

**Office of River Protection
Tri-Party Agreement Milestone Review
Meeting Minutes
November 20, 2014**

Approval: *E.R. Skinnarland* Date: 12/24/14
J.A. Hedges *for J.A. Hedges*
 Ecology IAMIT Representative

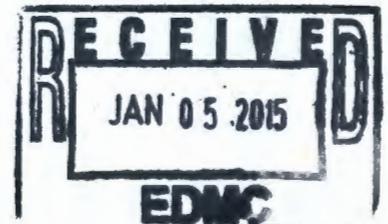
Approval: *T.W. Fletcher* Date: 12/22/14
T.W. Fletcher
 DOE IAMIT Representative

Approval: *D.A. Faulk* Date: 1-5-15
D.A. Faulk *for D.A. Faulk*
 EPA IAMIT Representative

Minutes Prepared by: *J.G. Woolard* Date: 12/18/14
J.G. Woolard
 Mission Support Alliance

Abdul, W.	ORP	Hendrickson, M.L.	Ecology	Noyes, D.L.*	ORP
Allen, R. M.	WRPS	Higgins, K.L.	ORP	Pfaff, S.H.	ORP
Alzheimer, J.*	Ecology	Hildebrand, R.D.	RL	Piippo, R.E.*	MSA
Barnes, M.W.	Ecology	Huffman, L.A.	ORP	Price, J.B.*	Ecology
Beam, T. G.	WRPS	Jensen, D.	ORP	Robertson, J. R.	Freestone
Bohnee, G.	NPT	Jim, R.	Yakama	Shattuck, A.F.	MSA
Braswell, S.M.	MSA	Joyner, J. A.	ORP	Skinnarland, E.R.	Ecology
Brown, M.J.	Ecology	Johnson, J.M.*	ORP	Smith, D.M.*	ORP
Bruggeman, J. M.	ORP	Kemp, C.J.*	ORP	Stubblebine, S.D.	ORP
Butler, D. H.	MSA	Koll, R.J.	ORP	Trimberger, B.R.*	ORP
Caggiano, J.A.	Ecology	Knight, D.P.	ORP	Trenchard, G.D.	ORP
Cimon, S.*	ODE	Knox, K.E.*	KCR	Uziemblo, N.H.	Ecology
Dahl, S.L.	Ecology	Lobos, R A.*	EPA	Vanni, J.	Yakama
Diediker, J.A.	ORP	Luke, J.J.	WRPS	Vanljen, R	Ecology
Donnelly J.W.	WRPS	Lynch, J.J.	ORP	Whalen, C.L.	Ecology
Dowell, J.A.	ORP	Lyon, J.J.*	Ecology	Wilson, M. B.	MSA
Eberlein, S.J.	WRPS	Mathey, J. W.	Ecology	Woolard, J.G.	MSA
Einan, D.R.	EPA	Mattlin, E.M.	ORP	Wrzesinski, W. R*	ORP
Faulk, D.A.	EPA	Marlin, B.	ORP	Young, J. D.	ORP
Fletcher, T.W.*	ORP	Mauss, B.M.	ORP	Administrative Record	
Gent, P. M.	Ecology	McDonald, D.*	Ecology		
Grindstaff, J.F.	ORP	McLain, J. A.	WRPS		
Harrington, C.C.	ORP	Menard, N. M.	Ecology		
Harris, S.	CTUIR	Nazarali, A.	CTUIR		
Hedges, J.*	Ecology	Niles, K.	OOE		

*Attendees



**Office of River Protection
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Administrative Items/Milestone Status

ORP stated that there have been no new action items for tank farms during the past couple of months, and noted that the updates to the actions are highlighted in blue on the agreements, issues and action items table (see handout). ORP introduced the representative for the 242-A Evaporator, who has been assigned to a 90-day detail for the evaporator. The new ORP representative for the 242-A Evaporator will communicate with Ecology staff regarding action No. 1, TF-14-08-01. ORP referred to the milestones in the TPA monthly summary report, and noted that milestone M-062-40D, submit System Plan 7, was completed on October 31, 2014.

System Plan; M-62-40

ORP reported that there were two items to address. ORP stated that during a biweekly meeting within the last month, a question was asked about why the format of System Plan 7 had changed. ORP stated that the format had not changed, but some of the information contained in System Plan 6 was removed (chapters 2&3). ORP added that when it conducted the final review of System Plan 7, it was determined that the information did not need to be carried over into System Plan 7. ORP noted that the background information that was not carried over into System Plan 7 could be reviewed in System Plan 6.

ORP stated that the second item was in regard to ORP changing the 250,000 gallon size of the tank, which was inaccurate. ORP noted that a request was made in the October 2013 time frame to change the size from 500,000 gallons to 250,000 gallons, and WRPS made the change. ORP added that the change was included in the assumption set, and the assumptions were approved by Ecology. ORP stated that WRPS has meeting notes documenting the change in tank size and to the assumption list. ORP indicated that there was some time since the change request for the tank size was made, and that ORP and Ecology will address the issue. ORP noted that Section 4 of System Plan 7 is comprised of Ecology's scenarios, and ORP was advised by the Department of Justice (DOJ) that it could not be involved in any way with Section 4. The Oregon Department of Energy (ODOE) requested a copy of System Plan 7. ORP noted that System Plan 7 will be uploaded into official documents under Hanford.gov.

Acquisition of New Facilities; M-90-00, M-47-00

ORP stated that there were no changes to report under milestone M-090-13 for the Interim Hanford Storage Project, or M-047-07 for Secondary Liquid Waste Treatment, other than the transition of the Effluent Treatment Facility (ETF) from DOE-RL to ORP.

Supplemental Treatment/Part B Permit Applications; M-62-00, -20, -30, -45

ORP stated that there were no changes to report for Supplemental Treatment or the Part B Permit applications.

242-A Evaporator Status

ORP reported that the February 2015 evaporator campaign will be shifting out, due to a hold on the transfers to AW-102. ORP stated that the schedule is based on the transfers to AW-102, and a start date was not available at this point. ORP noted that it is still planning on four campaigns in FY15. ORP provided a status on the technical safety requirement (TSR) violations that occurred almost two weeks ago. ORP stated that when retrieval was started the initial temperature reading was below specification and it was not recognized at the time. A second reading of the temperatures was taken the following morning, and all the temperatures meet the specifications. It wasn't until the next round of temperatures were taken that it was recognized there had been an out-of-specification temperature. ORP stated that another TSR violation occurred when valves were cracked open during verification of the double-valve position while the evaporator was operating. Based on the two TSR violations, WRPS claimed a recurring operational event and stopped transfers. The operating engineers, as well as some of the field staff, are now going through oral boards to verify their qualifications. ORP indicated that the transfers will likely start up during the first or second week of December 2014.

ORP reported that the AZ-102 (liquid transfer pump) and AW-106 pumps failed, and the process is under way to procure and replace both pumps. Ecology stated that it has a standing request for a report on the evaporator maintenance protocols, parts, and long-lead items. Ecology added that the purpose of the request is to provide a better idea that the evaporator will not continue to be a choke point. ORP responded that the evaporator is not the choke point right now, and the two pumps that failed are 10 to 11 years old. ORP stated that a holistic look at the critical spare parts is being done across the tank farms in an effort to understand the single-point risks and to mitigate those risks. ORP noted that as budgets get tight

and efforts are focused on meeting regulatory and environmental requirements, the infrastructure upgrades and spare parts program are impacted. ORP indicated that a plan was recently completed that identifies how infrastructure will be prioritized going forward, and a copy will be provided to Ecology.

Double-Shell Tank System Update

ORP noted that the issue with the two failed pumps was reported under the 242-A Evaporator status. ORP reported that the ultrasonic testing (UT) was completed in AP-102, and portions of the secondary liner are being scanned, based on recommendations from the expert panel that was brought in after issues were identified with AY-102. ORP stated that the first step will now be to place the crawler on the floor of the secondary liner and scan the secondary liner. ORP noted that when the crawler was placed on the floor of the secondary liner in AP-102 and the liner was scanned, a couple of areas were identified that had significant wall thinning. ORP indicated that the areas weren't very big. ORP stated that about 20 percent of the entire secondary liner was scanned through two risers. A couple areas with ~ 70% thinning were identified below one of the risers. ORP stated that there are no immediate integrity issues with the secondary liner in AP-102, but the identified areas will be closely watched. ORP added that scanning of the secondary liners in all the double-shell tanks will be conducted when entry is made into a tank for UT.

ORP stated that the electro magnet acoustic transducer (EMAT) performance demonstration was completed. It is anticipated that the EMAT won't require the level of cleaning that the current UT devices require, which will allow the EMAT to screen more of the wall at a faster pace. The plan is to place the EMAT in AP-102 this year.

ORP stated that inspections continue on the three waste accumulation sites in AY-102, and no significant changes have been observed. ORP indicated there were no transfers in October. ORP reported that the AY-102 contingency plan was submitted to Ecology, and Ecology has indicated that comments will be forthcoming. ORP has committed to provide Ecology a hard copy of the current critical path schedule for the AY-102 recovery at the next interface meeting for retrievals in two weeks. ORP added that it will walk through the details of the AY-102 schedule during the meeting.

ORP reported that a significant activity was initiated this week; the kickoff meeting for the next DST Independent Qualified Registered Professional Engineer (IQRPE) assessment. An engineering firm has been contracted to conduct the assessment that is to be completed in the March 2016 time frame.

SST Integrity Assurance; M-45-91

ORP stated that all of the milestones and target milestones are on schedule. ORP noted that the report to complete M-045-91F-T04 was recently submitted to Ecology, which summarizes the SST leak causes, locations and rates. ORP noted that the summary report involved an extensive effort that was started several years ago. ORP stated that the test report for the A-106 core has been completed and will be submitted to Ecology, meeting the M-045-91B-T01 milestone. ORP noted that discussions with Ecology will need to be initiated regarding milestone M-045-91H to determine whether additional milestones are needed under the M-045-91 series. The Type 1 analysis of record was recently compiled and will be transmitted to Ecology to meet milestone M-045-91B-T01.

In Tank Characterization and Summary

ORP stated that there were no items that needed to be specifically addressed. ORP noted that a meeting will be scheduled with Ecology and WRPS to discuss the C-112 retrieval data report (RDR) sampling.

Tank Operations Contract (TOC) Overview

ORP stated that the overall TOC current month schedule variance of \$3 million was mostly driven by C-111. ORP added that the major drivers for the fiscal year-to-date and contract year-to-date schedule variances were associated with C Farm retrievals, with C-105, C-102 and C-111 slipping out, as well as the delays to the 242-A Evaporator campaign. ORP noted that the vapor issue in C Farm and the resulting safety protocols that were put in place, including utilizing masks, have delayed some productivity in the field over the last quarter. ORP stated that the main contributor to the schedule variance under base operations was the delay with the 242-A Evaporator campaigns.

ORP reported on the contributors to the unfavorable cost and schedule variances under retrieve and close SSTs. ORP stated that the C-105 retrieval was stopped for two reasons: a plugged slurry distributor at receiver tank AN-106, and a systems engineering evaluation that was conducted in an effort to achieve greater retrieval of C-105 using high pressure water, along with other alternatives which include potentially sluicing the tank. ORP stated that retrieval in C-102 was scheduled to restart last week, and the goal is to start C-102 by the first or second week of December 2014. ORP noted that a status on the temperature TSR for C-102 was provided under the status for the 242-A Evaporator.

ORP stated that preparations are under way for work in AX Farm, and the leak assessments for AX-102 and AX-104 were completed, along with completion of all the AX dry well logging. ORP indicated that there were no significant items to discuss under waste feed delivery or supplemental treatment.

Single-Shell Tank Corrective Action; Milestone M-45, -50, -60

ORP reported that the target milestones for the contaminant removal demonstration at SX Farm and the characterization work at TX Farm and U Farm were completed. ORP noted that milestones M-045-61 and M-045-62 are still being worked, and the RCRA Facility Investigation (RFI) will be submitted by the end of December 2014 for M-045-61. ORP noted that M-045-62 is still being reported as to be missed, and that ORP has an action regarding the Corrective Measures Study (action No. 7, TF-13-02-03). Ecology noted that it sent ORP an email regarding an action from the last Inter-Agency Management Integration Team (IAMIT) meeting to follow up on milestones 61/62/82. Ecology stated that it will re-send the email and follow up later today regarding ORP's action. ORP stated that WRPS was provided contract direction in October for the A, AX, and IDF performance assessment and noted the kickoff meeting was held two days ago.

M-45-00 Series:

SST Retrieval and Closure Program TPA:

Significant Past Accomplishments – ORP reported that the RDR sampling for C-107 has been completed.

Significant Planned Activities in the Next 6 Months – ORP stated that RDR sampling is planned for C-112 during December 2014, followed by C-101 in January 2015.

ORP stated that a path forward for post retrieval logging at C-107 is being developed, and that post retrieval logging for C-101 needs to be scheduled.

Tank Waste Retrieval Work Plan (TWRWP) Status - ORP stated that there were no changes to the TWRWPs.

Tank in Appendix H. Status - Single Shell Waste Retrieval Criteria – There were no changes in status to report.

Tank Retrievals with Individual Milestones – There were no changes to report.

SST Retrieval and Closure CD Milestones and TWRWP Status; D-00B Series:

D-00B-01 – ORP stated that notification has gone out to the state of Washington and the state of Oregon that C Farm tanks C-102, C-105 and C-111 are at serious risk to missing the milestone, and there was no change in status.

Significant Past Accomplishments - ORP noted that since the CD summary report was prepared, there was a change in status for C-102 regarding the TSR violation that was discussed earlier today (see 242-A Evaporator status). Retrieval in C-102 is now planned to start up in the first or second week of December 2014. ORP reported that the plugged slurry distributor in AN-106 is in the extended position, and the distributor needs to be flushed out and then removed. ORP noted that the work is achievable, but is considered high risk work that needs to be done very carefully.

ORP reported that some coupons have been taken from the Teflon hydraulic lines on the sluicers in C-111, and the coupons are in the laboratory. ORP stated that visual observations and analysis are anticipated by the second week in December 2014. ORP noted that it had reviewed the analysis report on the hydraulic line coupons, and the report will be sent to Ecology.

Ecology inquired about the status of the modifications to the vacuum retrieval system in C-105. ORP responded that when the plugged slurry distributor is replaced in AN-106, retrieval will start up using high pressure water. ORP stated that it is considering a potential third retrieval technology that is a variation of confined sluicing, but the decision would be based on the results from the vacuum retrieval with supernatant and high pressure water. ORP noted that discussions with Ecology would be needed regarding a decision on a third retrieval technology. Ecology asked if the suction screen on the vacuum system will be modified. ORP stated that there has been discussion about taking off the screen or putting in a larger diameter screen, but at this point the plan is to keep the existing screen size and see if the high pressure water affects the screen. ORP added that if that doesn't work and there is still plugging on the screen, the Mobile Arm Retrieval System (MARS) arm could be brought into the maintenance mode to install a different size screen that is larger. Ecology asked if the different screen size was a planned modification at this time. ORP responded that the plan is to use the high pressure water and see if the screen stays clear. ORP stated that part of the issue is that the vacuum being created is working so well that it's bringing up liquids containing larger particle size solids that plug the screen. ORP noted that C-105 has larger particle sizes than other tanks, and the gravel and rocks in the bottom of other tanks appear to be more homogenous within the waste in C-105.

ORP stated that one of the key elements that WRPS has taken from the systems and engineering evaluation is to assess the different approaches to retrieval in an effort to be successful with C-105. ORP added that simultaneously, the effort is focused

on ensuring the retrieval technology is viable and will perform as planned. ORP noted that the plan is to see how high pressure water works with the existing system prior to taking any steps. Ecology inquired about the status of the systems engineering evaluation. ORP responded that the report has not been completed, and a copy will be shared with Ecology when it is finalized.

Ecology inquired about the status of documents 12711 and 9937. ORP responded that a draft of 9937 will be shared with Ecology after Consent Decree issues are clarified by the attorneys.

Ecology noted that there is a standing request for an integrated flow sheet and integrated schedules associated with One System and the mechanism for tying tank farms to the waste treatment plant (WTP) and back to tank farms. Ecology asked about an update on the One System. ORP responded that a draft integrated schedule has been prepared for the Direct Feed Low Activity Waste (DFLAW) program. ORP stated that it is a rough draft of a schedule to integrate the DFLAW program, specifically a flow sheet. ORP indicated that the flow sheet associated with DFLAW is expected to be completed by the end of March 2015, and it will be shared with Ecology as soon as possible. ORP referred to action No. 2 (TF-14-08-01) on the action log to set up discussions with Ecology on DFLAW, and suggested setting up a time to meet with Ecology's team. Ecology noted that one of the points of discussion will be about all of the infrastructure and ancillary equipment. ORP responded that all of the infrastructure needs are identified in the level 1 schedule and flow sheet. ORP added that a current task is under way to ensure there is a pathway for all of the waste coming from the DFLAW process to avoid a staging issue or a 90-day storage issue.

ORP stated that the lawyers have been informed that Ecology needs to be brought into the process regarding permitting and the direction of DFLAW, and the goal is to start those conversations with Ecology by mid-December 2014. ORP noted that there have been informal discussions with Ecology and the Department of Health regarding permitting.

TWRWP Status - The TWRWP status is the same table that is in the TPA monthly summary report.

**WTP Overall TPA and CD Summary and Milestone Status; M-62-01;
M-62-49; D-00A-01, -06, -17
Waste Treatment and Immobilization Plant (WTP) Project**

ORP noted that there were six new actions generated from the October 23, 2014 project managers meeting, and the latest updates are highlighted in blue on the agreements, issues and action items table.

