan was issued RPP-PLAN-50182 was issued. The demonstration at the WNP-1 Site was completed and witnessed by Ecology. Demonstration was successful, deviation control objective were met.
- Specimens for the M-045-91D milestone have been tested for mechanical properties by CTL in Skokie, Illinois. Vendor test report is being prepared.
- In support of M-045-91G-T02, TYPE II AOR completed (RPP-RPT-49989), Ecology briefed results on 8/23/11.

- M-045-91F-T04: The examination of 241-TY and 241-BY farms continues. Two tank reports for the 241-TY farm have been drafted for discussion with Ecology. Background information for the examination of the 241-BY farm has been collected.
- Completed milestone M-045-91C, transmit to Ecology the Test Plan to evaluate the chemistries as specified in RPP-RPT-43 116. Rev 0 via letter 11-TPD-057 on 09/15/2011.
- Completed 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), sent via letter 11-TPD-064 on 09/15/2011.
- Completed milestone 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, sent via letter 11-TPD-069 on 09/20/11.

Significant Planned Actions in the Next Six Months:

- Receive M-045-91D specimen testing from CTL in Skokie, Illinois.
- Complete milestone M-045-91F-T03, plan to provide Ecology, Ionic Conductivity Feasibility Report in September 2011. Due: 5/31/2013.
- M-045-91F-T04: Leak assessments are ongoing with meetings every other week through 2012.
- 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 November 2011. Due: 1/31/2012.
- Prepare and issue demonstration test report for the sidewall coring demonstration to support M-045-91B-T01.
- Complete milestone M-045-91F-T01 leak assessment rate for Hanford and Savannah River Site tanks.
- Complete 241-TY/BY leak assessment report segment for the M-045-91F-T04 milestone.

Issues:

None.

In Tank Characterization and Summary

For the period from August 1 – August 31, 2011:

Accomplishments:

- Completed revision 0 of RPP-46608, *Spreadsheet Description Document for Particle Size and Criticality Velocity Evaluation for the 241-Z Tank TK-D5 Transfer System* on August 22.
- Completed revision 0, of SVF 2327, *ULD Calculation Spreadsheet v. 1.0 – FY11 Q3 BBI Update SVF-2327.xlsm* on August 3.

Planned Action within the next Six Months:

- Tank Sampling
 - Tank 241-C-108 hard heel dissolution samples scheduled for October 2011.
 - Tank 204-AR-TK-1 compatibility samples scheduled for October 2011.
 - Tank 241-AN-106 grab samples for chemistry control taken at 50% of the retrieval of tank 241-C-107 scheduled for December 2011.
 - Tank 241-AP-104 evaporator samples scheduled for November 2011.
 - Tank 241-C-108 off riser sampling scheduled for January 2012.
 - Tank 241-AN-101 grab samples for chemistry control taken at 50% of the retrieval of tank 241-C-112 scheduled for December 2011.
 - Tank 241-AZ-102 grab samples for chemistry control scheduled for December 2011.
 - Tank 241-C-107 off riser sampling scheduled for March 2012.
- BBI Updates
 - Ten tank updates were planned for FY11 Quarter 4. However, four of the tanks have been postponed due to the lack of required data.
 - Updates for the remaining six tank have been started.
- Data Quality Objectives (DQO)
 - Complete revision 3 of the PCB Management DQO in September 2011.

Issues:

None

TANK OPERATIONS CONTRACT (TOC) OVERVIEW

Project Performance

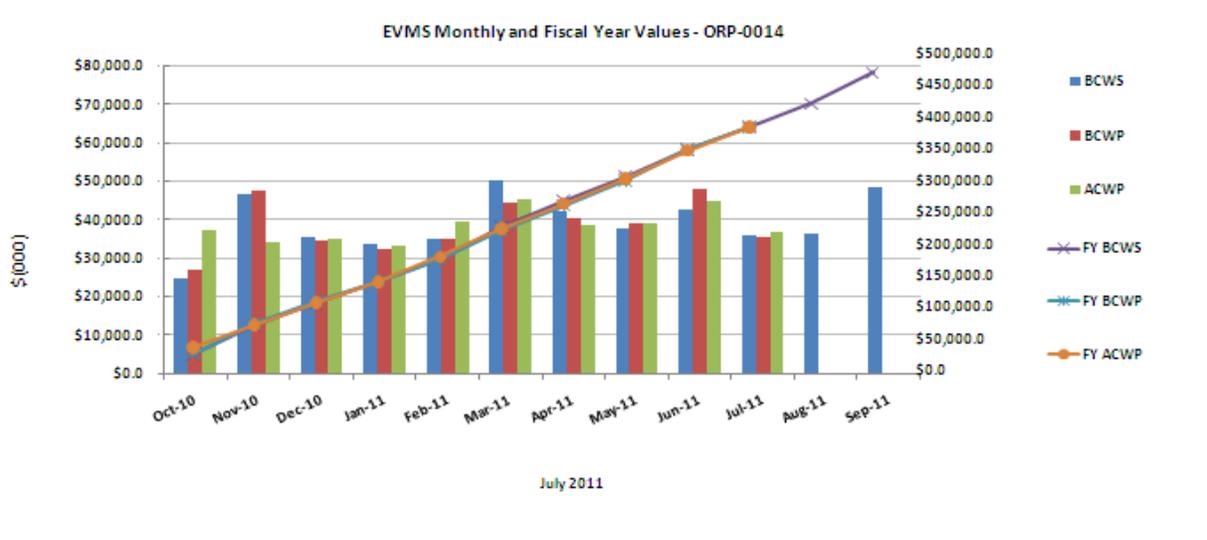
The earned value analysis is a comparison of cost and schedule contract-to-date performance. The earned value performance reporting reflects the format, Work Breakdown Structure (WBS) reporting levels, and variance thresholds as agreed to with the Tank Farms Operations Contractor (TOC) for monthly performance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

WRPS July Project Performance (\$k)

	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC
CM	35,732.0	35,669.0	36,839.3	(63.1)	(1,170.3)	1.00	0.97			
FYTD	384,540.3	383,124.3	383,531.3	(1,416.1)	(407.0)	1.00	1.00	468,636.0	469,678.1	(1,042.1)
CTD	1,144,596.0	1,136,357.9	1,075,654.3	(8,238.1)	60,703.7	0.99	1.06	2,107,285.1	2,045,163.3	62,121.8

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.

