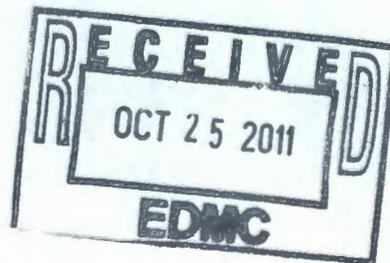


FINAL

Office of River Protection
Tri-Party Agreement
Project Summary Report
October 25, 2011



Office of River Protection
Tri-Party Agreement Milestone Review Meeting
October 25, 2011

Page	Topic	Leads	Time
TPA 1 / CD 1	Statistics / Status / Minutes Discussion	Woody Russell / Dan McDonald / Jeff Lyon	9:00
TPA 6	Single-Shell Tank Corrective Action; M-45, -50, -60	Bob Lober / Jeff Lyon	9:20
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	9:35
TPA 18	SST Integrity Assurance; M-45-91	Jeremy Johnson / Michelle Hendrickson	9:55
TPA 21	In Tank Characterization and Summary	Jeremy Johnson / Michael Barnes	10:00
TPA 22	Tank Operations Contract (TOC) Overview	Dan Knight / Jeff Lyon	10:05
TPA 27	Acquisition of New Facilities; M-90-00; M-47-00	Janet Diediker / Jeff Lyon / Dan McDonald	10:20
TPA 28	Supplemental Treatment and Part B Permit Applications; M-62-00, -20, -30, -45	Steve Pfaff / Jeff Lyon / Dan McDonald	10:25
TPA 29	System Plan; M-62-40	Dabrisha Smith / Jeff Lyon / Dan McDonald	10:30
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	10:45
TPA 32 / CD 10	WTP Pretreatment (PT) Facility; D-00A-13, -14, -15, -16, -19	Wahed Abdul / Dan McDonald	10:55
TPA 34 / CD 13	WTP High-Level Waste (HLW) Facility; D-00A-02, -03, -04, -21	Gary Olsen / Dan McDonald	11:05
TPA 35 / CD 15	WTP Low-Activity Waste (LAW) Facility; D-00A-07, -08, -09	Jeff Bruggeman / Dan McDonald	11:15
TPA 37 / CD 18	WTP Analytical Laboratory (LAB); D-00A-05	Jason Young / Dan McDonald	11:20
TPA 38 / CD 20	WTP Balance of Facilities (BOF); D-00A-12		11:25

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										
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 September 22, 2011. Meeting minutes for the July 29 and August 25, 2011 sessions have been signed by the parties and have been entered into the TPA administrative record.

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.

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 for meeting to status barrier monitoring, performance observations and any changes to monitoring as budget or results to date suggest.

Significant Past Accomplishments:

1. T-Farm interim barrier monitoring continued through September.
2. TY Interim Barrier monitoring continued through September.
3. Continued direct push characterization in C Farm at various planned locations and completed the angled direct push campaign beneath tank C-101
4. Completed direct push campaign in S farm in support of a potential future interim barrier.
5. 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.
6. Continued remediation technology assessments in support of a Corrective Measures Study for WMA C.
7. Electrical resistivity data was collected from surface and deep electrodes in eastern BY farm and analysis was completed.
8. Continued direct push campaign in S-farm in support of a future interim barrier.

Significant Planned Actions in the Next Six Months:

1. Complete direct push campaign near C-200 tanks in C Farm.
2. Complete reporting of 3-D SGE data analysis in eastern BY farm.
3. Perform additional updates to WMA C RFI/CMS workplan based on requested changes from Ecology.

Issues:

- FY2012 funding constraints may impact FY2012 scheduled work.

SST Retrieval and Closure Program

M-045-100, Submit as a primary document a Catch Tank "assumed leak response plan, Due: 12/27/10, Status: Complete. Transmitted from ORP to ECY via letter 10-TPD-176 on 12/28/10. 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. ECY provided notification that the plan had been approved and the milestone completed on September 26, 2011 via 11-NWP-110. ORP submitted a Motion and Order of Dismissal to the Pollution Control Hearings Board dismissing its appeal on September 29, 2011. The PCHB issued a Motion and Order of Dismissal on October 5, 2011. The milestone and NOV are officially closed out and removed from the issues.

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 September TPA managers meeting to October 31, 2011. Resolutions have been identified for all comments, awaiting concurrence from Ecology on closure language and verification that SST part A revisions are consistent with document. ORP requests extension until December 5th to facilitate verification of those outstanding actions.

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. ORP requests Ecology identify submittal date of WIR comments. ORP is processing submittal of final Tank Removal Study with approved Ecology RCRs, Response to Ecology comments on Catch Tank C-301 Feasibility Study and RCRA/CERCLA Integration deliverables prior to December 5th.

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. ORP and Ecology have established a meeting on November 1, 2011 to discuss Ecology comments. ORP has requested an extension until December 5 for disposition of comments.

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:

- The WMA-C PA is suspended based on limited funding becomes available to resume and finish the task supporting both RCRA/CERCLA/DOE 435.1 closure plans.

