

ORP TPA Project Managers' Monthly (PMM) Meeting
July 17, 2014

The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above dated Project Managers Meeting.

Chris Kemp
Chris Kemp, DOE-ORP

Date: 8-27-14

Wahed Abdul
Wahed Abdul, DOE-ORP

Date: 8/28/14

Jason Young
Jason Young, DOE-ORP

Date: 8/2⁵¹ 9/2/14

Jeff Bruggeman
Jeff Bruggeman, DOE-ORP

Date: 9/4/14

J. Lyon
J. Lyon, Project Manager,
Washington State Department of Ecology

Date: 8/28/14

J. D. McDonald
J. D. McDonald, Project Manager,
Washington State Department of Ecology

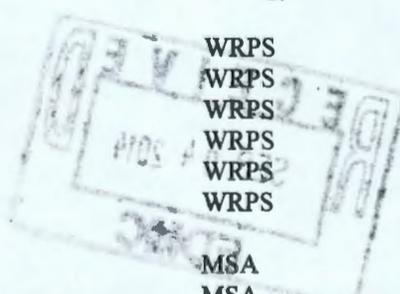
Date: 9-2-14



**ORP TPA Project Managers' Monthly (PMM) Meeting
 July 17, 2014
 2440 Stevens Center
 Richland, Washington
 Meeting Minutes Transmittal**

Distribution:

W. Abdul	ORP	H6-60
S. M. Braswell	MSA	H6-60
J. M Bruggeman	ORP	H6-60
J. A. Dowell	ORP	H6-60
S. H. Pfaff	ORP	H6-60
J. F. Grindstaff	ORP	H6-60
C. C. Harrington	ORP	H6-60
D. R. Hildebrand	RL	A6-38
F. B. Hidden	ORP	H6-60
B. J. Harp	ORP	H6-60
K. L. Higgins	ORP	H6-60
L. A. Huffman	ORP	H6-60
J. M. Johnson	ORP	H6-60
C. J. Kemp	ORP	H6-60
D. P. Knight	ORP	H6-60
J. J. Lynch	ORP	H6-60
E. M. Mattlin	ORP	H6-60
D. L. Noyes	ORP	H6-60
D. M. Smith	ORP	H6-60
S. C. Stubblebine	ORP	H6-60
G. D. Trenchard	ORP	H6-60
B. R. Trimberger	ORP	H6-60
W. R. Wrzesinski	ORP	H6-60
J. D. Young	ORP	H6-60
D. Becker	Ecology	H0-57
R. K. Biyani	Ecology	H0-57
A. S. Carlson	Ecology	H0-57
T. Z. Gao	Ecology	H0-57
J. J. Lyon	Ecology	H0-57
J. D. McDonald	Ecology	H0-57
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T. Beam	WRPS	H3-26
H. M. Bowers	WRPS	H6-14
J. W. Donnelly	WRPS	H3-26
J. A. Joyner	WRPS	H16-14
J. J. Luke	WRPS	H6-14
R. J. Skwarek	WRPS	H3-28
D. H. Butler	MSA	A3-01
R. E. Piippo	MSA	A3-01
ADMINISTRATIVE RECORD – Heather Childers:		H6-08



**ORP TPA Project Managers' Monthly (PMM) Meeting
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1.0 Administrative Items

Recent Items Entered/To Be Entered into the TPA Administrative Record - Mr. Lynch (ORP) noted recently entered items included DST emergency pumping guides, the latest monthly reports, and a completion letter for TPA Milestone M-045-91G-T03 Target Date, sent 7/7/14.

2.0 Agreements, Issues, Actions

Action No. 1. - TF-14-06-01. *Response/Letter for the C-101 Request to Forego 3rd Retrieval Technology.* Mr. Lyon (Ecology) stated he has completed the draft schedule and will get it out for peer review. The peer review should be completed and available to share with Ecology in a week.

Action No. 2. - TF-14-06-02. *Schedule an oversight opportunity with ORP and ECY for the WMA C PA modeling.* Mr. Kemp (ORP) reported that the C Farm Performance Assessment (PA) modeling is still in progress. He will work through Ecology to incorporate Tetra Tech.