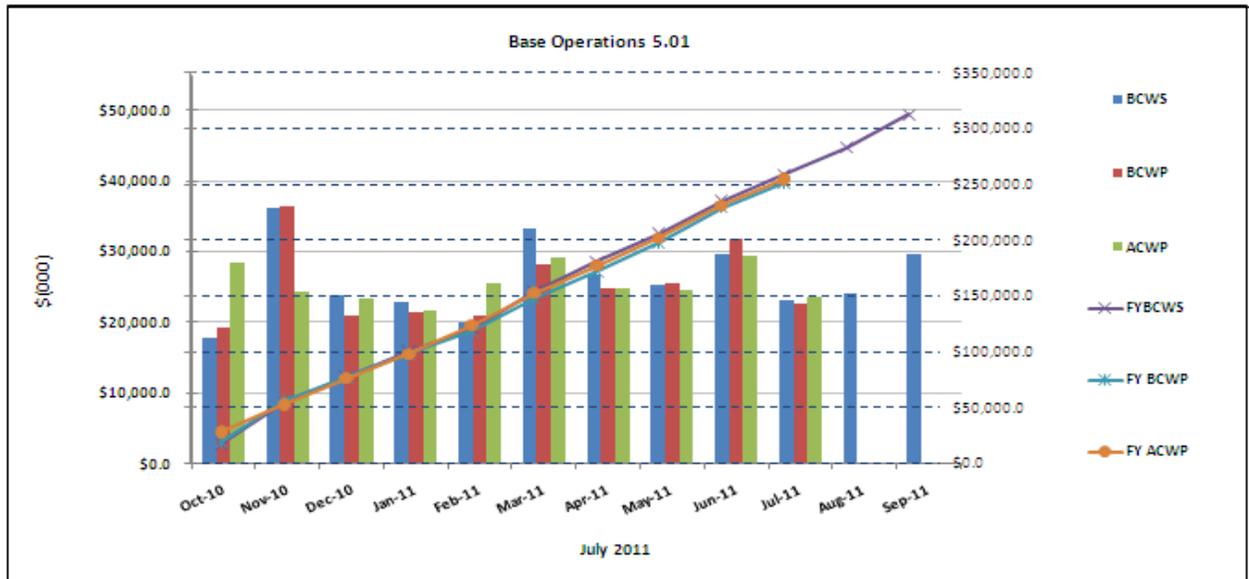
Current Month Significant Variance Contributors



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-10	\$24,918.8	\$26,782.0	\$37,083.6	1.07	0.72	\$24,918.8	\$26,782.0	\$37,083.6	1.07	0.72
Nov-10	\$46,528.0	\$47,510.9	\$34,301.0	1.02	1.39	\$71,446.8	\$74,292.9	\$71,384.5	1.04	1.04
Dec-10	\$35,469.5	\$34,558.3	\$35,056.5	0.97	0.99	\$106,916.3	\$108,851.1	\$106,441.0	1.02	1.02
Jan-11	\$33,862.5	\$32,115.2	\$33,376.8	0.95	0.96	\$140,778.8	\$140,966.4	\$139,817.8	1.00	1.01
Feb-11	\$35,157.1	\$34,800.5	\$39,288.6	0.99	0.89	\$175,935.9	\$175,766.8	\$179,106.4	1.00	0.98
Mar-11	\$50,219.3	\$44,202.5	\$45,098.7	0.88	0.98	\$226,155.2	\$219,969.3	\$224,205.1	0.97	0.98
Apr-11	\$42,344.0	\$40,218.8	\$38,772.0	0.95	1.04	\$268,499.2	\$260,188.1	\$262,977.1	0.97	0.99
May-11	\$37,492.6	\$39,240.0	\$38,843.5	1.05	1.01	\$305,991.8	\$299,428.1	\$301,820.6	0.98	0.99
Jun-11	\$42,816.6	\$48,027.1	\$44,871.5	1.12	1.07	\$348,808.4	\$347,455.2	\$346,692.1	1.00	1.00
Jul-11	\$35,958.2	\$35,669.0	\$36,839.3	0.99	0.97	\$384,766.6	\$383,124.2	\$383,531.4	1.00	1.00
Aug-11	\$36,269.3					\$421,035.9				
Sep-11	\$48,559.2					\$469,595.1				
CTD	\$1,108,864.0	\$1,100,689.0	\$1,038,815.0	0.99	1.06					

- **Effective through July 31, 2011** – The overall project performance is going very well; SPI is slightly under 1.00 with a CPI of 1.06; thus – ORP 0014 is on schedule and under budget.

