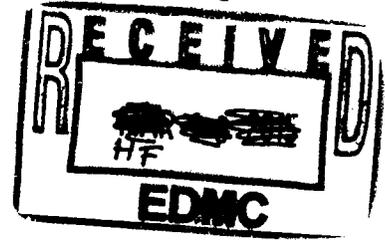


**Office of River Protection  
Tri-Party Agreement Milestone Review  
Meeting Minutes  
May 21, 2015**



Approval: J.A. Hedges by ER. SKINNARLAND Date: 7/23/15  
 J.A. Hedges  
 Ecology/IAMIT Representative

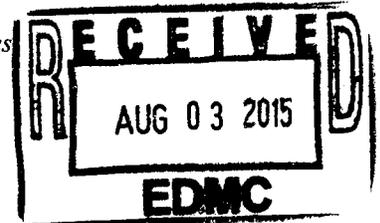
Approval: T.W. Fletcher Date: 7-21-15  
 T.W. Fletcher  
 DOE IAMIT Representative

Approval: D.A. Faulk Date: 8/3/15  
 D.A. Faulk  
 EPA IAMIT Representative

Minutes Prepared by: J.G. Woolard Date: 7/9/15  
 J.G. Woolard  
 Mission Support Alliance

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

\*Attendees



**Office of River Protection  
Tri-Party Agreement Quarterly Milestone Review  
Meeting Minutes  
May 21, 2015**

**Administrative Items/Milestone Status**

ORP noted that several actions have been closed, and the closed actions are carried for about three months and then removed from the list. The following action items were discussed and updated as follows (see agreements, issues, and action items table):

- Action Nos. 2 & 3 (TF-14-06-02/TF-14-02-02) – ORP noted that these two actions are associated with the Waste Management Area C (WMA-C) closure and the Performance Assessment (PA) modeling. These actions remain open.
- Action No. 4 (TF-14-01-01) – ORP reported that a formal letter was sent to Ecology on May 18, 2015, documenting that the hose-in-hose transfer line management plan is now a TPA primary document. The first annual hose-in-hose transfer line report, which was due by the end of May 2015, was included with the formal letter. This action was closed.
- Action No. 5 (TF-13-12-01) – ORP stated that an initial listing of Ecology team members was received. Ecology stated that it will provide an update to the list. This action remains open.
- Action No. 6 (TF-13-02-03) – ORP noted that milestone M-045-82 is to complete the permit modification request for tiers 1, 2, and 3. Ecology stated that this action is associated with the *Resource Conservation and Recovery Act* Facility Investigation/Corrective Measures Study (RFI/CMS) schedule. This action remains open.
- Action No. 8 (TF-15-03-02) – ORP stated that it is ready to schedule a briefing with Ecology to provide additional information on the 242-A Evaporator campaigns. This action remains open.
- Action No. 9 (TF-15-03-03) – ORP noted that the date this action was closed should read 4/20/15 instead of 5/5/15.
- Action No.11 (TF-15-03-05) – ORP reported that approval was received from DOE-Headquarters on May 19, 2015, regarding the Critical Decision 1 package, which includes the conceptual design report associated with the Low-Activity Waste Pretreatment System (LAWPS). ORP stated that the technical white papers were developed as a follow-on to the conceptual design to explain ideas for optimizing the design and to possibly come up with some simplifications to facilitate completion of the permit. ORP noted that all of the documents are labeled official use only (OUO), and an effort is underway to release the conceptual design report from OUO labeling so it can be shared with Ecology, with the goal of completing the effort within the next month.

ORP noted that three milestones were updated under the TPA milestone status on page two of the monthly summary report. Milestone M-045-91F was completed. The due date for M-045-62 was revised to TBD, and a change package was submitted to change the date because the milestone was out of sequence. ORP stated that the M-045-92 milestone series associated with barriers are in dispute, and there will be discussion during the milestone updates later during this meeting and also during the Inter-Agency Management Integration Team (IAMIT) meeting immediately following this meeting.

#### **System Plan; M-62-40**

ORP stated that there were no updates to provide today. Ecology had no questions for ORP on the system plan.

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

ORP stated that milestones M-090-13 and M-047-07 are to provide conceptual design reports and all of the other documents that are detailed in DOE O 413 by March 31, 2016. ORP noted that these milestones are on track.

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

ORP stated that M-062-45ZZ is in dispute, and ORP has been working with Ecology to negotiate a better date for this milestone, and that the negotiation time periods have been extended to June 15, 2015. Ecology stated its intent to have a discussion with ORP in about two weeks. ORP noted that although there are no milestones established yet for LAWPS as part of the Direct Feed LAW (DFLAW) effort, the Critical Decision 1 package, including the conceptual design report, has been completed and approved. ORP stated that the next step is to conduct the preliminary design, and DOE-Headquarters has specified maturing the preliminary design to 90 percent complete by Critical Decision 2. ORP noted that the cost and schedule baseline are normally locked in at Critical Decision 2, and then construction is authorized at Critical Decision 3. ORP stated that the two steps will be combined because at 90 percent design complete, much of the design is 100 percent complete. ORP stated its intent to pursue a combined authorization from DOE-Headquarters to lock in the baseline and to also start construction. ORP stated that in advance of Critical Decision 2/3, there is a step to authorize long-lead procurements so that pieces of equipment can be fabricated that will go in the LAWPS facility. The step to authorize long-lead procurements is called Critical Decision 3A. ORP added that as part of the authorization for Critical Decision 3A, it will be seeking authorization to do site preparation, including leveling the site and digging the holes for the vaults that will be part of the facility.

ORP stated that a productive meeting was recently led by Ecology on the integrated permitting strategy, and the goal is to complete the most important parts of the design as soon as possible so the permitting process can be started. ORP noted that design on specific parts to be permitted will be at least 80 percent complete before submitting the permit application to Ecology, and that authorization to proceed with site preparation may be requested from Ecology prior to completing 80 percent of the design. ORP stated that the tank farm contractor, Washington River Protection Services, is in charge of the LAWPS project, with the design services being provided by corporate URS and EnergySolutions. It is anticipated that these contractors will remain consistent through the next design phase. ORP added that there is a lot of discussion about how to contract for the construction, and that will be addressed in the near future.

## **242-A Evaporator Status**

ORP reported that the first campaign (EC-01) was started after the ammonia monitor was replaced in the stack, and about halfway through the campaign an alarm activated that resulted in the vessel getting dumped back to the tank. It was discovered that there was a stuck feed isolation valve, which is currently being assessed, and the goal is to get back to conducting campaign EC-01 within the next week. ORP stated that the operational issue with the feed isolation valve impacts several other activities, and the critical path activities are being recalculated for the rest of the campaigns. ORP stated that as of yesterday (5/20/15), the EC-01 schedule had slipped 25 days, with a projected completion date of June 7, 2015. Following that, EC-02 would start no earlier than July 5, with a tentative completion date of July 13, and EC-03 would start late September, with an early October completion date.

Ecology inquired about the location of the stuck feed isolation valve. ORP distributed a handout with a diagram of the recirculation system and provided a brief explanation of the operation of the feed isolation valve. ORP stated that when the alarm is activated, the material is sent back to the tank. ORP explained that if the system isn't working for eight minutes, the vessel is dumped back into the tank and the system is flushed in order to maintain a safe condition. Ecology asked if a spare feed isolation valve is available for replacement. ORP responded that there is a spare valve, but the valve is part of the safety significant improvement and has to go through the quality assurance process. ORP offered to meet with Ecology later to provide more specifics on the feed isolation valve.

Oregon Department of Energy (ODOE) inquired about the amount that was treated before the campaign was stopped. ORP responded that the goal was to treat 900,000 gallons, and the EC-01 campaign was about halfway through, reaching approximately 400,000 gallons. ORP noted that the flushing process would create additional waste, and indicated that it did not have the exact figures.

## **Double-Shell Tank System Update**

ORP provided an update regarding AY-102 retrieval. The Waste Retrieval and Transfer System design was completed, consisting of over 300 design drawings, and it has been released. Pit repair work on C and E pits continues, and a pump that was pulled from one of the pits was accepted at the Environmental Restoration Disposal Facility within 90 days. ORP is continuing to track towards the end of January 2016 for readiness for retrieval operations at AY-102, which is currently one to two months ahead of schedule. The work crew is mobilizing to construct the transfer route of the hose-in-hose and working some issues to get it completed. ORP stated that it is still planning for the installation of the standard sluicers by August 2015 to be used for the first retrieval technology.

## **SST Integrity Assurance; M-45-91**

ORP noted that M-045-91F was completed, which summarized all of the leak integrity work that has been done under this milestone series. ORP reported that all of the work under M-045-91G was completed, and Ecology was provided a briefing on the summary report, which will be delivered in the next month. ORP stated that M-045-91H was a placeholder for developing any additional milestones, if needed. Based on the work that has been completed under 91F and 91G, ORP will not be proposing any additional integrity milestones, and it considers 91H closed.

ORP noted that a meeting was held with Ecology in March 2015 to discuss 91H. ORP proposed removing the completed milestones from the TPA monthly summary and just carrying milestone M-045-91I. Ecology agreed with ORP's proposal to remove the completed milestones.

### **In-Tank Characterization and Summary**

ORP stated that the project representative is out on detail until July 2015, and asked if Ecology had any questions to take back. Ecology responded that it had no questions.

### **Tank Operations Contract (TOC) Overview**

ORP noted that the cost and schedule variances are listed in the TOC overview, and the overview is always two months behind because that is when the information is received. Ecology indicated that there were no questions on the TOC overview.

### **Single-Shell Tank (SST) Corrective Action; Milestone M-45, -50, -60**

ORP noted that the M-045-22 series for TX, U, and SX Farms have been completed and suggested removing them from the TPA monthly summary. Ecology agreed that the milestones could be removed from the summary. ORP stated that M-045-61 to submit a draft RFI was completed December 2014, and the milestone could be removed from the TPA monthly summary. ORP added that monthly meetings are being held with Ecology to address Ecology's comments on the draft RFI. ORP noted that M-045-61, which is the finalization of the RFI, is due in December 2016. ORP noted that the date for M-045-62 was adjusted because the CMS implementation will follow the RFI/CMS submittal in December 2016.

ORP noted that there is no milestone for the WMA-C PA, but the PA feeds into M-045-62 and M-045-61A and will be an integral part of those documents. ORP stated that a meeting is scheduled with Ecology on June 2, 2015, to address some of Ecology's concerns with the hydraulic and soil parameters pertaining to the WMA-C PA. ORP added that Ecology requested information on the base case and the sensitivity analysis that will be done for modeling purposes in the WMA-C PA. Ecology requested that ORP add groundwater flow rates in the hydraulic parameters if that has not been included.

ORP reported that it has been working with Ecology on milestone M-045-92 regarding interim barriers, and two meetings have been held with Ecology. ORP indicated that agreement was reached to invoke force majeure, and that Ecology was going to discuss internally with management about how to proceed regarding change control package M-45-15-01. ORP stated that it initially submitted the change control package at the end of March 2015, and a decision is needed about whether to update the change package or provide a Rev. 1 or another option. ORP added that it needs to show that the requested funding versus the funds that were appropriated were not adequate to complete the interim surface barrier construction in SX Farm. Ecology stated that it will discuss the issue internally tomorrow and follow up with ORP next week. ORP noted that this subject will be discussed further during the IAMIT after this meeting.

### **M-45-00 Series:**

SST Retrieval and Closure Program TPA – ORP reported that the retrieval data reports are being prepared for tanks C-101, C-107, and C-112. ORP stated that a meeting was held with Ecology to discuss C-101, and the minutes from the meeting were submitted to the Administrative Record.

Tank Waste Retrieval Work Plan (TWRWP) Status – ORP stated that it continues to work with Ecology on drafting the AX Farm TWRWP.

Tank in Appendix H Status – Single-Shell Waste Retrieval Criteria – ORP stated that it proposed to Ecology to discontinue tracking this information because it is over four years old. ORP noted that the most recent activity occurred in 2011.

Tank Retrievals with Individual Milestones – ORP stated that it proposed to Ecology to discontinue tracking this information because it is over four years old.

SST Retrieval and Closure Consent Decree (CD) Milestones and TWRWP Status; D-00B Series:

ORP reported that C-102 retrieval has been completed to the limit of technology, and a package will be submitted to Ecology requesting to forego a third technology. ORP stated that the slurry distributor was replaced in DST AN-106, in support of waste retrieval in C-105, and retrieval operations will be restarted this month using the MARS-V and high-pressure water. ORP reported that C-111 is still tracking to restart retrieval operations in August 2015, and the slurry pump is being fabricated to replace the failed slurry pump.

TWRWP Status – The CD TWRWP status is identical to status in the TPA monthly summary report.

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

**WTP Project**

ORP noted that action No. 6 (WTP-14-10-06) was closed. Regarding action No. 2 (WTP-14-10-02), Ecology stated its understanding that a contract line item has been issued and that ORP will start looking at Balance of Facilities (BOF) isolations in support of DFLAW. ORP responded that a business clearance review by DOE-Headquarters is needed before the line item can be issued, and the information has not been submitted for review, although it getting closer to being submitted. ORP stated that there was no change to report on the other action items. The ORP acting deputy assistant manager for the WTP Project was introduced and has been on the project since the end of January 2015.

ORP noted that the number of employees has changed in the last quarter, which is reported in today's CD monthly summary. ORP stated that the WTP Project has still been focusing on its priority for DFLAW, and there have been a few contract changes to be able to outline a plan for DFLAW (see discussion under action No. 2). ORP added that discussions are still ongoing regarding the proposal submitted by Bechtel, and there are a few more steps before the development of a new baseline can be initiated. ORP indicated that updates regarding the contract baseline will continue to be provided to Ecology over the next several months. ORP noted that there was very little change in the cost and schedule variances since last month.

Significant Planned Actions in the Next 6 Months – ORP stated that the LAW Facility design and operability review is still being discussed, and when it is completed a status will be provided. Ecology asked if ORP would be able to send the design and operability review to Ecology. *ORP responded that it would follow up on Ecology's request.*

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

ORP stated that the first two paragraphs in today's CD monthly summary have changed very

little since last month's report. ORP noted that the bullets under significant past accomplishments describe the progress being made on the technical issue resolution.

Significant Planned Actions in the Next 6 Months – ORP referred to the fourth bullet in the CD monthly summary and stated that progress is being made towards the criticality safety evaluation report. ORP noted that the remaining bullets pertain to the technical issue resolution efforts.