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 01-Oct-11																	
Activity ID	Activity Name	Orig Dur	Rem Dur	Current Start	Current Finish	Total Prod	Orig Dur Last Month	FY2011				FY2012				FY2013				FY2014				FY2015	
								FO1	FO2	FO3	FO4	FO1	FO2	FO3	FO4	FO1	FO2	FO3	FO4	FO1	FO2	FO3	FO4	FO1	FO2
HHA-3C007G1	C-107 Bulk Retrieval Operations (MARS) FY12	96	96	04-Nov-11	07-Feb-12	244	-6																		
HHA-3C007H1	C-107 Hard Heel Retrieval Evaluations and Readiness	42	42	08-Feb-12	06-Apr-12	170	-4																		
HHA-3C007M	C-107 Hard Heel Rmtl Operations	53	53	07-Apr-12	29-May-12	245	-4																		
5.02.02.06.08 C-108 Retrieval		473	66	01-Feb-10 A	09-Jan-12	399	-12																		
HHA-1C008K	C-108 Hard Heel Rmtl Installation	76	9	22-Feb-10 A	19-Oct-11	399	-18																		
HHA-1C008J	C-108 Hard Heel Rmtl Procurement	125	31	01-Feb-10 A	14-Nov-11	424	-29																		
HHA-1C008M	C-108 Hard Heel Rmtl Operations	57	57	14-Oct-11	09-Jan-12	399	-12																		
5.02.02.06.09 C-109 Retrieval		144	144	09-Jan-12	25-Jul-12	310	98																		
HHA-1C009JA	C-109 Hard Heel Rmtl Procurement FY12	60	60	03-Jan-12	27-Mar-12	354	-4																		
HHA-1C009HA	C-109 Hard Heel Rmtl Design & Engineering Support	43	43	01-Mar-12	30-Apr-12	320	66																		
HHA-1C009K	C-109 Hard Heel Rmtl Installation	43	43	01-Mar-12	30-Apr-12	320	2																		
HHA-1C009M	C-109 Hard Heel Rmtl Operations	40	40	30-May-12	25-Jul-12	310	38																		
5.02.02.06.10 C-110 Retrieval		291	291	03-Oct-11	28-Sep-12	304	-87																		
HHA-1C010K	C-110 Hard Heel Rmtl Installation	211	211	03-Oct-11	02-Aug-12	304	-87																		
HHA-1C010H1	C-110 Hard Heel Rmtl Engineering Support FY12	109	109	01-Mar-12	02-Aug-12	304	-118																		
HHA-1C010M	C-110 Hard Heel Rmtl Operations	40	40	03-Aug-12	28-Sep-12	304	-87																		
5.02.02.06.11 C-111 Retrieval		343	342	02-Nov-11	18-Mar-13	257	0																		
HHA-1C011R	C-111 Sample for HRR Decision	107	107	02-Nov-11	06-Apr-12	257	0																		
HHA-1C011H	C-111 Hard Heel Rmtl Design & Engineering Support FY12	122	122	09-Apr-12	28-Sep-12	257	73																		
HHA-1C011J	C-111 Hard Heel Rmtl Procurement FY12	82	82	05-Jun-12	28-Sep-12	257	43																		
HHA-1C011J1	C-111 Hard Heel Rmtl Procurement FY13	43	43	01-Oct-12	30-Nov-12	257																			
HHA-1C011K	C-111 Hard Heel Rmtl Installation	70	70	04-Oct-12	16-Jan-13	257	0																		
HHA-1C011M	C-111 Hard Heel Rmtl Operations	40	40	17-Jan-13	14-Mar-13	257	0																		
5.02.02.06.12 C-112 Retrieval		518	609	18-Feb-10 A	08-Oct-13	249	0																		
HHA-1C012E	C-112 Retrieval System Installation	144	17	03-Jan-11 A	25-Oct-11	320	-9																		
HHA-1C012B	C-112 Retrieval Design	126	27	18-Feb-10 A	08-Nov-11	340	-29																		
HHA-1C012F	C-112 Retrieval Startup and Readiness	57	65	11-Jul-11 A	06-Jan-12	302	-29																		
HHA-1C012G	C-112 Retrieval Operations (MS)	64	64	07-Jan-12	10-Mar-12	438	-47																		

■ Actual Work
 ■ Critical Remain Work
 ■ Remain Work
 ◆ Milestone
 ▬▬▬ Baseline Act
 ▬▬▬ Baseline Milestone

C-Farm Retrieval Critical Path
 Current Schedule
 September 2011

Page 3 of 4 TASK filters: 1 - C-Farm CP Exclude, C-Farm - Critical Path.

SLCS-CUR / OPER-CUR		C-Farm Critical Path by WBS						Data Date 01-Oct-11																	
Activity ID	Activity Name	Orig Dur	Plan Dur	Current Start	Current Finish	Total Float	Orig Estn Last	FY2011				FY2012				FY2013				FY2014				FY2015	
								PG1	PG2	PG3	PG4	PG1	PG2	PG3	PG4	PG1	PG2	PG3	PG4	PG1	PG2	PG3	PG4	PG1	PG2
HHA-10012R	C-112 Sample for HHR Decision FY12	84	84	01-Jun-12*	28-Sep-12	246	23																		
HHA-10012R1	C-112 Sample for HHR Decision FY12	23	23	01-Oct-12	31-Oct-12	246																			
HHA-10012J	C-112 Hard Heel Rmvl Procurement	125	125	03-Jan-13	28-Jun-13	246	0																		
HHA-10012H	C-112 Hard Heel Rmvl Design & Engineering Support	195	195	01-Nov-12	12-Aug-13	246	0																		
HHA-10012K	C-112 Hard Heel Rmvl Installation	70	70	03-May-13	12-Aug-13	246	0																		
HHA-10012M	C-112 Hard Heel Rmvl Operations	40	40	13-Aug-13	08-Oct-13	246	0																		
5.02.02.06.20 C-Farm Infrastructure DST Receiver Tan...		546	446	07-Dec-10 A	10-Jul-13	63	-148																		
HNA-2NFC0B	C-Farm Infrastructure DST Receiver Tank 4 Design	100	62	07-Dec-10 A	15-Dec-11	17	-29																		
HNA-2NFC0BA	C-Farm Infrastructure DST Receiver Tank 4 Design	20	20	16-Dec-11	17-Jan-12	17	-29																		
HNA-2NFC0C	C-Farm Infrastructure AN-101 Upgrades Procurement	80	80	27-Mar-12	18-Jul-12	18	25																		
HNA-2NFC0D	C-Farm Infrastructure AN-101 Upgrades - Construction	120	120	12-Apr-12	01-Oct-12	17	16																		
HNA-2NFC0E	C-Farm Infrastructure AN-101 Upgrades Startup/Readiness	64	64	31-Jul-12	29-Oct-12	17	26																		
HNA-2NFC0C5	C-Farm Infrastructure AN-105 HHTL Procurement	80	80	01-Oct-12*	25-Jun-13	68																			
HNA-2NFC0D3	C-Farm Infrastructure AN-105 HHTL Replacement	165	165	01-Oct-12*	28-May-13	63																			
HNA-2NFC0E1	C-Farm Infrastructure AN-105 HHTL Replacement Startup/Readiness	70	70	02-Apr-13	10-Jul-13	63																			