ORP reported that it is continuing to hire new engineering staff, and there are currently about 650 engineers, an increase of about 200 from a year ago. The plan is to have about 900 to 950 engineering staff within the next three to four months. The craft field work in terms of manpower is not ramping up at this time and is holding fairly steady. ORP stated that LAW, BOF and LAB (LBL) are continuing to move forward. High Level Waste (HLW) has been authorized to move forward with all of the engineering activities, but there are limitations in the areas of procurement and construction where there are issues.

Significant Past Accomplishments – ORP reported that full-scale testing associated with the Pretreatment (PT) facility using the RLD-8 vessel is under way at the eight-foot test facility. ORP noted that all the repairs have been completed for RLD vessels 163, 164 and 165 in LAB, and the vessels have been certified and all the nozzles are hooked back up. ORP stated that the gap analysis between the Safety Design Strategy (SDS) and the current Preliminary Documented Safety Analysis (PDSA) for HLW was completed. Ecology asked if ORP would characterize the gap analysis as small, medium or large. ORP responded that a more detailed discussion could be held with Ecology later, and the scope is about defining and prioritizing the safety basis amendments to realign the SDS with the PDSA.

Significant Planned Actions in the Next 6 Months – ORP noted that Phase 1 of the pulse jet mixing (PJM) control system testing is currently under way. The Phase 2 testing will be the NQA work in the four-foot platform to provide information to finalize consideration of a unified design for vessels in PT. Phase 2 will also be testing the PJM control system aspects in the full-scale test facility. ORP noted that Phase 3 will consist of procuring and testing a prototypical vessel to demonstrate performance. ORP stated that the LAW facility design and operability review report drafts are being finalized and are expected to be submitted by the contractor to ORP next month. ORP stated that complete construction of LAB is still on schedule for early 2015, and it will comprise the civil construction. ORP noted that there is a lot of analytical equipment in LAB that will be installed and tested at a later time, and that equipment is not part of completing construction of LAB. ORP noted that construction completion of the glass former is another objective for the next 6 months.

ORP reported that fiscal year 2014 was completed, spending about \$633 million, with about \$513 million in A through D (HLW and LBL), and about \$119 million in E. ORP stated that the carryover from FY14 into FY15 was about \$304 million, which is key to ramp-up. ORP noted that the current budget is on a continuing resolution, and the carryover is also key to increasing the current spending rate. Ecology asked if all the carryover is applied to A through D. ORP responded that the carryover is split between A through D of about \$183 million and about \$120

million in E. ORP noted that A-D and E are the two control points, and the funds are locked in and can't be passed back and forth between the control points.

WTP Pretreatment (PT) Facility; D-00A-13, -14, -15, -16, -19

ORP stated that the focus in PT continues to be technical issue resolution. ORP noted that one of the major activities is the full-scale vessel testing. ORP stated that another major activity associated with the eight technical issues T1 through T8 is the development of three major products in the near term, including a high-level plan and a schedule for each technical issue to reach closure, and a startup evaluation plan for resumption of engineering in PT, similar to what was done for HLW. Ecology asked when the high-level schedules for T1 through T8 would be available and if they could be shared. ORP responded that the schedules were targeted to be completed about a month ago, and they are now expected to be issued within the next two months. ORP indicated that when the schedules are issued they would be available to Ecology.

ORP reported that the filter testing at Mississippi State University (MSU) is going well, and three different filters have been procured. ORP noted that the filter testing is associated with PT and HLW, and the LBL existing filter design meets all the requirements for those facilities.

ORP noted that the two-year work plans for PT and HLW were updated for FY15 and FY16. ORP stated that the strategy for the SDS is being developed, similar to what was done for HLW.

WTP High-Level Waste (HLW) Facility; D-00A-02, -03, -04, -21

ORP reported that construction is continuing in HLW with concrete placements and installation of structural steel and crane rails. ORP stated that based on the operability reviews for HLW, all limitations have been removed on production engineering, and engineering is moving forward at full release. ORP added that there are controls in areas associated with technical issues in terms of procurement and installation from an engineering perspective. ORP noted that HLW is working to the updated two-year work plan for FY15 and FY16. ORP stated that the focus in HLW is the radioactive RLD system redesign and aligning the SDS with the PDSA. ORP noted that specific exemptions to holds were requested and granted, which allows the RLD vessel design in a very limited area.

Significant Planned Actions in the Next 6 Months – ORP stated that assembly/fabrication of the automatic sampling system gloveboxes will be completed and work will continue on the single-point failure mode analysis.. Ecology expressed interest in receiving the analysis when it is completed. ORP took note of Ecology's request.

WTP Low-Activity Waste (LAW) Facility; D-00A-07, -08, -09

ORP stated that areas of focus in LAW are piping testing, electrical installation, and placing the refractory in melters 1 and 2. OPR noted 1,000' of conduit was installed, 13,000' of cable was pulled, and 230' of pipe was installed and hydrotested.

Significant Planned Actions in the Next 6 Months – ORP noted that work in the annex, refractory installation in the melters, and the LAW design operability review will be completed. ORP noted that the purchase order for the gas analyzers has been a difficult procurement activity, and several staff have been on site to monitor the procurement. Ecology inquired about the status of a briefing on replacing a melter if one of the melters goes down. ORP noted that Ecology's inquiry is on the action item table, and stated that a response will be provided.

WTP Balance of Facilities (BOF); D-00A-12

ORP stated that one of the main efforts in BOF is the commercial grade dedication of the emergency turbine generator. Another area of focus is completing the glass former facility.

WTP Analytical Laboratory (LAB); D-00A-05

ORP stated that the LAB is nearing construction completion early in the calendar year. ORP noted that one of the critical items of interest to Ecology was the RLD vessel repairs for vessels 163, 164 and 165, which have been completed and retested. Ecology inquired about scheduling a meeting to close on RLD vessels 163, 164 and 165. ORP stated that the point of contact will be notified of Ecology's request. ORP noted that Ecology's request is a formal action item that was established during the October 2014 project managers meeting (No. 3, WTP-14-10-03). ORP stated that it will review all the action items and contact Ecology to set up meeting times.

Tri-Party Agreement Quarterly Milestone Review

11-20-14

<u>Name</u>	<u>Organization</u>
<u>ROB PIIBRO</u>	<u>MSA TPA</u>
<u>Shelby Simon</u>	<u>DOE</u>
<u>Kathy Knox</u>	<u>Knox Court Reporting</u>
<u>Bryan Trimberger</u>	<u>DOE - ORP</u>
<u>Tom Kerker</u>	<u>DOE - ORP</u>
<u>Jane Hedgys</u>	<u>Ecology</u>
<u>Rod Lobos</u>	<u>EPA</u>
<u>Wendell Wrzozinski</u>	<u>DOE - ORP</u>
<u>Dan McDonald</u>	<u>Ecology</u>
<u>Jim Alzheimer</u>	<u>Ecology</u>
<u>Jeremy Johnson</u>	<u>ORP</u>
<u>Chris Kemp</u>	<u>DOE - ORP</u>
<u>Debrisha Smith</u>	<u>DOE - ORP</u>
<u>Jeff Lyon</u>	<u>Ecology</u>
<u>Delmy Noye</u>	<u>DOE - ORP</u>
<u>John Price</u>	<u>Ecology</u>
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Agenda
November 20, 2014
Office of River Protection Quarterly Milestone Review Meeting
 Ecology Offices, Conference Room 3A/B
Chairperson: Tom Fletcher

Topic	Leads	Time
Administrative Items / Milestone Status	Bryan Trimberger / Dan McDonald / Jeff Lyon	8:30
System Plan; M-62-40	Dabrisha Smith / Jeff Lyon / Dan McDonald	8:35
Acquisition of New Facilities; M-90-00; M-47-00	Janet Diediker / Jeff Lyon / Dan McDonald	8:40
Supplemental Treatment and Part B Permit Applications; M-62-00, -20, -30, -45	Steve Pfaff / Jeff Lyon / Dan McDonald	8:45
242-A Evaporator Status	Ron Koll / Jeff Lyon	8:50
SST Integrity Assurance; M-45-91	Jeremy Johnson / Jeff Lyon	8:55
In Tank Characterization and Summary	Billie Mauss / Michael Barnes	9:00
Tank Operations Contract (TOC) Overview	ORP Project Leads / Jeff Lyon	9:05
Single-Shell Tank Corrective Action; M-45, -50, -60	Chris Kemp / Jeff Lyon	9:10
Single-Shell Retrieval and Closure Program TPA Milestones Status; M-45-00 series, - Tank in Appendix H Status - Tanks with Individual Milestones SST Retrieval and Closure CD Milestones and TWRWP Status; D-00B series	Chris Kemp / Jeff Lyon	9:15
WTP Overall TPA and CD Summary and Milestones Status; M-62-01; M-62-49; D-00A-01, -06, -17	³⁷⁶⁻⁵¹⁶⁶ Delmar Noyes / Dan McDonald ⁴³⁸⁻⁰⁴⁵⁹	9:20
WTP Pretreatment (PT) Facility; D-00A-13, -14, -15, -16, -19	Delmar Noyes / Dan McDonald	
WTP High-Level Waste (HLW) Facility; D-00A-02, -03, -04, -21	Delmar Noyes / Dan McDonald	
WTP Low-Activity Waste (LAW) Facility; D-00A-07, -08, -09	Delmar Noyes / Dan McDonald	
WTP Analytical Laboratory (LAB); D-00A-05	Delmar Noyes / Dan McDonald	
WTP Balance of Facilities (BOF); D-00A-12		10:00

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – November 2014

Agreements:

1. ORP will continue to meet with ECY to discuss funding and work priorities per TPA Paragraphs 148/149 process.
2. Per an ECY standing request, ORP agrees to include any written directives given by DOE to the contractors for work required by the CD in future Semi-Annual CD Reports (see CD Section IV-C-1-e, page 8).
3. The ORP and ECY PMs have developed, signed, and entered an outline for the CD Tank Completion Certification into the TPA Administrative Record. Senior management will continue to be briefed if any follow-on actions arise.

Issues:

1. Ecology has a concern with WTP data being reported exclusively in the CD Monthly Summary Report as the current CD reporting process does not allot ECY early review time of the CD Monthly Summary Report. ORP and ECY have raised this concern for discussion at the Senior Management levels.
2. AY-102 Primary Tank Leak: Tank 241-AY-102 (AY-102) is an approximate one million gallon underground double-shell tank (DST) containing mixed radioactive and hazardous waste located in the 241-AY Tank Farm (AY Farm). In August 2012, a leak to the annulus was detected. DOE submitted a pumping plan & revised pumping plan to Ecology, both of which were rejected. On March 21, 2014, Ecology issued Administrative Order Docket #10156 against DOE and WRPS alleging violations of 40 CFR 265.196 and identifying 14 action items that DOE/WRPS must comply with including the pumping of AY-102. On April 18, 2014, DOE and WRPS filed Notices of Appeal and Motions to Stay the Administrative Order with the Washington State Pollution Control Hearings Board (PCHB). A Prehearing Conference was held on May 8, 2014. The legal issues of the case were identified and a case schedule has been set based upon a hearing date in October 2014. DOE and Ecology reached a Settlement Agreement (PCHB No. 14-041c) for AY-102 on October 2, 2014 resulting in a safe and mutually agreed-upon path forward for the removal of waste from AY-102.
3. T-111 and Other Single Shell Tank Level Decreases: ORP and WRPS have determined that 19 of the 20 single shell tanks showing decreased liquid levels at the Hanford Site are not actively leaking. Evaluation documents are available online at: <http://www.hanford.gov/page.cfm/SingleShellTankEvaluations>

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – November 2014

Tank Farms Action Items							
#	Action ID	Start Date	Action	Action Status	Updates / Needs for Closure	Actionee(s)	Date Closed
1	TF-14-08-01	08/21/14	ECY requested information on the evaporator maintenance protocols and the depth and breadth of the maintenance spares.	Open.		Koll	
2	TF-14-08-01	08/21/14	ORP took an action to set up discussions with Ecology on DFLAW and the WTP TOC integrated readiness support starting in October 2014.	Open.		Pfaff / Wrzesinski	
3	TF-14-06-02	06/19/14	Schedule an oversight opportunity with ORP and ECY for the WMA C PA modeling	Open.	Meetings held on 09/11/14 and 10/30/14. Next meeting tentatively scheduled for the first week of December.	Kemp / Beach	
4	TF-14-02-02	02/18/14	ECY would like a schedule/project management plan (if available) for the closure of WMA C.	Open.		Kemp	
5	TF-14-01-01	01/28/14	ORP, ECY, and WRPS are working to complete revisions on the Hose-In-Hose Transfer Line Management Plan (RPP-12711) Revision 7.	Open.	Meeting with ORP, ECY, and WRPS was held on 11/17/14. The next full meeting will be in early January 2015.	Lynch / Mathey / Fox	
6	TF-13-12-01	12/19/13	ECY will provide a list of team members and their roles and responsibilities to ORP so that ORP can provide all applicable invitees to future meetings.	Open.		Lyon / McDonald	
7	TF-13-02-03	02/21/13	ECY and ORP will continue to meet at the project manager level to discuss work on the WMA C PA and other options for M-045-61/-62/-82.	Open.	ORP and ECY signed TPA Change Package M-45-14-03 separating M-045-61 into two milestones, one for the RFI, one for the CMS.	Kemp / Eberlein / Price	

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – November 2014

WTP Action Items							
#	Action ID	Start Date	Action	Action Status	Updates / Needs for Closure	Actionee(s)	Date Closed
1	WTP-14-10-01	10/23/14	ECY requests information on DOE's plans and timeline for the LAW (replacement) melter assembly building.	Open.		Jeff Bruggeman	
2	WTP-14-10-02	10/23/14	ECY would like to know what the plans are for operating BOF in support of DFLAW and then transitioning into full WTP operations.	Open.	Jason will address via scheduled briefing of ECY	Jason Young	
3	WTP-14-10-03	10/23/14	ECY and ORP need to discuss how to document LAB substantially complete milestone after completion of RLD vessel repairs.	Open.	Jason will meet with ECY to discuss any additional information that is requested	Jason Young	
4	WTP-14-10-04	10/23/14	ECY requests a status update to include a schedule on the 8 technical team issues for HLW and PT.	Open.		Wahed Abdul	
5	WTP-14-10-05	10/23/14	ECY requests on update on the details of the 2 year work plan for HLW and PT.	Open.		Wahed Abdul	
6	WTP-14-10-06	10/23/14	ECY requests a status update on the DF LAW Program and flow sheet integration.	Open.		Wendell Wrzesinski	
7	WTP-14-06-02	06/19/14	ECY requests that DOE provide a presentation on how DOE incorporates, vets, and considers all technical issues (including the Safety Design Strategy).	Open.		Delmar Noyes	
8	WTP-14-06-03	06/19/14	ECY requests a briefing on the LAW design operability review before the September timeframe.	Open.		Jeff Bruggeman	
9	WTP-14-04-01	04/22/14	ORP and ECY have a placeholder action to hold a comprehensive briefing/discussion on the PT efforts.	Open.		Delmar Noyes	

FINAL

**Office of River Protection
Consent Decree 08-5085-FVS**

Monthly Summary Report

November 2014

Office of River Protection**Consent Decree 08-5085-FVS
Monthly Summary Report****November 2014 (Monthly Summary Report/Project Earned Value Management System
reflects September 2014 information)**

Page	Topic	Leads
3	CD Milestone Statistics/Status	Bryan Trimberger/Dan McDonald/Jeff Lyon
4	Single-Shell Tank Retrieval Program • D-00B-01, D-00B-02, D-00B-03, D-00B-04	Chris Kemp/Jeff Lyon
5	Tank Waste Retrieval Work Plan Status • Consent Decree Appendix C	Chris Kemp/Jeff Lyon
6	Single-Shell Tank Retrieval Monthly and Fiscal Year Earned Value Management System Data	Chris Kemp/Jeff Lyon
8	Waste Treatment and Immobilization Plant Project • D-00A-06, D-00A-17, D-00A-01	Delmar Noyes/Dan McDonald
11	Pretreatment Facility • D-00A-18, D-00A-19, D-00A-13, D-00A-14, D-00A-15, D-00A-16	Wahed Abdul/Dan McDonald
14	High-Level Waste Facility • D-00A-20, D-00A-21, D-00A-02, D-00A-03	Wahed Abdul/Dan McDonald
17	Low-Activity Waste Facility • D-00A-07, D-00A-08, D-00A-09	Jeff Bruggeman/Dan McDonald
19	Balance of Facilities • D-00A-12	Jason Young/Dan McDonald
21	Analytical Laboratory • D-00A-005	

CD Milestone Statistics/Status

Milestone	Title	Due Date	Completion Date	Status
Fiscal Year 2014				
D-00B-01	Complete Retrieval of Tank Waste from 10 SSTs in WMA-C	09/30/2014		Ongoing*
D-00B-02	Advise Ecology of the 9 SSTs Waste Will be Retrieved by 2022	09/30/2014	08/24/2011	Completed
Fiscal Year 2015				
D-00A-07	LAW Facility Construction Substantially Complete	12/31/2014		Ongoing*
D-00A-19	Complete elevation 98 feet Concrete Floor Slab Placements in PT Facility	12/31/2014		Ongoing*

* DOE has notified the State of Washington and State of Oregon that a serious risk has arisen that DOE may be unable to meet this Consent Decree milestone.

DOE = U.S. Department of Energy.
 Ecology = Washington State Department of Ecology.
 LAW = Low-Activity Waste.

PT = Pretreatment.
 SST = single-shell tank.
 WMA-C = C-Farm Waste Management Area.