Office of River Protection (ORP-0014) Fiscal Year 2011 - Monthly EVMS

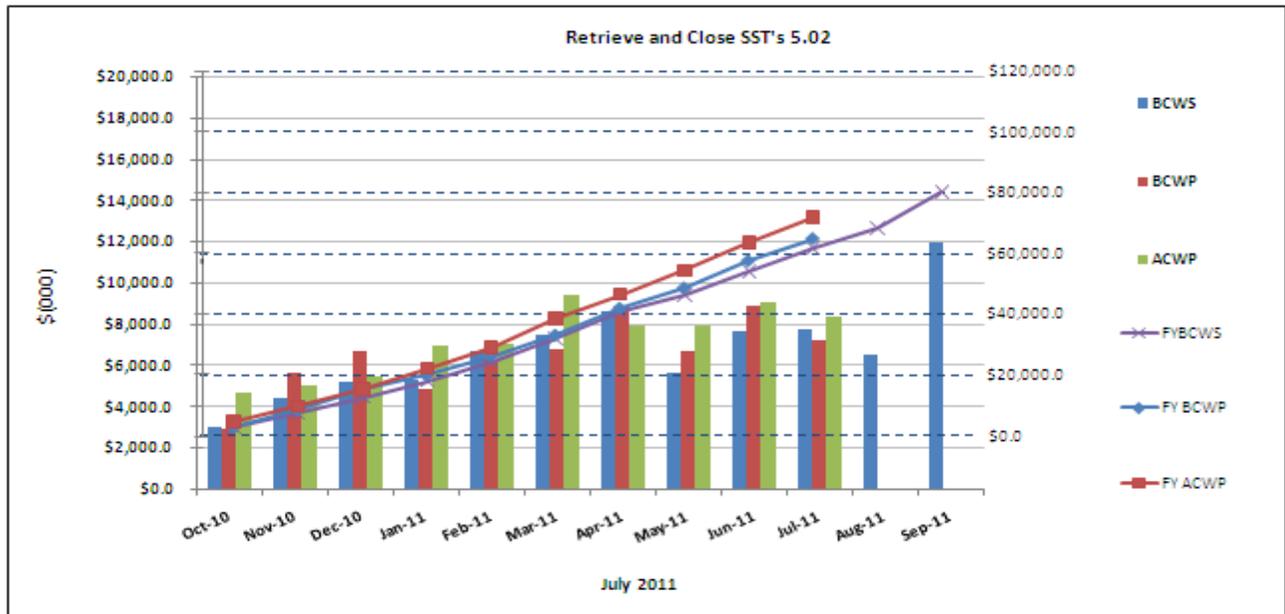


Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-10	\$17,777.2	\$19,285.1	\$28,549.6	1.08	0.68	\$17,777.2	\$19,285.1	\$28,549.6	1.08	0.68
Nov-10	\$36,143.1	\$36,366.3	\$24,452.2	1.01	1.49	\$53,920.3	\$55,651.4	\$53,001.8	1.03	1.05
Dec-10	\$23,775.6	\$20,995.7	\$23,448.8	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	\$26,817.9	\$24,728.9	\$24,769.1	0.92	1.00	\$180,750.6	\$172,061.6	\$177,592.0	0.95	0.97
May-11	\$25,422.8	\$25,669.7	\$24,548.6	1.01	1.05	\$206,173.4	\$197,731.3	\$202,140.6	0.96	0.98
Jun-11	\$29,540.0	\$31,789.1	\$29,306.5	1.08	1.08	\$235,713.4	\$229,520.4	\$231,447.1	0.97	0.99
Jul-11	\$23,168.0	\$22,540.5	\$23,499.9	0.97	0.96	\$258,881.4	\$252,060.9	\$254,947.0	0.97	0.99
Aug-11	\$24,147.8					\$283,029.2				
Sep-11	\$29,554.9					\$312,584.1				

CTD	\$748,697.6	\$743,853.7	\$715,573.7	0.99	1.04
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- **242-A Evaporator Operation and Maintenance, \$230k:** CM (CV) the CV is driven by three root causes:
 - (1) An accounting error in the work packages for the 242-A Evaporator simulator capital equipment not related to construction and simulator resulting in a credit to the ACWP of (\$103k), which will be corrected in August. The correct adjusted CV for this control account is 127k;
 - (2) Labor overruns due to more vacations than planned and an unplanned short-term disability, and a delay to the 242-A Evaporator outage as maintenance resources were diverted to higher-priority work, \$55k;
 - (3) Other minor contributors including equipment not costed as planned, unrealized cost transfer from RA to the base contract, and no costs to the spare parts account, \$79k.
- **RA-DST Valve Assembly Upgrades, (\$202k):** CM (SV) performance “give-back” on installation of replacement piping jumpers in the AN-A and AN-B valve pits (work completed early).
- **RA-Exhauster Upgrades, (\$190k):** CM (SV) performance “give-back” on AP and SY Farm exhauster upgrades (work completed early).