Action No. 5. - TF-14-02-02. *ECY would like a schedule and project management plan (if available) for the closure of WMA C.* Mr. Kemp (ORP) reported this action remains open.

Action No. 6. - TF-14-01-01. *ORP and Ecology will work to complete revisions on the Hose-In-Hose Transfer Line Management Plan (RPP-12711) Revision 7. After Rev. 7 is approved a TPA Change Package will be submitted to make this a primary document.*

Ecology has sent a draft letter that is currently going through peer review for the 13 hoses of critical importance. Mr. Kemp (ORP) reported that he will meet with Ecology within a month to discuss Revision 7 to RPP-12711.

Action No. 8. - TF-13-02-03. *Ecology and ORP will continue to meet at the project manager level to discuss work on the WMA C PA and other options for M-045-61/-62/-82.*

Mr. Lyon (Ecology) reported they had finished their work internally on the report and would send a copy to ORP within a day. Mr. Kemp (ORP) said that they are on track to submit the RCRA Facility Investigation by the end of this year, but not the Corrective Measures Study.

Regarding the status of activities related to testing of deferred use lines from Ecology's November 13, 2013 letter (13-NWP-117), Mr. Johnson (ORP) stated he would address this item in the report on double-shell tanks.

TPA and CD Milestone Status:

Mr. Lynch (ORP) reported that two milestones M-047-07 and M-090-13 had been changed and that Ecology and ORP had signed a change package to move them from September 30th, 2014 to March 31st, 2016. Mr. Lynch also noted another change for milestone M-062-40ZZ, the one-time supplemental treatment technologies report, is forthcoming. He stated several letters had been exchanged listing it as to be missed. Also a draft change package is under review to delete that requirement. Mr. Lynch said that there has been no change to the milestone status on the Consent Decree Report.

Mr. Lyon (Ecology) wanted clarification that the retrievals are going to be done by September. Mr. Kemp (ORP) said excluding Tanks C-102 and C-105. Mr. Lyon asked if those were still at severe risk and not to be missed. Mr. Kemp said the wording is in the letter from the Department of Justice to the Attorney General and noted it was serious risk.

3.0 Review of the ORP Project Summary

Tank Farms

System Plan:

Mr. Harrington (ORP) reported that the most recent information is that the Attorney General's Office is speaking with the Department of Justice and they are coordinating the transfer of System Plan information. It should be near term, but exact details on timing and what will be transferred is not known. Mary Sue Wilson from the Attorney General's Office, would be the point of contact. Ecology stated their attorney would be the source of information from ORP. Mr. Harrington said the System Plan is still on schedule for the due date of October 31st. Ecology and ORP are assuming the System Plan falls under the Department of Justice scope of activities. Ecology stated they would follow-up with Mary Sue Wilson to confirm. ORP will follow-up with their internal staff to continue status update.

Acquisition of New Facilities; M-090-00 & M-047-00:

Significant Past Accomplishments. Mr. Lynch (ORP) reported again that Milestones M-090-13 and M-047-07 have been moved from September 30th of 2014 to March 31st of 2016. It was noted that the TPA change package had been distributed to the agencies and placed into the TPA configuration control system for the site.

Ms. Uziemblo (Ecology) asked if the white film evaporator would be coming back under the budget. Mr. Johnson (ORP) responded that there is currently no plan to bring it back, but that the white film evaporator is being evaluated in conjunction with WTP related direct feed initiatives. Mr. Lyon (Ecology) then asked if Bechtel was taking over. Mr. Johnson responded that they are considering that, among other technologies. Mr. Harrington (ORP) concurred. Mr. Lyon asked if it would be inside a facility or used in its original intent. Mr. Harrington said that was still being discussed. Ecology stated they liked the white film evaporator on top of the DSTs and SSTs as an alternative evaporator for getting rid of liquids.