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

C-Farm Retrieval Critical Path
Current Schedule
September 2011

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TASK filters: 1 - C-Farm CP
Exclude, C-Farm - Critical Path.

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 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 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 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. (Letter 11-NWP-041)

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: At risk.

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. (Letter 11-NWP-077)

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 pending final appropriations.

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 pending final appropriations.

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:

- Specimens for the M-045-91D milestone have been tested for mechanical properties by CTL in Skokie, Illinois. Vendor test report has been prepared.
- Completed M-045-91G-T02, TYPE II AOR (RPP-RPT-49989), Ecology briefed of the results on 8/23/11, and the report was transmitted to Ecology on 9/15/11 by ORP letter 11-TPD-064.
- 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.
- Completed a draft of 241-TY/BY leak assessment report segment for the M-045-91F-T04 milestone.

Significant Planned Actions in the Next Six Months:

- Complete milestone M-045-91F-T03, plan to provide Ecology, Ionic Conductivity Feasibility Report in September 2011. Due: 5/31/2013.
- 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.

Issues:

- FY12 funding constraints have placed FY12 work supporting SST Integrity Assurance program in question.

In Tank Characterization and Summary

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

Accomplishments:

- Completed revision 0 of RPP-PLAN-50151, *Sampling and Analysis Plan for the 244-CR Vault Tanks*, on September 9.
- Completed revision 0 of RPP-PLAN-50310, *Tank 241-AN-106 Grab Sampling and Analysis Plan in Support of Corrosion Mitigation during Tank 241-C-107 Retrieval*, on September 23.
- Completed revision 3 of RPP-RPT-47795, *Water Activity Data Assessment to be Used in Hanford Waste Solubility Calculations*, on September 28
- Completed revision 1 of RPP-PLAN-49885, *Tank Sampling and Analysis Plan for 241-C-108 Hard Heel Dissolution*, on September 15.
- Completed revision 7 of RPP-26781, *Tank Farm Contractor Process Sampling Requirements for FY2012 through FY2015*, on September 29.
- Completed BBI updates for tanks 241-AP-101, 241-AP-104, 241-AP-105, 241-AY-101, 241-AY-102, and 241-SY-101.

Planned Action within the next Six Months:

- Tank Sampling
 - Tank 241-C-108 hard heel dissolution samples scheduled for October - November 2011.
 - Tank 204-AR-TK-1 compatibility samples scheduled for November 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-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-108 off riser sampling scheduled for January 2012.
 - Tank 241-AP-104 evaporator samples scheduled for March 2012.
 - Tank 241-C-107 off riser sampling scheduled for March 2012.
- BBI Updates
 - Ten tanks have been identified for updates in FY12 Quarter1.
- Data Quality Objectives (DQO)
 - Complete revision of the PCB Management DQO (RPP-7614) and the Compatibility DQO (HNF-SD-WM-DQO-001) in December 2011.
 - Complete revision of the Strategic Planning DQO (RPP-44057) in November 2011.

Issues:

None

TANK OPERATIONS CONTRACT (TOC) OVERVIEW

Project Performance

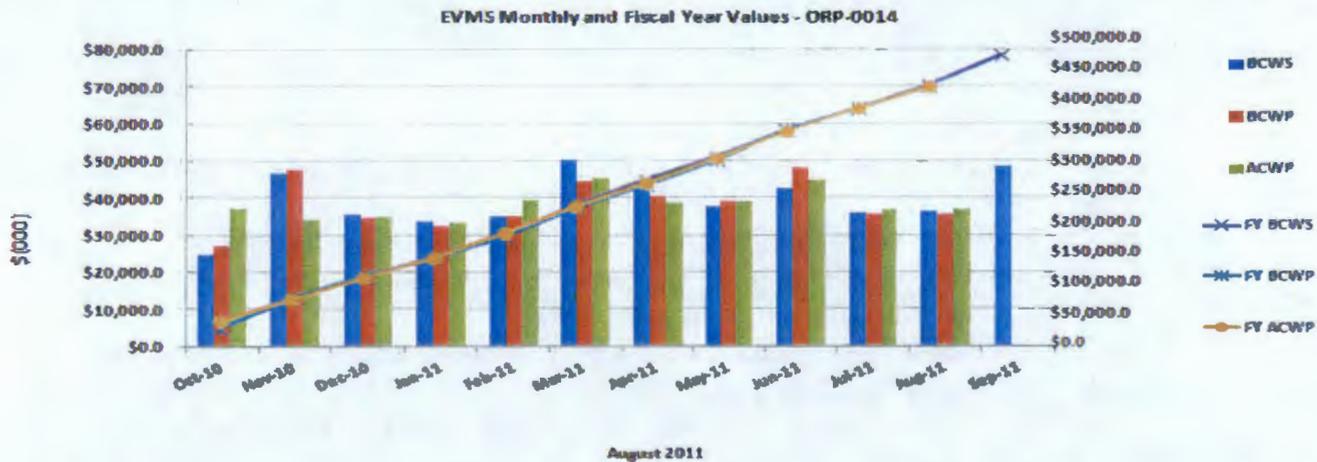
The earned value analysis is a comparison of cost and schedule contract-to-date performance. The earned value performance reporting reflects the format, Work Breakdown Structure (WBS) reporting levels, and variance thresholds as agreed to with the Tank Farms Operations Contractor (TOC) for monthly performance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