Office of River Protection (ORP-0014) Fiscal Year 2011 - Monthly EVMS

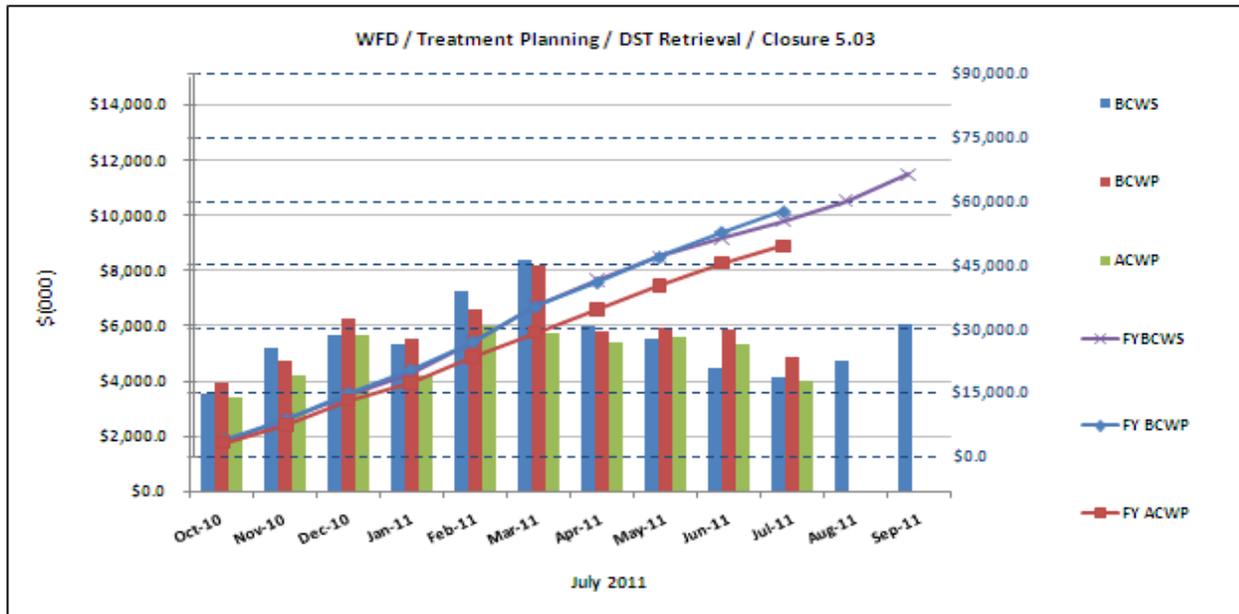


Earned Value Month	BCWS	BCVP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-10	\$2,991.6	\$2,932.6	\$4,707.6	0.98	0.62	\$2,991.6	\$2,932.6	\$4,707.6	0.98	0.62
Nov-10	\$4,412.7	\$5,622.7	\$5,006.7	1.27	1.12	\$7,404.3	\$8,555.3	\$9,714.3	1.16	0.88
Dec-10	\$5,209.7	\$6,682.7	\$5,494.0	1.28	1.22	\$12,614.0	\$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	\$8,613.5	\$8,766.1	\$7,914.2	1.02	1.11	\$40,720.8	\$41,902.8	\$46,552.3	1.03	0.90
May-11	\$5,638.9	\$6,687.7	\$7,937.1	1.19	0.84	\$46,359.7	\$48,590.5	\$54,489.4	1.05	0.89
Jun-11	\$7,638.7	\$8,905.0	\$9,080.1	1.17	0.98	\$53,998.4	\$57,495.5	\$63,569.5	1.06	0.90
Jul-11	\$7,729.6	\$7,211.9	\$8,335.0	0.30	0.87	\$61,728.0	\$64,707.4	\$71,904.5	1.05	0.90
Aug-11	\$6,540.3					\$68,268.3				
Sep-11	\$11,951.1					\$80,219.4				

CTD	\$215,268.5	\$211,848.8	\$206,098.7	0.98	1.03
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- **C-112 Retrieval, (\$712k):** CM (SV) behind schedule on SST C-112 retrieval system procurement, (\$119k), and installation, (\$553k), due to late receipt of material, resource constraints (assigned to higher-priority work), weather delays (heat and wind), and resolution of technical issues.
- **C-107 Retrieval, (\$642k):** CM (CV) costs exceeding the plan for installation of the MARS (overtime to recover the schedule), (\$413k); design and engineering costs for resolution of water hammer calculation issues and development of engineering change notices, (\$149k); and exhauster refurbishment, (\$120k).
- **C-108 Retrieval, (\$488k):** CM (CV) costs exceeded the plan for hard heel removal leak checks, which were impacted by technical issues encountered in the field, overtime worked, and weather delays (wind and heat).
- **C-109 Retrieval, \$137k:** CM (CV) cost efficiencies on hard heel removal engineering and project management due to in-house design and shared management resources.