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

ORP reported that some high-efficiency particulate air (HEPA) filters have been selected for testing at Mississippi State University (MSU), and the activity will continue over this summer. ORP stated that a trip is planned in September 2015 to observe the progress with the HEPA filter testing at MSU. ORP stated that in addition to MSU's HEPA filter testing, a different model is being used, called Ash 3D, that will be used to help consider how well the filters will perform with entrainment, or a lot of material that might build up on the HEPA filter and then cause the ventilation system to not perform well. ORP noted that the Ash 3D testing is in response to comments from the Defense Nuclear Facilities Safety Board (DNFSB) regarding volcanic ash. ORP stated that the Ash 3D program was developed in England in response to a volcanic eruption in Iceland that occurred about four years ago, which disrupted air travel. England worked with the National Oceanic Atmospheric Agency to develop the Ash 3D program. Ecology noted that as a result of the Iceland volcano, new calculations were developed, and the DNFSB expressed concern because the new calculations indicate the likelihood of almost a two-fold increase in ash deposit over the original design. Ecology added that the use of the Ash 3D program is to determine whether or not there is sufficient margin and whether or not something different is needed. ODOE asked if there was a timeline for any changes that might be needed. ORP responded that the funding was just received for the Ash 3D program modeling, and that a timeline was not known at this time. *ORP took an action to follow up and provide a response to ODOE's inquiry regarding a timeline for incorporating any changes needed for the HEPA filters due to volcanic ashfall.* ORP pointed out that selection of a HEPA filter for HLW is still under development, and the work with the Ash 3D program will be done in parallel with the HEPA filter testing and selection. ORP added that it is not known at this point what impact the work with the Ash 3D program would have on the development of the HEPA filter or HLW.

ORP reported that an outside consultant was hired to model Bechtel's design for the HLW Facility's ventilation, and the consultant's modeling is being used as a verification step. ORP stated that the consultant is entering the same design data into a different software program to determine how it performs, and so far it has been performing just as well.

Significant Planned Actions in the Next 6 Months – Ecology referred to the last bullet regarding operational research modeling of the waste, melter, and melter cave support handling systems, noting that these subjects came under scrutiny during the design and operability review. Ecology expressed an interest in the results of the models in order to have a sense of how the configuration could move forward as it currently exists or whether a significant reconfiguration will be needed. ORP responded that it would follow up on Ecology's request for the modeling results when they are completed.

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

Significant Past Accomplishments – ORP noted that the repairs to the wet electrostatic

precipitators (WESP) vessels 1 and 2 were completed, and one of the WESP vessels has been installed.

Significant Planned Actions in the Next 6 Months – ORP indicated that the LAW design and operability review is still under way and should be completed soon. Ecology inquired about a potential schedule for the melter lids. *ORP took an action to provide Ecology a status on the melter lids during the next project managers meeting.*

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

ORP stated that a lot of progress has been made at BOF. Ecology stated that as BOF moves forward, it would be helpful to understand how many of the BOF isolation components for DFLAW would be permit-affected because changes will be needed in permitting. Ecology added that the same comment applies to the LAB. *ORP responded that it would follow up with Ecology's request about the effect on permitting for BOF and LAB.*

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

Significant Planned Actions in the Next 6 Months – ORP stated that the LAB will be getting to a point where construction will be completed to support DFLAW and to receive samples from the LAW Facility, but the hot cells in that part of the facility will not be available until needed for the HLW and PT samples. ORP noted that a program decision was made to wait until closer to the time that the HLW technical issue resolution and construction has been completed before procuring and installing the sampling equipment for the hot cells. The decision was made in order to have the most up-to-date technology and equipment. Ecology stated that the decision made sense, due to the delicate instrumentation and calibration requirements for the methods analysis.

Ecology inquired about ongoing preventative maintenance that is needed while waiting for the sampling equipment. ORP responded that part of the LAB startup strategy will involve its nuclear safety basis, and when LAB is operational, including the hot cells, it will be a hazard category 3 (HazCat 3) nuclear facility. ORP noted that without the hot cells, LAB does not need to be categorized as a HazCat 3 facility and that it could be considered a radiological facility, but there will be maintenance requirements with either of those options. ORP indicated that it is still assessing the options, and pros and cons of licensing. ORP noted that licensing the facility as a HazCat 3 nuclear facility at design completion may have advantages over waiting several years as some redesign could be required later to obtain the license. ORP stated that either path will be successful, and either one will have risks. ORP added that either path will require operational readiness reviews, and maintaining the facility, including maintaining the equipment that has been installed to ensure it will operate as expected in ~ten years.





**Agenda**  
**May 21, 2015**  
**Office of River Protection Quarterly Milestone Review Meeting**  
Ecology Offices, Conference Room 3A/B  
**Chairperson: Tom Fletcher**

<b>Topic</b>	<b>Leads</b>	<b>Time</b>
Administrative Items / Milestone Status / ORP Key Documents List	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	Paul Hernandez / Jeff Lyon	8:50
SST Integrity Assurance; M-45-91, Double Shell Tank System Update	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	Joni Grindstaff / Dan McDonald	9:20
WTP Pretreatment (PT) Facility; D-00A-13, -14, -15, -16, -19	Joni Grindstaff / Dan McDonald	
WTP High-Level Waste (HLW) Facility; D-00A-02, -03, -04, -21	Joni Grindstaff / Dan McDonald	
WTP Low-Activity Waste (LAW) Facility; D-00A-07, -08, -09	Joni Grindstaff / Dan McDonald	
WTP Analytical Laboratory (LAB); D-00A-05	Joni Grindstaff / Dan McDonald	
WTP Balance of Facilities (BOF); D-00A-12		10:00

FINAL

Office of River Protection  
Consent Decree 08-5085-FVS

Monthly Summary Report

May 2015

**Office of River Protection****Consent Decree 08-5085-FVS  
Monthly Summary Report****May 2015 (Monthly Summary Report/Project Earned Value Management System reflects  
March 2015 information)**

<b>Page</b>	<b>Topic</b>	<b>Leads</b>
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
<b>Fiscal Year 2014</b>				
D-00B-01	Complete Retrieval of Tank Waste from 10 SSTs in WMA-C	09/30/2014		Past Due
D-00B-02	Advise Ecology of the Nine SSTs Waste will be Retrieved by 2022	09/30/2014	08/24/2011	Completed
<b>Fiscal Year 2015</b>				
D-00A-07	LAW Facility Construction Substantially Complete	12/31/2014		Past Due
D-00A-19	Complete elevation 98 feet Concrete Floor Slab Placements in PT Facility	12/31/2014		Past Due

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 January 2015 Semiannual Report was issued on January 29, 2015, via U.S. Department of Energy (DOE), Office of River Protection (ORP) letter 15-ECD-0006.

**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	Past Due
D-00B-01A through D-00B-01J	Submit Tank Retrieval Complete Certification	One year following each retrieved tank retrieval completion report <sup>a</sup>	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, the 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:

- Continued retrieval operations at C-102, initiated high pressure water operations, in conjunction with Modified Sluicing. Sluicer #1 has a leak in the supernate line within the sluicer box, this line has been isolated for use with supernate flow.
- Completed field activities for the replacement of the plugged slurry distributor at AN-106.
- Hose-in-hose transfer line replacement between POR209 and POR104 transfer structures is ongoing. Connection of the new hose-in-hose transfer lines at POR209 and POR104 are complete. Leak check of these connections was completed satisfactorily and done concurrently with the leak check of the new slurry distributor.
- Continued fabrication of new replacement sluicers for C-111. One of the two new sluicers has been delivered to WRPS.
- Continued with activities to replace the failed C-111 slurry pump. The work package for removal of the failed pump is in development.

### Significant Planned Activities in the Next 6 Months:

- Complete retrieval C-102 using second technology.

- 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 (MARS-V)
- 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	Complete	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:**

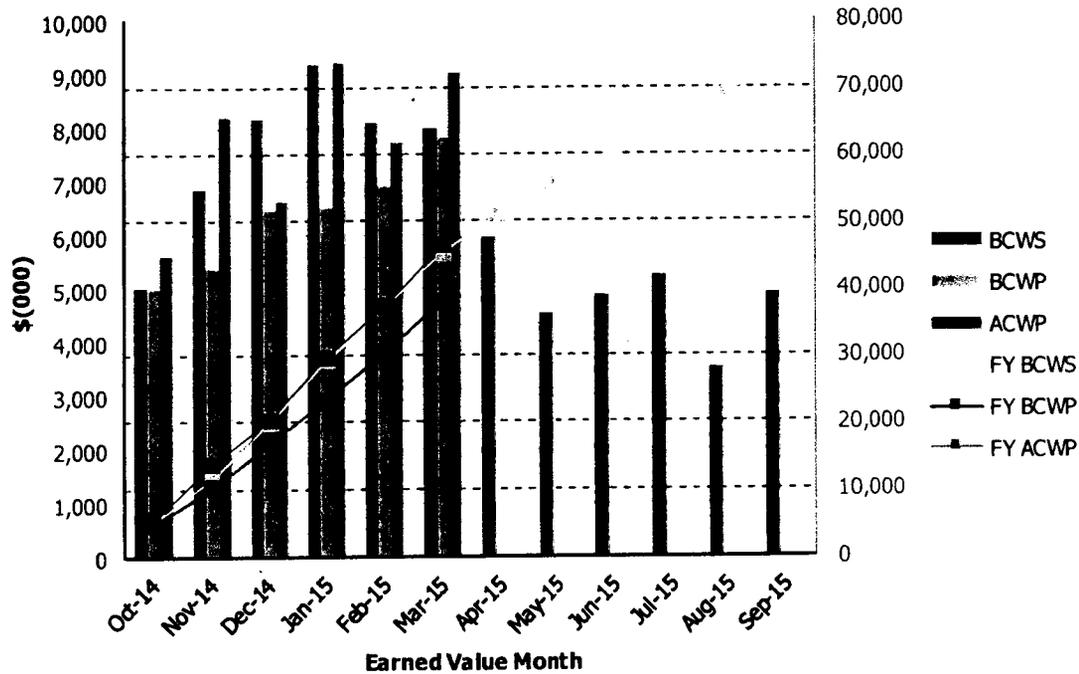
Develop AX Farm tank waste retrieval work plans.

**Issues:**

None.

**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 2014	\$5,024	\$5,011	\$5,609	1.00	0.89	\$5,024	\$5,011	\$5,609	1.00	0.89
Nov 2014	\$6,852	\$5,392	\$8,174	0.79	0.66	\$11,876	\$10,403	\$13,783	0.88	0.75
Dec 2014	\$8,171	\$6,453	\$6,612	0.79	0.98	\$20,047	\$16,856	\$20,395	0.84	0.83
Jan 2015	\$9,167	\$6,524	\$9,195	0.71	0.71	\$29,215	\$23,380	\$29,589	0.80	0.79
Feb 2015	\$8,075	\$6,924	\$7,719	0.86	0.90	\$37,290	\$30,304	\$37,309	0.81	0.81
Mar 2015	\$7,971	\$7,801	\$9,009	0.98	0.87	\$45,261	\$38,105	\$46,318	0.84	0.82
Apr 2015	\$5,926					\$51,186				
May 2015	\$4,509					\$55,695				
Jun 2015	\$4,852					\$60,547				
Jul 2015	\$5,238					\$65,785				
Aug 2015	\$3,527					\$69,312				
Sep 2015	\$4,886					\$74,198				
CTD	\$550,760	\$533,522	\$555,661	0.97	0.96					

***Retrieval and Close Single-Shell Tanks***

The current month unfavorable cost variance (CV) of (\$1,208K) is due to:

- Challenges installing the new Extended Reach Sluicer #2 within riser #7 at C-102 taking longer than planned.

The current month unfavorable schedule variance (SV) of (\$170K) is due to:

- Waste retrieved from C-102 during March was limited due to the replacement of the AN-106 Slurry Distributor.

## 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 2,829 full-time equivalent contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel. This includes 580 craft, 416 non-manual, and 145 subcontractor full-time equivalent personnel working at the WTP construction site (all facilities).

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. ORP has approved the fiscal year (FY) 2015 and FY 2016 2-Year Interim Work Plan, and authorized BNI to resume production engineering activities necessary to finalize the design of the HLW Facility. The WTP Project continues to focus on resolving PT Facility technical issues, performing hazard analyses, and completing safety evaluations for process systems. The HLW safety design strategy has been approved by ORP and limited construction is ongoing.

The WTP Project continues to focus on completion of the Low-Activity Waste (LAW) Facility, analytical laboratory (LAB), and Balance of Facilities (BOF) (collectively LBL). As of March 2015, LBL facilities were 67 percent complete, design and engineering was 79 percent complete, procurement was 76 percent complete, construction was 82 percent complete, and startup and commissioning was 15 percent complete.

In March 2015, the cumulative to-date WTP Project schedule variance was a positive \$1 million, and the cumulative to-date WTP Project cost variance was a positive \$37.7 million. The major contribution to the cumulative to-date cost and schedule variance is based on the progress of the LBL re-plan and PT/HLW 2-Year Interim Work Plan.

The following is the project status through the end of March 2015.

### Significant Past Accomplishments:

- Completed and received approval of the PT Facility 3-year work plan control account plans (PT)
- Issued PT – Ultrafiltration Process System HLP / PWD criticality hazard assessment report (PT)
- Completed two concrete placements (walls 3125, 3114) (HLW)
- Installed 18 tons of structural steel (HLW)
- Completed installation of crane rails and supports in the canister handling cave (HLW)

- Wet Electrostatic Precipitator (WESP) 1 and 2 repairs complete (LAW)
- Installed over 330 linear feet of conduit and pulled approximately 11,260 linear feet of cable (LAW)

**Significant Planned Actions in the Next 6 Months:**

- Complete modification at Full-Scale Vessel Testing Facility to support Phase 2 testing for the pulse-jet mixer (PJM) controls (PT)
- Submit the Radioactive Liquid Waste Disposal (RLD) Safety Basis Change Package for DOE review (HLW)
- Complete the LAW Facility design and operability review
- Receive caustic scrubber (LAW)
- Finalize Standard High Solids Vessels Design vessel testing planning, test specification/plan, and define simulate and supplemental mixing engineering study (PT)
- Begin LAB system walk downs in support of direct feed LAW modifications (LAB)
- Install nonradioactive liquid waste disposal system motor control panel (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.