Supplemental Treatment and Part B Permit Application; M-62-00,-20,-30,-45:

Mr. Lynch reported that the one-time supplemental treatment report is to be missed because ORP is not planning on producing the report. ORP is working on the change package with Ecology to delete that requirement.

242-A Evaporator Status:

Mr. Lynch (ORP) reported that WRPS is doing their readiness assessment and looking at technical and administrative modifications that might be needed. After that is completed, DOE ORP will do its own readiness assessment. Mr. Lynch also reported that in May, they supported an EPA Ecology compliance inspection of the 242-A Evaporator as part of an overall RCRA inspection of the site.

Mr. Lyon (Ecology) would like reports on what is planned to be recovered or what space is gained from these campaigns. Mr. Lynch clarified if he is asking for volume reductions. Mr. Lyon responded yes and that it could be estimates.

Action: ORP takes the request to report on estimates of volume reductions back to the 242-A Evaporator point of contact for consideration.

Double-Shell Tank System Update:

Mr. Johnson (ORP) reported that last fall it was discovered there could be liquid held up in the deferred use lines of the AW-048 pit. WRPS went in and removed the jumper that connected the low point in the line and drained those lines. WRPS also did some pneumatic testing, as requested by Ecology, on the encasements of those two lines and others in the pit to qualify them so they would no longer be on the deferred use list. The two lines that were holding the liquid passed the encasement test, but the SL-164 line did not pass the encasement pressure tests, so it was determined that a primary pipe has failed.

Ms. Hendrickson (Ecology) asked if they knew how or why it failed. Mr. Johnson (ORP) responded they don't know and they are doing additional work to evaluate that. They know through the testing that it is the primary pipe, they just don't know where or how.

Mr. Lyon (Ecology) requested a briefing on the situation, the operating history and pressure test sequences, and the plan for the future. Mr. Lyon would also like to know about the design of the SL-164. Mr. Lyon asked if the testing activities were related to the deferred use findings and it was confirmed. Mr. Johnson (ORP) clarified that two of the three lines are currently qualified for deferred use.

Action: ORP have a briefing on the design, history, testing process, and path forward for the deferred use lines.

Mr. Johnson (ORP) reported that they will continue ultrasonic testing in AP-106 and are procuring an Electro Magnetic Acoustic Transducer (EMAT) that will be incorporated into an existing ultrasonic test crawler and provide continued video inspections in AY-102.

Single-Shell Tank Integrity Assurance; M-045-91:

Significant Past Accomplishments. Mr. Johnson (ORP) reported that the Type IV Analysis of Record was transmitted and links have been added to the Administrative Record (AR). Also, the TX Farm Leak and Cause Location Report (Draft) has been completed and will be shared with Ecology. In addition, the sidewall coring effort has been completed and shipped to the testing laboratory. It was noted that the entire length of core was collected and preliminary results were starting to come in. Ms. Hendrickson (Ecology) asked if it was known what range they are coming in at. Mr. Johnson reported he hasn't seen the numbers, but has been told they're good.

Ms. Uziemblo (Ecology) asked if there are plans for end-of-year and fiscal-year summary reports for what was done this year on the in-tank camera work on the SSTs that was done for intrusion. Mr. Johnson (ORP) responded that they updated the suspect intrusion report last year and incorporated the results of the year's inspections and they are planning to do another update to incorporate this year's results that is planned to be done in September. Ms. Uziemblo asked if there was a plan for FY 2015 as to what tanks they will be looking at for visual inspections. Mr. Johnson said they are in the planning process and he does not have the list of proposed tanks, but they will continue general inspections. Ms. Uziemblo asked if they could share the list when it is prepared, and Mr. Johnson responded that they will.

In Tank Characterization and Summary:

Ms. Mauss (ORP) reported that six more updates have been done on the BBI and the updates are available in Tank Waste Information Network System (TWINS). The sampling analysis plan for SY-102 has been completed for the core sampling, tentatively scheduled for September for the first one, October for the second one. A couple of outstanding issues on the core sampler are (1) one of the counterweights broke on bringing up the sampler and (2) the platform rotation is slow, which causes additional radiation exposure for the workers as they spin and put it in the x-ray. While they are working on the sampler, they are also doing more training on the x-ray itself.