WRPS August Project Performance (\$k)

	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC
CM	36,109.5	35,353.3	32,384.3	(840.2)	2,969.0	0.98	1.09			
FYTD	420,733.9	418,477.6	415,015.6	(2,256.3)	2,562.0	0.99	1.01	468,539.6	468,270.7	268.9
CTD	1,180,789.5	1,171,711.3	1,108,098.5	(8,078.3)	69,672.7	0.99	1.01	2,107,738.9	2,048,590.4	59,148.5

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

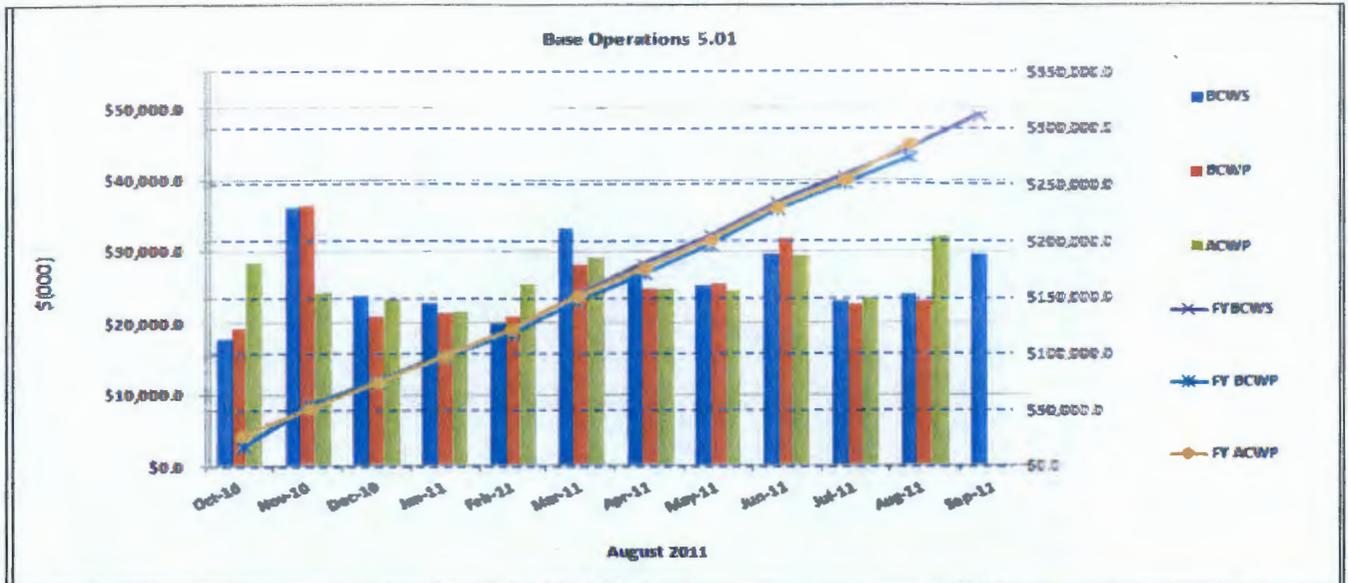
Current Month Significant Variance Contributors



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	\$36,193.5	\$35,353.3	\$36,839.3	0.98	0.96	\$420,960.1	\$418,477.5	\$420,370.7	0.99	1.00
Sep-11	\$48,559.2					\$469,519.3				
CTD	\$1,225,167.5	\$1,219,049.8	\$1,163,130.2	1.00	1.05					

- Effective through August 30, 2011 – The overall project performance is going very well; SPI is 1.00 with a CPI of 1.05; thus – ORP 0014 is on schedule and under budget.