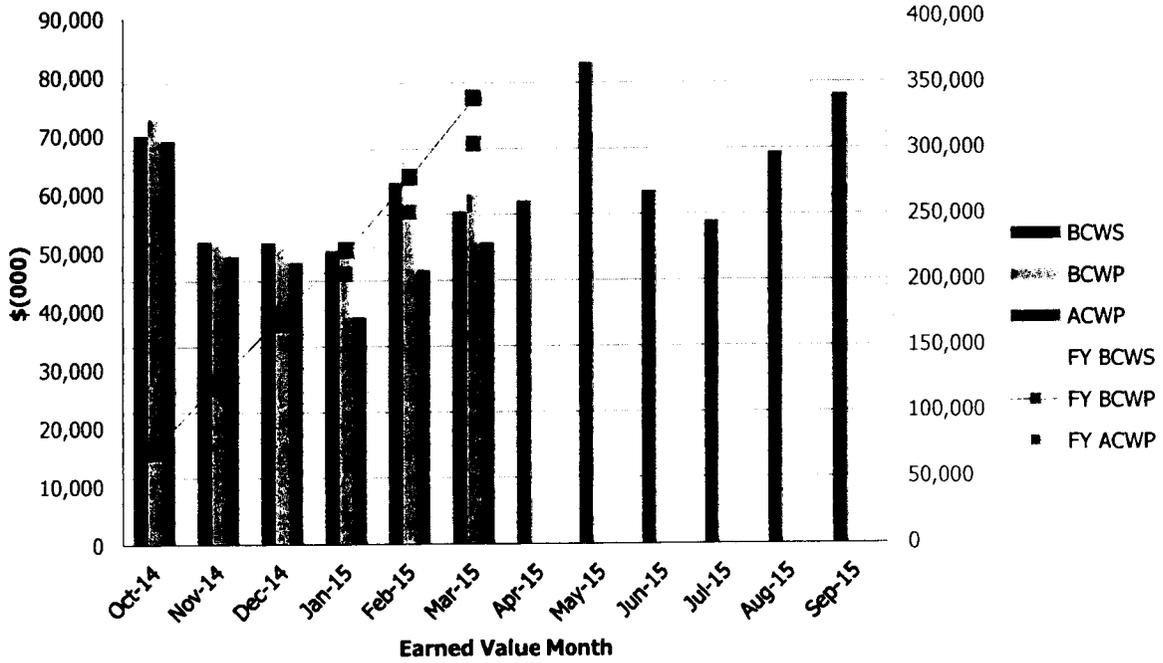
**EXC-01a: Fiscal Year Cost and Schedule Report**

Data Set: FY 2015 Earned Value Data

Data as of: March 2015

**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 2014	\$69,893	\$72,879	\$69,039	1.04	1.06	\$69,893	\$72,879	\$69,039	1.04	1.06
Nov 2014	\$51,713	\$51,323	\$49,300	0.99	1.04	\$121,606	\$124,202	\$118,339	1.02	1.05
Dec 2014	\$51,573	\$50,885	\$48,245	0.99	1.05	\$173,179	\$175,087	\$166,583	1.01	1.05
Jan 2015	\$50,143	\$48,696	\$38,818	0.97	1.25	\$223,323	\$223,783	\$205,401	1.00	1.09
Feb 2015	\$61,729	\$55,235	\$46,859	0.89	1.18	\$285,052	\$279,018	\$252,260	0.98	1.11
Mar 2015	\$56,799	\$59,925	\$51,563	1.06	1.16	\$341,850	\$338,942	\$303,823	0.99	1.12
Apr 2015	\$58,602									
May 2015	\$82,171									
Jun 2015	\$60,278									
Jul 2015	\$55,078									
Aug 2015	\$66,789									
Sep 2015	\$76,709									
PTD	\$8,713,330	\$8,714,281	\$8,676,608	1.00	1.00					

## Pretreatment Facility

Number	Title	Due Date	Status
D-00A-19	Complete Elevation 98' Concrete Floor Slab in PT Facility	12/31/2014	Past Due
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 revised PT Facility 3-year work plan.

BNI has submitted resolution plans for eight technical issues: T1, Hydrogen in Vessels; T2, Criticality; T3, Hydrogen in Piping and Ancillary Vessels (HPAV); T4, Mixing; T5, Erosion Corrosion; T6, PT Facility Optimization; T7, Vessel Analysis; and T8, Ventilation. Phase 1 of the Full-Scale Vessel Testing 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.

### Significant Past Accomplishments:

- Completed and received approval of the PT Facility 3-year work plan control account plans (CAPS)
- Issued draft volume 1 – PTF design concepts for Standard High Solids Vessels
- Completed vessel hydrogen draft calculations
- Completed Standard High Solids Vessels Design test spec. / plan Rev. 0
- Issued PT – Ultrafiltration Process System HLP / PWD criticality hazard assessment report (Heavy Pu)
- Completed five G2 model runs in support to early decision on conceptual design per PT Facility optimization plan
- Completed simulant solids characterization analysis
- Completed PA 2, 3, 4 conceptual piping

**Significant Planned Actions in the Next 6 Months:**

- Commission Phase 2 test specification/plan and platform modifications
- Finalize Standard High Solids Vessels Design vessel testing planning, test specification/plan, and define simulate and supplemental mixing engineering study
- Issue criticality safety evaluation report on informal study for the evaluation of qualitative risk assessment input parameters to be included in the PT Facility safety basis
- Issue criticality safety evaluation report (CSER) strategy and development plan
- Implement PT Facility systems engineering approach
- Issue fluid dynamics study
- Start informational testing in 8-ft test vessel for down selection of features pertaining to standardized high-solids vessel design
- Complete preliminary analysis of Standard High Solids Vessels Design
- Commission Phase 2 platform modifications
- Issue technical basis to support hold points 1 and 2
- Issue corrosion simulant basis document for localized corrosion

**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.

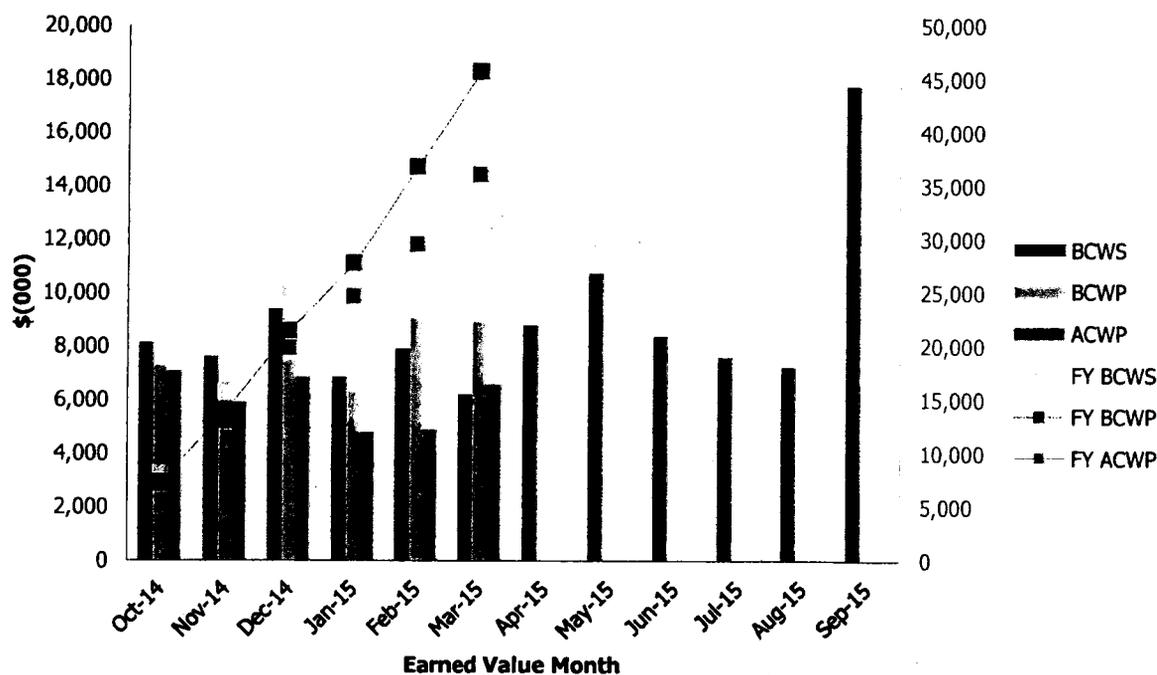
### EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2015 Earned Value Data

Data as of: March 2015

**River Protection Project  
Pretreatment Facility (WBS 1.01)**

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 2014	\$8,100	\$7,285	\$7,050	0.90	1.03	\$8,100	\$7,285	\$7,050	0.90	1.03
Nov 2014	\$7,582	\$6,657	\$5,917	0.88	1.13	\$15,682	\$13,942	\$12,967	0.89	1.08
Dec 2014	\$9,361	\$7,472	\$6,841	0.80	1.09	\$25,043	\$21,414	\$19,808	0.86	1.08
Jan 2015	\$6,819	\$6,293	\$4,765	0.92	1.32	\$31,862	\$27,707	\$24,574	0.87	1.13
Feb 2015	\$7,877	\$9,034	\$4,869	1.15	1.86	\$39,740	\$36,742	\$29,442	0.92	1.25
Mar 2015	\$6,180	\$8,917	\$6,567	1.44	1.36	\$45,920	\$45,659	\$36,009	0.99	1.27
Apr 2015	\$8,770									
May 2015	\$10,702									
Jun 2015	\$8,349									
Jul 2015	\$7,574									
Aug 2015	\$7,203									
Sep 2015	\$17,732									
PTD	\$1,652,591	\$1,652,278	\$1,642,636	1.00	1.01					

## 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 shipping 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 concrete placements, installation of support steel, and crane rails in the canister decontamination cave.

To support construction, BNI Engineering continues to execute detailed evaluations to release wall and slab placements and installation of HVAC, fire protection, process piping, and electrical commodities. Engineering also continues to review vendor documentation to support receipt and future installation of auto-sampler system (ASX) units. DOE and BNI are finalizing ventilation and off-gas system filter test plans for Phase 1, iteration 2 testing.

BNI is focused on design maturity of key systems through the development of System Design Descriptions (SDD) in accordance with the Systems Engineering Management Plan. Design is progressing for RLD vessels 7 and 8. Proposals for RLD-8 detailed vendor design has been received and are being evaluated. Work also continues on hazards analysis and engineering studies to develop paths forward for resolution of issues regarding the HVAC (heating, ventilation, and air-conditioning) systems, melters, and solid waste handling systems.

### Significant Past Accomplishments:

- Issued one SDD this month for a total of 12
- Continued development of path forward of MSU Phase 1, Iteration 2 HEPA filter test plan
- RLD Safety Basis Change Package is prepared and undergoing BNI Interdiscipline review
- Received proposals for vendor design of RLD-8 vessel

- Completed two concrete placements (walls 3125, 3114)
- Installed 18 tons of structural steel
- Completed installation of crane rails and supports in the canister handling cave
- Vendor fabrication of ASX units 29/42 completed

**Significant Planned Actions in the Next 6 Months:**

- Submit the RLD Safety Basis Change Package for DOE review
- Initiate improved Nuclear Safety/Engineering analysis process
- Perform vendor documentation reviews in preparation for the installation of ASX framing
- Evaluate ASX installation plan for impact to the Washington State Department of Ecology permit
- Continue installation of crane rails and supports in the canister decontamination cave
- Issue remaining outstanding SDDs
- Finalize and begin execution of MSU Phase 1, Iteration 2 HEPA filter test plan
- Initiate operational research modeling of waste, melter, and melter cave support handling systems

**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.

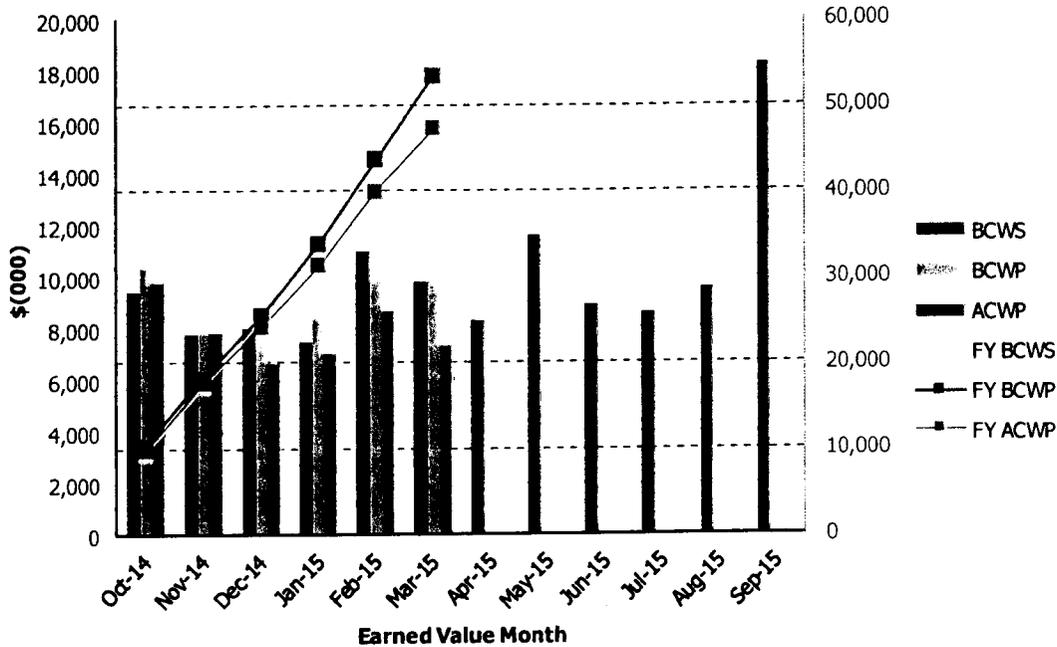
**EXC-01a: Fiscal Year Cost and Schedule Report**

Data Set: FY 2015 Earned Value Data

Data as of: March 2015

**River Protection Project  
High-Level Waste Facility (WBS 1.03)**

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 2014	\$9,449	\$10,367	\$9,783	1.10	1.06	\$9,449	\$10,367	\$9,783	1.10	1.06
Nov 2014	\$7,743	\$7,833	\$7,880	1.01	0.99	\$17,192	\$18,200	\$17,663	1.06	1.03
Dec 2014	\$7,973	\$7,359	\$6,631	0.92	1.11	\$25,165	\$25,559	\$24,294	1.02	1.05
Jan 2015	\$7,490	\$8,342	\$6,994	1.11	1.19	\$32,655	\$33,901	\$31,288	1.04	1.08
Feb 2015	\$10,995	\$9,796	\$8,662	0.89	1.13	\$43,650	\$43,698	\$39,949	1.00	1.09
Mar 2015	\$9,792	\$9,760	\$7,295	1.00	1.34	\$53,442	\$53,458	\$47,244	1.00	1.13
Apr 2015	\$8,285									
May 2015	\$11,568									
Jun 2015	\$8,892									
Jul 2015	\$8,570									
Aug 2015	\$9,557									
Sep 2015	\$18,221									

PTD \$1,107,555 \$1,107,829 \$1,101,305 1.00 1.01

Mon - SV	Mon - CV
(\$32)	\$2,465
\$273	\$6,523

FY - SV	FY - CV
\$15	\$6,214

## Low-Activity Waste Facility

Number	Title	Due Date	Status
D-00A-07	LAW Facility Construction Substantially Complete	12/31/2014	Past Due
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 LAW 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 March 2015, the LAW Facility was 70 percent complete overall, with engineering design 81 percent complete, procurement 77 percent complete, construction 79 percent complete, and startup and commissioning 10 percent complete.