Ms. Mauss (ORP) reported that they were able to get a residual sample out of the C-112 tank with the clamshell and got good recovery. They got 160 grams. Mr. Kemp (ORP) added the C-112 tank sample is one of five planned retrieval data report samples. The rest of the retrieval data report samples will come in October, November, using the finger trap method off of the ERSS in the tank. Ms. Mauss stated they were pleased they got so much recovery.

Mr. Lyon (Ecology) asked if the revised Grab Sampling and Analysis Plan for 241-AY-102A (RPP-Plan-55529) had been transmitted. Ms. Mauss (ORP) said she would have it transmitted.

Mr. Lyon (Ecology) asked Ms. Huffman (ORP) about the Part A of the SST system and if ORP understood that the items listed as past practice in the Part A would need to have closure plans to meet RCRA requirements. Ms. Huffman responded that it was her understanding that ORP would not use a Tier 3 permitting approach to address SST past practice items. Ms. Huffman further

noted there have been discussions related to those elements that are covered by 200-IS-1 and that there would be appendices covering the closure requirements.

Ms. Huffman (ORP) stated that if the past-practice items are not TSDs, then that might give more flexibility in how to manage them, but there would have to be agreement. Ms. Huffman and Mr. Mathey (Ecology) will meet further to discuss this. Mr. Lyon (Ecology) clarified again that items listed in the Part A they consider TSDs. Ms. Huffman agreed. Mr. Lyon noted that there were changes that needed to be made to the SST Part A. Ms. Huffman stated that ORP has prepared a draft SST Part A revision they are wanting to have reviewed for feedback. ORP is also looking to set up a meeting with Ecology to discuss this item.

Mr. Hildebrand (DOE-RL/ORP) asked if the draft Part A that was submitted identified the pipelines as past practice. Ms. Huffman (ORP) didn't think so. Ms. Huffman clarified the revised Part A was still in draft form and not a submittal. Mr. Lyon (Ecology) and Mr. Mathey (Ecology) will review it further.

Tank Operations Contract (TOC) Overview:

Ms. Higgins (ORP) reported for May. The contractor worked 74 days without a lost time workday injury and two days since the last recordable. Overall, SPI is at 0.98 and CPI is 1.07 for the month. The fiscal year to date was 0.95 and 1.03, and contract, to date, is 0.99 and 1.0.

Base Operations and Tank Farm Projects. Ms. Higgins (ORP) reported that the current month's unfavorable schedule variance was \$3.06 million. This was due to (1) delays in the installation of power for the transfer pumps at DST AZ-102, (2) delays to the start-up of the evaporator campaign due to unplanned corrective maintenance activities on the pump room jumper, (3) DST transfers related to the evaporator campaign, (4) additional videos at DST for AY-102 Administrative Order, and (5) delays to the DST SY-102 core sampler due to the readiness issues.

Ms. Higgins (ORP) reported the current month's favorable cost variance of \$1.2 million is due to (1) delays in filling vacancies for maintenance service and radiation protection at the lab, (2) AY/AZ Farm upgrade projects, (3) less costs with the Waste Management Program, and (4) labor efficiencies in engineering during development activities to the DST ventilation upgrade work scope.

Retrieval and Close Single-Shell Tanks. Ms. Higgins (ORP) reported the current month's favorable schedule variance of \$2.07 million was due to performing C-

102 retrieval operations activities ahead of schedule. The current month's favorable cost variance of \$475K is for the same reason.

Waste Feed Delivery/Treatment/Double-Shell Tank Retrieval Closure. Ms. Higgins (ORP) reported an unfavorable schedule variance of \$1.6K. They had a favorable cost variance of \$869K due to WTP interface management activities requiring fewer labor resources than planned and IDF Glass Testing due to less engineer resources needed.

Supplemental Treatment. Ms. Higgins (ORP) said there was nothing to report.