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

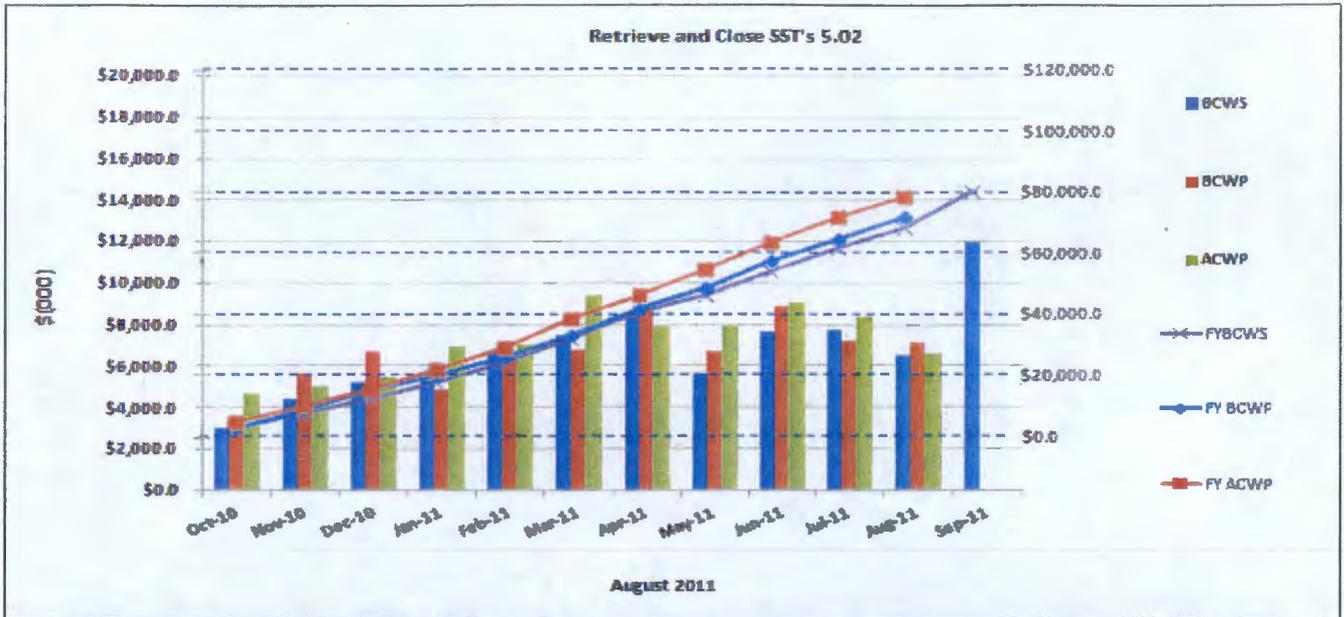


Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-10	\$17,777.2	\$19,285.1	\$28,549.6	1.08	0.68	\$17,777.2	\$19,285.1	\$28,549.6	1.08	0.68
Nov-10	\$36,143.1	\$36,366.3	\$24,452.2	1.01	1.49	\$53,920.3	\$55,651.4	\$53,001.8	1.03	1.05
Dec-10	\$23,775.6	\$20,995.7	\$23,448.8	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	\$24,131.4	\$23,132.4	\$31,992.7	0.96	0.72	\$283,012.8	\$275,193.3	\$286,939.7	0.97	0.96
Sep-11	\$29,554.9					\$312,567.7				

CTD	\$823,183.9	\$821,519.3	\$798,196.2	1.00	1.03
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- **242-A Evaporator Operation and Maintenance, (\$275k):** CM (SV) is behind schedule on the evaporator simulator, is driven by the type of earned value method activity code within P6 (0/100). The earned value method has been changed to percent complete, which will correct the SV next month.
- **RA-DST Valve Assembly Upgrades, (\$200k):** CM (SV) performance “give-back” on installation of replacement piping jumpers in the AN-A and AN-B valve pits (work completed early).
- **RPP [River Protection Project] System Plan, \$178k:** cost efficiencies due to less modeler and subject matter expert labor than planned resulting from performing the Hanford Tank Waste Operations Simulator work and system plan reporting activities in parallel, efficiencies gained through G2 training, and not fully staffing engineers due to FY 2012 budget constraints.
- **RA-Exhauster Upgrades, \$946k:** CM (SV) schedule recovery on installation and operational testing of the 242-A Evaporator exhauster upgrades, \$820k, and early start on installation of the manual flush valve, \$107k.

Office of River Protection (ORP-0014) Fiscal Year 2011 - Monthly EVM5

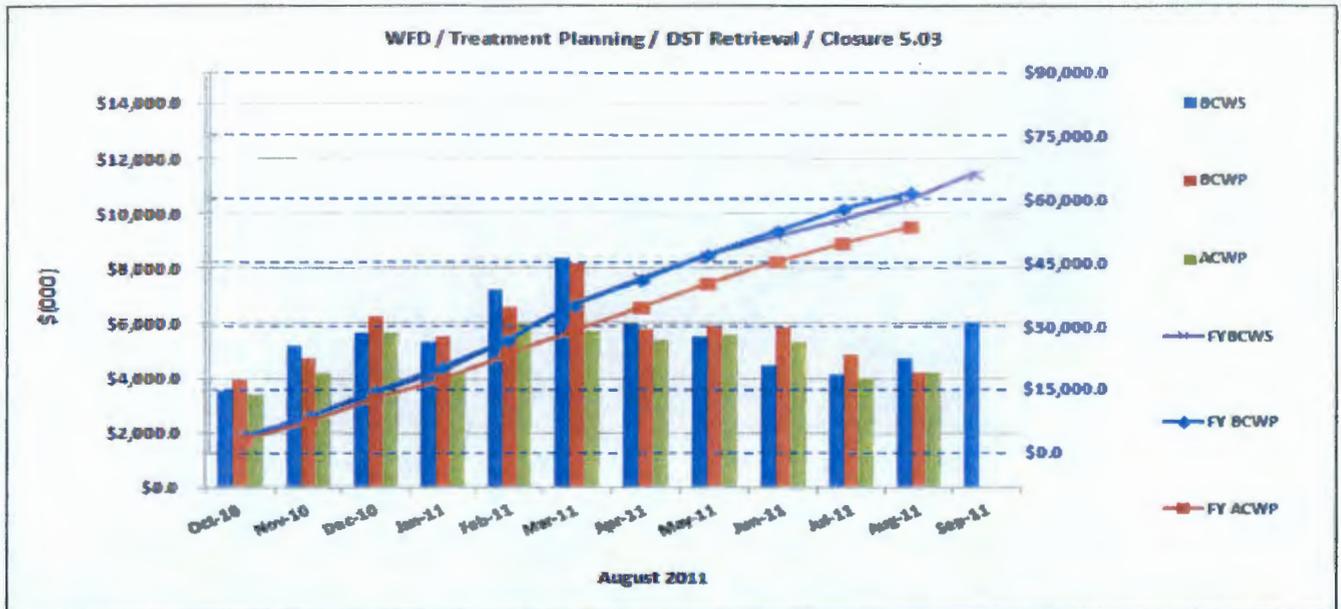


Earned Value Month	BCWS	BCVP	ACVP	SPI	CPI	FYBCWS	FY BCVP	FY ACVP	FY SPI	FY CPI
Oct-10	\$2,991.6	\$2,932.6	\$4,707.6	0.98	0.62	\$2,991.6	\$2,932.6	\$4,707.6	0.98	0.62
Nov-10	\$4,412.7	\$5,622.7	\$5,006.7	1.27	1.12	\$7,404.3	\$8,555.3	\$9,714.3	1.16	0.88
Dec-10	\$5,209.7	\$6,682.7	\$5,494.0	1.28	1.22	\$12,614.0	\$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	0.93	0.87	\$61,728.0	\$64,707.4	\$71,904.5	1.05	0.90
Aug-11	\$6,480.9	\$7,117.4	\$6,587.0	1.10	1.08	\$68,208.9	\$71,824.8	\$78,491.5	1.05	0.92
Sep-11	\$11,951.1					\$80,160.0				