### Significant Past Accomplishments:

- Submitted Thermal Catalytic Oxidizer (TCO) ANSYS Simulation Software calculation and supporting documentation to Independent Qualified Registered Professional Engineer (IQRPE) for review
- Wet Electrostatic Precipitator (WESP) 1 and 2 repairs complete
- Continued installation of insulation on the process piping on elevation +48-foot level and installed 163 valve blankets
- Installed over 170 linear feet of process piping and hydro-tested 250 linear feet of piping
- Installed over 330 linear feet of conduit and pulled approximately 11,260 linear feet of cable

### Significant Planned Actions in the Next 6 Months:

- Complete subcontractor work scope in the annex
- Complete the LAW Facility design and operability review
- Receive caustic scrubber
- Assemble and install wet electrostatic precipitator internals

### 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.

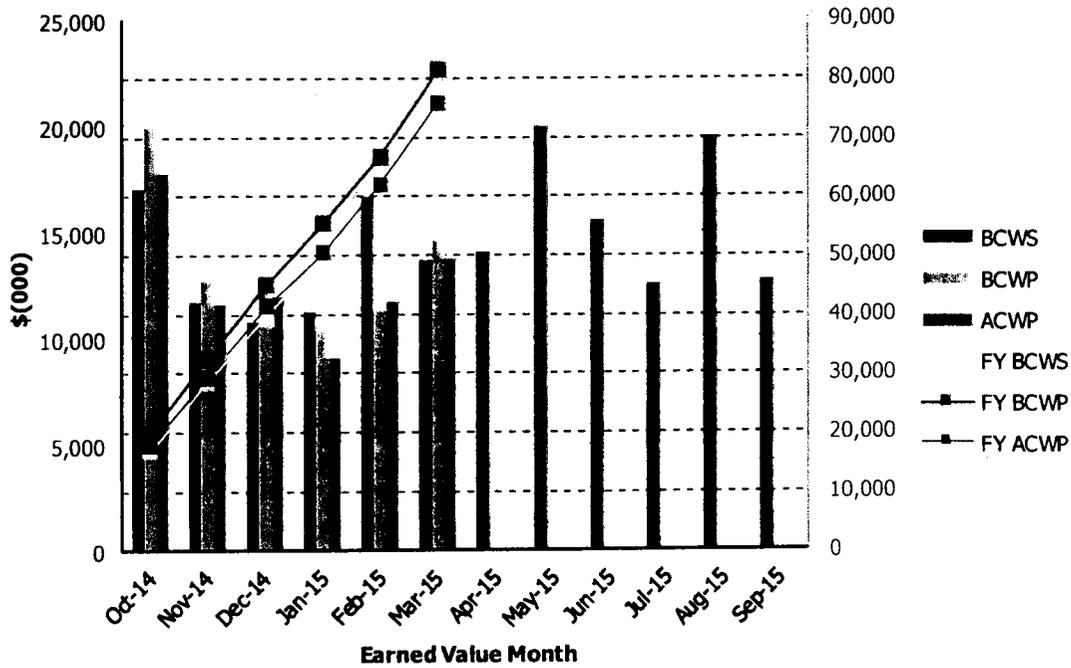
### EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2015 Earned Value Data

Data as of: March 2015

**River Protection Project  
Low-Activity Waste Facility (WBS 1.02)**

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 2014	\$16,994	\$19,896	\$17,781	1.17	1.12	\$16,994	\$19,896	\$17,781	1.17	1.12
Nov 2014	\$11,700	\$12,666	\$11,597	1.08	1.09	\$28,694	\$32,562	\$29,378	1.13	1.11
Dec 2014	\$10,760	\$12,499	\$11,927	1.16	1.05	\$39,454	\$45,061	\$41,305	1.14	1.09
Jan 2015	\$11,248	\$10,387	\$9,033	0.92	1.15	\$50,702	\$55,448	\$50,338	1.09	1.10
Feb 2015	\$16,654	\$11,341	\$11,676	0.68	0.97	\$67,356	\$66,789	\$62,014	0.99	1.08
Mar 2015	\$13,681	\$14,539	\$13,778	1.06	1.06	\$81,037	\$81,329	\$75,792	1.00	1.07
Apr 2015	\$14,011									
May 2015	\$19,920									
Jun 2015	\$15,527									
Jul 2015	\$12,492									
Aug 2015	\$19,434									
Sep 2015	\$12,689									

PTD \$1,055,231 \$1,058,329 \$1,053,960 1.00 1.00

## 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 March 2015, BOF was 61 percent complete overall, with engineering design 78 percent complete, procurement 77 percent complete, construction 84 percent complete, and startup and commissioning 16 percent complete.

BNI has initiated design activities to incorporate a permanent capability to directly feed LAW. Engineering activities are in progress to develop the preliminary design for BOF systems in support of direct feed LAW. Construction efforts are focused on the Standby Diesel Generator Facility, Steam Plant piping, and the nonradioactive liquid drain (54) facility.

### Significant Past Accomplishments:

- Continued coatings applications for Steam Plant piping
- Installed 1,617 linear feet of pipe insulation in the Steam Plant
- Installed over 500 linear feet of conduit and pulled approximately 2,980 linear feet of cable

### Significant Planned Actions in the Next 6 Months:

- Complete heat trace insulation in the Cooling Tower Facility
- Complete heat trace insulation in the water treatment building
- Receive and install 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.

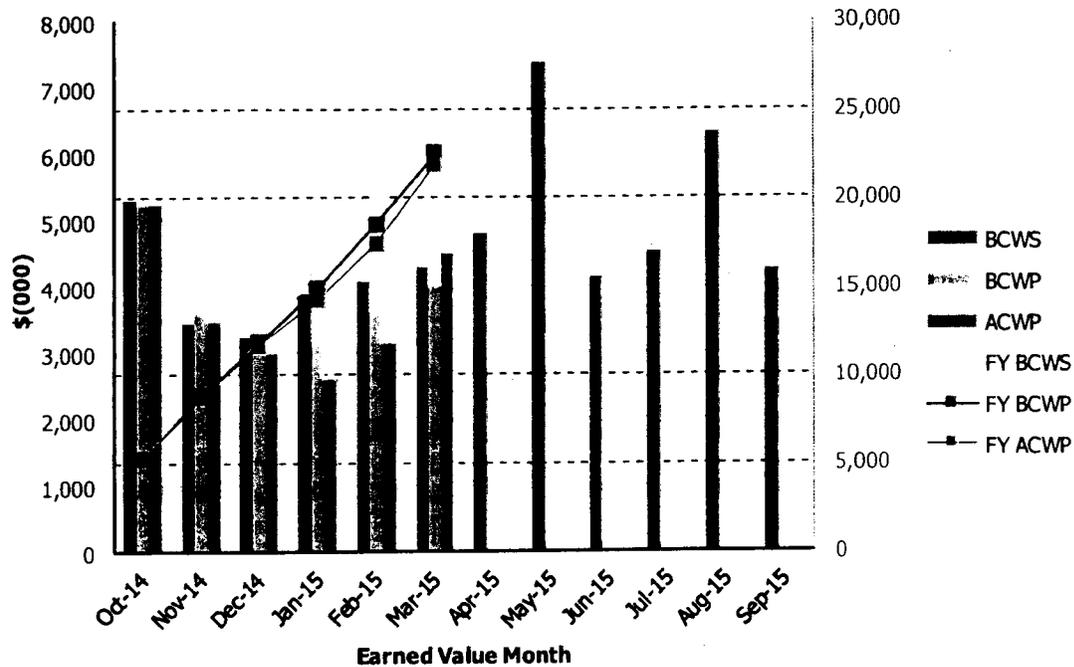
### EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2015 Earned Value Data

Data as of: March 2015

**River Protection Project**  
**Balance of Facilities (WBS 1.05)**

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 2014	\$5,300	\$5,238	\$5,223	0.99	1.00	\$5,300	\$5,238	\$5,223	0.99	1.00
Nov 2014	\$3,429	\$3,578	\$3,454	1.04	1.04	\$8,729	\$8,816	\$8,677	1.01	1.02
Dec 2014	\$3,240	\$3,023	\$2,976	0.93	1.02	\$11,969	\$11,839	\$11,653	0.99	1.02
Jan 2015	\$3,885	\$3,098	\$2,584	0.80	1.20	\$15,854	\$14,937	\$14,237	0.94	1.05
Feb 2015	\$4,074	\$3,578	\$3,151	0.88	1.14	\$19,928	\$18,515	\$17,388	0.93	1.06
Mar 2015	\$4,270	\$4,016	\$4,491	0.94	0.89	\$24,198	\$22,531	\$21,879	0.93	1.03
Apr 2015	\$4,799									
May 2015	\$7,347									
Jun 2015	\$4,115									
Jul 2015	\$4,529									
Aug 2015	\$6,319									
Sep 2015	\$4,246									
<b>PTD</b>	<b>\$370,865</b>	<b>\$369,630</b>	<b>\$369,009</b>	<b>1.00</b>	<b>1.00</b>					

## 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 March 2015, the LAB was 77 percent complete overall, with engineering design 82 percent complete, procurement 87 percent complete, construction 94 percent complete, and startup and commissioning 23 percent complete.

During this reporting period engineering efforts are focused on LAB system reviews to evaluate potential modifications or isolations in support of directly feeding LAW. Closure of nonconformance reports and construction deficiency reports continued. Construction efforts within the LAB construction will soon be suspended. The remaining construction work scope will be completed in parallel with system modifications and construction activities required to support the direct feeding of LAW.

### Significant Past Accomplishments:

- Continued cable pulls and terminations (580 linear feet in March - 95% complete)
- Continued installation of conduit (490 linear feet in March – 99% complete)
- Subcontractor installed/adjusted 12 lateral restraints in accordance with Uniform Building Code flooding requirements and completed 3 new seals (2 conduit and 1 ground wire)

### Significant Planned Actions in the Next 6 Months:

- Place LAB construction punch list activities on hold
- Initiate component level testing of select LAB systems
- Begin LAB system walk downs in support of direct feed LAW modifications

### Issues:

No major issues at this time.

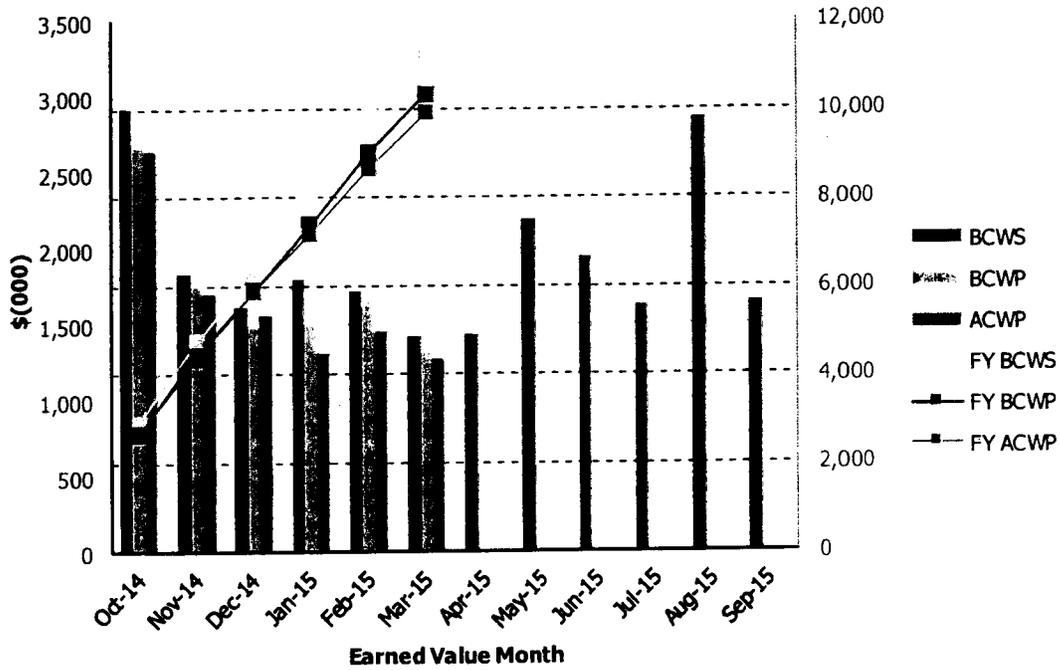
### EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2015 Earned Value Data

Data as of: March 2015

**River Protection Project  
Analytical Laboratory (WBS 1.06)**

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 2014	\$2,920	\$2,670	\$2,645	0.91	1.01	\$2,920	\$2,670	\$2,645	0.91	1.01
Nov 2014	\$1,827	\$1,748	\$1,695	0.96	1.03	\$4,747	\$4,418	\$4,340	0.93	1.02
Dec 2014	\$1,614	\$1,482	\$1,552	0.92	0.95	\$6,361	\$5,900	\$5,892	0.93	1.00
Jan 2015	\$1,788	\$1,490	\$1,304	0.83	1.14	\$8,149	\$7,390	\$7,196	0.91	1.03
Feb 2015	\$1,716	\$1,618	\$1,447	0.94	1.12	\$9,865	\$9,008	\$8,643	0.91	1.04
Mar 2015	\$1,413	\$1,322	\$1,266	0.94	1.04	\$11,278	\$10,330	\$9,909	0.92	1.04
Apr 2015	\$1,431									
May 2015	\$2,186									
Jun 2015	\$1,940									
Jul 2015	\$1,625									
Aug 2015	\$2,854									
Sep 2015	\$1,651									
<b>PTD</b>	<b>\$293,792</b>	<b>\$293,261</b>	<b>\$293,037</b>	<b>1.00</b>	<b>1.00</b>					