Office of River Protection (ORP-0014) Fiscal Year 2011 - Monthly EVMS

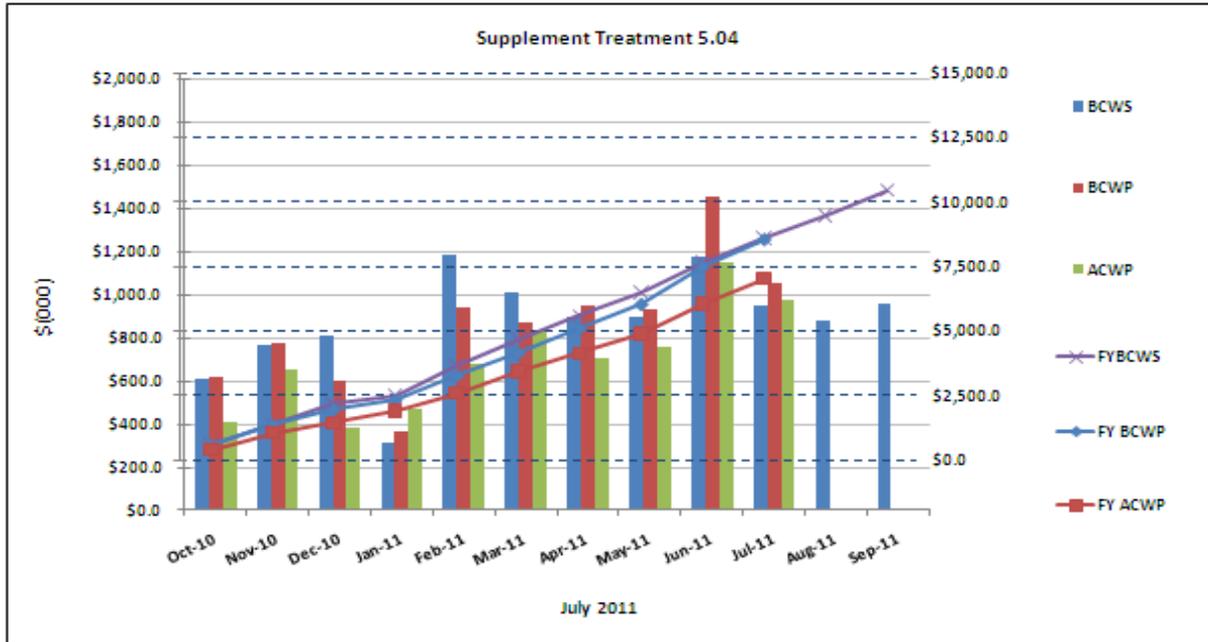


Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-10	\$3,540.0	\$3,944.3	\$3,413.8	1.11	1.16	\$3,540.0	\$3,944.3	\$3,413.8	1.11	1.16
Nov-10	\$5,203.6	\$4,748.8	\$4,184.7	0.91	1.13	\$8,743.6	\$8,693.1	\$7,598.5	0.99	1.14
Dec-10	\$5,677.1	\$6,277.7	\$5,689.4	1.11	1.10	\$14,420.7	\$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	\$6,011.0	\$5,778.2	\$5,384.6	0.96	1.07	\$41,430.0	\$41,102.5	\$34,648.6	0.99	1.19
May-11	\$5,533.4	\$5,946.3	\$5,595.9	1.07	1.06	\$46,963.4	\$47,048.8	\$40,244.5	1.00	1.17
Jun-11	\$4,456.7	\$5,875.8	\$5,335.3	1.32	1.10	\$51,420.1	\$52,924.6	\$45,579.8	1.03	1.16
Jul-11	\$4,110.8	\$4,859.5	\$4,024.3	1.18	1.21	\$55,530.9	\$57,784.1	\$49,604.1	1.04	1.16
Aug-11	\$4,703.9					\$60,234.8				
Sep-11	\$6,091.6					\$66,326.4				

CTD	\$134,330.3	\$134,580.0	\$108,286.0	1.00	1.24
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- **RA-Exhauster Upgrades, (\$190k): CM (SV)** performance “give-back” on AP and SY Farm exhauster upgrades (BCWS in the CM for work completed early).
- **RA-Electrical Upgrades, (\$239k): CM (SV)** behind schedule on the TX/TY Farms’ SST electrical upgrades due to higher priorities for review and release of design documentation. Work expected to be completed in September 2011, 1 month behind schedule.
- **RA-Electrical Upgrades, (\$240k): CM (CV)** the CV is driven by two root causes:
 - (1) The contract for the SY Farm POC exceeds the planned value due to increased market prices for electrical components and material, and the CM progress and BCWP were limited to the subcontract milestone payment schedule, **(\$185k)**;
 - (2) Unplanned additional labor and material costs to procure and replace 14 breakers in the SY Farm that are not compatible with the new transformer, **(\$50k)**.
- **RA-Secondary Waste Form Testing, \$298k: CM (CV)** cost efficiencies on the RA-Secondary Waste Form Testing, \$189k, and RA-Minimize Tc [Technetium] in Secondary Waste, **\$109k**, because the contractor is completing the phase 2 technetium retention testing utilizing fewer resources than planned.

Office of River Protection (ORP-0014) Fiscal Year 2011 - Monthly EVMS



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	\$945.5	\$704.0	1.05	1.34	\$5,597.7	\$5,121.4	\$4,144.1	0.91	1.24
May-11	\$897.5	\$936.3	\$761.9	1.04	1.23	\$6,495.2	\$6,057.7	\$4,906.0	0.93	1.23
Jun-11	\$1,180.7	\$1,457.2	\$1,149.5	1.23	1.27	\$7,675.9	\$7,514.9	\$6,055.5	0.98	1.24
Jul-11	\$949.9	\$1,057.1	\$979.8	1.11	1.08	\$8,625.8	\$8,572.0	\$7,035.3	0.99	1.22
Aug-11	\$877.3					\$9,503.1				
Sep-11	\$961.7					\$10,464.8				

CTD	\$10,567.6	\$10,406.4	\$8,856.7	0.98	1.17
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- *WTP Pre-Treatment Alternative Studies, \$36k*: CM (CV) cost efficiencies realized from self-performing WTP technology development baseline studies, reducing subcontractor cost and utilizing technology demonstrations from SRNL, requiring less 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:

The Interim Hanford Storage and Secondary Waste Treatment Projects down-selection of alternatives was completed in August 2011.

The Interim Hanford Storage selected alternative is to construct a new storage facility which employs a below-grade storage module consisting of two vaults to store where IHLW canisters are double-stacked in an open rack, which is similar to the storage bay in the WTP's high level vitrification building. The canisters are double-stacked in an open rack. Canisters are stored upright in the racks, which provide space for air to flow in contact with each canister.

The Secondary Waste Treatment Project's selected alternative is to upgrade the existing Effluent Treatment Facility, as necessary to support processing of ERDF/IDF leachate, 242-A Evaporator condensate, and WTP secondary liquid waste. A solidification treatment unit will be added to the updated ETF to produce a low-temperature solid waste form for immobilization of the separated contaminants.

Significant Planned Actions in the Next Six Months:

Initiate Conceptual Design for both the Interim Hanford Storage and Secondary Waste Treatment Project.

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: Deleted. Change Package M-62-11-01 deleted this milestone and elements required by this milestone may now be considered during the M-62-40 or M-62-45 negotiations. M-62-11-01 notes that no further obligations remain to be performed under M-062-30.

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:

- ORP and Ecology signed change package M-62-11-01, deleting milestone M-62-30.

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: 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-062-45-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:

WRPS submitted the System Plan, Revision 6 on August 25, 2011 for the DOE/ORP contract review period of August 26, 2011 through September 20, 2011.