Consent Decree Reports/Reviews

D-00C-01 series, Submit to State of Washington and State of Oregon Semi-Annual Report, Due: Semiannually – January 31 and July 31 of each year, Status: Ongoing. The July 2014 Semiannual Report was issued on July 31, 2014, via U.S. Department of Energy (DOE), Office of River Protection Letter 14-ECD-0040.

D-00C-02 series, Submit to State of Washington and State of Oregon Monthly Summary Reports, Due: End of each month, Status: Ongoing.

D-006-00-A, Meet Approximately Every Three Years after Entry of Decree to review requirements of the Consent Decree, Held: December 10, 2013, Status: Completed.

D-006-00-A1, Provide State of Oregon notice of meetings in D-006-00-A, etc. no less than 30 days before they are scheduled, Sent: November 8, 2013, Status: Completed.

Single-Shell Tank Retrieval Program

Milestone	Title	Due Date	Status
D-00B-01	Complete Retrieval of Tank Wastes from 10 Remaining SSTs in WMA-C	September 30, 2014	Ongoing*
D-00B-01A through D-00B-01J	Submit Tank Retrieval Complete Certification	One year following each retrieved tank retrieval completion report ^a	Ongoing
D-00B-02	Advise Ecology of the Nine SSTs from which Waste Will Be Retrieved by 2022	September 30, 2014	Completed
D-00B-03	Initiate Startup of Retrieval in At Least 5 of 9 SSTs in D-00B-02	December 31, 2017	Ongoing
D-00B-04	Complete Retrieval of Tank Wastes from the nine SSTs in D-00B-02	September 30, 2022	Ongoing
D-00B-04A through D-00B-04I	Submit Tank Retrieval Complete Certification	TBD	TBD

- a. Pursuant to Section IV-B-5 of the Consent Decree, U.S. Department of Energy (DOE) must submit to the Washington State Department of Ecology (Ecology) a written certification that DOE has completed retrieval of a tank in accordance with the requirements of Appendix C, Part 1, of the Consent Decree. Completed for Single-Shell Tank (SST) C-104 on March 21, 2013, via DOE Office of River Protection (ORP) letter 13-TF-0018. Completed for SST C-108 on May 1, 2013, via ORP letter 13-TF-0025. Completed for SST C-109 on June 4, 2013, via ORP letter 13-TF-0037. Completed for SST C-110 on January 29, 2014, via ORP letter 14-TF-0007. Completed for SST C-107 on September 30, 2014, via ORP letter 14-TF-0114. Completed for SST C-112 on September 30, 2014, via ORP letter 14-TF-0115.

TBD = to be determined.
WMA-C = C-Farm Waste Management Area.

Significant Past Accomplishments:

- C-102 installed new replacement sluicer in Riser 7, sluicing expected to restart the week of November 10, 2014.
- Procured and planned work packages for the replacement of the plugged slurry distributor at AN-106.
- Finished the evaluation of C-111 enhanced reach sluicer failure, and started fabrication of new hydraulic line hose materials into two replacement sluicers.

Significant Planned Activities in the Next 6 Months:

- Complete retrieval of C-102 using modified sluicing
- Finish a C-105 Systems Engineering Evaluation of the current retrieval method; will potentially need a revised Tank Waste Retrieval Work Plan
- Continue retrieval of C-105 using Mobile Arm Retrieval System – Vacuum
- Begin startup of hard heel retrieval in C-111 using high-pressure water, with caustic/water dissolution available.

Issues:

* DOE has notified the State of Washington and State of Oregon that a serious risk has arisen that DOE may be unable to meet this Consent Decree milestone.

Tank Waste Retrieval Work Plan Status

Tank	TWRWP	Expected Revisions	First Retrieval Technology	Second Technology	Third Technology
C-101	RPP-22520, Rev. 8	Complete	Modified Sluicing with ERSS	High-Pressure Water deployed with the ERSS	-
C-102	RPP-22393, Rev. 7	In Process	Modified Sluicing with ERSS	High-Pressure Water deployed with the ERSS	-
C-104	RPP-22393, Rev. 7	Complete	Modified Sluicing	Chemical Retrieval Process complete per 13-TF-0018	-
C-105	RPP-22520, Rev. 8	Complete	MARS-V	MARS-V-High Pressure Water Spray	-
C-107	RPP-22393, Rev. 7	Complete	MARS-S	MARS-S-High Pressure Water Spray	Water Dissolution
C-108	RPP-22393, Rev. 7	Complete	Modified Sluicing	Chemical Retrieval Process complete per 13-TF-0025	-
C-109	RPP-21895, Rev. 5	Complete	Modified Sluicing	Chemical Retrieval Process complete per 13-TF-0037	-
C-110	RPP-33116, Rev. 3	Complete	Modified Sluicing	Mechanical Waste Conditioning with an In-Tank Vehicle	High Pressure Water
C-111	RPP-37739, Rev. 2	Complete	Modified Sluicing	High pressure water using the ERSS	Chemical Dissolution Process with ERSS
C-112	RPP-22393, Rev. 7	Complete	Modified Sluicing	Chemical Retrieval Process	-

ERSS = Extended Reach Sluicing System.
MARS = Mobile Arm Retrieval System.
S = sluicing.
TWRWP = Tank Waste Retrieval Work Plan.
V = vacuum.

Significant Accomplishments:

None.

Significant Planned Activities in the Next 6 Months:

None.

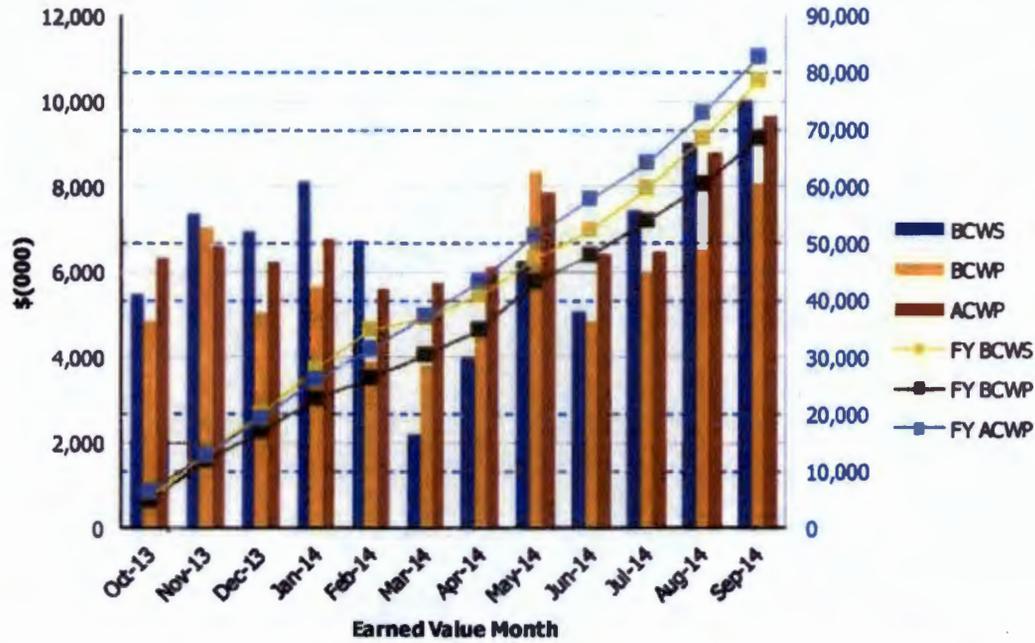
Issues:

None.

Single-Shell Tank Retrieval Monthly and Fiscal Year Earned Value Management System Data

Tank Farms ORP-0014
Retrieve and Close SST's 5.02

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$5,483	\$4,823	\$6,336	0.88	0.76	\$5,483	\$4,823	\$6,336	0.88	0.76
Nov 2013	\$7,366	\$7,054	\$6,609	0.96	1.07	\$12,849	\$11,876	\$12,945	0.92	0.92
Dec 2013	\$6,970	\$5,002	\$6,231	0.72	0.80	\$19,820	\$16,878	\$19,176	0.85	0.88
Jan 2014	\$8,102	\$5,661	\$6,765	0.70	0.84	\$27,922	\$22,539	\$25,941	0.81	0.87
Feb 2014	\$6,726	\$3,914	\$5,602	0.58	0.70	\$34,647	\$26,453	\$31,543	0.76	0.84
Mar 2014	\$2,201	\$3,805	\$5,729	1.73	0.66	\$36,849	\$30,258	\$37,273	0.82	0.81
Apr 2014	\$4,000	\$4,558	\$6,079	1.14	0.75	\$40,848	\$34,816	\$43,352	0.85	0.80
May 2014	\$6,255	\$8,331	\$7,855	1.33	1.06	\$47,103	\$43,146	\$51,207	0.92	0.84
Jun 2014	\$5,055	\$4,826	\$6,413	0.95	0.75	\$52,158	\$47,972	\$57,621	0.92	0.83
Jul 2014	\$7,437	\$5,954	\$6,461	0.80	0.92	\$59,595	\$53,926	\$64,082	0.90	0.84
Aug 2014	\$9,039	\$6,563	\$8,792	0.73	0.75	\$68,634	\$60,489	\$72,874	0.88	0.83
Sep 2014	\$10,026	\$8,089	\$9,631	0.81	0.84	\$78,660	\$68,578	\$82,504	0.87	0.83
CTD	\$505,499	\$495,418	\$509,343	0.98	0.97					

Retrieve and Close Single-Shell Tanks

The current month unfavorable schedule variance (SV) of **(\$1,937K)** is due to:

- Nonperformance of single-shell tank (SST) C-105 retrieval activities due to plugged slurry distributor; operational crews were reallocated to readiness and training tasks due to ineffectiveness of the retrieval system
- Nonperformance of SST C-102 retrieval activities due to failed Extended Reach Sluicer System
- Early receipt of equipment at C Farm.

The current month unfavorable cost variance (CV) of **(\$1,542K)** is due to:

- Nonperformance of SST C-105 retrieval activities due to the plugged slurry distributor in receiver Tank AN-106. Corrective action: Slurry distributor to be replaced mid-November.
- Early completion of retrieval activities at SST C-107.
- Early completion of replacement of the extended reach sluicer at SST C-102.

Waste Treatment and Immobilization Plant Project

Number	Title	Due Date	Status
D-00A-06	Complete Methods Validations	12/31/2017	Ongoing*
D-00A-17	Hot Start of Waste Treatment Plant	12/31/2019	Ongoing*
D-00A-01	Achieve Initial Plant Operations for WTP	12/31/2022	Ongoing*

WTP = Waste Treatment and Immobilization Plant.

The Waste Treatment and Immobilization Plant (WTP) Project currently employs approximately 2,553 full-time equivalent contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel. This includes 632 craft, 384 nonmanual, and 175 subcontractor full-time equivalent personnel working at the WTP construction site (all facilities).

As of September 2014, the combined Low-Activity Waste (LAW) Facility, Analytical Laboratory (LAB), and Balance of Facilities (BOF) (collectively LBL) were 71 percent complete, design and engineering was 84 percent complete, procurement was 86 percent complete, construction was 83 percent complete, and startup and commissioning was 17 percent complete.

In September 2012, the baseline change proposal that implemented the LBL replan was incorporated into the project over-target baseline, resulting in increases/decreases to the LBL facility budgets, which correspondingly increased/decreased the facility/function to-date percent-complete values. In October 2012, the Pretreatment (PT) and High-Level Waste (HLW) Facilities 2-Year Interim Work Plan was incorporated into the project over-target baseline and the percent-complete values for PT and HLW Facilities were frozen at the September 2012 rate. The WTP Project continues to progress in accordance with the LBL replan and PT/HLW 2-Year Interim Work Plan.

In September 2014, the cumulative to-date WTP Project schedule variance was a negative \$187.1 million, and the cumulative to-date WTP Project cost variance was a negative \$8.8 million. The major contribution to the cumulative to-date cost and schedule variance is based on the progress of the LBL replan and PT/HLW 2-Year Interim Work Plan.

The following is the project status through the end of September 2014.

Significant Past Accomplishments:

- Installed the four pulse jet mixer (PJM) array at the 8 foot test facility (PT)
- Completed the gap analysis to identify misalignments with the current Preliminary Documented Safety Analysis (PDSA) and identified safety analyses necessary to incorporate the safety design strategy (SDS) into the PDSA (HLW)
- Completed installation of secondary steel members to seismic braces in the Breathing Service Air System room (LAW)
- Completed heat trace and insulation on the Chiller Compressor Building process service water and domestic (potable) water system piping (BOF)
- Completed pipe closure welds and pipe support post installation vessel repairs (LAB).

Significant Planned Actions in the Next 6 Months:

- Complete modification at Full-Scale Vessel Testing (FSVT) Facility to support Phase 2 testing for the PJM controls (PT)
- DOE approval of PT Resumption Plan to support DOE authorization to proceed with production engineering (PT)
- Complete the LAW Facility design and operability review (LAW)
- Complete construction of the Analytical Laboratory (LAB)
- Complete construction of the Glass Former Storage Facility (BOF).

Issues:

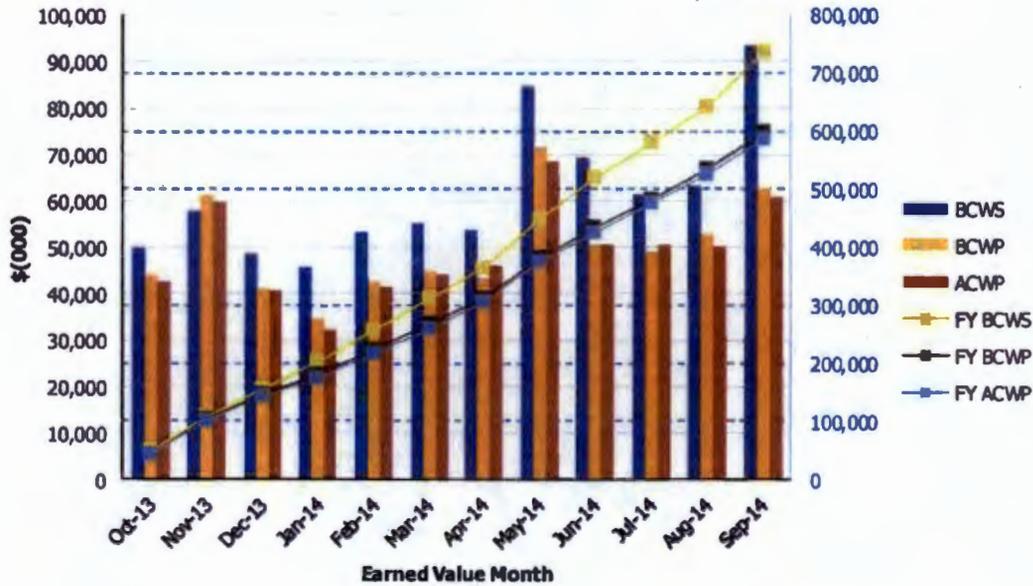
*DOE has notified the State of Washington and State of Oregon that a serious risk has arisen that DOE may be unable to meet this Consent Decree milestone. Technical issues related to WTP include, among others, PJMs, corrosion/erosion in piping and vessels, hydrogen accumulation, criticality, and ventilation.

Data Set: FY 2014 Earned Value Data

Data as of: September 2014

**River Protection Project
Waste Treatment Plant (WTP) Project**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$49,959	\$43,981	\$42,448	0.88	1.04	\$49,959	\$43,981	\$42,448	0.88	1.04
Nov 2013	\$58,047	\$61,276	\$59,935	1.06	1.02	\$108,006	\$105,257	\$102,383	0.97	1.03
Dec 2013	\$48,739	\$41,149	\$40,881	0.84	1.01	\$156,745	\$146,406	\$143,264	0.93	1.02
Jan 2014	\$45,633	\$34,448	\$32,185	0.75	1.07	\$202,378	\$180,854	\$175,449	0.89	1.03
Feb 2014	\$53,315	\$42,491	\$41,349	0.80	1.03	\$255,693	\$223,345	\$216,798	0.87	1.03
Mar 2014	\$55,327	\$44,937	\$44,053	0.81	1.02	\$311,020	\$268,282	\$260,851	0.86	1.03
Apr 2014	\$53,695	\$43,232	\$46,086	0.81	0.94	\$364,715	\$311,514	\$306,937	0.85	1.01
May 2014	\$84,691	\$71,474	\$68,633	0.84	1.04	\$449,406	\$382,988	\$375,570	0.85	1.02
Jun 2014	\$69,440	\$50,571	\$50,680	0.73	1.00	\$518,846	\$433,559	\$426,250	0.84	1.02
Jul 2014	\$61,232	\$49,176	\$50,487	0.80	0.97	\$580,078	\$482,735	\$476,737	0.83	1.01
Aug 2014	\$63,198	\$52,764	\$50,376	0.83	1.05	\$643,276	\$535,499	\$527,113	0.83	1.02
Sep 2014	\$93,517	\$62,939	\$61,084	0.67	1.03	\$736,793	\$598,438	\$588,197	0.81	1.02
PTD	\$8,527,006	\$8,339,912	\$8,348,807	0.98	1.00					

Pretreatment Facility

Number	Title	Due Date	Status
D-00A-19	Complete Elevation 98' Concrete Floor Slab in PT Facility	12/31/2014	Ongoing*
D-00A-13	Complete Installation of Pretreatment Feed Separation Vessels	12/31/2015	Ongoing*
D-00A-14	PT Facility Construction Substantially Complete	12/31/2017	Ongoing*
D-00A-15	Start PT Facility Cold Commissioning	12/31/2018	Ongoing*
D-00A-16	PT Facility Hot Commissioning Complete	12/31/2019	Ongoing*

PT = pretreatment.