Treat Waste. Ms. Higgins (ORP) reported a favorable schedule variance of \$421K due to IPS design accelerating the conceptual design section. The current month's favorable cost variance is \$138K and is due to the Ion Exchange white paper that was less than budgeted. The preliminary Hazard Analysis was also less than budgeted, and the IPS Permitting was less than planned.

Single Shell Tank Corrective Actions M-45, -50, -60:

M-045-22 series. Mr. Kemp (ORP) reported the TX characterization is on schedule. The U Farm characterization, Target 2 is complete, and the SX soil desiccation and contaminant removal study is complete. Mr. Kemp said they will be completing the TX work by the end of this year, and then they will move on to M-045-92. There are also discussions about future barriers ongoing with the Consent Decree discussions separate from this.

M-045-56J. Complete Implementation of Agreed to Interim Measures. Mr. Kemp reported the meeting is set for next week so the annual report will be completed.

M-045-61 and 62. The RFI should be completed by the end of this calendar year and the CMS will not be completed. Ecology will be commenting on the proposal provided a few months ago.

M-045-92. Complete Installation of Four Additional Interim Barriers. Mr. Kemp reported this is on schedule for 2017, and SX Farm barriers 1 and 2 current design covers 12 of the 15 tanks there.

TPA-SST Retrieval and Closure Program; M-045-82:

Mr. Kemp (ORP) reported the permit mod request for September 30th, 2015 in C Farm is to be missed.

Mr. Kemp (ORP) noted the list of the retrieval data reports was provided in the handouts. He pointed out that he sent a draft of the C-110 retrieval data report to Ecology for review before the start of signatures within ORP. Also, it will take two to three weeks to go through the concurrence process.

Significant Past Accomplishments. Mr. Kemp (ORP) reported that for the month of June, ORP completed logging of the drywells near C-104, C-109, and C-110. In addition, there's a number of drywells that are being neutron probe logged at AX Farm and work is continuing. Mr. Kemp (ORP) noted that Mr. Barnes (Ecology) had asked if they found any tank dome vapor chemicals beyond what they've found so far. Mr. Kemp had discussions about that with Mr. Urie, but they were going to continue with that action. Mr. Barnes added the comment that if there are any new compounds found, they need to be added to the permit, as well as consideration for the DQO and staff.

Mr. Kemp (ORP) again noted that there was good recovery with the C-112 single sample using a finger trap through an existing riser. Mr. Barnes (Ecology) suggested that in the analysis of the C-112 sample, they also test for metals because in the C-103 uniformity, they found that if the iron and aluminum match, then the sample was homogenous. The concern is whether the sample is representative of the whole tank. Mr. Kemp and Ms. Mauss (ORP) will talk after the meeting on how they will do that.

Tank Waste Retrieval Work Plan (TWRWP) Status. Mr. Kemp (ORP) reported that they are up to date on the list of TWRWPs and there is no other reporting.

CD-SST Retrieval and Closure Program:

Milestone D-00B01. Mr. Kemp (ORP) reported the status is ongoing, noting the earlier discussion about the notification that happened from the Department of Justice on Tank C-102 and C-105. The retrieval completion certifications are ongoing.

Milestone D-00B-02. Mr. Kemp reported this has been completed.

Milestone D-00B-03 and D-00B-04. Mr. Kemp reported these are ongoing and are in discussion with the consent decree negotiations going on between Washington State Attorney General and the Department of Justice.

Significant Past Accomplishments. Mr. Kemp (ORP) reported that they had a significant learning curve on the complex retrieval system with the C-105 MARS vacuum and the operations retrieval efficiency has been disappointing so far. They

have been able to update and get one level probe operating in a waste accumulator tank, but they will continue troubleshooting C-105 and move over to do a retrieval of the third retrieval technology at Tank C-107.

Mr. Kemp (ORP) reported that in Tank C-111, they believed they resolved the electrostatic pitting of the hydraulic hoses, but they have two hydraulic hoses that failed at C-111, both ERSSs, due to radiation degradation of those lines. While they continue working on that, they will move over to Tank C-102, where over 30 percent of that tank has been retrieved, and start it up.