Significant Planned Actions in the Next Six Months:

Comments generated from the DOE/ORP contract review period will be incorporated in the System Plan Revision 6 document. The finalized document will be approved by ORP, released by WRPS, and transmitted from ORP to Ecology in time to meet the Oct. 31, 2011 milestone due date.

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, CD – 7/28/2011 - TPA – 7/27/2011
M-062-49	Submit a report to Ecology demonstrating that the WTP is designed to accomplish, retreat 100% of retrievable waste, vitrify 100% of separated high level waste, WTP LAW with supplemental treatment can vitrify 100% of separated low level waste stream	10/31/2011	BNI was provided direction to prepare this report on March 30, 2011, document in preparation, and will be provided to DOE at the end of September 2011.

The WTP Project currently employs about 3,500 full-time equivalent (FTE) contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel, including 1,300 craft, 590 non-manual, and about 205 subcontractor personnel FTEs working at the WTP construction site (all facilities). As of July 2011, the project is 60 percent complete, design and engineering is 83 percent complete, procurement is 64 percent complete, construction is 56 percent complete, and Startup and Commissioning is 13 percent complete.

The overall WTP Project schedule variance in July was a positive \$2.2M, the cost variance was a positive \$3.3M. The positive cost variance was due to Plant Equipment and Engineering control accounts and the schedule variances came primarily from Plant Material and Construction control accounts.

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

Significant Past Accomplishments:

- Completed the analytical results from the Low Order Accumulation Model validation testing for the non-Newtonian vessel configuration.
- Completed installation of the hot cell monorail airlocks in the Analytical Laboratory.

Significant Planned Actions in the Next Six Months:

- Complete erection of 4th-tier structural steel (77-ft to 98-ft elevation).
- Perform Large Scale Integrated Testing (LSIT) in 4-ft and 8-ft vessels for resolving mixing issues.
- Complete fabrication and delivery of C5 Ventilation System (C5V) dampers.
- Complete siding of High-Level Waste (HLW) Facility Annex.

- Complete installation of the Low-Activity Waste (LAW) Facility and Analytical Laboratory (Lab) Autosampler systems.
- Complete construction of the Balance of Facilities (BOF) cooling tower.
- Complete construction of BOF switchgear building.

Issues:

No significant issues at this time.

PRETREATMENT (PT) FACILITY

The PT Facility will separate radioactive tank waste into HLW and LAW fractions and transfer each waste type to the respective vitrification facility for immobilization. Through July 2011, the PT Facility is 49 percent complete overall, engineering is 78 percent complete, procurement is 46 percent complete, and construction is 38 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 56-ft to 98-ft elevations. Construction completions for August include placement of five 5th-lift (77-ft to 98-ft elevation) walls for a total of 423 cubic yards. Set into place the stainless steel decontamination booth and two hot cell shield doors.

Ongoing work includes fabrication of piping modules and installation of drain piping, service air piping, cable trays and supports, ductwork, conduit, wall liner plates, sparge tubing in the hot cell, and structural steel at the northwest corner of the facility at the 77-ft elevation.

Engineering continues to implement changes from the technical issue resolutions into piping and instrumentation diagrams and piping isometric drawings. Instrumentation location drawings and piping isometric drawings were issued for the 56-ft elevation.

Evaluations of the Pretreatment Vessel Vent Process/Process Vessel Vent Exhaust System to validate the ability to meet functional requirements during an off-normal condition is ongoing, including the performance testing of High Efficiency Mist Eliminator (HEME) and scrubber. Vendor award for the aerosol testing to determine entrainment factor for the WTP-specific conditions is in progress.

Re-committed design packages were issued for the cesium ion exchange, waste feed evaporator waste feed receipt, the demineralized water and pulse jet ventilation process systems. Approved BNI request for the Justification for Continued Design Procurement and Installation needed to award HEME procurement. BNI has awarded the LSIT contract for the PJM mixing in 4-ft, 8-ft, and 14-ft vessels.

ASX pneumatic transfer system and vacuum system HEPA filters were released to ship. Submitted to Ecology the IQRPE final report for approval of the permit modifications for Vessels UFP- 62 A/B. Vessel head welding for vessels UFP-27A and 27B are complete.

Updated detailed execution plan for the design, procurement, and installation of liner plates, jumper frames and equipment pads have been developed for the hot cell.

Significant Planned Actions in the Next Six Months:

- Removal of CXP-1 vessel, based on the CXP System design changes
- Fabrication and delivery of initial hot cell equipment frames.
- Development of the Pulse Jet Mixer (PJM) design and control strategy for resolving open issues with mixing and completion of vessel design.

- Perform Large Scale Integrated Testing in 4-ft and 8-ft vessels for resolving mixing issues.
- Award contract for HEME.
- Complete 5th-lift wall placements, make eight 98-ft slab placements, four 6th-lift wall placements, and make 6 of 8 placements for the Control Building basemat, totaling approximately 5,000 cubic yards of concrete.
- Set hot cell vertical door drive mechanism replacement gearbox and switch.
- Complete verification and validation of quantitative risk analysis for hydrogen in piping and ancillary vessels.
- Install hot cell piping pulse jet ventilation header.
- Make first 98-ft elevation slab concrete pour by end of 2011.
- Complete hazardous operations review for the cesium ion exchange, waste feed evaporator and the HLW lag storage and feed blend process systems.
- Complete 19 mechanical systems re-committed design packages.
- Complete erection of 4th-tier structural steel (77-ft to 98-ft elevation).
- Ecology approval of the permit packages is required 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.

Issues:

- Vessel Critical Path: Fabrication of vessel HLP-22 continues to be the primary critical path for the PT Facility. The fabrication of the vessel is in progress, but the completion date has slipped from October to December 2012. This is still ahead of the construction need date of February 2013. However, the fabricator is pursuing opportunities to improve the HLP-22 completion date.