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. As of September 2012, the PT Facility was 56 percent complete overall, with engineering design 85 percent complete, procurement 56 percent complete, construction 43 percent complete, and startup and commissioning 3 percent complete. Construction, procurement, and production engineering activities remain on hold, resulting in no change to the percent-complete status since September 2012. BNI and DOE continue to focus on resolving technical issues, performing hazard analyses, and completing safety evaluations for process systems in accordance with the PT/HLW 2-Year Interim Work Plan.

Phase 1 of the FSVT is continuing for the PJM controls utilizing the RLD-8T vessel. Technical review teams continue to evaluate open PT Facility technical issues. An evaluation is ongoing relative to a standardized design for high-solids vessels within the PT Facility. BNI has submitted resolution plans for eight technical issues, which are undergoing DOE review. The eight technical issues are the T1, Hydrogen in Vessels; T2, Criticality; T3, HPAV; T4, Mixing; T5, Erosion Corrosion; T6, PTF Optimization; T7, Vessel Analysis; and T8, Ventilation.

BNI has implemented fiscal year (FY) 2015–FY 2016 two-year work plan. BNI has transmitted the Pretreatment SDS Plan to DOE for review.

Significant Past Accomplishments:

- DOE received the Pretreatment SDS Plan for review
- Installed the four PJM array at the 8 foot test facility
- Continued testing of PJM controls at the FSVT Facility
- DOE issued contract modification 334 to better define scope related to the FSVT Facility
- Continued conceptual design for a standardized high-solids vessel.

Significant Planned Actions in the Next 6 Months:

- DOE approval of the Pretreatment Resumption Plan to support the authorization to proceed with production engineering
- Complete modification at FSVT Facility to support Phase 2 testing for the PJM controls
- Finalize technical team strategic plans (T1, T4, and T8 are remaining of the eight plans)

- Finalize test plan, simulant composition, and test instrument list for full-scale vessel mixing tests
- Define standardized vessel selection criteria in support of vessel mixing resolution
- Start informational testing in 8-ft test vessel for down selection of features pertaining to standardized high-solids vessel design.

Issues:

*DOE has notified the State of Washington and State of Oregon that a serious risk has arisen that DOE may be unable to meet this Consent Decree milestone. Technical issues related to WTP include, among others, PJMs, corrosion/erosion in piping and vessels, hydrogen accumulation, criticality, and ventilation.

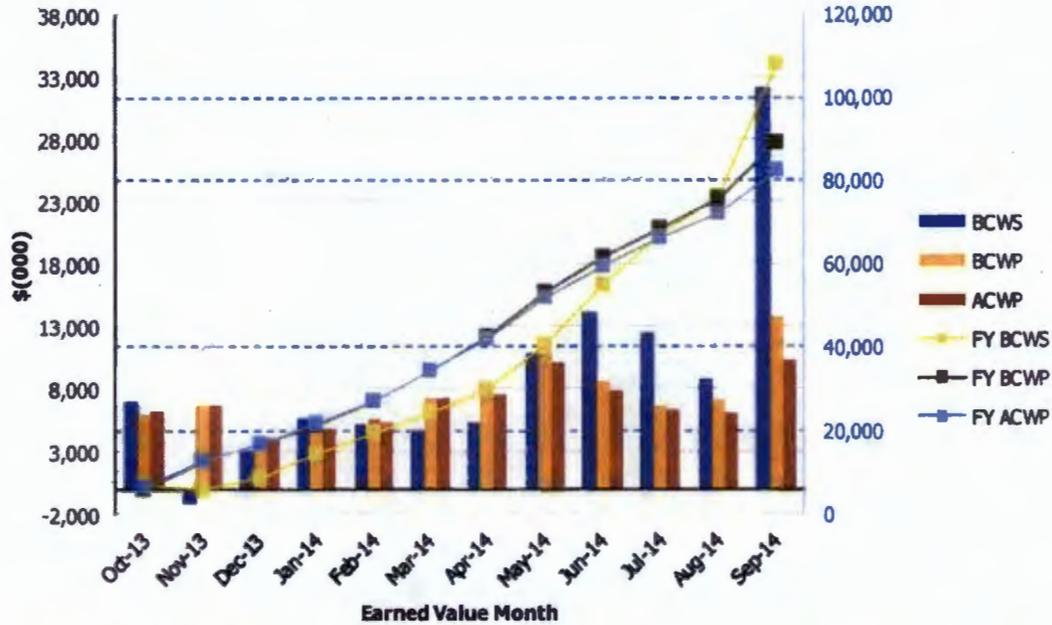
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2014 Earned Value Data

Data as of: September 2014

**River Protection Project
Pretreatment Facility**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$6,954	\$5,927	\$6,224	0.85	0.95	\$6,954	\$5,927	\$6,224	0.85	0.95
Nov 2013	(\$1,213)	\$6,673	\$6,646	-5.50	1.00	\$5,741	\$12,600	\$12,870	2.19	0.98
Dec 2013	\$3,109	\$3,957	\$4,053	1.27	0.98	\$8,850	\$16,557	\$16,923	1.87	0.98
Jan 2014	\$5,616	\$4,856	\$4,809	0.86	1.01	\$14,466	\$21,413	\$21,732	1.48	0.99
Feb 2014	\$5,155	\$5,673	\$5,261	1.10	1.08	\$19,621	\$27,086	\$26,993	1.38	1.00
Mar 2014	\$4,751	\$7,210	\$7,173	1.52	1.01	\$24,372	\$34,296	\$34,166	1.41	1.00
Apr 2014	\$5,329	\$7,957	\$7,521	1.49	1.06	\$29,701	\$42,253	\$41,687	1.42	1.01
May 2014	\$10,845	\$10,888	\$10,039	1.00	1.08	\$40,546	\$53,141	\$51,726	1.31	1.03
Jun 2014	\$14,207	\$8,532	\$7,915	0.60	1.08	\$54,753	\$61,673	\$59,641	1.13	1.03
Jul 2014	\$12,442	\$6,706	\$6,415	0.54	1.05	\$67,195	\$68,379	\$66,056	1.02	1.04
Aug 2014	\$8,704	\$7,042	\$6,112	0.81	1.15	\$75,899	\$75,421	\$72,168	0.99	1.05
Sep 2014	\$32,045	\$13,630	\$10,257	0.43	1.33	\$107,944	\$89,051	\$82,425	0.82	1.08
PTD	\$1,635,234	\$1,599,060	\$1,590,170	0.98	1.01					

Mon - SV	Mon - CV
(\$18,415)	\$3,373
(\$36,174)	\$8,890

FY - SV	FY - CV
(\$18,893)	\$6,626

High-Level Waste Facility

Number	Title	Due Date	Status
D-00A-21	Complete Construction of Structural Steel to 37' in HLW Facility	12/31/2012	Complete
D-00A-02	HLW Facility Construction Substantially Complete	12/31/2016	Ongoing*
D-00A-03	Start HLW Facility Cold Commissioning	6/30/2018	Ongoing*
D-00A-04	HLW Facility Hot Commissioning Complete	12/31/2019	Ongoing*

HLW = high-level waste.

The HLW Facility will receive the separated HLW concentrate from the PT Facility. This concentrate will be blended with glass formers, converted into molten glass in one of the two HLW melters, and then poured into cylindrical stainless steel canisters. After cooling, the canisters will be sealed and decontaminated before shipment to interim storage.

As of September 2012, the HLW Facility was 62 percent complete overall, with engineering design 89 percent complete, procurement 81 percent complete, construction 43 percent complete, and startup and commissioning 4 percent complete. Construction, procurement, and production engineering activities have been significantly slowed down, resulting in minimal change to the percent completion status since September.

Construction is continuing on concrete placements, and installation of support steel and crane rails in the canister handling cave. Testing of high-efficiency particulate air (HEPA) filters at Mississippi State University (MSU) is continuing to select the filters that would meet the design and operations requirements.

Office of River Protection authorized BNI to resume all engineering work necessary to finalize the design of the HLW Facility on August 19, 2014. BNI has implemented the FY 2015 and FY 2016 two-year work plan.

BNI is focused on the implementation of the newly developed 2-year work plan: the gap analysis between the recently developed SDS and the PDSA; radioactive liquid waste disposal (RLD) system redesign and hazards analysis; engineering studies to develop path forwards for resolution of issues regarding heating, ventilation, and air-conditioning (HVAC) system; melter and other solid waste handling system; and development of facility design description and system design descriptions, as required by the newly implemented Systems Engineering Management Plan.

Significant Past Accomplishments:

- One concrete placement was made (wall 3102)
- Continued testing on HEPA filter at MSU
- Installed 5 tons of structural steel – mostly steel to support slabs 4019 and 4020 over the canister handling cave
- Continued installation of the crane rails in canister handling cave
- Completed three studies in response to the design and operability review related to HVAC and secondary waste handling operability issues

- Conducted evaluation of mold noticed on the liner plates in PT and HLW Facilities
- Completed the gap analysis to identify misalignments with the current PDSA and to identify safety analyses necessary to incorporate the SDS into the PDSA.

Significant Planned Actions in the Next 6 Months:

- Issue request for proposal for vendor design of RLD-8 vessel
- Complete glove box 29 and 42 assembly/fabrication for auto samplers
- Complete draft analysis of single-point failures in support of failure mode analysis
- Perform HEPA filter qualification testing at MSU
- Continue activities to support the RLD system redesign.

Issues:

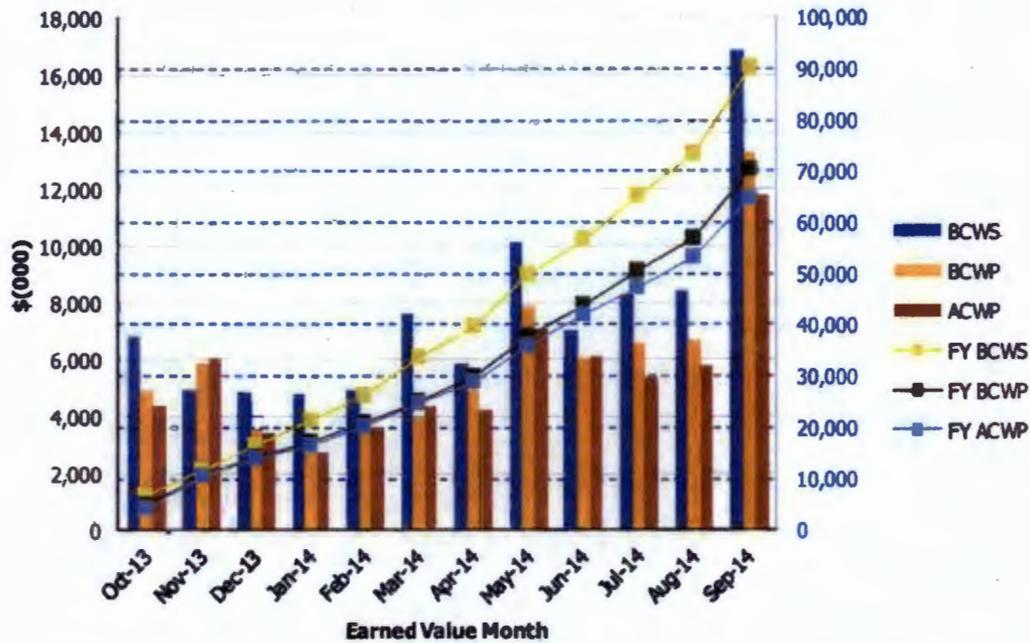
*DOE has notified the State of Washington and State of Oregon that a serious risk has arisen that DOE may be unable to meet this Consent Decree milestone. Technical issues related to the WTP include, among others, PJMs, corrosion/erosion in piping and vessels, hydrogen accumulation, criticality, and ventilation.

Data Set: FY 2014 Earned Value Data

Data as of: September 2014

**River Protection Project
High-Level Waste Facility**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$6,818	\$4,914	\$4,390	0.72	1.12	\$6,818	\$4,914	\$4,390	0.72	1.12
Nov 2013	\$4,892	\$5,842	\$6,055	1.19	0.96	\$11,710	\$10,756	\$10,445	0.92	1.03
Dec 2013	\$4,811	\$3,559	\$3,420	0.74	1.04	\$16,521	\$14,315	\$13,865	0.87	1.03
Jan 2014	\$4,778	\$2,998	\$2,760	0.63	1.09	\$21,299	\$17,313	\$16,625	0.81	1.04
Feb 2014	\$4,927	\$3,736	\$3,647	0.76	1.02	\$26,226	\$21,049	\$20,272	0.80	1.04
Mar 2014	\$7,612	\$4,010	\$4,391	0.53	0.91	\$33,838	\$25,059	\$24,663	0.74	1.02
Apr 2014	\$5,867	\$4,921	\$4,203	0.84	1.17	\$39,705	\$29,980	\$28,866	0.76	1.04
May 2014	\$10,121	\$7,861	\$7,079	0.78	1.11	\$49,826	\$37,841	\$35,945	0.76	1.05
Jun 2014	\$6,975	\$6,073	\$6,097	0.87	1.00	\$56,801	\$43,914	\$42,042	0.77	1.04
Jul 2014	\$8,292	\$6,589	\$5,379	0.79	1.22	\$65,093	\$50,503	\$47,421	0.78	1.06
Aug 2014	\$8,413	\$6,664	\$5,752	0.79	1.16	\$73,506	\$57,167	\$53,173	0.78	1.08
Sep 2014	\$16,860	\$13,234	\$11,797	0.78	1.12	\$90,366	\$70,401	\$64,970	0.78	1.08
PTD	\$1,077,170	\$1,059,580	\$1,047,840	0.98	1.01					

Mon - SV	Mon - CV
(\$3,626)	\$1,437
(\$17,590)	\$11,740

FY - SV	FY - CV
(\$19,965)	\$5,431

Low-Activity Waste Facility

Number	Title	Due Date	Status
D-00A-07	LAW Facility Construction Substantially Complete	12/31/2014	Ongoing*
D-00A-08	Start LAW Facility Cold Commissioning	12/31/2018	Ongoing*
D-00A-09	LAW Facility Hot Commissioning Complete	12/31/2019	Ongoing*

LAW = low-activity waste.

The LAW Facility will process the Low Activity Waste that 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 anticipated to be disposed of on the Hanford Site in the Integrated Disposal Facility. As of September 2014, the LAW Facility was 72 percent complete overall, with engineering design 84 percent complete, procurement 89 percent complete, construction 79 percent complete, and startup and commissioning 8 percent complete. As requested, DOE received a BNI contract modification proposal on September 30, 2014, for the following:

- Completing the LBL work scope in the current contract through hot commissioning
- Completing initial planning and design for incorporating a permanent capability to accommodate a direct feed LAW option in the WTP Project.

Significant Past Accomplishments:

- Greencast placement is poured in Melter 1
- Placed Stage 5 Kaolite, Stage 6 Versaflo, and Stage 8 Kaolite in both melters 1 and 2 (Subcontractor Energy Solutions)
- Installed over 1,070 linear feet of conduit and pulled over 13,500 linear feet of cable
- Installed over 230 linear feet of process piping and hydro-tested 800 linear feet of facility piping
- Completed installation of secondary steel members to seismic braces in the Breathing Service Air System room (Subcontractor Patriot).

Significant Planned Actions in the Next 6 Months:

- Complete subcontractor work scope in the annex
- Award the purchase order for the active gas analyzers
- Complete the LAW Facility design and operability review
- Complete castable refractory installation in the melters.

Issues:

*DOE has notified the State of Washington and State of Oregon that a serious risk has arisen that DOE may be unable to meet this Consent Decree milestone.