**Waste Treatment Plant Project - (LBL/Project Services) Percent Complete Status**

Through March 2015

(Dollars - Millions)	Overall Performance (Total)			Facilities			Project Services			Total LBL & Project Services			Total WTP		
	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
<b>Facilities</b>															
Low-Activity Waste	1,000.0	1,058.3	106%	1,000.0	339.9	34%	1,000.0	246.1	25%	1,000.0	448.8	45%	1,000.0	19.5	2%
Balance of Facilities	300.0	369.6	123%	422.8	96.3	23%	599.1	52.8	9%	228.2	191.3	84%	489.0	28.8	6%
Analytical Lab	333.0	293.3	88%	90.0	74.3	83%	63.0	55.1	87%	156.0	146.9	94%	73.2	16.5	23%
Direct Feed LAW	21.8	3.1	14%	18.8	2.5	13%	20.5	0.08	0%	0.0	0.0	0%	0.0	0.0	0%
LBL Facility Services	1.0	22.2	222%	0.0	0.0	0%	0.0	4.8	48%	0.0	0.0	0%	0.0	6.9	69%
<b>Total LBL</b>	<b>2,609.1</b>	<b>1,746.5</b>	<b>67%</b>	<b>650.8</b>	<b>513.0</b>	<b>79%</b>	<b>471.8</b>	<b>358.9</b>	<b>76%</b>	<b>955.4</b>	<b>787.0</b>	<b>82%</b>	<b>483.5</b>	<b>71.8</b>	<b>15%</b>
<b>Project Services</b>	<b>108.5</b>	<b>108.5</b>	<b>100%</b>	<b>12.5</b>	<b>12.5</b>	<b>100%</b>	<b>9.2</b>	<b>9.2</b>	<b>100%</b>	<b>35.3</b>	<b>35.3</b>	<b>100%</b>	<b>1.3</b>	<b>1.3</b>	<b>100%</b>
<b>Total Project Services</b>	<b>404.6</b>	<b>108.5</b>	<b>27%</b>	<b>49.4</b>	<b>12.5</b>	<b>25%</b>	<b>37.3</b>	<b>9.2</b>	<b>25%</b>	<b>124.0</b>	<b>35.3</b>	<b>28%</b>	<b>2.9</b>	<b>1.3</b>	<b>44%</b>
<b>Total LBL &amp; Project Services</b>	<b>3,013.7</b>	<b>1,855.0</b>	<b>62%</b>	<b>700.2</b>	<b>525.5</b>	<b>75%</b>	<b>509.1</b>	<b>368.2</b>	<b>72%</b>	<b>1,079.4</b>	<b>822.3</b>	<b>76%</b>	<b>486.5</b>	<b>73.1</b>	<b>15%</b>
<b>PT/HLW/SS Percent Complete Status Frozen as of September 2012 (due to project rebaselining efforts)</b>															
High-Level Waste	1,173.0	922.1	79%	300.0	325.2	108%	439.0	349.4	80%	391.1	243.2	62%	110.2	4.4	4%
Pretreatment	2,317.0	1,410.5	61%	731.7	645.8	88%	379.0	380.4	100%	350.0	378.6	108%	135.0	5.6	4%
Shared Services	3,623.0	3,632.6	100%	1,000.0	977.9	98%	1,100.0	395.0	36%	1,123.0	1,143.0	102%	533.0	133.2	25%
<b>Total HLWPT/SS</b>	<b>8,722.8</b>	<b>5,965.2</b>	<b>68%</b>	<b>2,173.1</b>	<b>1,948.9</b>	<b>90%</b>	<b>1,565.5</b>	<b>1,124.8</b>	<b>72%</b>	<b>2,887.6</b>	<b>1,764.8</b>	<b>61%</b>	<b>758.5</b>	<b>143.2</b>	<b>19%</b>
Undistributed Budget	n/a	n/a	n/a												
<b>Total WTP</b>	<b>11,736.5</b>	<b>7,820.2</b>	<b>67%</b>	<b>2,873.3</b>	<b>2,474.4</b>	<b>86%</b>	<b>2,074.6</b>	<b>1,493.0</b>	<b>72%</b>	<b>3,967.0</b>	<b>2,587.1</b>	<b>65%</b>	<b>1,245.0</b>	<b>216.3</b>	<b>17%</b>

Source: Preliminary WTP Contract Performance Report - Format 1, Data for March 2015

Note: In September 2012, the LBL Replen 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 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. Percent Complete Values shown for PT, HLW and SS have been frozen with the September 2012 values due to the Interim Work Plan and budgets being moved into UB. UB value for the project for PT/HLW/SS is \$2,014M. The percent complete values for the Total WTP are the current total LBL BCWP added to the frozen HLW/PT/SS BCWP values. 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. The Shared Services PMB value has not been changed to reflect this change due to the freeze on HLW/PT and SS and the budgets remaining in UB. October 2014 data reflects the incorporation of Direct Feed LAW and the split of Shared Services into LBL Facility Services and Project Services.

FINAL

Office of River Protection

Tri-Party Agreement

Monthly Summary Report

May 2015



**Office of River Protection  
Tri-Party Agreement Milestone Review  
May 2015 (Monthly Summary Report/Project Earned Value Management System reflects  
March 2015 information)**

<b>Page</b>	<b>Topic</b>	<b>Leads</b>
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	Richard Valle/Paul Hernandez/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
16	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
<b>Fiscal Year 2015</b>				
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	11/14/14	Completed
M-045-61	Phase 2 RCRA Facility Investigation	12/31/2014	12/23/2014	Completed
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	12/3/2014	Completed
M-045-91B-T01	Provide Ecology report on the Concrete Core from Tank A-106 or alt	01/31/2015	12/3/2014	Completed
M-062-01AD	Submit Semi-Annual Compliance Report	1/31/2015	1/29/2015	Completed
M-045-91F-T02	Provide Report of Liner Failures for SSTs	03/31/2015	3/16/2015	Completed
M-062-45-T01	Comp. Neg's 6-Mo After Last Issuance of System Plan	04/30/2015		In Dispute
M-062-45-ZZ	Negotiate a One Time Supplemental Treatment Selection	04/30/2015		In Dispute
M-062-45-ZZ-A	Convert M-062-31-T01 Thru M-062-34-T01 to Interim Milestones	04/30/2015		In Dispute
M-045-91F	Provide Summary Conclusions Report on Leak Integrity	06/30/2015	4/29/15	Completed
M-045-62	Phase 2 Corrective Measures Implementation Work Plan For WMA-C	TBD		On Schedule
M-045-92O	Barrier 3 Design/Monitoring Approval From Ecology	06/30/2015		In Dispute
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-062-01AE	Submit Semi-Annual Compliance Report	7/31/2015		On Schedule
M-045-82	Submit Comp. Permit Modification Request for Tiers 1,2,3	09/30/2015		To Be Missed
M-045-91E1	Provide SST Farms Dome Deflection Surveys Every Two Years	9/30/2015		On Schedule
<b>Fiscal Year 2016</b>				
M-045-92N	Construct Barriers 1 and 2 in 241-SX Farm	10/31/2015		In Dispute
M-062-01AF	Submit Semi-Annual Project Compliance Report	1/31/2016		On Schedule
M-047-07	CD-1 for Secondary Liquid Waste Treatment and CR for CD-2 to ECY	3/31/2016		On Schedule
M-090-13	CD-1 for Interim Hanford Storage Project and CR for CD-2 to ECY	3/31/2016		On Schedule
M-062-31-T01	Comp. Final Design & Submit RCRA Part B Permit Mod Request for Enhanced WTP & Supplemental Treatment	4/30/2016		On Schedule
M-045-92Q	Submit Barrier 4 Design/Monitoring Plan	6/30/2016		In Dispute
M-062-01AG	Submit Semi-Annual Project Compliance Report	7/31/2016		On Schedule
M-045-56L	Ecology And DOE A Ecology And DOE Agree, At A Minimum, To Meet Yearly (By July)	7/31/2016		On Schedule

Milestone	Title	Due Date	Completion Date	Status
AOR	= Analyses of Record.	RCRA	= Resource Conservation and Recovery Act.	
CD-1/-2	= critical decision-1/-2	SST	= single-shell tank.	
CR	= change request.	TPA	= Tri-Party Agreement.	
DOE	= U.S. Department of Energy.	WMA-C	= Waste Management Area C.	
Ecology	= Washington State Department of Ecology.			

### 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.
13. ORP received Ecology's January 14, 2015 transmitted letter 15-NWP-004, regarding the Department of Ecology review of *River Protection System Plan*, ORP-11242, Revision 7.
14. DOE-ORP meet with Ecology at the Tank Farms informal TPA and CD monthly status meeting on February 25, 2015.

**Significant Planned Actions in the Next 6 Months:**

None

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

**M-062-45ZZ-A, Convert M-062-31-T01 through M-062-34-T01 to Interim Milestones, Due: April 30, 2015, Status: In dispute.**

**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:** On 01/30/15, ORP provided Ecology Change Control Form M-62-14-02, which proposed adding language under TPA Milestone M-062-45 to defer negotiations required under M-062-45. Ecology did not respond with the 14 day review period that ended February 13, 2015 which is deemed disapproval in accordance with the TPA. In letter 15-TF-0014, dated 02/20/15,

ORP initiated dispute resolution. Ecology provided a justification for their disapproval on March 12, 2015 via letter 15-NWP-036. Ecology and ORP signed an extension of the dispute resolution period at the TPA project manager level until May 15, 2015.

## 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	N/A	N/A	N/A	No campaign conducted in FY 2011 due to ongoing 242-A and tank farm facility life extension and American Recovery and Reinvestment Act funded upgrades.
FY 2012	N/A	N/A	N/A	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	N/A	N/A	N/A	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	EC-01	AP-103 AP-104	AP-107	Estimated to begin May 2015.
FY 2015	EC-02	AZ-102	AP-103	Estimated to begin June 2015.
FY 2015	EC-03	AZ-102	AP-103	Estimated to begin August 2015.
FY 2015	EC-04	AW-106	AP-103	Estimated to begin October 2015.

FY = fiscal year.

N/A = not applicable.

### Significant Planned Actions in the Next 6 Months:

Startup activities for EC-01 are set to begin in early May. The evaporator vessel will be filled with water for the initial boilup. Once boiling is achieved and required pre-start activities are complete, waste flow from tank AW-102 may be initiated. When a SpG of 1.41 is achieved, slurry flow to

AP-107 may be started. A slurry sample is required during EC-01. Waste Volume Reduction (WVR) is expected to be on the order of 400 kgal; however, a minimum of 300 kgal will be targeted.

**Issues:**

Campaign delays due to unforeseen technical/mechanical malfunctions.

## Double-Shell Tank System Update

### Ultrasonic Testing Inspection

- Ultrasonic testing for tank AN-103 is ongoing and inspection of the annulus floor has indicated thinning. Inspection of the primary tank sidewall has initiated and the UT work is being completed by ITIVS out of South Carolina.
- Ultrasonic testing for tank AN-104 is planned to be performed by the end of the FY.

### Visual Inspection

- Continuing bi-weekly inspections of AY-102 waste accumulation sites.
- Continuing bi-monthly comprehensive inspection of AY-102 annulus.
- Annulus visual inspections are completed in tanks AP-102, AP-103, AP-104, AP-105, AP-106, AP-108 AW-101, AW-102, and AW-104. This completes the FY 2015 annulus inspections for the DSTs.

## 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: Complete. RPP-RPT-54909, Hanford Single-Shell Tanks Leak Causes, Locations, and Rates: Summary Report was transmitted to Ecology on 11/14/2014 under letter 14-TF-1024.**

**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: Complete. RPP-RPT-49993, Single-Shell Tank Integrity Project Analysis of Record Hanford Type I Single-Shell Tank Thermal and Operating Loads and Seismic Analysis was transmitted to Ecology on 12/03/2014 under letter 14-TF-0128**

**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: Complete. RPP-RPT-58254, Concrete Core Testing Report for the Single-Shell Tank 241-A-106 Sidewall Coring Project was transmitted to Ecology on 12/03/2014 under letter WRPS-140473214-TF-0127.**

**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: Complete. RPP-RPT-55804, Common Factors Relating to Liner Failures in Single-Shell Tanks, was transmitted from ORP to Ecology on 03/16/2015 under letter 15-TF-0005.**

**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: Complete. Report transmitted to Ecology on April 29, 2015 under ORP letter 15-TF-0043**

**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: Complete 3/25/2015.**

**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:**

In support of M-045-91G, SST AOR Summary Report, was subject to review by the independent experts and a letter of concurrence was received on April 15, 2015. The document is being prepared for issue.

Completion of M-045-91H. The work completed to date under M-045-91F and M-045-91G does not necessitate the creation of any additional milestones. In accordance with a 3/25/15 meeting with Ecology, ORP considers M-045-91H complete and does not intend to submit a change package for the creation of any additional milestones for SST Integrity.

In support of M-045-91F was met on April 29, 2015 with ORP letter 15-TF-0043.

#### **Significant Planned Actions in the Next 6 Months:**

Issue and transmit the SST AOR Summary report to meet M-045-91G.

#### **Issues:**

## **In Tank Characterization and Summary**

For the period from April 1 through April 30, 2015:

**Accomplishments:**

- Completed RPP-RPT-57458, *Derivation of Best-Basis Inventory for Tank 241-C-102 as of April 1, 2015*, Rev 3.
- Completed RPP-RPT-58534, *Derivation of Best-Basis Inventory for Tank 241-B-109 as of April 1, 2015*, Rev 0.
- Completed RPP-RPT-58618, *Derivation of Best-Basis Inventory for Tank 241-T-110 as of April 1, 2015*, Rev 0.
- Completed RPP-RPT-46792, *Derivation of Best-Basis Inventory for Tank 241-AW-102 as of February 1, 2015*, Rev 7.
- Completed RPP-RPT-57068, *Derivation of Best-Basis Inventory for Tank 241-B-203 as of April 1, 2015*, Rev 1.
- Completed RPP-RPT-44814, *Derivation of Best-Basis Inventory for Tank 241-AN-101 as of April 1, 2015*, Rev 18.
- Completed RPP-RPT-58619, *Derivation of Best-Basis Inventory for Tank 241-B-202 as of April 1, 2015*, Rev 0.
- Completed RPP-PLAN-60267, *Tank 241-AP-101 Grab Sampling and Analysis Plan*, Rev 0.
- Completed RPP-PLAN-60003, *Sampling and Analysis Plan for Solid Tank Waste on Tank 241-C-111 Failed Sluicer*, Rev 1.
- Completed RPP-PLAN-60011, *Tank Sampling and Analysis Plan for 241-C-105 Solids*, Rev 1.
- Performed 241-C-101 grab sampling April 23, 2015. Five grab samples were received at the lab.

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

***Tank sampling:***

- Tank 241-AP-101 grab sampling is planned for May 2015.
- Tank 241-C-105 in-process grab sampling is planned for May 2015.
- Tank 241-SY-103 core sampling is planned for May 2015.
- Tank 241-AP-105 grab sampling is planned for June 2015.
- Tank 241-AZ-102 (EC-03) grab sampling is planned for June 2015.
- Tank 241-AN-101 grab sampling at C-102 100% retrieval is planned for July 2015.
- Tank 241-AP-107 grab sampling is planned for September 2015.
- Tank 241-C-111 grab sampling is planned for September 2015.
- Tank 241-AW-102 grab sampling is tentatively planned for November 2015.
- Tank 241-AN-101 grab sampling is planned for November 2015.

**Best-Basis Inventory (BBI) updates:**

BBI updates for the following tanks were completed in April:

- 241-AN-101
- 241-AW-102 (Rev 7)
- 241-B-109
- 241-B-202
- 241-B-203
- 241-C-102
- 241-T-110

BBI updates for the following tanks are planned to be completed in May:

- 241-AN-102
- 241-AX-101
- 241-AZ-102
- 241-T-111

**Data Quality Objectives (DQO):**

- RPP-44057, *Data Quality Objectives to Support Strategic Planning*, Rev 2, is in-process to clarify DQO applicability and obtain data used to update the BBIs.
- Update of RPP-SPEC-33590, *Data Quality Objectives for Evaluation of Stack Chemical Emissions*, Rev 2, is in-process to meet DST permit requirements.

**Issues:**

None.