CTD	\$239,346.8	\$235,302.2	\$231,825.8	0.98	1.01
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- C-112 Retrieval, (\$267k):** CM (SV) behind schedule on SST C-112 retrieval system installation, (\$181k), and startup and readiness, (\$174k), due to resource constraints (assigned to higher-priority work) and weather delays (heat). Unfavorable SV partially offset by schedule recovery on procurement, \$97k.
- C-107 Retrieval, (\$923k):** CM (CV) is driven by two root causes: (1) cost overruns for installation of the MARS related to unplanned repair of the constant tension hoist, adverse weather conditions, and wiring repairs during construction acceptance testing, (\$744k); and (2) cost overruns for fabrication and installation of the demister ductwork for the exhauster refurbishment, (\$299k).
- C-112 Retrieval, \$197k:** CM (CV) this CV is driven by three root causes: (1) fabrication and receipt of procured equipment including the Extended Reach Sluicer System where BCWP was taken but costs were not accrued pending quality acceptance (expect costs in September), \$141k, (2) efficiency in installation for removal of the R7 riser using less overtime than planned, \$169k, and (3) offsetting cost overrun for design and engineering,

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

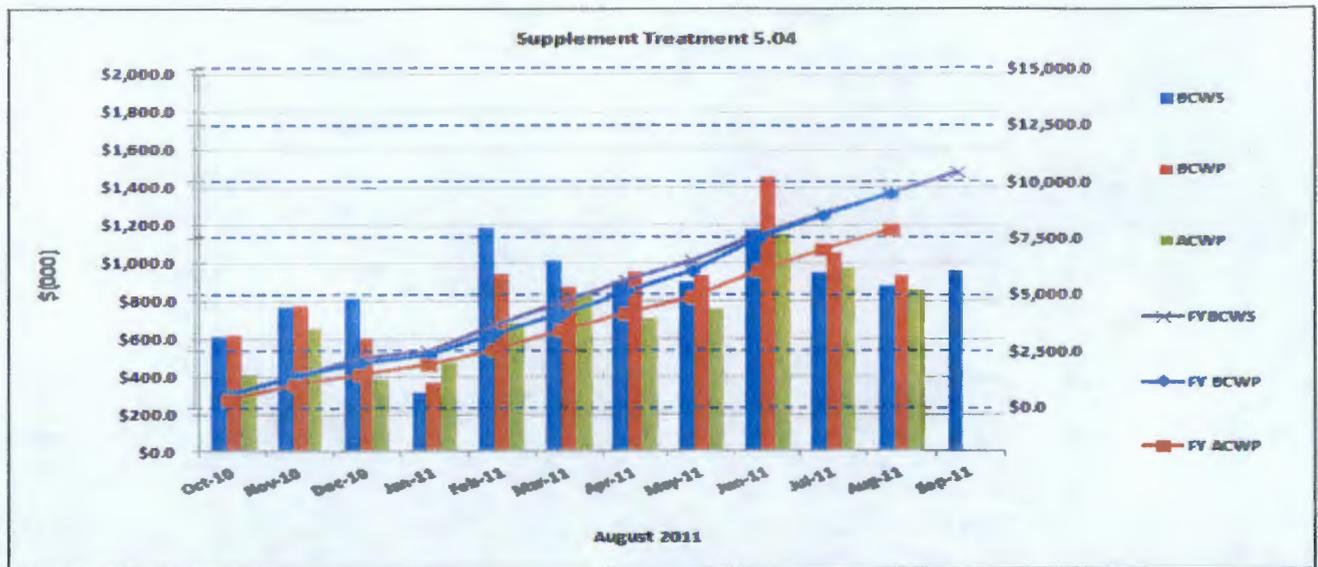


Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-10	\$3,540.0	\$3,944.3	\$3,413.8	1.11	1.16	\$3,540.0	\$3,944.3	\$3,413.8	1.11	1.16
Nov-10	\$5,203.6	\$4,748.8	\$4,184.7	0.91	1.13	\$8,743.6	\$8,693.1	\$7,598.5	0.99	1.14
Dec-10	\$5,677.1	\$6,277.7	\$5,689.4	1.11	1.10	\$14,420.7	\$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	\$4,173.4	\$4,181.9	0.89	1.00	\$60,234.8	\$61,957.5	\$53,786.0	1.03	1.15
Sep-11	\$6,091.6					\$66,326.4				

CTD	\$149,280.3	\$148,871.8	\$121,759.7	1.00	1.22
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- **RA-Exhauster Upgrades, \$946k:** CM (SV) schedule recovery on installation and operational testing of the 242-A Evaporator exhauster upgrades, \$820k, and early start on installation of the manual flush valve, \$107k.
- **RA-Electrical Upgrades, (\$735k):** CM (SV) related to SST and SY Farm electrical upgrades and is driven by four root causes:
 - Performance give-back for work completed earlier than planned (budget in the CM for work completed in previous months) in design and fabrication of the SY Farm POC, (\$550k),
 - Delays in completion of the SST electrical upgrades in the TX/TY Farms due to site priorities for release of design documentation, (\$170k),
 - Performance give-back for early procurement of waste boxes, (\$160k), and
 - Schedule recovery on the C Farm electrical upgrades, \$140k. Note that schedule recovery on this account is expected in September 2011 (next month).