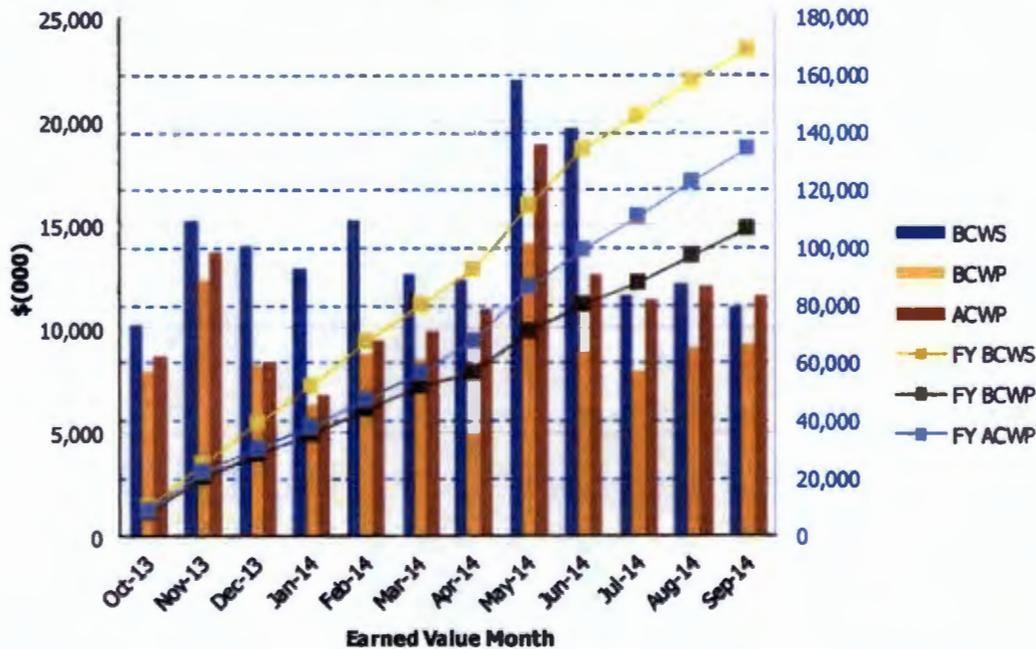
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2014 Earned Value Data

Data as of: September 2014

**River Protection Project
Low-Activity Waste Facility**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$10,160	\$7,952	\$8,677	0.78	0.92	\$10,160	\$7,952	\$8,677	0.78	0.92
Nov 2013	\$15,237	\$12,339	\$13,732	0.81	0.90	\$25,397	\$20,291	\$22,409	0.80	0.91
Dec 2013	\$14,003	\$8,214	\$8,389	0.59	0.98	\$39,400	\$28,505	\$30,798	0.72	0.93
Jan 2014	\$12,919	\$6,382	\$6,795	0.49	0.94	\$52,319	\$34,887	\$37,593	0.67	0.93
Feb 2014	\$15,254	\$8,750	\$9,433	0.57	0.93	\$67,573	\$43,637	\$47,026	0.65	0.93
Mar 2014	\$12,596	\$8,478	\$9,852	0.67	0.86	\$80,169	\$52,115	\$56,878	0.65	0.92
Apr 2014	\$12,335	\$4,958	\$10,936	0.40	0.45	\$92,504	\$57,073	\$67,814	0.62	0.84
May 2014	\$21,988	\$14,117	\$18,840	0.64	0.75	\$114,492	\$71,190	\$86,654	0.62	0.82
Jun 2014	\$19,658	\$8,885	\$12,594	0.45	0.71	\$134,150	\$80,025	\$99,248	0.60	0.81
Jul 2014	\$11,551	\$7,974	\$11,433	0.69	0.70	\$145,701	\$88,049	\$110,681	0.60	0.80
Aug 2014	\$12,107	\$9,091	\$12,097	0.75	0.75	\$157,808	\$97,140	\$122,778	0.62	0.79
Sep 2014	\$11,031	\$9,270	\$11,573	0.84	0.80	\$168,839	\$106,410	\$134,351	0.63	0.79
PTD	\$973,338	\$895,900	\$977,633	0.92	0.92					

Balance of Facilities

Number	Title	Due Date	Status
D-00A-12	Steam Plant Construction Complete	12/31/2012	Complete

The BOF will provide services and utilities to support operation of the main production facilities: PT, HLW, LAW, and LAB. As of September 2014, BOF was 64 percent complete overall, with engineering design 85 percent complete, procurement 73 percent complete, construction 83 percent complete, and startup and commissioning 21 percent complete.

Commercial grade dedication activities in support of the emergency turbine generator procurement are the primary focus for the quality, design engineering, and procurement organizations. Construction efforts are focused on completion of the Glass Former Facility and construction of the Standby Diesel Generator Facility. The standby diesel generator has been placed along with the heat exchanger and fuel tank that support it.

Significant Past Accomplishments:

- Completed heat trace and insulation on the Chiller Compressor Building process service water and domestic (potable) water system piping (subcontractor DKB)
- Completed 1,420 linear feet of cable and 804 linear feet of conduit
- Completed coatings on the inside of the fire water tanks (subcontractor FD Thomas).

Significant Planned Actions in the Next 6 Months:

- Complete construction of the Glass Former Storage Facility
- Receive the replacement nonradioactive liquid waste disposal system motor control panel
- Complete component testing of the low-voltage, medium-voltage, and fire detection systems for switchgear Buildings 87 and 91.

Issues:

No major issues at this time.

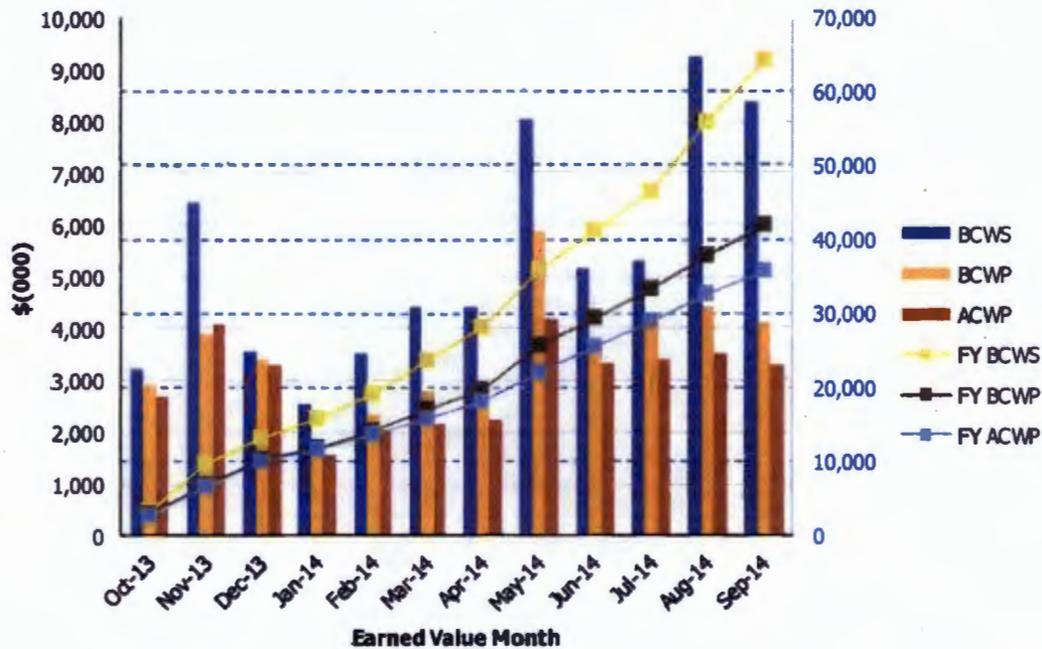
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2014 Earned Value Data

Data as of: September 2014

**River Protection Project
Balance of Facilities**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$3,218	\$2,901	\$2,679	0.90	1.08	\$3,218	\$2,901	\$2,679	0.90	1.08
Nov 2013	\$6,431	\$3,886	\$4,067	0.60	0.96	\$9,649	\$6,787	\$6,746	0.70	1.01
Dec 2013	\$3,547	\$3,395	\$3,267	0.96	1.04	\$13,196	\$10,182	\$10,013	0.77	1.02
Jan 2014	\$2,538	\$1,737	\$1,562	0.68	1.11	\$15,734	\$11,919	\$11,575	0.76	1.03
Feb 2014	\$3,528	\$2,356	\$2,047	0.67	1.15	\$19,262	\$14,275	\$13,622	0.74	1.05
Mar 2014	\$4,394	\$2,806	\$2,163	0.64	1.30	\$23,656	\$17,081	\$15,785	0.72	1.08
Apr 2014	\$4,399	\$2,724	\$2,238	0.62	1.22	\$28,055	\$19,805	\$18,023	0.71	1.10
May 2014	\$8,035	\$5,861	\$4,179	0.73	1.40	\$36,090	\$25,666	\$22,202	0.71	1.16
Jun 2014	\$5,161	\$3,711	\$3,320	0.72	1.12	\$41,251	\$29,377	\$25,522	0.71	1.15
Jul 2014	\$5,297	\$4,032	\$3,415	0.76	1.18	\$46,548	\$33,409	\$28,937	0.72	1.15
Aug 2014	\$9,233	\$4,399	\$3,499	0.48	1.26	\$55,781	\$37,808	\$32,436	0.68	1.17
Sep 2014	\$8,385	\$4,100	\$3,281	0.49	1.25	\$64,166	\$41,908	\$35,717	0.65	1.17
PTD	\$390,879	\$359,557	\$347,087	0.92	1.04					

Analytical Laboratory

Number	Title	Due Date	Status
D-00A-05	LAB Construction Substantially Complete	12/31/2012	Complete

LAB = Analytical Laboratory.

The LAB will support WTP operations by analyzing feed, vitrified waste, and effluent streams. As of September 2014, the LAB was 77 percent complete overall, with engineering design 84 percent complete, procurement 86 percent complete, construction 95 percent complete, and startup and commissioning 27 percent complete.

Engineering efforts are focused on closure of nonconformance reports and construction deficiency reports. In addition engineering is supporting completion of construction punchlist items. Construction efforts are focused on installation of remaining electrical commodities and penetration seals to support the completion of LAB construction.

Significant Past Accomplishments:

- Continued cable pulls and terminations (930 linear feet in September – 85% complete)
- Continued installation of conduit (570 linear feet in September – 98% complete)
- Continued testing of instrumentation tubing (3,560 linear feet in September)
- Continued installation of penetration seals and fireproofing
- Completed pipe closure welds and pipe support post installation vessel repairs.

Significant Planned Actions in the Next 6 Months:

- Complete electrical commodity installation
- Complete penetration seal installation
- Initiate component level testing of select LAB systems.

Issues:

No major issues at this time.

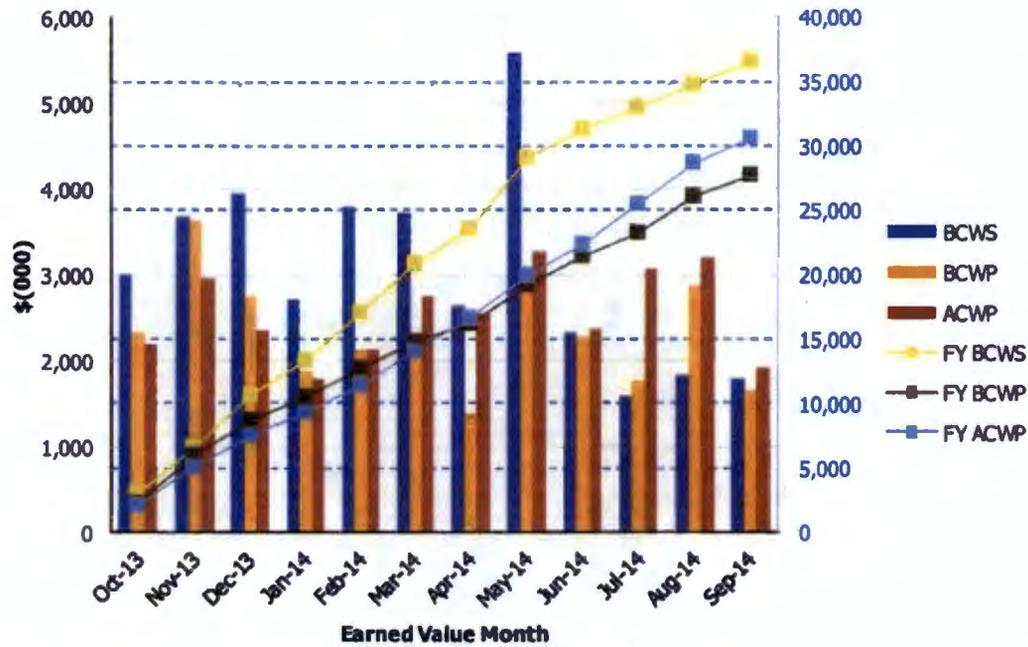
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2014 Earned Value Data

Data as of: September 2014

**River Protection Project
Analytical Laboratory**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$3,008	\$2,328	\$2,196	0.77	1.06	\$3,008	\$2,328	\$2,196	0.77	1.06
Nov 2013	\$3,689	\$3,629	\$2,959	0.98	1.23	\$6,697	\$5,957	\$5,155	0.89	1.16
Dec 2013	\$3,943	\$2,750	\$2,350	0.70	1.17	\$10,640	\$8,707	\$7,505	0.82	1.16
Jan 2014	\$2,705	\$1,875	\$1,788	0.69	1.05	\$13,345	\$10,582	\$9,293	0.79	1.14
Feb 2014	\$3,783	\$2,130	\$2,126	0.56	1.00	\$17,128	\$12,712	\$11,419	0.74	1.11
Mar 2014	\$3,718	\$2,080	\$2,751	0.56	0.76	\$20,846	\$14,792	\$14,170	0.71	1.04
Apr 2014	\$2,642	\$1,382	\$2,552	0.52	0.54	\$23,488	\$16,174	\$16,722	0.69	0.97
May 2014	\$5,592	\$3,040	\$3,274	0.54	0.93	\$29,080	\$19,214	\$19,996	0.66	0.96
Jun 2014	\$2,330	\$2,291	\$2,375	0.98	0.96	\$31,410	\$21,505	\$22,371	0.68	0.96
Jul 2014	\$1,591	\$1,772	\$3,082	1.11	0.57	\$33,001	\$23,277	\$25,453	0.71	0.91
Aug 2014	\$1,847	\$2,871	\$3,202	1.55	0.90	\$34,848	\$26,148	\$28,655	0.75	0.91
Sep 2014	\$1,798	\$1,652	\$1,934	0.92	0.85	\$36,646	\$27,800	\$30,589	0.76	0.91
PTD	\$273,684	\$260,883	\$283,092	0.95	0.92					

**Waste Treatment Plant Project - (LBL) Percent Complete Status
Through September 2014**

(Dollars - Millions)	Overall Facility Percent Complete Unallocated Dollars			Design/Engineering Unallocated Dollars			Procurement Unallocated Dollars			Construction Unallocated Dollars			Startup & Plant Operations Unallocated Dollars			Project Management & Shared Services 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	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete
Facilities																		
Low-Activity Waste	1,240.4	895.9	72%	329.7	276.7	84%	263.5	234.7	89%	464.1	367.8	79%	181.3	14.8	8%	1.9	1.9	100%
Analytical Lab	339.9	260.9	77%	73.7	61.8	84%	56.0	48.4	86%	138.5	131.1	95%	71.1	19.0	27%	0.6	0.6	100%
Balance of Facilities	562.9	359.6	64%	96.5	82.1	85%	74.7	54.3	73%	225.6	187.4	83%	165.5	35.1	21%	0.6	0.6	100%
Total LBL	2,143.3	1,516.3	71%	499.9	420.6	84%	394.2	337.4	86%	828.1	686.3	83%	418.0	69.0	17%	3.0	3.0	100%
PT/HLW/SS Percent Complete Status is invalid due to ~\$2B in Undistributed Budget, project is currently in a rebaseline effort these values will be updated once that effort is complete																		
High-Level Waste	1,078.4	1,059.6	98%	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Pretreatment	1,635.2	1,599.1	98%	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Shared Services	4,176.7	4,164.9	100%	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total HLWPT/SS	6,890.3	6,823.6	99%	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Undistributed Budget	2,078.3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a									
Total WTP	11,111.9	8,339.9	75%	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Source: Refinery WTP Contract Performance Report - Form 1, Data for September 2014

Note: In September 2012, the LBL Replan was incorporated into the project OTB baseline resulting in increases/decreases to the LBL facility budgets, which correspondingly increased/decreased the facility/function to-date percent work complete values. In October 2012, the PT/HLW/SS Interim Work Plan was incorporated into the project OTB baseline resulting in decreases to the PT/HLW/SS facility budgets, this was due to a work scope shift from the Distributed budget to UB. The percent complete values for the Total WTP are the current total LBL BCWP added to the current HLWPT/SS BCWP values, then added to the UB value of remaining workscope for PT/HLW/SS. In March 2014, Project Controls and Project Management work scope was moved out of Shared Services control accounts into the facilities with new control accounts being set up in the facilities. These will now be seen under Project Management/Shared Services by facility.

Final

Office of River Protection
Tri-Party Agreement
Monthly Summary Report
November 2014



**Office of River Protection
Tri-Party Agreement Milestone Review
November 2014 (Monthly Summary Report/Project Earned Value Management System
reflects September 2014 information)**

Page	Topic	Leads
1	Administrative Items/Milestone Status	Bryan Trimberger/Dan McDonald/Jeff Lyon
2	System Plan; M-062-40	DaBrisha Smith/Jeff Lyon/Dan McDonald
3	Acquisition of New Facilities; M-090-00 and M-047-00	Janet Diediker/Jeff Lyon/Dan McDonald
4	Supplemental Treatment and Part B Permit Applications; M-062-00, M-062-21, M-062-30, and M-062-45	Steve Pfaff/Jeff Lyon/Dan McDonald
5	242-A Evaporator Status	Ron Koll/Jeff Lyon
6	Double-Shell Tank System Update	Jeremy Johnson/Jeff Lyon
6	Single-Shell Tank Integrity Assurance; M-045-91	Jeremy Johnson/ Jim Alzheimer
7	In Tank Characterization and Summary	Billie Mauss/Michael Barnes
9	Tank Operations Contract Overview	ORP TPA PMs/Jeff Lyon
17	Single-Shell Tank Corrective Action; M-045-22, M-045-50 series, M-045-60 series, and M-045-92	Chris Kemp/Jeff Lyon
18	Single-Shell Retrieval and Closure Program Tri-Party Agreement (TPA) Milestones Status; M-045-00 series	Chris Kemp/Jeff Lyon
20	Tank Waste Retrieval Work Plan Status	Chris Kemp/Jeff Lyon
21	Tank in TPA Appendix H, Status Tank Retrievals with Individual Milestones	Chris Kemp/Jeff Lyon
CD	Waste Treatment and Immobilization Plant (WTP) Overall TPA Summary and Milestone Status; see the U.S. Department of Energy, Office of River Protection Consent Decree 08-5085-FVS Monthly Summary Report for WTP Facility-specific information	Delmar Noyes/Dan McDonald