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## TANK OPERATIONS CONTRACT OVERVIEW

**Project Performance**

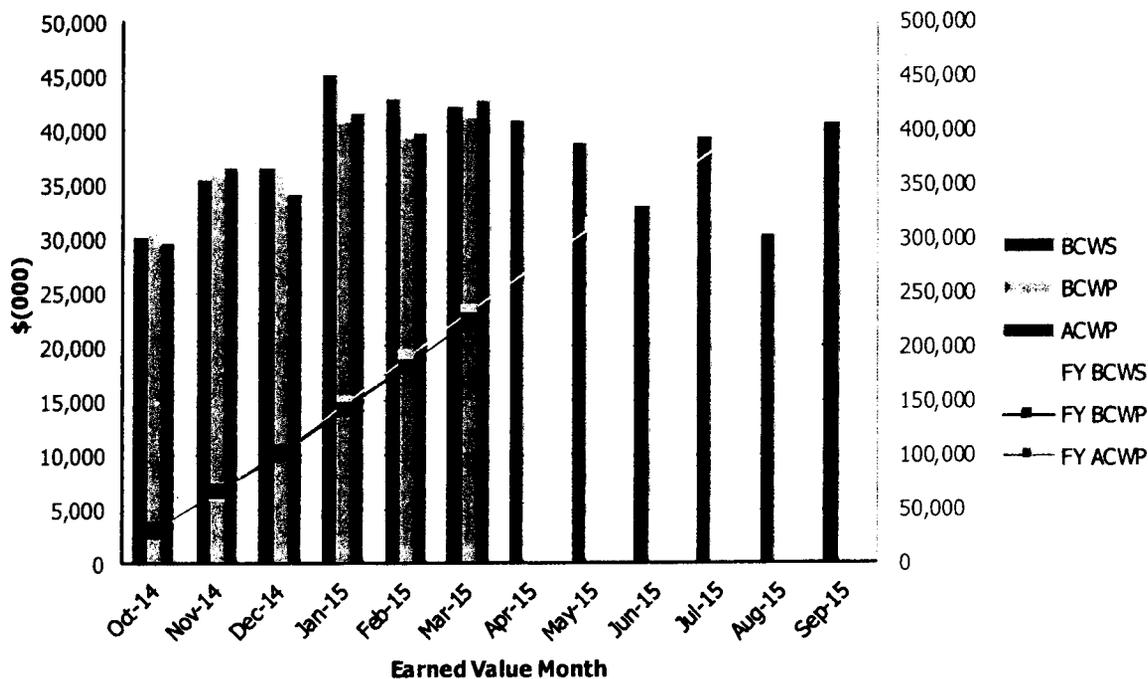
The earned value performance reporting reflects the format, work breakdown structure reporting levels, and variance thresholds as agreed to with the tank operations contractor for monthly performance reporting. The earned value analysis is not intended to be a measurement of performance against existing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

Through March 31, 2015, Washington River Protection Solutions LLC (WRPS) worked 2,100,365 hours (169 days) without a Lost Time Workday Injury and 414,508 hours (19 days) since the last Recordable case. There was one recordable cases in March, and no Days Away, Restricted, or Transferred (DART) cases.

March-15										
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC
CM	42,159.0	41,174.0	42,721.0	(985.0)	(1,547.0)					
FYTD	231,830.0	223,096.0	223,968.0	(8,734.0)	(872.0)					
CTD	2,575,735.0	2,541,576.0	2,524,914.0	(34,159.0)	16,662.0			3,583,441.0	3,566,262.0	17,179.0

**Tank Farms ORP-0014**

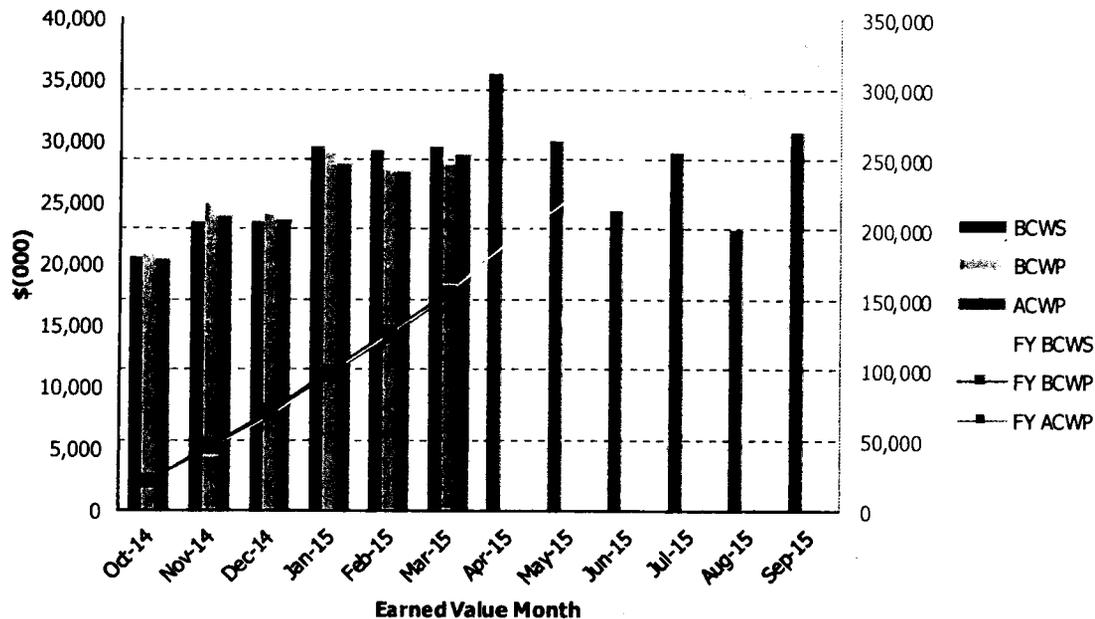
EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2014	\$30,052	\$30,480	\$29,607	1.01	1.03	\$30,052	\$30,480	\$29,607	1.01	1.03
Nov 2014	\$35,246	\$35,697	\$36,417	1.01	0.98	\$65,298	\$66,178	\$66,024	1.01	1.00
Dec 2014	\$36,377	\$35,858	\$33,978	0.99	1.06	\$101,675	\$102,036	\$100,002	1.00	1.02
Jan 2015	\$45,083	\$40,697	\$41,603	0.90	0.98	\$146,757	\$142,733	\$141,605	0.97	1.01
Feb 2015	\$42,913	\$39,189	\$39,643	0.91	0.99	\$189,671	\$181,922	\$181,248	0.96	1.00
Mar 2015	\$42,159	\$41,174	\$42,721	0.98	0.96	\$231,830	\$223,096	\$223,968	0.96	1.00
Apr 2015	\$40,835					\$272,665				
May 2015	\$38,696					\$311,361				
Jun 2015	\$32,903					\$344,264				
Jul 2015	\$39,299					\$383,563				
Aug 2015	\$30,193					\$413,756				
Sep 2015	\$40,628					\$454,384				
<b>CTD</b>	<b>\$2,575,735</b>	<b>\$2,541,576</b>	<b>\$2,524,914</b>	<b>0.99</b>	<b>1.01</b>					

**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 2014	\$20,627	\$20,833	\$20,428	1.01	1.02	\$20,627	\$20,833	\$20,428	1.01	1.02
Nov 2014	\$23,471	\$24,930	\$23,988	1.06	1.04	\$44,098	\$45,762	\$44,417	1.04	1.03
Dec 2014	\$23,467	\$24,105	\$23,547	1.03	1.02	\$67,565	\$69,867	\$67,964	1.03	1.03
Jan 2015	\$29,511	\$29,162	\$28,218	0.99	1.03	\$97,075	\$99,029	\$96,181	1.02	1.03
Feb 2015	\$29,299	\$27,739	\$27,582	0.95	1.01	\$126,375	\$126,768	\$123,764	1.00	0.98
Mar 2015	\$29,525	\$28,162	\$28,967	0.95	0.97	\$155,900	\$154,929	\$152,731	0.99	0.99
Apr 2015	\$35,582					\$191,482				
May 2015	\$30,043					\$221,525				
Jun 2015	\$24,437					\$245,962				
Jul 2015	\$29,176					\$275,138				
Aug 2015	\$22,875					\$298,013				
Sep 2015	\$30,751					\$328,764				
CTD	\$1,693,328	\$1,680,772	\$1,660,415	0.99	1.01					

**Base Operations and Tank Farm Projects**

The current month unfavorable schedule variance (SV) of (\$1,363K) is due to the following:

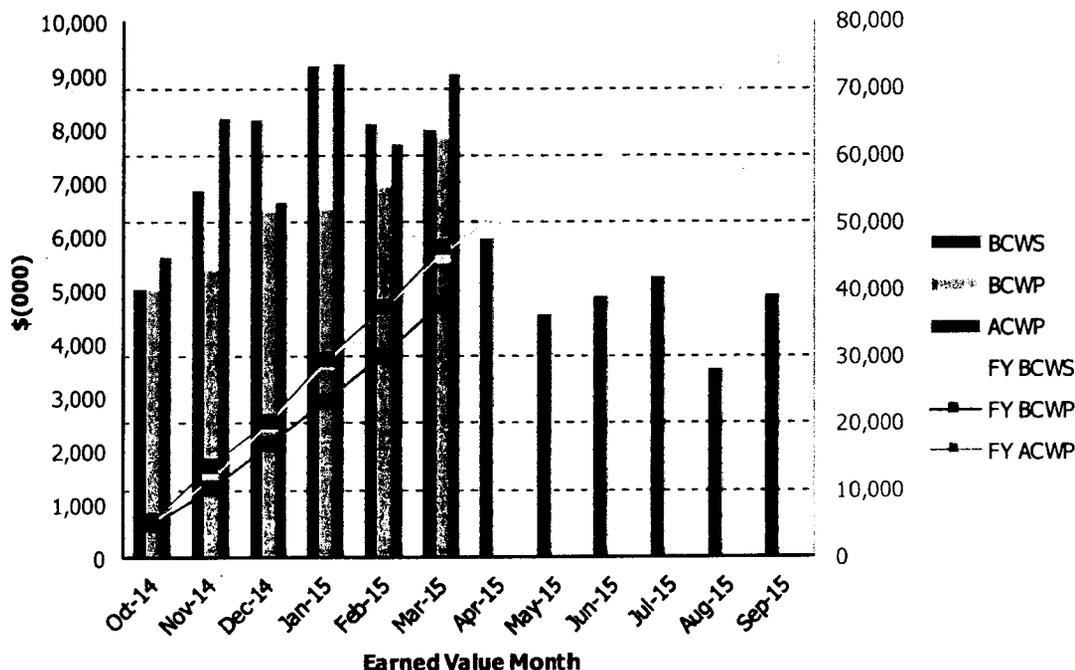
- Tank Waste Sampling delayed due to sampling equipment unavailable, equipment currently utilized supporting other critical Tank Farm work
- Tank Farm Automation Upgrades behind schedule awaiting procurement and fabrication of AN, SY, AY/AZ instrumentation
- Delays in 242-A Evaporator Campaign due to failed ammonia monitor (25 years old)

The current month unfavorable cost variance (CV) of (\$805K) is due to the following:

- Cost increases due to vapor requirements, increased equipment costs and increase in training requirements.

**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 2014	\$5,024	\$5,011	\$5,609	1.00	0.89	\$5,024	\$5,011	\$5,609	1.00	0.89
Nov 2014	\$6,852	\$5,392	\$8,174	0.79	0.66	\$11,876	\$10,403	\$13,783	0.88	0.75
Dec 2014	\$8,171	\$6,453	\$6,612	0.79	0.98	\$20,047	\$16,856	\$20,395	0.84	0.83
Jan 2015	\$9,167	\$6,524	\$9,195	0.71	0.71	\$29,215	\$23,380	\$29,589	0.80	0.79
Feb 2015	\$8,075	\$6,924	\$7,719	0.86	0.90	\$37,290	\$30,304	\$37,309	0.81	0.81
Mar 2015	\$7,971	\$7,801	\$9,009	0.98	0.87	\$45,261	\$38,105	\$46,318	0.84	0.82
Apr 2015	\$5,926					\$51,186				
May 2015	\$4,509					\$55,695				
Jun 2015	\$4,852					\$60,547				
Jul 2015	\$5,238					\$65,785				
Aug 2015	\$3,527					\$69,312				
Sep 2015	\$4,886					\$74,198				
CTD	\$550,760	\$533,522	\$555,661	0.97	0.96					

The current month unfavorable cost variance (CV) of (\$1,208K) is due to:

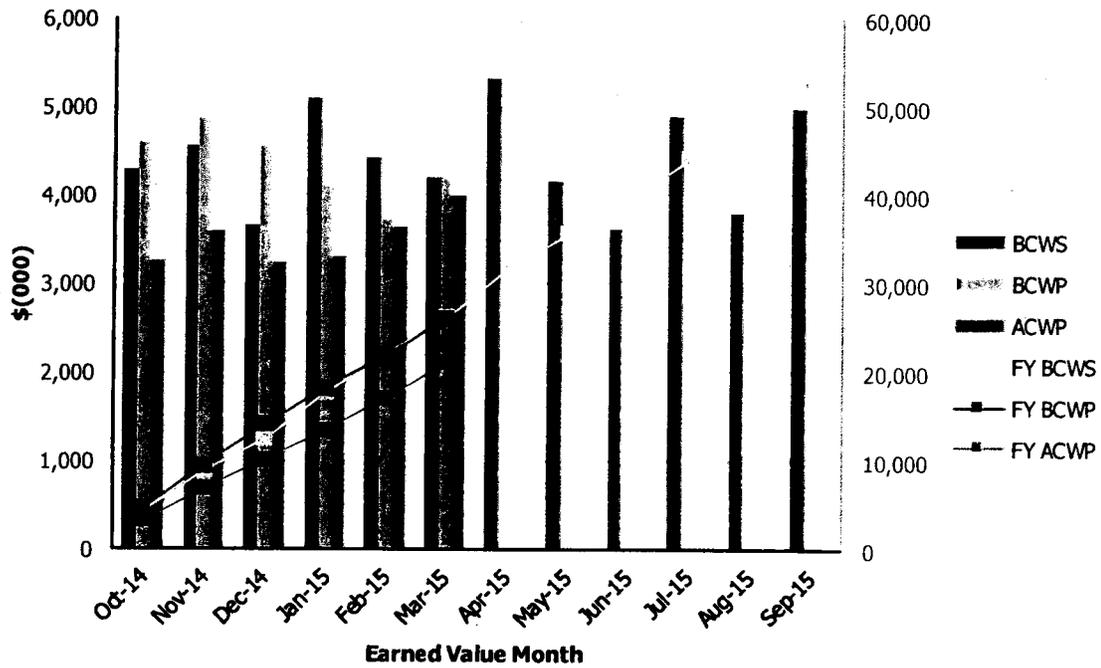
- Challenges installing the new Extended Reach Sluicer #2 within riser #7 at C-102 taking longer than planned.

The current month unfavorable schedule variance (SV) of (\$170K) is due to:

- Waste retrieved from C-102 during March was limited due to the replacement of the AN-106 Slurry Distributor.