Significant Planned Activities in the Next 6 Months. Mr. Kemp (ORP) reported that the report is not accurate because of recent findings on the equipment at C-105 and C-111. He has discussed that with Ecology.

Tank Waste Retrieval Work Plan Status. Mr. Kemp (ORP) reported this is identical to the TPA report.

Tank Retrievals with Individual Milestones. Mr. Kemp (ORP) reported no status change.

Action: Set up a meeting regarding the deferred use lines. Ms. Mauss (ORP) will send a report for the AY-102.

Mr. Kemp (ORP) notes for the minutes the suggestion by Mr. Barnes (Ecology) for the C-112 sample, and will get together with Billie and Susan on that. Mr. Kemp also noted for the minutes that any finding of new vapors, head space, gas samples be considered for the DQO staff and permit.

Waste Treatment and Immobilization Plant

Mr. Noyes (ORP) reported not a big change in activities. Pre-treatment (PT) activities continue to be the high-level waste civil construction activity. The technical issue resolutions continue to move forward and Low Activity Waste (LAW), Lab, and Balance of Facilities continue to move forward in construction. The population of the Project is 2,300, approximately the same. They are working on bringing the number up by a couple hundred engineers. There are about 1,100-1,200 workers on-site.

Basic Performance will continue to see a negative schedule performance because the baseline activities for LBL are different than what is being performed. The positive side is the overall cost of the work was at or better than scheduled.

Significant Basic Accomplishments: Mr. Noyes (ORP) reported they achieved a major milestone in the Full-Scale Test Facility, running integrated water testing for part of the start-up of the commissioning of the facility. The Bechtel control system was working effectively. They are still working to initiate actual control testing activities by July 24th with the RLD-8T vessel.

Mr. Biyani (Ecology) asked about the BNI software being ready for the pulse jet mixers (PJMs). Mr. Noyes clarified that what he was referring to was the control system for the pulse jet mixers and that this was not testing, this was just commissioning of the facility.

Mr. Noyes noted that they are continuing to work the technical issues, including the standardization of design of the eight vessels related to the high-level solids which were a challenge. Continued civil rebar work on the HLW Facility and crane rail installation was completed in the LBL. Conducted hydro testing. Installed approximately 3300 linear feet of piping, installed 2800 linear feet of conduit for electrical work, and pulled 24,000 feet of cable in LAW.

Mr. Biyani (Ecology) asked about the vessel size and volume report, would like to review it if it can be shared. Mr. Noyes thought it was a standard report and will get the document number. He further explained that this is the initial conceptual report, not decision-making. Mr. Biyani questioned if the report explains how it replaces the largest vessels and the thought process. Mr. Noyes replied that would be summarized, but not complete on how it would be implemented yet.

Mr. Noyes noted the Emergency Turbine Generator and the draining of Fire Service Water for re-coating. Completed the physical repairs for RLD Vessel 164.

Significant Planned Actions in the Next 6 months: Mr. Noyes said they are still working the decision to resume full engineering and developing the actions and pathways for PT resumption in terms of engineering. Complete installation of the auto-sampling system, complete the LAW Facility design and operability review, complete the Glass Former Facility, complete the last part of the RLD vessel certifications. They are working to update the 2-year work plan for PT and H/LW to be the tool they use to measure performance for the next two-year interim period.

Pretreatment Facility:

Mr. Abdul (ORP) reported that all the work is on the technical issue resolution and authorization for PT resumption plan. Bechtel has sent the resolution plans for the eight technical issues as requested, and ORP is doing the review. Bechtel also sent an overall resumption plan, and ORP is reviewing that. Mr. Abdul said that by September they plan to approve the plan for the resumption target towards next year ~~and~~ for resumption of production engineering.

Mr. Biyani (Ecology) asked about the letter to Bechtel and if it was number WPT-69. Mr. Abdul (ORP) did not know the number, but he will check. Mr. Biyani asked if it states the requirements for the PT resumption and Mr. Abdul responded that it does. The letter of direction sent in May instructs Bechtel to prepare a plan. It also requires a safety design strategy be developed like the one they developed for HLW.