CD = Consent Decree 08-5085-FVS

Milestone	Title	Due Date	Completion Date	Status
Fiscal Year 2014				
M-062-40C	Select a Minimum of Three Scenario's for the System Plan	12/15/2013	12/12/2013	Completed
M-062-01AB	Submit Semi-Annual TPA Project Compliance Report	01/31/2014	01/31/2014	Completed
M-045-86C	Submit Retrieval Data Report to Ecology for C-104	03/21/2014	02/18/2014	Completed
M-045-22-T02	Submit Results of Vadose Zone Characterization of 241-U to Ecology	04/30/2014	02/20/2014	Completed
M-045-86F	Submit Retrieval Data Report to Ecology for C-108	05/01/2014	11/27/2013	Completed
M-045-86G	Submit Retrieval Data Report to Ecology for C-109	06/04/2014	03/13/2014	Completed
M-045-22-T03	Submit SX Soil Desiccation/Contaminate Removal Tech Results to Ecology	07/31/2014	05/15/2014	Completed
M-045-56J	Ecology and DOE Agree, at a Minimum, to Meet Yearly (by July)	07/31/2014	07/22/2014	Completed
M-062-01AC	Submit Semi-Annual TPA Project Compliance Report	07/31/2014	07/31/2014	Completed
M-045-22-T01	Submit Results of Vadose Zone Characterization of 241-TX to Ecology	09/30/2014	09/17/2014	Completed
M-045-22	Review M-045-22-T03 Report and Determine Path Forward	09/30/2014	9/25/2014	Completed
Fiscal Year 2015				
M-062-40D	Submit System Plan	10/31/2014	10/31/2014	Completed
M-062-40ZZ	Submit One Time Tank Waste Supp Treatment Technologies Report	10/31/2014	Deleted on 08/12/2014	Deleted
M-045-91G-T03	Provide AOR Final Doc. for SSTs on 1,000,000 Gallon Tanks	10/31/2014	07/07/2014	Completed
M-045-91F-T04	Provide Report on 100-Series SSTs as having Leaked in RPP-32681	12/26/2014		On Schedule
M-045-61	Phase 2 RCRA Facility Investigation/Corrective Measures Study	12/31/2014		To Be Missed
M-045-86H	Submit Retrieval Data Report to Ecology for C-110	01/29/2015	08/06/2014	Completed
M-045-91G-T04	Provide AOR Final Doc. for SSTs on 55,000 Gallon Tanks	01/30/2015		On Schedule
M-045-91B-T01	Provide Ecology report on the Concrete Core from Tank A-106 or alt	01/31/2015		On Schedule
M-045-91F-T02	Provide Report of Liner Failures for SSTs	03/31/2015		On Schedule
M-062-45-T01	Comp. Neg's 6-Mo After Last Issuance of System Plan	04/30/2015		On Schedule
M-062-45-ZZ	Negotiate a One Time Supplemental Treatment Selection	04/30/2015		On Schedule
M-062-45-ZZ-A	Convert M-062-31-T01 Thru M-062-34-T01 to Interim Milestones	04/30/2015		On Schedule
M-045-91F	Provide Summary Conclusions Report on Leak Integrity	06/30/2015		On Schedule
M-045-62	Phase 2 Corrective Measures Implementation Work Plan For WMA-C	06/30/2015		To Be Missed
M-045-92O	Barrier 3 Design/Monitoring Approval From Ecology	06/30/2015		On Schedule
M-045-91G	Provide Summary Conclusions Report of AOR for SSTs	07/28/2015		On Schedule
M-045-56K	Ecology and DOE Agree, at a Minimum, to Meet Yearly (By July)	07/31/2015		On Schedule
M-045-91H	Submit Change Pkg (if necessary) to est. Additional Milestones	07/31/2015		On Schedule
M-045-82	Submit Comp. Permit Modification Request for Tiers 1,2,3	09/30/2015		To Be Missed

AOR = Analyses of Record.
 CD-1/-2 = critical decision-1/-2
 CR = change request.
 DOE = U.S. Department of Energy.
 Ecology = Washington State Department of Ecology.

RCRA = Resource Conservation and Recovery Act.
 SST = single-shell tank.
 TPA = Tri-Party Agreement.
 WMA-C = Waste Management Area C.

System Plan

M-062-40C, Select a minimum of three scenarios that will be analyzed in the system plan,
Due: December 15, 2013, Status: Completed on December 12, 2013.

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

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

Significant Past Accomplishments:

1. On October 24, 2013, Washington State Department of Ecology (Ecology) and U.S. Department of Energy (DOE), Office of River Protection (ORP) signed the Tri-Party Agreement (TPA) Change Control Form M-62-13-02, moving out the due date for this embedded milestone from October 31, 2013 to December 15, 2013, for selection of three, or more, scenarios to be modeled in the System Plan.
2. Ecology has defined five scenarios to be analyzed in System Plan 7. Washington River Protection Solutions LLC (WRPS) has included a description of each scenario in the Selected Scenarios for the River Protection Project System Plan, Rev. 7 document released to ORP on December 4, 2013. See joint ORP and Ecology letter 13-TPD-0070, dated December 12, 2013, for completion and description of M-062-40C scenarios.
3. Detailed assumption review was completed, and has been approved by Ecology.
4. On February 11, 2014, DOE-ORP transmitted a letter (14-TPD-0003) to Washington River Protection Solutions LLC in response to letter (WRPS-1400313) to approve the use of Ecology's Appendix B, "Key Assumptions and Success Criteria," for the ORP 11242, River Protection Project System Plan, Rev. 7.
5. On February 13, 2014 Washington State Department of Ecology presented the five selected scenarios to the Hanford Advisory Board Tank Waste Committee.
6. Ecology, DOE-ORP and WRPS reviewed and provided comments for sections 1 and 2 of the System Plan 7 during the week of February 17, 2014.
7. Ecology, DOE-ORP and WRPS reviewed and provided comments for section 3 of the System Plan 7 during the week of March 21, 2014.
8. Ecology, DOE-ORP and WRPS reviewed and provided comments for Appendix C of the System Plan 7 during the week of April 1, 2014.
9. During the week of April 28, 2014, WRPS and DOE-ORP facilitated meetings for Ecology to define detail spending assumptions for Case 5.
10. On July 29, 2014, WRPS Case authors presented the results of the five cases to Ecology and DOE-ORP.
11. System Plan 7 was reviewed, all comments resolved and incorporated into the document.
12. On October 31, 2014, ORP transmitted System Plan 7 to Ecology.

Significant Planned Actions in the Next 6 Months:

Issues:

None.

Acquisition of New Facilities

M-090-13, Submit Critical Decision-1 for Interim Hanford Storage Project and TPA Change Request for CD-2 to Ecology, Due: March 31, 2016, Status: On Schedule. Created by TPA Change Control Form M-90-12-02, signed by ORP and Ecology on November 19, 2012, to "Submit to Ecology, a Conceptual Design Report Package (Critical Decision-1) for the Interim Hanford Storage Project (storage of the first two years of Hanford Site Immobilized High-Level Waste from WTP operations) and a TPA Change Request (in accordance with TPA Action Plan Section 12.0) to submit to Ecology, a Preliminary Design Report package (Critical Decision-2)."

M-090-00, Acquire/Modify Facilities for Storage of Immobilized High-Level Waste (IHLW), Due: December 31, 2019, Status: On schedule.

M-047-07, Submit CD-1 for Secondary Liquid Waste Treatment and Change Request (CR) for CD-2 to Ecology, Due: March 31, 2016, Status: On Schedule. Created by TPA Change Control Form M-47-12-02, signed by ORP and Ecology on November 19, 2012, to "Submit to Ecology, a Conceptual Design Report package (Critical Decision-1) for the Secondary Liquid Waste Treatment Project and a TPA Change Request (in accordance with TPA Action Plan Section 12.0) to submit to Ecology, a Preliminary Design Report package (Critical Decision-2)."

M-047-00, Complete Work Necessary to Provide Facilities for Management of Secondary Waste from the Waste Treatment and Immobilization Plant (WTP), Due: December 31, 2022, Status: On schedule.

Significant Past Accomplishments:

ORP and Ecology signed TPA Change Packages M-47-14-01 and M-90-14-01 on July 14, 2014 moving the due date for M-047-07 and M-090-13 to March 31, 2016.

Significant Planned Actions in the Next 6 Months:

None.

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 second Low-Activity Waste (LAW), Due: October 31, 2014, Status: Deleted.*

M-062-45ZZ (designation for M-062-45 item #3), Negotiate a one-time supplemental treatment selection, Due: April 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: April 30, 2015, Status: On schedule.

M-062-31-T01, Complete final design and submit Resource Conservation and Recovery Act Part B permit modification request, Due: April 30, 2016, Status: On schedule.

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

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

M-062-45XX, No later than December 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: December 31, 2021, Status: On schedule.

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

M-062-21, Annually submit data that demonstrates operation of the WTP, Due: February 28, 2023, Status: On schedule.

M-062-00, Complete Pretreatment Processing and Vitrification of High-Level Waste and LAW Tank Wastes, Due: December 31, 2047, Status: On schedule.

Significant Past Accomplishments:

*Per ORP letter 14-TF-0052, signed by ORP on May 6, 2014 and provided to Ecology on May 7, 2014, ORP documented the ORP/Ecology discussions for the One-Time Hanford Tank Waste Supplemental Treatment Technologies Report and that ORP does not intend to submit this report. ORP received Ecology's response letter, 14-NWP-110, on May 29, 2014. ORP Letter 14-TF-0088, dated and delivered to Ecology on July 31, 2014, submitted a signed TPA Change Package to delete the requirement of the One-Time Hanford Tank Waste Supplemental Treatment Technologies Report from TPA Milestone M-062-40. Ecology signed TPA Change Package M-62-14-01 deleting M-062-40ZZ on August 12, 2014.

Significant Planned Actions in the Next 6 Months: None.

Issues: None.

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

242-A Evaporator Status:

The 242-A campaign strategy for fiscal year (FY) 2010 through FY 2015 depicted in the following table has been updated based on ORP-11242, *River Protection Project Plan* and ongoing schedule integration efforts.

Fiscal Year	Campaign No.	Feed Source	Slurry Tank	Comments
FY 2010	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.
FY 2010	10-02	AW-106	AW-106	
FY 2011	NA	NA	NA	No campaign conducted in FY 2011 due to ongoing 242-A and tank farm facility life extension and <i>American Recovery and Reinvestment Act</i> funded upgrades.
FY 2012	NA	NA	NA	No campaign conducted in FY 2012 due to ongoing 242-A and tank farm facility upgrades and revision to the 242-A Documented Safety Analysis.
FY 2013	NA	NA	NA	No campaigns to be conducted in FY 2013 due to ongoing 242-A and tank farm facility upgrades and revision to the 242-A Documented Safety Analysis.
FY 2014	13-01	AP-107	AP-107	Campaign started September 9, 2014 Campaign completed on October 9, 2014.
FY 2015	14-01	AP0103 & AP-104	AP-107	February 2015.
FY 2015	EC-02	AZ-102	AP-103	Estimated start March 2015.
FY 2015	EC-03	AZ-102	AP-103	Estimated start June 2015.
FY 2015	EC-04	AW-106	AP-103	Estimated start July 2015.

FY = fiscal year.
NA = not applicable.

Double-Shell Tank System Update

Ultrasonic Testing

- UT testing on AP-102 revealed two areas of thinning at Riser 31. One area was approximately 24% of the nominal thickness of 0.500 inches. The other area was approximately 70%. No through-wall penetrations identified. Both areas of thinning are positioned approximately above concrete foundation drain slot locations.

Performance demonstration of Electro Magnet Acoustic Transducer (EMAT) testing was completed by PNNL and AREVA inspectors are qualified for its use. The first field application will be in AP-102. Visual Inspection

Visual Inspection

- Continuing bi-weekly inspections of AY-102 waste accumulation sites.
- Continuing bi-monthly comprehensive inspection of AY-102 annulus.

Transfers

- No transfers were performed during the month of October

Single-Shell Tank Integrity Assurance

M-045-91F-T04, Provide to Ecology, as a Hanford Federal Facility Agreement and Consent Order secondary document, a report on the 100-series SSTs, which have been or will be identified as having leaked in RPP-32681, Rev. 0, Due: December 26, 2014, Status: On schedule. RPP-RPT-54909, Hanford Single-Shell Tanks Leak Causes, Locations, and Rates: Summary Report was cleared, released and transmitted to ORP on 10/8/2014 under letter WRPS-1404160.

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: January 30, 2015, 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 an alternate tank, Due: January 31, 2015, Status: On schedule.

M-045-91F-T02, Provide to Ecology as a Hanford Federal Facility Agreement and Consent Order 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: March 31, 2015, 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 M-045-91F-T04, Due: June 30, 2015 Status: On schedule.

M-045-91G, Provide a Summary Conclusions Report of Structural Analysis of Record for SSTs, Due: July 28, 2015, 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 of milestones to date, Due: July 31, 2015, Status: On schedule.

M-045-91I, Provide to Ecology an Independent, Qualified, Registered Professional Engineer (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: September 30, 2018, Status: On schedule.

Significant Past Accomplishments:

- RPP-RPT-54909, *Hanford Single-Shell Tanks Leak Causes, Locations, and Rates: Summary Report* was transmitted to ORP for submittal to Ecology to meet target the 91F-T04 target. This reflects about 30 months total of collaborative effort between WRPS, ORP and Ecology effort, involving 10 individual reports with over 2250 pages of text.
- The Tank A-106 sidewall coring test report, RPP-RPT-58254 was released on 10/30/2014.

Significant Planned Actions in the Next 6 Months:

- Transmit report on testing of the Tank A-106 sidewall core (M-045-91B-T01).
- Issue the Type I Analysis of Record (M-045-91G-T04).
- Issue the SST Common Factors Report (M-045-91F-T02)

Issues:

Planning and discussion for M-045-91H to submit a change package (if deemed necessary by DOE and Ecology) to establish additional milestones for Phase II of the Single-Shell Tank Integrity Project needs to begin.

In Tank Characterization and Summary

For the period from October 1 through October 31, 2014:

Accomplishments:

- Completed RPP-RPT-48639, *Derivation of Best-Basis Inventory for Tank 241-AP-104 as of July 1, 2014, Rev 10.*
- Completed RPP-RPT-58071, *Derivation of Best-Basis Inventory for Tank 241-C-105 as of June 11, 2014, Rev 0.*
- Completed RPP-RPT-58236, *Derivation of Best-Basis Inventory for Tank 241-S-111 as of July 1, 2014, Rev 0.*
- Completed RPP-RPT-44814, *Derivation of Best-Basis Inventory for Tank 241-AN-101 as of July 16, 2014, Rev 15.*

- Completed RPP-RPT-43992, *Derivation of Best-Basis Inventory for Tank 241-AN-106 as of June 11, 2014*, Rev 12.
- Completed RPP-RPT-58260, *Derivation of Best-Basis Inventory for Tank 241-BX-110 as of July 1, 2014*, Rev 0.
- Completed RPP-RPT-58279, *Derivation of Best-Basis Inventory for Tank 241-BY-102 as of July 1, 2014*, Rev 0.
- Completed RPP-RPT-58270, *Derivation of Best-Basis Inventory for Tank 241-BX-101 as of July 1, 2014*, Rev 0.
- Completed RPP-PLAN-60003, *Sampling and Analysis Plan for Solid Tank Waste on Tank 241-C-111 Failed Sluicer*, Rev 0.
- Completed RPP-PLAN-60011, *Tank Sampling and Analysis Plan for C-105 Solids*, Rev 0.
- RPP-RPT-58309, *Final Report for Tank 241-AY-102A Leak-Detection Pit Liquid Grab Samples, September 2014*, Rev 0, was released October 27, 2014.
- Completed sampling on October 1, 2014, of 242-A Evaporator slurry transferred to 241-AP-107. Two samples were received at the lab.
- Completed 241-C-107 closure drag sampling that occurred from October 16, 2014 through October 28, 2014. Twelve samples were received at the lab.

Planned Action within the Next 6 Months:***Tank sampling:***

- 241-AZ-102A LDP grab sample #2 is planned for November 2014.
- Tank 241-SY-102 core sampling (Riser #04) is planned for November 2014.
- Tank 241-C-111 failed sluicer sampling is planned for November 2014.
- 241-C-105 fingertrap sampling is planned for November 2014.
- 241-AY-102A LDP grab sample #13 is planned for December 2014.
- Tank 241-C-101 ORSS closure sampling is planned for December 2014.
- Tank 241-AW-102 (Evaporator campaign EC-01) sampling is planned for December 2014.
- Tank 241-C-112 clamshell or fingertrap sampling is planned for December 2014.
- 241-AY-102A LDP grab sample #14 is planned for March 2015.
- Tank 241-AN-103 chemistry control rotary mode core sample is planned for March 2015.
- Tank 241-AZ-102 (EC-03) grab sampling is planned for April 2015.
- Tank 241-AN-101 sample at C-102 100% retrieval is planned for April 2015.

Best-Basis Inventory (BBI) updates:

BBI updates for the following tanks were completed in October.

- 241-AN-101
- 241-AN-106
- 241-AP-104
- 241-BX-101
- 241-BX-110
- 241-BY-102
- 241-C-105
- 241-S-111

BBI updates for the following tanks are planned to be completed in November.

- 241-AP-106
- 241-B-204

Data Quality Objectives (DQO):

A screening DQO is in-process to obtain data on odorous tank stack emissions in support of dispersion modeling.

Issues:

None.