**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 2014	\$4,277	\$4,605	\$3,261	1.08	1.41	\$4,277	\$4,605	\$3,261	1.08	1.41
Nov 2014	\$4,549	\$4,876	\$3,585	1.07	1.36	\$8,826	\$9,480	\$6,846	1.07	1.38
Dec 2014	\$3,652	\$4,559	\$3,229	1.25	1.41	\$12,478	\$14,040	\$10,075	1.13	1.39
Jan 2015	\$5,101	\$4,113	\$3,308	0.81	1.24	\$17,579	\$18,152	\$13,383	1.03	1.36
Feb 2015	\$4,413	\$3,734	\$3,636	0.85	1.03	\$21,992	\$21,887	\$17,019	1.00	1.29
Mar 2015	\$4,185	\$4,206	\$3,988	1.00	1.05	\$26,177	\$26,092	\$21,007	1.00	1.24
Apr 2015	\$5,327					\$31,504				
May 2015	\$4,145					\$35,649				
Jun 2015	\$3,615					\$39,264				
Jul 2015	\$4,882					\$44,145				
Aug 2015	\$3,792					\$47,937				
Sep 2015	\$4,991					\$52,928				
<b>CTD</b>	<b>\$302,746</b>	<b>\$298,656</b>	<b>\$281,352</b>	<b>0.99</b>	<b>1.06</b>					

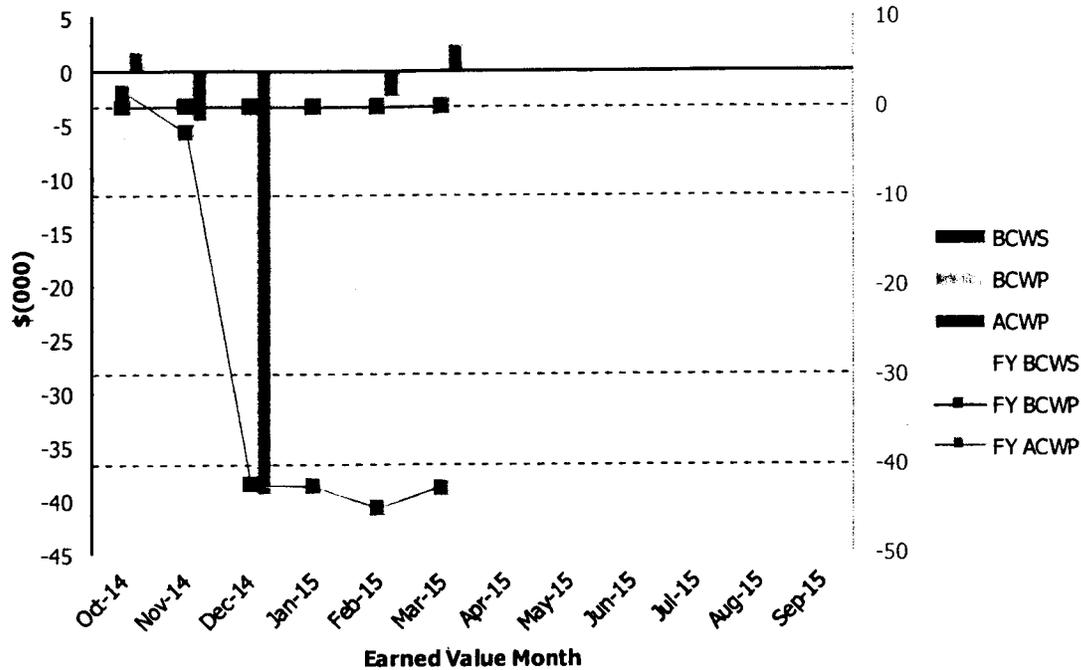
**Waste Feed Delivery/Treatment/Double-Shell Tank Retrieval Closure**

The current month favorable schedule variance (SV) of \$21K is within the reporting threshold.

The current month favorable cost variance (CV) of \$218K is within the reporting threshold.

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

EVMS Monthly and Fiscal Year Values



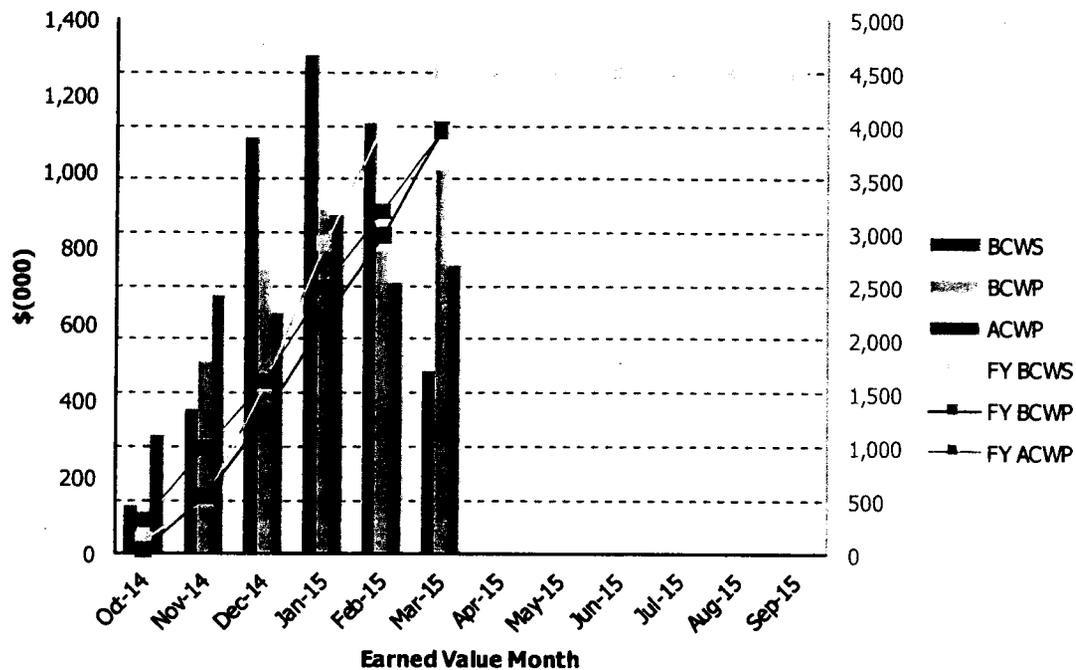
Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2014	\$0	\$0	\$2	0.00	0.00	\$0	\$0	\$2	0.00	0.00
Nov 2014	\$0	\$0	(\$5)	0.00	0.00	\$0	\$0	(\$3)	0.00	0.00
Dec 2014	\$0	\$0	(\$39)	0.00	0.00	\$0	\$0	(\$42)	0.00	0.00
Jan 2015	\$0	\$0	\$0	0.00	0.00	\$0	\$0	(\$43)	0.00	0.00
Feb 2015	\$0	\$0	-\$2	0.00	0.00	\$0	\$0	(\$45)	0.00	0.00
Mar 2015	\$0	\$0	\$2	0.00	0.00	\$0	\$0	(\$43)	0.00	0.00
Apr 2015	\$0									
May 2015	\$0									
Jun 2015	\$0									
Jul 2015	\$0									
Aug 2015	\$0									
Sep 2015	\$0									
CTD	\$20,110	\$20,110	\$19,135	1.00	1.05					

**Supplemental Treatment**

The current month favorable schedule variance (SV) of \$0K is within the reporting threshold.  
 The current month favorable cost variance (CV) of \$0K 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 2014	\$124	\$32	\$308	0.26	0.10	\$124	\$32	\$308	0.26	0.10
Nov 2014	\$374	\$500	\$674	1.34	0.74	\$498	\$532	\$982	1.07	0.54
Dec 2014	\$1,087	\$741	\$628	0.68	1.18	\$1,585	\$1,273	\$1,610	0.80	0.79
Jan 2015	\$1,304	\$899	\$883	0.69	1.02	\$2,889	\$2,172	\$2,493	0.75	0.87
Feb 2015	\$1,126	\$792	\$707	0.70	1.12	\$4,015	\$2,964	\$3,200	0.74	0.93
Mar 2015	\$478	\$1,006	\$754	2.11	1.33	\$4,492	\$3,970	\$3,954	0.88	1.00
Apr 2015	\$0					\$4,492				
May 2015	\$0					\$4,492				
Jun 2015	\$0					\$4,492				
Jul 2015	\$0					\$4,492				
Aug 2015	\$0					\$4,492				
Sep 2015	\$0					\$4,492				
CTD	\$8,792	\$8,515	\$8,351	0.97	1.02					

**Treat Waste**

The current month favorable schedule variance (SV) of \$528K is due to:

- LAWPS Conceptual Design – The A/E subcontractor completed several major tasks ahead of schedule. Task completed include: Impact and gap analysis of DOE Order 420.1C and DOE-STD-3009-2014, impact estimate, Process & Instrumentation Diagram (P&ID) reviews, and sizing calculations.

The current month favorable cost variance (CV) of \$252K is due to:

- **LAWPS Conceptual Design** – Lower than planned cost to complete several major tasks. Task completed include: Impact and gap analysis of DOE Order 420.1C and DOE-STD-3009-2014, impact estimate, Process & Instrumentation Diagram (P&ID) reviews, and sizing calculations. The cost associated with performing these activities was reported over prior reporting periods and the current reporting period.

### **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-045-56K, Complete Implementation of Agreed to Interim Measures**, Due: July 31, 2015, Status: On schedule.

**M-045-59, Control surface water infiltration pathways as needed to control or significantly reduce the likelihood of migration of subsurface contamination to groundwater at the SST 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: Complete. The Phase 2 RCRA Facility Investigation Report Draft A for WMA-C, RPP-RPT-58339, was transmitted to Ecology on December 23, 2014, via letter 14-TF-0131. 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.** The Phase 2 RCRA Facility Investigation Report Draft A for WMAC, RPP-RPT-58339, was transmitted to Ecology on December 23, 2014, via letter 14-TF-0131. 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: Six (6) months after the approval of the CMS submitted under milestone M-045-61A Status: TPA Change Control form M-45-15-02 approved on April 14, 2015.**

**M-045-92, Complete Installation of Four (4) Additional Interim Barriers** (see interim milestones below), Due: October 31, 2017, Status: TBD. TPA Change Control form M-45-15-01 submitted via letter 15-TF-0027 on March 31, 2015. Change was not approved and dispute resolution process was initiated via letter 15-TF-0042 on April 20, 2015. Dispute is at the project manager level and has been extended to August 16, 2015.

**M-045-92N, Construct Barriers 1 and 2 in 241-SX Farm, Due: October 31, 2015, Status: TBD.** TPA Change Control form M-45-15-01 submitted via letter 15-TF-0027 on March 31, 2015. Change was not approved and dispute resolution process was initiated via letter 15-TF-0042 on April 20, 2015. Dispute is at the project manager level and has been extended to August 16, 2015.

**M-045-92O, Submit a Final Design and Monitoring Plan for Interim Barrier 3, Due: June 30, 2015, Status: TBD.** TPA Change Control form M-45-15-01 submitted via letter 15-TF-0027 on March 31, 2015. Change was not approved and dispute resolution process was initiated via letter 15-TF-0042 on April 20, 2015. Dispute is at the project manager level and has been extended to August 16, 2015.

#### **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 was completed, and RPP-RPT-58339 was transmitted to Ecology on December 23, 2014, completing M-045-61.

#### **Significant Planned Actions in the Next 6 Months:**

- Provide the annual interim barrier monitoring report for information collected in 2014.

#### **Issues:**

- Change control form M-45-15-02 was submitted by ORP via letter 15-TF-0018 to Ecology and was approved on April 14, 2014. The change control form revises the M-045-62 Milestone date for submittal of the Corrective Measures Implementation Plan to

six months after the Corrective Measures Study (CMS) is approved by Ecology. Milestone M-045-62 currently requires submittal of a Corrective Measure Implementation Plan prior to submittal of the CMS. This sequencing is incorrect allows information from the CMS to be used for the development of the Corrective Measures Implementation Plan. Dispute is at the project manager level and has been extended to August 16, 2015.

- Change control form M-45-15-01 was submitted by ORP via letter 15-TF-0027 to Ecology for approval. The change control form proposed modifying the due dates for construction of Barriers 1 and 2 and design and construction of Barriers 3 and 4. Construction of SX Barriers 1 and 2 has been delayed because ORP was required to shift resources to other higher priority, higher risk work scope, including among other things, safety concerns. In addition, Ecology and ORP have yet to agree upon the locations for Barriers 3 and 4. It is proposed that Ecology and ORP discuss Barrier 3 and 4 locations during the M-045-56 Milestone annual interim measure meetings held by the end of July 2015. The change control form was not approved, and the dispute resolution process was initiated via letter 15-TF-0042 on April 20, 2015.

### **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: At risk.

- 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:**

- Completed post-retrieval logging of the drywells near C-107, C-112 and C-101 to support the retrieval data reports (RDRs)
- Completed the post-retrieval sample analysis and reporting for tank C-107, in support of the Retrieval Data Report. Completed post-retrieval sampling of C-112 in support of the RDR.
- Completed post-retrieval sampling of C-112 in support of the RDR.
- Post-retrieval sampling of C-101 was initiated in support of the RDR.
- See discussions above and related discussions in Consent Decree report.

**Significant Planned Activities in the Next 6 Months:**

- Complete scoping meetings for a performance assessment for WMA A/AX.
- Complete the RDR for tank C-107.
- Perform sample analysis and reporting on post-retrieval samples from tanks C-112 and C-101.

**Issues:**

ORP and Ecology continue to meet to develop an integrated path forward that addresses all the deliverables associated with Milestone M-045-82. Delays in obtaining the post-retrieval samples from tanks C-112 and C-101 may result in delayed completion of the RDRs.

### 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	Complete	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:

Draft AX Farm TWRWPs.