HIGH-LEVEL WASTE (HLW) FACILITY

The HLW Facility will receive the separated HLW from the 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 55 percent complete overall, with engineering design 85 percent complete, procurement 69 percent complete, and construction 36 percent complete.

Significant Past Accomplishments:

The build-out of the Filter Cave is critical path for HLW. The first of five C5V filter housing was set in place on August 31; the remaining four were set in place as of September 12, allowing for the following placement of dampers in pairs. This sequencing allows for slight adjustments to optimize the alignment of the housings, dampers, and headers and to maintain the spacing requirements between housings before welding the assemblies and finalizing the installations. The first set of remote-operated dampers was received in August and damper deliveries continue in lots of two each week. The schedule for equipment installations and deliveries is being maintained and support a completion of the Filter Cave build-out in May 2012.

Five concrete placements (for a sum of 607 cubic yards) were completed in August, and with the placement of walls 2146 and 2147 on September 8, all of the 14-ft to 37-ft elevation walls have been placed with the exception of two exterior walls along the Canister Export Bay. For the HLW Annex, the parapet walls have been completed and the subcontractor is continuing the installation of siding and roofing. Electrical and piping commodities are progressing throughout the 21-ft elevation, including cooling water, cable trays and supports, and fire protection piping. Vendors are also continuing with special coatings, HVAC, and liner plate installations.

Significant Planned Actions in the Next Six Months:

- Complete fabrication and delivery of C5V dampers.
- Complete siding of HLW Annex.
- C5V housing and remote-operated damper installations.
- Receive major components of Melters 1 and 2.
- Receive RLD-VSL-8.

Issues:

No significant issues at this time.

LOW-ACTIVITY WASTE (LAW) FACILITY

The LAW Facility will vitrify LAW from the 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 66 percent complete, engineering is 88 percent complete, procurement is 85 percent complete, and construction is 64 percent complete.

Significant Past Accomplishments:

The LAW secondary off-gas treatment system component procurement activities continued. Vendor activities are progressing for all off-gas system components. The first of these secondary off-gas treatment system components to be delivered will be the carbon bed adsorber (CBA) in November 2011. The Annex Architectural Specialties subcontract was awarded. Other procurement activities included issuance of a material requisition for quotes on high-efficiency particulate air (HEPA) pre-heaters, a material acceptance plan for melter/component fabrication, and a release to ship a HEPA filter for the pneumatic transfer vacuum system.

BNI Design issued piping and instrumentation diagrams for the C2V and C3V systems for refrigerant lines serving safety air-conditioning units for the off-gas fan and battery rooms. An instrument rack general arrangement data sheet was issued for the LAW concentrate receipt process system. Several instrument data sheets were issued for the LAW primary off-gas process system. Piping isometric drawings were issued for the chilled water, plant cooling water, carbon dioxide gas, LAW primary off-gas process, and LAW melter process systems.

Several equipment qualification and enclosure component data sheets were issued for the programmable protection system. Connection diagram data sheets were issued for the autosampling, LAW concentrate receipt process, programmable protection, and LAW secondary off-gas/vessel vent process systems. Initial Component Information System (CIS) equipment and component lists were issued for the plant service air and demineralized water systems. Updated CIS lists for equipment, in-line components, valves, and pipelines were issued for the carbon dioxide gas system.

BNI initiated installation of the container inert fill hoppers for the container finishing handling system. Installation was completed for two moisture eliminators and HEPA filters for the C5V ventilation system, a mud mat for the east transformer foundation, hopper chutes for the glass former reagent system, as well as the lidding equipment in the south line for the container finishing handling system. Construction continued with installation of the fire alarm system, low-voltage electrical equipment, medium voltage electrical equipment, air-handling units, fan coil units, and humidifiers for the C2V ventilation system, liner in the pour caves, cranes for the LAW melter equipment support handling system, and container receipt handling and finishing line hoists, hatches, and lidding equipment. Other normal activities continued, including installation of piping for the medium-voltage electrical, glass former reagent, and plant cooling water systems within the LAW, as well as installation of pipe and pipe hangers, sprinklers,

electrical grounding, conduit and wiring, tubing for instrumentation, instrument enclosures, lighting fixtures, partition walls, and coatings.

Integrated Control Network development continued with software design and testing for the following systems: LAW melter feed process system, container receipt handling system, LAW melter equipment support handling system, primary off-gas process system, secondary off-gas/vessel vent process system, ASX system, and radioactive liquid waste disposal system.

Significant Planned Actions in the Next Six Months:

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

Issues:

No major issues at this time.

ANALYTICAL LABORATORY

The Lab will support WTP operations by analyzing feed, vitrified waste, and effluent streams. The lab is 47 percent complete, engineering is 78 percent complete, procurement is 74 percent complete, and construction is 65 percent complete.

Significant Past Accomplishments:

Ongoing construction work includes installation of HEPA filters and tubing on top of the hot cells, piping, formwork, rebar, and embeds in C5 fan room for fireproofing slab, drop piping for the low pressure steam, steam condensate water, and chilled water system, domestic water piping, lower piping in C2V/C3V pit, bulk piping/hangers, electrical equipment, ballast enclosures, and scheduled/unscheduled conduit and raceway in the exterior hot cell, bulk piping/hangers in the radiological lab. Installation continues on the trolley covers/motor assemblies and north gamma probes in interior hot cell. Construction completed installation of structural steel in C5 fan room for fireproofing slab, electrical equipment in the maintenance/glovebox room, and installation of the hot cell monorail airlocks.