TANK OPERATIONS CONTRACT OVERVIEW

Project Performance

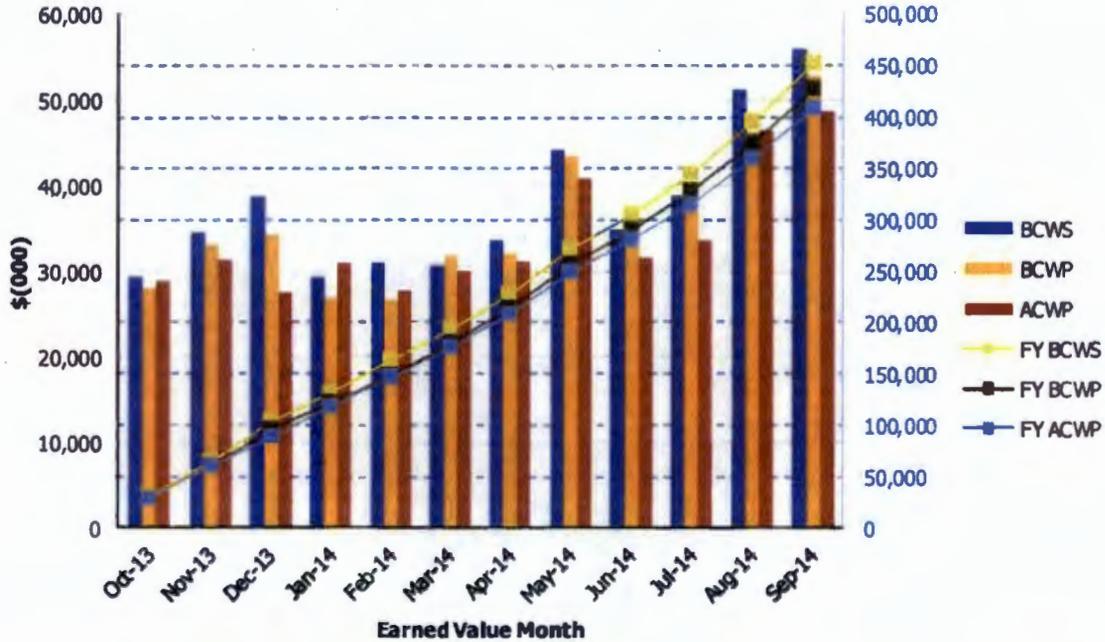
The earned value performance reporting reflects the format, work breakdown structure reporting levels, and variance thresholds as agreed to with the tank operations contractor for monthly performance reporting. The earned value analysis is not intended to be a measurement of performance against existing TPA milestones.

Through September 30, 2014, Washington River Protection Solutions LLC (WRPS) worked 2,126,946 hours (188days) without a Lost Time Workday Injury and 868,695 hours (74 days) without a Recordable case. There were no recordable cases in September 2014, and no Days Away, Restricted, or Transferred (DART) cases.

September-14										
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC
CM	55,971.6	52,755.1	48,604.5	(3,216.5)	4,150.6	0.93	1.09			
FYTD	452,161.7	426,735.9	409,202.0	(25,425.8)	17,533.9	0.94	1.04	452,161.7	409,202.0	42,959.7
CTD	2,343,905.6	2,318,479.8	2,300,945.8	(25,425.8)	17,534.0	0.99	1.01	3,298,363.3	3,277,107.4	211,225.9

Tank Farms ORP-0014

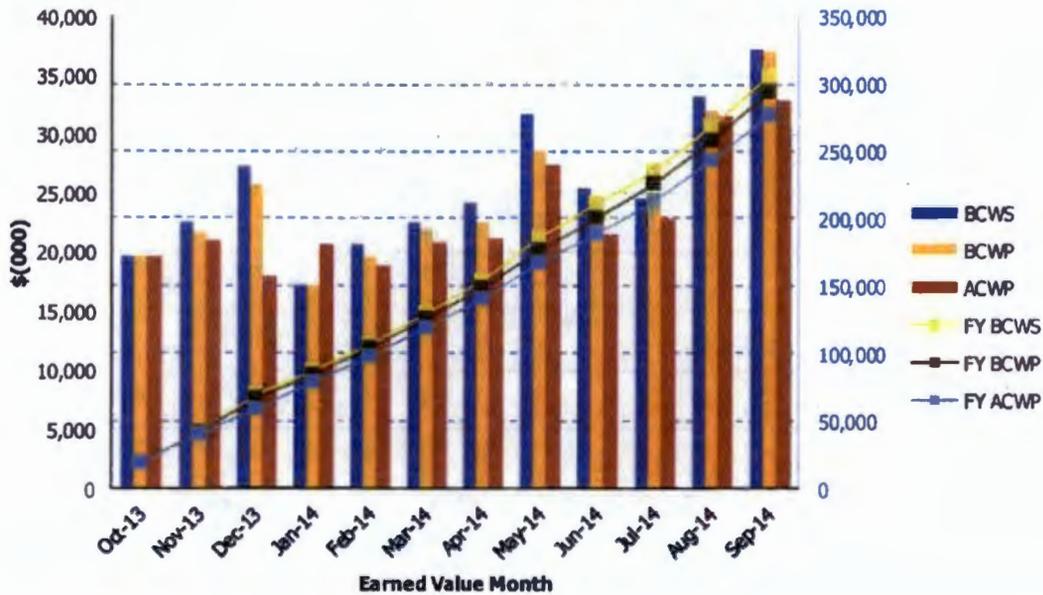
EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$29,474	\$27,946	\$29,015	0.95	0.96	\$29,474	\$27,946	\$29,015	0.95	0.96
Nov 2013	\$34,535	\$33,081	\$31,448	0.96	1.05	\$64,009	\$61,027	\$60,463	0.95	1.01
Dec 2013	\$38,698	\$34,362	\$27,634	0.89	1.24	\$102,706	\$95,389	\$88,096	0.93	1.08
Jan 2014	\$29,325	\$26,999	\$30,991	0.92	0.87	\$132,032	\$122,388	\$119,087	0.93	1.03
Feb 2014	\$30,875	\$26,774	\$27,782	0.87	0.96	\$162,907	\$149,162	\$146,869	0.92	1.02
Mar 2014	\$30,709	\$31,870	\$30,045	1.04	1.06	\$193,616	\$181,032	\$176,914	0.94	1.02
Apr 2014	\$33,608	\$32,120	\$31,172	0.96	1.03	\$227,224	\$213,152	\$208,086	0.94	1.02
May 2014	\$44,269	\$43,538	\$40,799	0.98	1.07	\$271,492	\$256,690	\$248,885	0.95	1.03
Jun 2014	\$34,706	\$33,424	\$31,595	0.96	1.06	\$306,198	\$290,114	\$280,480	0.95	1.03
Jul 2014	\$38,860	\$37,623	\$33,686	0.97	1.12	\$345,058	\$327,737	\$314,166	0.95	1.04
Aug 2014	\$51,132	\$46,244	\$46,431	0.90	1.00	\$396,190	\$373,981	\$360,598	0.94	1.04
Sep 2014	\$55,972	\$52,755	\$48,605	0.94	1.09	\$452,162	\$426,736	\$409,202	0.94	1.04
CTD	\$2,343,905	\$2,318,480	\$2,300,946	0.99	1.01					

**Tank Farms ORP-0014
Base Operations 5.01**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$19,628	\$19,630	\$19,598	1.00	1.00	\$19,628	\$19,630	\$19,598	1.00	1.00
Nov 2013	\$22,525	\$21,675	\$21,051	0.96	1.03	\$42,153	\$41,305	\$40,649	0.98	1.02
Dec 2013	\$27,266	\$25,724	\$18,016	0.94	1.43	\$69,419	\$67,029	\$58,664	0.97	1.14
Jan 2014	\$17,246	\$17,269	\$20,778	1.00	0.83	\$86,664	\$84,298	\$79,443	0.97	1.06
Feb 2014	\$20,732	\$19,631	\$18,894	0.95	1.04	\$107,396	\$103,929	\$98,337	0.97	1.06
Mar 2014	\$22,587	\$21,924	\$20,834	0.97	1.05	\$129,983	\$125,853	\$119,170	0.97	1.06
Apr 2014	\$24,256	\$22,528	\$21,164	0.93	1.06	\$154,238	\$148,381	\$140,334	0.96	1.06
May 2014	\$31,690	\$28,630	\$27,412	0.90	1.04	\$185,929	\$177,011	\$167,777	0.95	1.06
Jun 2014	\$25,451	\$23,901	\$21,476	0.94	1.11	\$211,380	\$200,912	\$189,252	0.95	1.06
Jul 2014	\$24,492	\$24,914	\$22,791	1.02	1.09	\$235,872	\$225,826	\$212,043	0.96	1.07
Aug 2014	\$33,299	\$31,946	\$31,575	0.96	1.01	\$269,171	\$257,771	\$243,618	0.96	1.06
Sep 2014	\$37,191	\$37,006	\$32,999	1.00	1.12	\$306,362	\$294,777	\$276,617	0.96	1.07
CTD	\$1,537,428	\$1,525,843	\$1,507,683	0.99	1.01					

Base Operations and Tank Farm Projects

The current month unfavorable schedule variance (SV) of (\$185K) is due to the following:

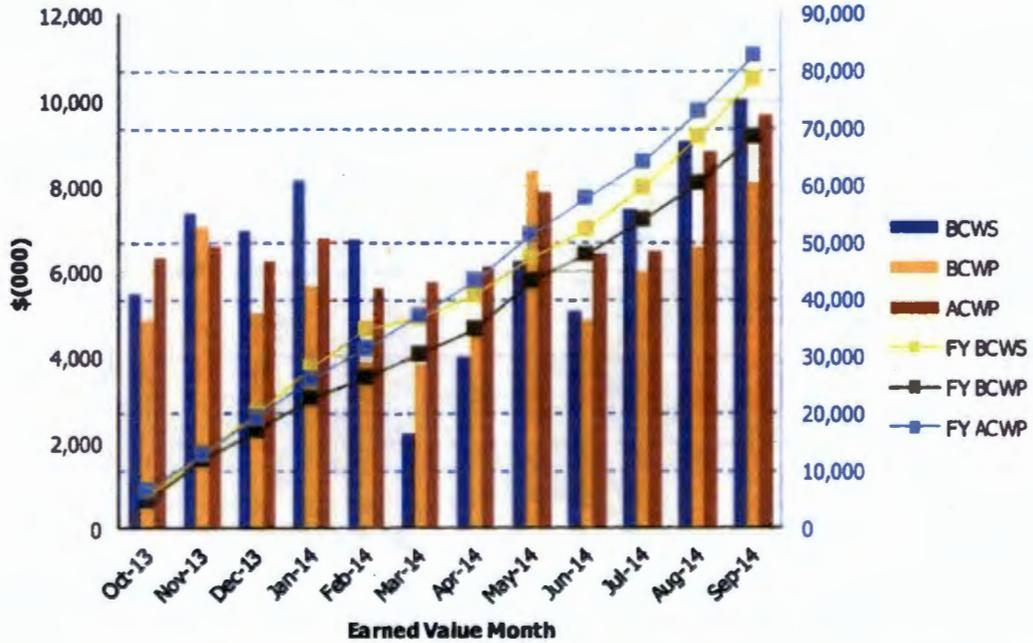
- Material procurement required to address the chemical vapor issues and delay in the review of sampling results and vapor event reports study.
- Delay of the room renovation at the 222-S lab.
- Delay of the 242-A Evaporator campaign.

The current month favorable cost variance (CV) of \$4,007K is primarily due to the following:

- Contractor resources were lower than planned.

**Tank Farms ORP-0014
Retrieve and Close SST's 5.02**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$5,483	\$4,823	\$6,336	0.88	0.76	\$5,483	\$4,823	\$6,336	0.88	0.76
Nov 2013	\$7,366	\$7,054	\$6,609	0.96	1.07	\$12,849	\$11,876	\$12,945	0.92	0.92
Dec 2013	\$6,970	\$5,002	\$6,231	0.72	0.80	\$19,820	\$16,878	\$19,176	0.85	0.88
Jan 2014	\$8,102	\$5,661	\$6,765	0.70	0.84	\$27,922	\$22,539	\$25,941	0.81	0.87
Feb 2014	\$6,726	\$3,914	\$5,602	0.58	0.70	\$34,647	\$26,453	\$31,543	0.76	0.84
Mar 2014	\$2,201	\$3,805	\$5,729	1.73	0.66	\$36,849	\$30,258	\$37,273	0.82	0.81
Apr 2014	\$4,000	\$4,558	\$6,079	1.14	0.75	\$40,848	\$34,816	\$43,352	0.85	0.80
May 2014	\$6,255	\$8,331	\$7,855	1.33	1.06	\$47,103	\$43,146	\$51,207	0.92	0.84
Jun 2014	\$5,055	\$4,826	\$6,413	0.95	0.75	\$52,158	\$47,972	\$57,621	0.92	0.83
Jul 2014	\$7,437	\$5,954	\$6,461	0.80	0.92	\$59,595	\$53,926	\$64,082	0.90	0.84
Aug 2014	\$9,039	\$6,563	\$8,792	0.73	0.75	\$68,634	\$60,489	\$72,874	0.88	0.83
Sep 2014	\$10,026	\$8,089	\$9,631	0.81	0.84	\$78,660	\$68,578	\$82,504	0.87	0.83
CTD	\$505,499	\$495,418	\$509,343	0.98	0.97					

Retrieval and Close Single-Shell Tanks**SST Retrieval & Closure WBS 5.2****Monthly Status Narrative – September Fiscal Year 2014****Safety:**

As of September 30, 2014 WRPS TOC has worked 188 days without a lost time workday injury and 74 days without a recordable case. There were no Recordable cases in September 2014, and no Days Away, Restricted, or Transferred (DART) cases.

SST Retrieval & Closure accomplishments:

- Completed spectral gamma logging on 30 drywells.
- Completed Tank Leak Assessment for AX-102 and AX-104.
- Removed one (1) Extended Reach Sluicer from SST-C-102
- Removed two (2) Extended Reach sluicers from SST-C-111

Earned Value Management:

The current month unfavorable cost variance (CV) of **(\$1,937k)** is due to:

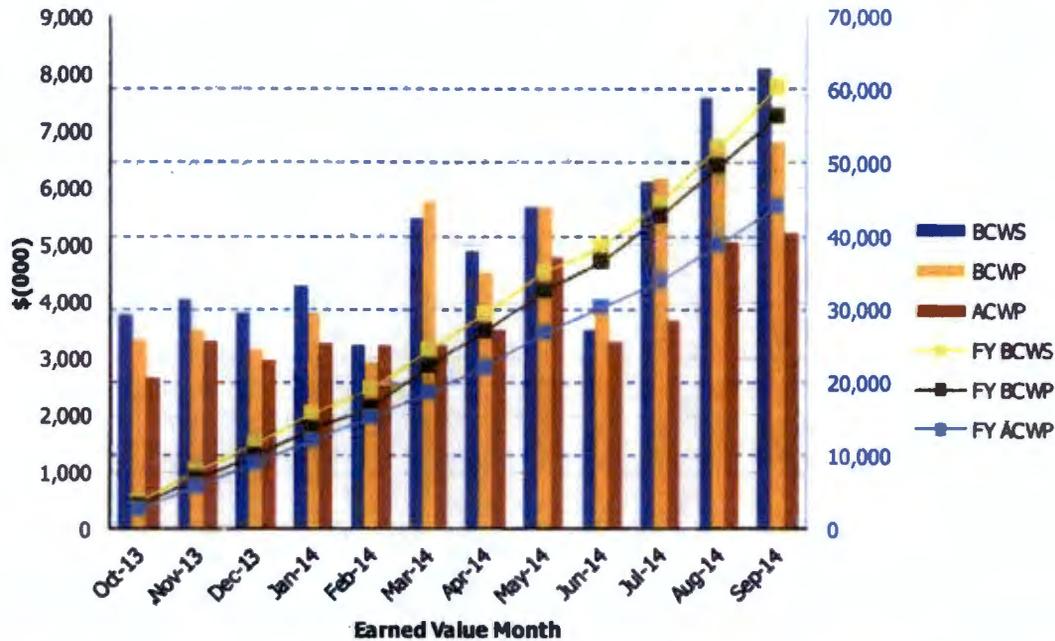
- Non-performance of SST C-105 Retrieval activities due to plugged slurry distributor, operational crews were reallocated to readiness and training tasks due to ineffectiveness of the retrieval system.
- Non-performance of SST C-102 Retrieval activities due to failed Extended Reach Sluicer System.
- Early receipt of equipment at C-Farm

The current month unfavorable schedule variance (SV) of **(\$1,542k)** is due to:

- Non-performance of SST C-105 Retrieval activities due to the plugged slurry distributor in receiver tank AN-106. Corrective Action: Slurry distributor to be replaced mid-November.
- Early completion of Retrieval activities at Single-Shell Tank C-107.
- Early completion of replacement of the Extended Reach Sluicer at Single-Shell Tank C-102.