#### 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.**

**ORP/Ecology TPA and CD Agreements, Issues, and Action Items – May 2015**

<b>WTP Action Items</b>							
<b>#</b>	<b>Action ID</b>	<b>Start Date</b>	<b>Action</b>	<b>Action Status</b>	<b>Updates / Needs for Closure</b>	<b>Actionee(s)</b>	<b>Date Closed</b>
8	WTP-14-06-03	06/19/14	ECY requests a briefing on the LAW Design and Operability review before the September timeframe.	Open	The Design and Operability Review Report is with the contractor for factual accuracy review. ORP will schedule a briefing once the report is issued.	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	
10	WTP-15-01-01	1/22/15	ECY requests a presentation on SHSVD to include impacts and optimization in planning area 2,3, &4	Open	Impacts will be better understood in September with issuance of design studies.	Gary Olsen	
11	WTP-15-01-02	1/22/15	ECY requests a tour of PJM testing at MCE	Closed	Ecology toured the ESEL facility on April 14.	Gary Olsen	04/14/11
12	WTP-15-01-03	1/22/15	ECY requests a technical update on the LAB RLD vessels	Open		Jason Young	

**ORP/Ecology TPA and CD Agreements, Issues, and Action Items – May 2015**

<b>WTP Action Items</b>							
<b>#</b>	<b>Action ID</b>	<b>Start Date</b>	<b>Action</b>	<b>Action Status</b>	<b>Updates / Needs for Closure</b>	<b>Actionee(s)</b>	<b>Date Closed</b>
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		Wendell Wrzesinski	
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	This issue is impacted by the ongoing CD judicial process.	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	This issue is impacted by the ongoing CD judicial process.	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	Completed for HLW. This issue is impacted by the ongoing CD judicial process.	Gary Olsen/ 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.	Closed	Completed for HLW. This issue is impacted by the ongoing CD judicial process.	Gary Olsen/ Wahed Abdul	04/16/15
6	WTP-14-10-06	10/23/14	ECY requests a status update on the DFLAW Program and flowsheet integration.	Closed	Discussions held 05/05/15.	Wendell Wrzesinski	05/05/15
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	

## ORP/Ecology TPA and CD Agreements, Issues, and Action Items – May 2015

<b>Tank Farms Action Items</b>							
#	Action ID	Start Date	Action	Action Status	Updates / Needs for Closure	Actionee(s)	Date Closed
7	TF-15-03-01	03/18/15	ORP plans to meet with ECY to discuss the integrated flowsheet specific to DFLAW in early April.	Closed	WTP DFLAW flowsheet discussion held with Ecology on 5/5/15	Pfaff / Wrzesinski / R. Gilbert	05/05/15
8	TF-15-03-02	03/18/15	ECY has requested additional data for the next four 242-A Evaporator campaigns (i.e. tank chemistry, estimated volume reductions/goals, specific gravity before and after, etc.).	Open	Paul to discuss with interested regulators at a time and place that is convenient to them	Hernandez	
9	TF-15-03-03	03/18/15	After the LERF/ETF transition is complete, ECY would like a briefing on LERF/ETF current configuration, facility conditions, and plans to determined changes required to accommodate WTP throughput.	Closed	Briefing held on 04/20/15 discussing LERF/ETF status and path forward	Valle / Wrzesinski	05/05/15
10	TF-15-03-04	03/18/15	ECY would like a briefing on design and other details for the T-111/POR-006 project (e.g., understanding how we can tell if conditions are improved using this process).	Closed		Johnson	04/16/15
11	TF-15-03-05	03/18/15	ECY would like to obtain technical white papers supporting LAWPS design.	Open		Pfaff / Wrzesinski	
12	TF-15-03-06	03/18/15	ECY would like to discuss TPA Appendix I (Section 2.1.1) for the requirement for integration studies done prior to TWRWP development (specific to WMA A/AX).	Closed	Kemp and Alzheimer held discussion 05/14/15.	Kemp	05/14/15

**ORP/Ecology TPA and CD Agreements, Issues, and Action Items – May 2015**

<b>Tank Farms Action Items</b>							
<b>#</b>	<b>Action ID</b>	<b>Start Date</b>	<b>Action</b>	<b>Action Status</b>	<b>Updates / Needs for Closure</b>	<b>Actionee(s)</b>	<b>Date Closed</b>
4	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.	Closed	ORP, WRPS, and Ecology have reached resolution on RPP-12711 Rev 7. A TPA change package to make the Temporary Waste Transfer Line Mgmt Plan a TPA primary document was signed on 05/11/15. ORP letter 15-TF-0047 is being sent to formally document completion and transmit the first annual HIHTL report.	Lynch / Mathey / Fox	05/11/15
5	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	
6	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-045-82.	Open	ORP and ECY to schedule meeting in early June to discuss options for M-045-82. ECY has a draft TPA change package and commitment from Price/Kemp to meet between TPA PMs in June when Jeff Lyon returns from leave/training.	Kemp / Eberlein / Price	

**ORP/Ecology TPA and CD Agreements, Issues, and Action Items – May 2015**

<b>Tank Farms Action Items</b>							
<b>#</b>	<b>Action ID</b>	<b>Start Date</b>	<b>Action</b>	<b>Action Status</b>	<b>Updates / Needs for Closure</b>	<b>Actionee(s)</b>	<b>Date Closed</b>
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.	Closed	ORP and WRPS closed w/Ecology discussion on 04/20/15.	Hernandez	4/20/15
2	TF-14-06-02	06/19/14	Schedule an oversight opportunity with ORP and ECY for the WMA C PA modeling	Open	Meetings were held on 09/11/14, 10/30/14, 12/16/14, and 12/17/14. Remains open and will continue status on this task in both ORP/ECY bi-weekly and a requested meeting with Whalen/Lyon on calibrating to the low end of the hydraulic conductivity curve.	Kemp / Beach	
3	TF-14-02-02	02/18/14	ECY would like a schedule/project management plan (if available) for the closure of WMA C.	Open	Closure contract modification still in progress. The contract pre-negotiation memorandum is with DOE-HQ and contract negotiations will begin. ORP has provided to ECY the sketches and tools available currently. Contract negotiations with WRPS will start with HQ approval of a pre-negotiation memorandum, expected in mid-June.	Kemp	

## ORP/Ecology TPA and CD Agreements, Issues, and Action Items – May 2015

### 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. 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>

## WORKING ORP Key Documents List – April 2015

Milestone Title	Milestone Title	Document	TPA Milestone Due Date (if applicable) <sup>1</sup>	ORP Delivery to Regulators Date <sup>2</sup>	Anticipated Regulatory Review Completion Date <sup>3</sup>	Final Completion Date <sup>4</sup>	DOE ORP Lead	Contractor Lead	Ecology Lead	Comments/Issues
Submit to Ecology, in accordance with HFFACO secondary document review process, a phase 2 RCRA Facility Investigation (RFI) report Draft A for WMA C.	Supports M-045-61	WMA-C PA Initial Model Run Data Package		TBD			C. Kemp	S. Eberlein	J. Lyon	• Feeds input for M-045-61 and all Closure Plans
		WMA-C PA Initial Document		TBD			C. Kemp	S. Eberlein	J. Lyon	• Feeds input for M-045-61 and all Closure Plans
		WMA-C Characterization Summary 2013		TBD			C. Kemp	S. Eberlein	J. Lyon	• Feeds input for M-045-61 and all Closure Plans
	M-045-61	Phase 2 Draft A RFI Report for WMA C	12/31/14				C. Kemp	S. Eberlein	J. Lyon	• Reported as To Be Missed in the March 2013 TPA PMM. Discussions ongoing at the PM level. • TPA Change Package M-45-14-03 signed on 10/01/14 split up the WMA C RFI and CMS into separate deliverables.
Submit to Ecology, as a primary document, a Phase 2 Corrective Measures Study (CMS), and Revision 0 update to the RFI Report for WMA C	M-045-61A	Phase 2 CMS and Revision 0 of RFI for WMA C	12/31/16							• TPA Change Package M-45-14-03 signed on 10/01/14 split up the WMA C RFI and CMS into separate deliverables.
Submit to Ecology for Review and Approval as an Agreement Primary Document, a Phase 2 Corrective Measures Implementation Work Plan for WMA-C.	M-045-62	Phase 2 Corrective Measures Implementation Work Plan for WMA-C	06/30/15	TBD			C. Kemp	S. Eberlein	J. Lyon	• Reported as To Be Missed in the March 2013 TPA PMM. Discussions ongoing at the PM level.
Prior to beginning construction & at least one year before construction is to be complete, DOE will submit to Ecology a final design & monitoring plan for each interim barrier.	M-045-92O	Future Barrier Design 3	06/30/15	06/30/15			C. Kemp	S. Eberlein	J. Lyon	• ORP/ECY TPA Change Package M-45-12-04 modified this to a due date of 06/30/15.
	M-045-92P	Future Barrier Design 4	06/30/16	06/30/16			C. Kemp	S. Eberlein	J. Lyon	• ORP/ECY TPA Change Package M-45-12-04 modified this to a due date of 06/30/16.
M-045-91 Interim Milestones and Target Dates for SST Integrity Implementing the Expert Panel's Recommendations	M-045-91F-T04	Provide Report on 100-Series SSTs as having Leaked in RPP-32681	12/26/14	12/26/14			J. Johnson	R. Gregory	J. Lyon	
	M-045-91G-T04	Provide AOR Final Doc. for SSTs on 55,000 Gallon Tanks	01/30/15	01/30/15			J. Johnson	R. Gregory	J. Lyon	
	M-045-91B-T01	Provide Ecology report on the Concrete Core from TankA-106 or alt	01/31/15	01/31/15			J. Johnson	R. Gregory	J. Lyon	
	M-045-91F-T02	Provide Report of Liner Failures for SSTs	03/31/15	03/31/15			J. Johnson	R. Gregory	J. Lyon	
	M-045-91F	Provide Summary Conclusions Report on Leak Integrity	06/30/15	06/30/15			J. Johnson	R. Gregory	J. Lyon	
	M-045-91G	Provide Summary Conclusions Report of AOR for SSTs	07/28/15	07/28/15			J. Johnson	R. Gregory	J. Lyon	
	M-045-91H	Submit Change Pckg (if necessary) to est. Additional Milestones	07/31/15	07/31/15			J. Johnson	R. Gregory	J. Lyon	
	M-045-91I	Provide IQRPE Certification of SSTs Structural Integrity	09/30/18	09/30/18			J. Johnson	R. Gregory	J. Lyon	
Complete final design and submit RCRA Part B Permit Modification Request	M-062-31-T01	RCRA Part B Permit Modification--Final Design	04/30/16	04/30/16			S. Pfaff		D. McDonald	

<sup>1</sup> "TPA Milestone Due Dates" are the direct regulatory drivers for completion of milestones.

<sup>2</sup> "ORP Delivery to Regulators Dates" are those dates that support future milestones, are submittal dates for permitting activities, or miscellaneous submittals that support ORP actions and represent the dates when ORP submits documents to the regulators. ORP Delivery to Regulators Dates may be earlier than TPA Milestone Due Dates if work is completed ahead of schedule.

<sup>3</sup> The "Anticipated Regulatory Review Completion Date" is generated based on TPA Milestone Agreements and TPA Section 9.0 documentation requirements for primary documents. This date will be changed and noted in "Comments/Issues" if extension of review is requested. If the document is a secondary document or for information only, the "Anticipated Regulatory Review Completion Date" may be listed as "N/A" for not applicable.

<sup>4</sup> "Final Completion Date" is entered after the document is reviewed, comments are incorporated, and any disputes are resolved. Any comment resolution issues or disputes will be noted under "Comments/Issues."

**Bold red** = DOE submittal within the next 90 days    **Bold green** = document is under initial ECY Regulatory Review    **Bold black** = document under comment/review response or other actions    **Bold blue** = document is completed

## WORKING ORP Key Documents List – April 2015

Topic Area	Document	ORP Delivery to Regulators Date <sup>1</sup>	Anticipated Regulatory Review Completion Date <sup>2</sup>	Final Completion Date <sup>3</sup>	DOE-ORP Lead	Contractor Lead	Regulator Lead	Comments/Issues
PERMIT DOCUMENTS	Tier 1 Framework Closure Plan Update	09/30/15			C. Kemp	S. Eberlein	J. Lyon	• Tier 1, 2, 3 Submittal is associated with M-045-82, due 09/30/2015. This MS was reported as To Be Missed in the March 2013 TPA PMM. Discussions ongoing at the PM level.
	Tier 2 WMA-C Closure Plan	TBD			C. Kemp	S. Eberlein	J. Lyon	
	All Remaining Closure Plans for WMA-C	09/30/15			C. Kemp	S. Eberlein	J. Lyon	
	WMA-C Closure Conceptual Design	TBD			C. Kemp	S. Eberlein	J. Lyon	
	Tier 3 Closure Plans for Tanks Already Received	TBD			C. Kemp	S. Eberlein	J. Lyon	• Due 180-day post EIS
	Tier 3 Closure Plans for Additional Tanks	09/30/15			C. Kemp	S. Eberlein	J. Lyon	• Several Dates in out years
	WMA-C Closure Design	TBD			C. Kemp	S. Eberlein	J. Lyon	• Final dates not yet determined; provides basis for the Tier 2 Closure Plan
	Supplemental Treatment Technology Notice of Construction	TBD			L. Huffman		J. Lyon	
	Submit Part B Permit Application for Selected Supplemental Treatment Technology	TBD			L. Huffman		J. Lyon	
	Submit Wiped Film Evaporator Class 3 Permit Modification or Part B Permit Application	TBD			L. Huffman		J. Lyon	
OTHER DOCUMENTS	IDF Performance Assessment (ORP/WRPS has support role to RL/CHPRC)	TBD			T. Fletcher		J. Lyon	
	Submit Categorical TOC HIA	TBD					J. Lyon	
	Temporary Waste Transfer Line Management Program Plan (also known as Hose-In-Hose Transfer Lines (HIHTL) Management Plan), RPP-12711	TBD			C. Kemp		J. Alzheimer	• To be made into a TPA Primary Document with submittal of revision 7 per a TPA Project Managers Agreement, signed 01/22/2013
	Single-Shell Tank System Leak Detection and Monitoring Functions and Requirements Document, RPP-9937	TBD			J. Johnson		J. Alzheimer	• Discussions are underway for a number of revisions to this document
	WMA Quarterly Groundwater Reports	Ongoing Quarterly			D. Hildebrand		J. Lyon	• Ecology SST counterparts have been added to this distribution list as of March 2013 • ORP continues to provide reports to Ecology

AOR = Analysis of Record  
 DOE = U.S. Department of Energy.  
 Ecology = Washington State Department of Ecology.  
 EIS = environmental impact statement.  
 N/A = not applicable.  
 ORP = U.S. Department of Energy, Office of River Protection.  
 PM = project manager.  
 PMM = project manager's meeting.

RCRA = Resource Conservation and Recovery Act.  
 RDR = Retrieval Data Report  
 RFI/CMS = RCRA Facility Investigation/Corrective Measures Study.  
 SST = single-shell tank.  
 TBD = to be determined.  
 TPA = Tri-Party Agreement.  
 WMA-C = Waste Management Area C.  
 WRPS = Washington River Protection Solutions LLC.

<sup>1</sup> Note: "ORP Delivery to Regulators Dates" are those dates that support future milestones, are submittal dates for permitting activities, or miscellaneous submittals that support ORP actions and represent the dates when ORP submits documents to the regulators.  
<sup>2</sup> Note: The "Anticipated Regulatory Review Completion Date" is generated based on TPA Milestone Agreements and TPA Section 9.0 documentation requirements for primary documents. This date will be changed and noted in "Comments/Issues" if extension of review is requested. If the document is a secondary document or for information only, the "Anticipated Regulatory Review Completion Date" may be listed as "N/A" for not applicable.  
<sup>3</sup> Note: "Final Completion Date" is entered after the document is reviewed, comments are incorporated, and any disputes are resolved. Any comment resolution issues or disputes will be noted under "Comments/Issues."  
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