Engineering issued laboratory in-cell handling system software acceptance test, configuration data indices for low pressure steam, instrument data sheets for C2V, C3V, and C5V differential pressure transmitters, and instrument data sheets for environmental monitoring system ambient radiation detectors. Piping isometric drawings were issued for low-pressure steam and high-pressure steam.

The following were issued for the radioactive liquid waste disposal system: control logic and functional diagrams to support software testing, configuration data indices, data sheets for field bus pressure transmitters, data sheets for fieldbus temperature transmitters/switches, data sheets for resistance temperature detection elements, system block diagrams, and piping isometric drawings.

The following were issued for the ASX system: configuration data indices, sequential functional charts, control logic diagrams, system block diagrams, functional instrumentation diagrams, setroute layout, programmable protection system equipment qualification and enclosure data sheets, component identification system in-line/equipment lists, and piping isometric drawings.

The following were issued for the low voltage electrical system and the uninterruptable power electrical: 208-volt/120-volt distribution panel block diagrams and panel schedule, and termination/cable schedules. Drawings were issued for leak collections pans to support the architectural specialties subcontract work.

Procurement received three tons of structural steel, issued material requisitions for radiological monitoring instruments, specialty valves, process regulators, thermocouples/resistance temperature detectors, important to safety programmable protection system components, breakers for load centers, and radar/radio frequency level instruments.

The operations staff performed a walkthrough of the Lab to follow the progress of the installation of the ASX sampling units and accessories. An agreement was made with

Engineering with respect to operation of C3/C5 pumps to remove liquid from their respective tank sumps. The team is working on an evaluation to determine if all facilities require multiple weather protected loading bays/docks, and any required modifications that need to be made from the evaluation. The team completed the draft spreadsheet on waste feed acceptance criteria (WAC) data quality objectives (DQO) analytes. This spreadsheet listed the 258 WAC analytes along with sample size and analytical methods, and grouped the analytes into action limits, elemental, radiochemical, and organic categories. Additionally, baseline analytical methods for waste pre-qualification are being established. Identification of existing methods for analyses required by the WAC DQO document is complete. Gaps between analytical requirements and existing methods are being reviewed for methods development needs.

Significant Planned Actions in the Next Six Months:

- Install waste drum bogie transfer port.
- Install Autosampler HEPA filter housings frames.
- Complete installation of Autosampler System.
- Install hot cell monorail recovery hoists.
- Install fireproofing slab in C5 fan room.

Issues:

No major issues.

Balance of Facilities (BOF)

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 47 percent, engineering is 72 percent complete, procurement is 47 percent complete, and construction is 62 percent complete.

Significant Past Accomplishments:

Ongoing construction work includes installation of plant service air (PSA) piping at the LAB, excavation for the PT control building and substation #1, water booster pump for the LAB's chilled water system, cable terminations at the main switchgear building, electrical equipment, conduit supports, and cable at the BOF switchgear building, tying in domestic water piping to west gate 23, backfilling/placing controlled density fill at the anhydrous ammonia storage facility and the water treatment facility, formwork/rebar and excavation at the LAW transformer pad, and installation of formwork/rebar and embeds for the carbon dioxide tank pad. At the glass former storage facility (GFSF) construction continued installation of lighting systems, PSA system piping, transport piping/supports, and scheduled/unscheduled conduit cable tray. Construction completed installation of fire service water (FSW) system valves and coating bolts at the GFSF, and backfilling anchor thrust blocks at GFSF.

Engineering issued above ground raceway plans for the switchgear building, drawings for the plant cooling water (PCW) system, equipment qualification and enclosure data sheets for the ammonia reagent system, issued piping isometric drawings for the PCW system, released lube oil heat exchangers to ship for the PCW system, and drawings for interconnecting pipe spool for pump discharge at the water treatment facility. Engineering issued specifications for radiation monitors (continuous air monitors), liquid effluent gamma monitors, and area radiation monitors.

Procurement awarded a purchase order for the communications equipment system, issued material requisition to award subcontract for the emergency turbine generators (ETG), and issued pre-award engineering services subcontract technical evaluation for the ETGs.

The operations staff participated in the ETG load list timing sequence discussion, walked through a portion of the steam plant to evaluate design and maintainability of the removable insulation pads as well as a condition assessment of the overall steam plant facility. Staff participated in a discussion with respect to operation requirements document need for weather protection of entry and egress doors.

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 July 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	951.8	625.9	66%	229.6	202.4	88%	234.2	198.2	85%	339.8	218.9	64%	148.1	6.4	4%
Analytical Lab	351.2	164.9	47%	55.0	42.8	78%	56.1	41.7	74%	104.9	68.4	65%	135.2	12.0	9%
Balance of Facilities	529.0	249.0	47%	84.3	61.0	72%	80.9	37.8	47%	227.7	140.7	62%	136.1	9.6	7%
High-Level Waste	1,487.9	808.8	54%	342.1	293.1	86%	454.3	311.5	69%	573.7	199.8	35%	117.8	4.4	4%
Pretreatment	2,494.1	1,216.8	49%	697.2	544.5	78%	715.6	326.8	46%	898.8	339.5	38%	182.6	6.0	3%
Shared Services	4,745.6	3,290.9	69%	1,051.5	892.2	85%	467.7	360.9	77%	1,421.4	1,038.1	73%	455.8	115.1	25%
Total WTP w/o UB	10,559.6	6,356.3	60%	2,459.7	2,036.0	83%	2,008.8	1,276.9	64%	3,566.3	2,005.4	56%	1,175.6	153.5	13%
Undistributed Budget	0.0	n/a	n/a	n/a	n/a	n/a									
Total WTP	10,559.6	6,356.3	60%	2,459.7	2,036.0	83%	2,008.8	1,276.9	64%	3,566.3	2,005.4	56%	1,175.6	153.5	13%

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