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



Earned Value Month	BCWS	BCVP	ACVP	SPI	CPI	FYBCWS	FY BCVP	FY ACVP	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	\$1,935.2	\$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	\$1,013.3	\$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	\$930.1	\$850.5	1.06	1.09	\$9,503.1	\$9,502.1	\$7,885.8	1.00	1.20
Sep-11	\$961.7					\$10,464.8				

CTD	\$13,356.5	\$13,356.5	\$11,348.5	1.00	1.18
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- **WTP Pre-Treatment Alternative Studies, \$50k:** CM (CV) The FY-10 contract to date favorable cost variance is the result of realizing efficiencies in the initiation of development of the WTP Technology Development Baseline studies.
 - Two FY 2010 studies required further detailed analysis and evaluation of previously developed technologies, coupled with utilization of technologies demonstrated at SRNL, resulting in less labor usage to perform the research than normally required to initiate new studies.
 - The project is similarly realizing FY11 efficiencies by self performing technology evaluations, where appropriate, when there are appropriate expertise or subject matter experts available and by utilizing existing data for some of the studies, rather than subcontracting the effort. These steps have resulted in saving subcontract costs normally required to research and compile baseline data coupled with realizing fewer actual labor costs than budgeted rates resulting from newly hired junior engineering staff.
 - The FY-10 studies performed in the second quarter of FY10 were continuations or further refinements of the studies performed in the first quarter of FY10 and related to potential development and implementation of RMF, SCIX and FBSR for supplemental treatment. This included gathering information from SRNL where work on developing, testing and designing the RMF, SCIX and FBSR technologies was being performed and outlining potential path forward for Hanford.

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 has been initiated on the Interim Hanford Storage and Secondary Waste Treatment Projects.

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:

Continue 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:

- ORP and Ecology signed change package M-62-11-01 on 7/18/11, 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:

DOE/ORP completed the River Protection Project System Plan, Revision 6, contract review in September 2011. System Plan, Rev. 6 was approved by DOE/ORP and electronically released by WRPS on October 5, 2011.

Significant Planned Actions in the Next Six Months:

TPA milestone closure package/letter is being prepared to be transmitted to Ecology in time to meet the October 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, pretreat 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 has submitted the document to DOE and it has been reviewed. The report is ready for transmittal to Ecology and the transmittal letter is being drafted 10/17/11.

The WTP Project currently employs about 3,300 Full-Time Equivalent (FTE) contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel, including 1,300 craft, 570 non-manual, and about 205 subcontractor personnel FTEs working at the WTP construction site (all facilities). As of August 2011, the project is 61 percent complete, design and engineering is 83 percent complete, procurement is 64 percent complete, construction is 57 percent complete, and startup and commissioning is 13 percent complete.

The overall WTP Project schedule variance in August was a negative \$6.9M, the cost variance was a negative \$1.4M. The negative cost variance was due to Construction Piping and Engineering Design control accounts and the schedule variances came primarily from Plant Equipment.

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

Significant Past Accomplishments:

- Completed informational tests for the adequacy of Pulse Jet Mixers (PJM) mixing with various configurations to understand the impacts of these changes
- Mechanical systems design for the LAW facility is substantially complete.

Significant Planned Actions in the Next Six Months:

- Complete erection of 4th-tier structural steel (77ft to 98ft elevation).
- Perform Large Scale Integrated Testing (LSIT) in 4ft and 8ft 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 LAB Autosampler systems.
- LAB Construction Complete.
- 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 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. The PT Facility is 49 percent complete overall, with engineering design 79 percent complete, procurement 46 percent complete, and construction 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 56ft to 98ft elevations. Construction completions for September include placement of four 5th lift (77ft to 98ft elevation) walls (total of 427 CY), and placement of the sanitary sewer encasement for the Control Building (50 CY).

On-going work includes 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 Design (P&ID) and piping isometric drawings (issued 236). Issued re-committed design packages for the Radioactive Liquid Waste Disposal (RLD) and Steam Condensate Water (SCW) systems. Awards were made for the Resin and Aerosol Testing, and the High Efficiency Mist Eliminator (HEME). Bechtel National Inc., (BNI) report for TPA Milestone M-62-49 (due October 31, 2011) was completed and delivered to DOE on September 28, 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 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. A new Integrated Project team (IPT) has been formed to support the resolution of the vessel mixing issue, and installation of vessels in the plant.

Significant Planned Actions in the Next Six Months:

- Fabrication and delivery of initial hot cell equipment frames.
- Development of the PJM design and control strategy for resolving open issues with mixing and completion of vessel design.
- 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 Verification and Validation (V&V) of quantitative risk analysis for Hydrogen in Piping and Ancillary Vessels (HPAV).
- Install hot cell piping pulse jet ventilation header.
- Complete hazardous operations review for the Cesium Ion Exchange, Waste Feed Evaporator, and the HLW Lag Storage and Feed Blend Process systems.

- 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.

Issues:

- Vessel Critical Path: Fabrication of vessel HLP-22 continues to be the primary critical path for the PT Facility. Recently, a developing issue has prompted a redesign of PJM mounting hardware and a rework of the seismic analysis, which impacts critical path. BNI is applying focused management attention to meet the schedule.