Tank Farms ORP-0014
Waste Feed Delivery/Treatment/Double-Shell Tank Retrieval Closure 5.03

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$3,766	\$3,335	\$2,640	0.89	1.26	\$3,766	\$3,335	\$2,640	0.89	1.26
Nov 2013	\$4,041	\$3,488	\$3,295	0.86	1.06	\$7,807	\$6,824	\$5,934	0.87	1.15
Dec 2013	\$3,813	\$3,150	\$2,941	0.83	1.07	\$11,620	\$9,973	\$8,875	0.86	1.12
Jan 2014	\$4,282	\$3,803	\$3,277	0.89	1.16	\$15,902	\$13,776	\$12,152	0.87	1.13
Feb 2014	\$3,225	\$2,926	\$3,239	0.91	0.90	\$19,126	\$16,702	\$15,391	0.87	1.09
Mar 2014	\$5,438	\$5,757	\$3,240	1.06	1.78	\$24,565	\$22,459	\$18,631	0.91	1.21
Apr 2014	\$4,876	\$4,507	\$3,480	0.92	1.30	\$29,441	\$26,966	\$22,112	0.92	1.22
May 2014	\$5,651	\$5,649	\$4,780	1.00	1.18	\$35,092	\$32,626	\$26,892	0.93	1.21
Jun 2014	\$3,497	\$3,991	\$3,300	1.14	1.21	\$38,588	\$36,617	\$30,192	0.95	1.21
Jul 2014	\$6,091	\$6,151	\$3,656	1.01	1.68	\$44,679	\$42,768	\$33,848	0.96	1.26
Aug 2014	\$7,564	\$6,762	\$5,033	0.89	1.34	\$52,243	\$49,530	\$38,882	0.95	1.27
Sep 2014	\$8,081	\$6,790	\$5,219	0.84	1.30	\$60,324	\$56,320	\$44,101	0.93	1.28
CTD	\$576,569	\$272,564	\$260,345	0.47	1.05					

Waste Feed Delivery/Treatment/Double-Shell Tank Retrieval Closure

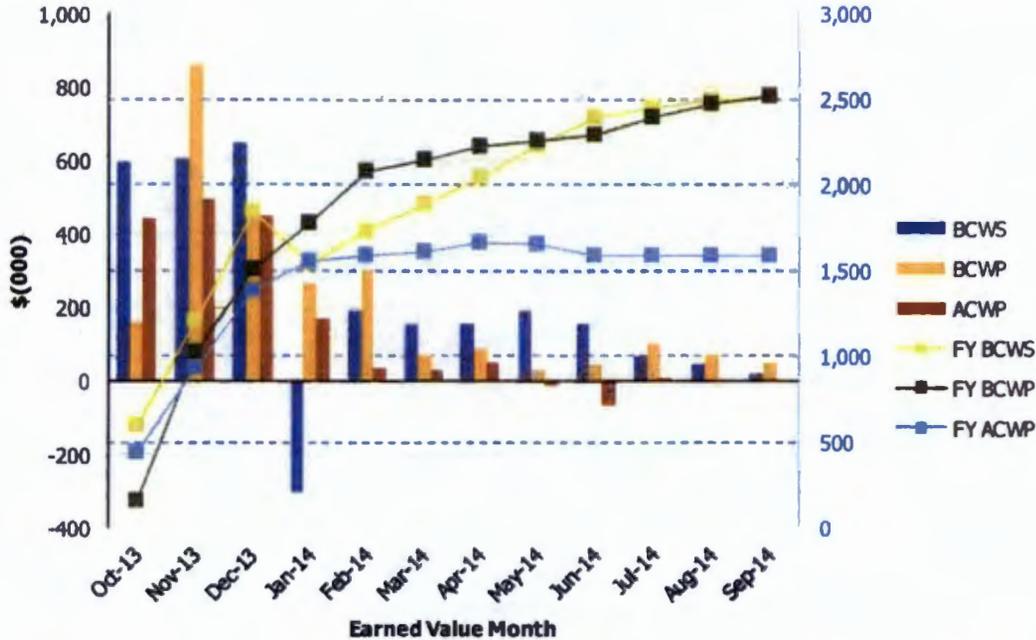
The current month unfavorable schedule variance (SV) of **(\$1,291)** is within threshold

The current month favorable cost variance (CV) of \$1,571K is due to:

- Labor efficiencies of PNNL gall formulation support for the annual report/glass corrosion approach, modeling & waste form qualification strategy and preparation activities for IDF Glass Testing and Secondary Waste and Cast Stone experts.

**Tank Farms ORP-0014
Supplement Treatment 5.04**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$597	\$158	\$441	0.26	0.36	\$597	\$158	\$441	0.26	0.36
Nov 2013	\$603	\$864	\$494	1.43	1.75	\$1,200	\$1,022	\$934	0.85	1.09
Dec 2013	\$648	\$486	\$446	0.75	1.09	\$1,848	\$1,508	\$1,380	0.82	1.09
Jan 2014	(\$304)	\$266	\$171	-0.88	1.56	\$1,544	\$1,775	\$1,551	1.15	1.14
Feb 2014	\$194	\$302	\$34	1.56	8.91	\$1,737	\$2,077	\$1,585	1.20	1.31
Mar 2014	\$153	\$68	\$29	0.45	2.36	\$1,890	\$2,145	\$1,614	1.14	1.33
Apr 2014	\$153	\$85	\$51	0.56	1.67	\$2,043	\$2,230	\$1,665	1.09	1.34
May 2014	\$191	\$26	-\$13	0.14	-1.98	\$2,234	\$2,256	\$1,652	1.01	1.37
Jun 2014	\$156	\$43	-\$67	0.28	-0.64	\$2,390	\$2,299	\$1,585	0.96	1.45
Jul 2014	\$66	\$102	\$1	1.54	92.36	\$2,456	\$2,401	\$1,586	0.98	1.51
Aug 2014	\$42	\$69	\$0	1.63	0.00	\$2,498	\$2,469	\$1,586	0.99	1.56
Sep 2014	\$18	\$47	-\$2	2.57	1.00	\$2,516	\$2,517	\$1,584	1.00	1.59
CTD	\$20,110	\$20,110	\$19,178	1.00	1.05					

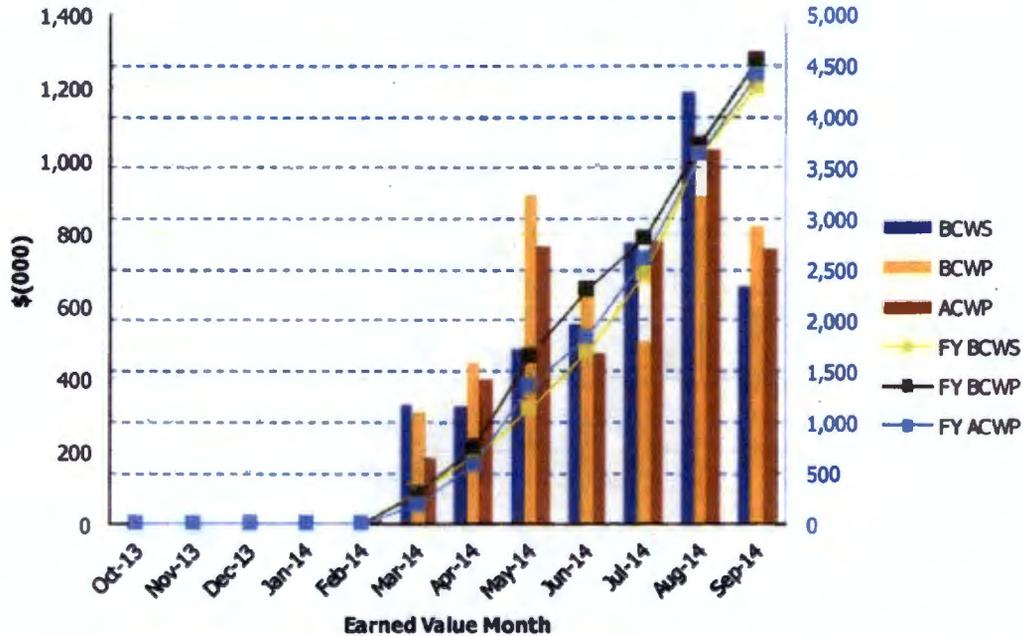
Supplemental Treatment

The current month favorable schedule variance (SV) of \$29K is within the reporting threshold.

The current month favorable cost variance (CV) of \$49K is within the reporting threshold.

**Tank Farms ORP-0014
Treat Waste 5.5**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$0	\$0	\$0	0.00	0.00	\$0	\$0	\$0	0.00	0.00
Nov 2013	\$0	\$0	\$0	0.00	0.00	\$0	\$0	\$0	0.00	0.00
Dec 2013	\$0	\$0	\$0	0.00	0.00	\$0	\$0	\$0	0.00	0.00
Jan 2014	\$0	\$0	\$0	0.00	0.00	\$0	\$0	\$0	0.00	0.00
Feb 2014	\$0	\$0	\$13	0.00	0.00	\$0	\$0	\$13	0.00	0.00
Mar 2014	\$330	\$306	\$183	0.93	1.67	\$330	\$306	\$196	0.93	1.56
Apr 2014	\$324	\$443	\$397	1.37	1.11	\$653	\$748	\$593	1.15	1.26
May 2014	\$482	\$903	\$765	1.88	1.18	\$1,135	\$1,651	\$1,358	1.45	1.22
Jun 2014	\$547	\$664	\$472	1.21	1.41	\$1,682	\$2,315	\$1,830	1.38	1.27
Jul 2014	\$775	\$503	\$777	0.65	0.65	\$2,457	\$2,818	\$2,607	1.15	1.08
Aug 2014	\$1,188	\$904	\$1,031	0.76	0.88	\$3,645	\$3,722	\$3,639	1.02	1.02
Sep 2014	\$655	\$823	\$758	1.26	1.09	\$4,300	\$4,545	\$4,397	1.06	1.03
CTD	\$4,300	\$4,545	\$4,397	1.06	1.03					

Treat Waste

The current month favorable schedule variance (SV) of \$168K is within the reporting threshold.

The current month favorable cost variance (CV) of \$65K is within the reporting threshold.

Work Breakdown Structure 5.2 Retrieve and Close Single-Shell Tanks

M-045-22, Review M-045-22-T03 Report and Determine Path Forward, Due: September 30, 2014, based on M-045-20 TPA Change Package M-45-12-05, Status: Complete. Ecology and ORP agreed at the September 25, 2014 TPA Project Managers' meeting that this milestone was closed, though M-045-92 remains open.

M-045-22-T01, Submit Results of Vadose Zone Characterization of 241-TX to Ecology, Due: September 30, 2014, based on M-045-20 TPA Change Package M-45-12-05, Status: Complete. ORP submitted this deliverable to ECY on September 17, 2014, via letter 14-TF-0100.

M-045-22-T02, Submit Results of Vadose Zone Characterization of 241-U to Ecology, Due: April 30, 2014, based on M-045-20 TPA Change Package M-45-12-05, Status: Complete. ORP submitted this deliverable to ECY on February 20, 2014, via letter 14-TF-0015.

M-045-22-T03, Submit SX Soil Desiccation/Contaminate Removal Tech Results to Ecology, Due: July 31, 2014, based on M-045-20 TPA Change Package M-45-12-05, Status: Complete. ORP submitted this deliverable to ECY on May 15, 2014, via letter 14-TF-0054.

M-045-56J, Complete Implementation of Agreed to Interim Measures, Due: July 31, 2014, Status: Complete. The M-045-56 annual meeting was held on July 22, 2014 and meeting minutes have been entered into the 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 Waste Management Areas (WMA) (pending the Corrective Measures Study report, Milestone M-45-58, and implementation of other interim corrective measures), Due: To be determined, Status: On schedule.

M-045-61, Submit to Ecology in accordance with the HFFACO Secondary document review process a Phase 2 RCRA Facility Investigation (RFI) Report Draft A for WMA Area C (WMA-C), Due: December 31, 2014, Status: This milestone was modified by HFFACO change package M-45-14-03, signed October 1, 2014.

M-045-61A, Submit to Ecology for review and approval as an Agreement primary document, document review process, a Phase 2 Corrective Measures Study, and revision 0 update to the RFI Report for WMA-C, Due: December 31, 2016, Status: On schedule. This milestone was created by HFFACO change package M-45-14-03, signed October 1, 2014.

M-045-62, Submit to Ecology for review and approval as an agreement primary document a Phase 2 Corrective Measures Study Implementation Plan for WMA-C, Due: June 30, 2015, Status: To be missed. Please see issues.

M-045-92, Complete Installation of Four (4) Additional Interim Barriers (see interim milestones below), Due: October 31, 2017, Status: On schedule.

M-045-92N, Construct Barriers 1 and 2 in 241-SX Farm, Due: October 31, 2015, Status: On schedule.

M-045-92O, Submit a Final Design and Monitoring Plan for Interim Barrier 3, Due: June 30, 2015, Status: On schedule.

Significant Past Accomplishments:

- Automated data collection systems for T Farm and TY Farm interim barrier monitoring continue gathering data
- Documentation of the WMA-C Phase 2 Resource Conservation and Recovery Act Facility Investigation Report continues.

Significant Planned Actions in the Next 6 Months:

- Complete documentation of the WMA-C Phase 2 Resource Conservation and Recovery Act Facility Investigation Report. Draft to complete M-045-61.

SST Retrieval and Closure Program

M-045-82, Submit complete permit mod requests for Tiers 1, 2, and 3 of the SST, Due: September 30, 2015, Status: To be missed. Please see issues.

M-045-84, Complete negotiations of TPA interim milestones for closure of second WMA, Due: January 31, 2017, Status: On schedule.

M-045-83, Complete the closure of WMA-C, Due: June 30, 2019, Status: On schedule.

M-045-85, Complete negotiations of TPA interim milestones for closure of remaining WMAs, Due: January 31, 2022, Status: On schedule.

M-045-70, Complete waste retrieval from all remaining SSTs, Due: December 31, 2040, Status: On schedule.

M-045-00, Complete closure of all SST farms, Due: January 31, 2043, Status: On schedule.

M-045-86, Submit retrieval data report to Ecology for 19 tanks retrieved, Due: To be determined (12 months after retrieval certification), Status: On schedule.

- M-045-86C: Retrieval Data Report for C-104 was due March 21, 2014. Completed on February 18, 2014 with letter 14-TF-0013
- M-045-86F: Retrieval Data Report for C-108 was due May 1, 2014. Completed on November 27, 2013 with letter 13-TF-0120
- M-045-86G: Retrieval Data Report for C-109 was due June 4, 2014. Completed on March 13, 2014 with letter 14-TF-0020
- M-045-86H: Retrieval Data Report for C-110 was due January 29, 2015. Completed on August 6, 2014 with letter 14-TF-0086.

Significant Past Accomplishments:

- Submitted the Retrieval Data Report for C-110
- Completed post-retrieval logging of the drywells near C-104, C-109, and C-110 to support the retrieval data reports
- See discussions above and related discussions in Consent Decree report.

Significant Planned Activities in the Next 6 Months:

- Continue developing the WMA-C performance assessment
- Develop a draft of the Tier 1 (framework) closure plan for WMA C as required by the TPA
- Initiate a performance assessment for WMA A/AX.
- See discussions above and related discussions in Consent Decree report.

Issues:

A new deliverable date for the Corrective Measures Implementation Plan, M-045-62, will need to be established based on the modification to milestone M-045-61 and M-045-61A. ORP and Ecology continue to meet to develop an integrated path forward that addresses all the deliverables associated with Milestone M-045-82.

Tank Waste Retrieval Work Plan Status

Tank	TWRWP	Expected Revisions	First Retrieval Technology	Second Technology	Third Technology
C-101	RPP-22520, Rev. 8	Complete	Modified Sluicing with ERSS	High-Pressure Water deployed with the ERSS	-
C-102	RPP-22393, Rev. 7	In Process	Modified Sluicing with ERSS	High-Pressure Water deployed with the ERSS	-
C-104	RPP-22393, Rev. 7	Complete	Modified Sluicing	Chemical Retrieval Process complete per 13-TF-0018	-
C-105	RPP-22520, Rev. 8	Complete	MARS-V	MARS-V-High Pressure Water Spray	-
C-107	RPP-22393, Rev. 7	Complete	MARS-S	MARS-S -High Pressure Water Spray	Water Dissolution
C-108	RPP-22393, Rev. 7	Complete	Modified Sluicing	Chemical Retrieval Process complete per 13-TF-0025	-
C-109	RPP-21895, Rev. 5	Complete	Modified Sluicing	Chemical Retrieval Process complete per 13-TF-0037	-
C-110	RPP-33116, Rev. 3	Complete	Modified Sluicing	Mechanical Waste Conditioning with an In-Tank Vehicle	High Pressure Water
C-111	RPP-37739, Rev. 2	Complete	Modified Sluicing	High pressure water using the ERSS	Chemical Dissolution Process with ERSS
C-112	RPP-22393, Rev. 7	Complete	Modified Sluicing	Chemical Retrieval Process	-

ERSS = Extended Reach Sluicing System.
MARS = Mobile Arm Retrieval System.
S = sluicing.
TWRWP = Tank Waste Retrieval Work Plan.
V = vacuum.

Significant Accomplishments:

None.

Significant Planned Activities in the Next 6 Months:

None.

Issues:

None.

Tank in Appendix H, "Status - Single Shell Waste Retrieval Criteria"**Tank 241-C-106****Significant Past Accomplishments:**

None.

Significant Planned Activities in the Next 6 Months:

Continue U.S. Nuclear Regulatory Commission (NRC) review of the C-106 exception request. A request for additional information was received from the NRC in February 2009.

Issues:

It has been discussed with the NRC that much of the additional information requested is dependent upon development of C Farm residual waste Performance Assessment (PA) and, therefore, cannot be provided until the PA is published.

Tank Retrievals with Individual Milestones**Tank 241-A-103**

M-045-15, Completion of Tank A-103 SST Waste Retrieval, Due: September 30, 2022, Status: On schedule. Change Package M-45-11-04 replaced Tank S-102 with Tank A-103 and changed the milestone completion date for M-045-15 to September 30, 2022.

M-045-15A, Embedded Milestone, Submit a Retrieval Data Report Pursuant to Agreement Appendix I, Due: September 30, 2022, Status: On schedule. Updated with Tank A-103 and due date of September 30, 2022, per Change Package M-45-11-04.

M-045-15D, Embedded Milestone, if appropriate, DOE will request an exception to waste retrieval criteria pursuant to Agreement Appendix H, Due: September 30, 2022, Status: On schedule. Updated with Tank A-103 and due date of September 30, 2022, per Change Package M-45-11-04.

Significant Past Accomplishments:

Change Package M-45-11-04 was signed by ORP and Ecology on April 19, 2011.

No significant planned activities in the next 6 months and no issues for Tank 241-A-103.

Tank 241-S-112

M-045-13, Interim Completion of Tank S-112 SST Waste Retrieval and Closure Demonstration Project, Due: To be determined (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: To be determined, Status: On schedule as part of M-045-84 or M-045-85.

Significant Past Accomplishments:

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

No significant planned activities in the next 6 months and no issues for Tank 241-S-112.