HIGH-LEVEL WASTE (HLW) FACILITY

The High Level Waste (HLW) Facility will receive the separated HLW 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 55 percent complete overall, with engineering design 86 percent complete, procurement 70 percent complete, and construction 36 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 two of the twenty dampers installed and two staged. 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 are in the final stages of fabrication. With the completion of the C5V dampers, the same vendor will immediately begin fabrication of the Pulse Jet Ventilation (PJV) System and later the HLW Melter Offgas (HOP) System remote-operated dampers. The two south HOP HEPA housings will be the next units installed in mid-October. 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 333 cubic yards) were completed in September. The subcontractor has completed the roof and the insulated siding on the north face of the HLW Annex and is continuing the installation of siding of the west and south walls. It is expected the siding will be completed in November, a month ahead of plan. Electrical and piping commodities are progressing throughout the 21ft elevation and 0ft, 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) and fire protection piping, 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 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 66 percent complete, with engineering design 88 percent complete, procurement 85 percent complete, and construction 65 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. A major emphasis currently for engineering is the review of vendor calculations and interactions for procurement of Secondary Offgas/Vessel Vent Process (LVP) system components. For example, this month Bechtel National Inc., (BNI) Engineering issued several control logic diagrams and functional diagrams for the LAW Container Receipt Handling (LRH), Primary Offgas Process (LOP), and Melter Equipment Support Handling (LSH) systems. Piping isometric drawings were issued for the Plant Cooling Water (PCW) and Carbon Dioxide Gas (CDG) systems. The east transformer concrete foundation plan and details drawing was issued. The 208/120-volt electrical distribution panel block diagram, termination/cable schedule, and power supply panel schedule was issued for the Uninterruptible Power Electrical (UPE) system.

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 offgas treatment system components to be delivered will be the Carbon Bed Adsorber (CBA).

The primary areas of construction focus currently are facility partition wall installation and equipment installation for the Container Finishing Handling (LFH) system. Other normal construction activities this month included installation of pipe and pipe hangers, sprinklers, electrical panels and grounding, scheduled cable tray and conduit, hatches and hatch covers, instrument enclosures, and lighting fixtures. For example, installation was completed on a hatch for the Melter Equipment Support Handling (LSH) system; construction continued with installation of the fire alarm system, Low-Voltage Electrical (LVE) equipment, air-handling units, humidifiers for the C2V ventilation system, bogie recovery equipment for the Container Finishing Handling (LPH) system, cranes for the LSH system, and inert fill hoppers, 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)
- Container Receipt Handling (LRH)
- Melter Equipment Support Handling (LSH)
- Melter Process (LMP)
- Container Export Handling (LEH)
- Primary Offgas Process (LOP)
- Secondary Offgas/Vessel Vent Process (LVP)

Plant-installed-software (PISW) system design documents were issued for the LOP and LMP systems.

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 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 47 percent complete overall, with engineering design 78 percent complete, procurement 74 percent complete, and construction 66 percent complete.

Significant Past Accomplishments:

Efforts at the LAB are focused on the successful completion of the LAB Construction Complete Milestone in December 2012. Installation of partition walls is currently in progress and installation of the autosampling system continues.

As the LAB is being constructed progress continues to be made in how the LAB will function during operations, and what capabilities are required. To further this knowledge Savannah River National Laboratory (SRNL) proposed some potential streamlining opportunities from reviews performed during feed qualification studies. Currently the baseline analytical methods for waste pre-qualification are being established. Identification of existing methods for analyses required by the Waste Feed Acceptance Criteria (WAC) Data Quality Objectives (DQO) document is complete. The identified methods and gaps are being reviewed by SRNL staff for applicability and methods development needs. The LAB team provided Operations' input to the *Laboratory Development of LAW-PTF Feed Base Simulant for Cold Commissioning* document. Specifically requesting an additional Objective and Criteria be added establishing the stability of the simulant. This is important because of the extended period that the simulant may be stored while the total volume needed is prepared.

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 73 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 CY-2012, and numerous other facilities in 2013. This goal was progressed by commencing placement of the base slab for anhydrous ammonia storage and continued commodity installation in the Glass Former Storage Facility, Chiller Compressor Plant, and Diesel Fuel Oil facility. The framework and precedence for facility turnover will be established following completion of the Switchgear Building (B87). Meetings are being held bimonthly to facilitate an efficient completion, testing, and turnover plan.

Bechtel National Inc., (BNI) continues to work closely with the Emergency Turbine Generator (ETG) vendor. The first steps in the process, which clarify the contract scope and identify safety functions and age related failure mechanisms, have been completed. Over the next several months the BNI engineering team will continue working with the vendor to identify code, standard, and specification requirements.

The Defense Nuclear Facilities Safety Board (DNFSB) recently issued a letter concerning the hazards and controls associated with the anhydrous ammonia system. Responses to the Board's questions are currently being generated by BNI. The ammonia vessel and vaporizer skid are currently being manufactured and are scheduled to be on site before the end of December 2011.

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 August 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	955.2	630.2	66%	229.6	203.1	88%	235.0	199.6	85%	342.5	221.1	65%	148.1	6.4	4%
Analytical Lab	351.2	166.4	47%	55.0	43.0	78%	56.1	41.8	74%	104.9	69.5	66%	135.2	12.1	9%
Balance of Facilities	530.2	250.5	47%	84.3	61.2	73%	80.9	37.7	47%	229.0	141.6	62%	136.1	10.0	7%
High-Level Waste	1,488.6	820.8	55%	342.5	294.6	86%	454.5	317.5	70%	573.8	204.3	36%	117.8	4.4	4%
Pretreatment	2,495.0	1,233.4	49%	698.0	549.3	79%	715.7	332.2	46%	898.7	345.8	38%	182.6	6.0	3%
Shared Services	4,747.0	3,317.4	70%	1,052.2	895.9	85%	467.7	365.6	78%	1,421.6	1,046.7	74%	455.8	116.8	26%
Total WTP w/o UB	10,567.2	6,418.9	61%	2,461.6	2,047.2	83%	2,009.8	1,294.3	64%	3,570.5	2,029.1	57%	1,175.6	155.8	13%
Undistributed Budget	0.0	n/a	n/a	n/a	n/a	n/a									
Total WTP	10,567.2	6,418.9	61%	2,461.6	2,047.2	83%	2,009.8	1,294.3	64%	3,570.5	2,029.1	57%	1,175.6	155.8	13%

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