Action: Mr. Abdul (ORP) said he would send a copy of the letter of direction if not received and the standard vessel report for PT to Mr. Biyani (Ecology).

Mr. Biyani (Ecology) asked about the business case study. Mr. Abdul (ORP) reported that is for the standard high-solid vessels and that it is not complete yet. Mr. Biyani asked when it would be complete. Mr. Abdul said that because they have to do some of the features and development with figuring out an eight-foot test facility, he didn't know when it would be complete. He thought the later part of this year.

Mr. Biyani (Ecology) then asked if the simulant recipes are finalized with the National Labs. Mr. Abdul (ORP) said that phase 1 is final and getting ready for the testing. Phase 2, there is still review going back and forth. This is for the PJM control system and this is the RLD-8 testing only. Mr. Abdul said he thought the plan to finalize the test plan with all the simulant would be August sometime. Mr. Biyani asked if there is a document to review yet. Mr. Abdul said that Bechtel's document is not complete yet. He will find out what the lab submitted and if there is a clean-cut document he will provide it. If it's multiple ones, he will let Mr. Biyani know. Mr. Biyani stated he wants to know what they come up with.

Action: Mr. Abdul (ORP) will provide Ecology with PJM control system and RLD-8 testing report.

High-Level Waste Facility:

Mr. Abdul (ORP) reported construction is ongoing; one slab has been placed and there is a plan for one to two placements every month. Some electrical raceway steel installation is going on. Mr. Abdul reported that all the efforts for HLW are for authorization to proceed. Limited authorization was given in June. The safety design strategy is still open, which Bechtel has submitted and it's ready to be completed by the end of the month. All the procedure reviews by Bechtel have been done and approved by ORP. Still needed are the system engineering management plan and the process for comment flow-down in order to obtain full authorization to proceed. Mr. Noyes noted that with the SDS, there's some interface points coordinating with the chief of nuclear safety at headquarters and some others, so that activity is ongoing. Mr. Abdul (ORP) said it should be by the end of the month or the first week of August. He also thought it was successful because there are a significant amount of people in Bechtel and DOE as part of the whole review process. He noted there was a combination of a lot of things taking place for a test-run. *approval of the authorization to proceed.*

Mr. Abdul (ORP) also reported that Bechtel has an RLD-8 redesign that they want to go forward with the vendor procurement for doing the fabrication design. He noted that there is two to two-and-a-half years of scheduling from the time they have work to the vendor to when it gets fabricated and could be installed. The RLD-8 redesign *JE DDPF* guide was submitted by Bechtel several months ago and it is being reviewed by ORP.

Mr. Biyani (Ecology) asked for clarification that RLD-8 is being redesigned and there is testing of a prototypical vessel. Mr. Abdul (ORP) responded yes. Mr. Biyani asked how different is the design of the new vessel, and Mr. Noyes responded they don't know because it hasn't been designed. He stated that they are testing RLD-8 for a control system, not for prototypical mixing. That will be later. Mr. Abdul also stated that the key features are already incorporated into the RLD-8 test vessel, such as the *suction* fraction line going down.

Action Items:

Action No. 1. WTP-14-06-01. Ecology would like a schedule for the Full-Scale Vessel Testing.

Mr. Abdul (ORP) will take care of that.

Action No. 5. WTP-13-04-01. Energy to status on the RVP Wave I path forward, RVP Wave II.

Mr. Abdul (ORP) reported this was already briefed last month and he will get the date this was closed.

Action No. 2 – WTP-14-06-02. Ecology requests that DOE provide a presentation on how DOE incorporates, vets, and considers all technical issues (including Safety Design Strategy).

Mr. Noyes reported this is his action and that August, early September will be the timing for that. It was agreed that Mr. Lynch will remove the Management Implementation Plan language.

Low-Activity Waste Facility:

Mr. Bruggeman (ORP) reported that LAW is about 70 percent complete overall.

Significant Past Accomplishments. Issued all DX air conditioning piping isometrics on the +48 foot elevation for fabrication. Also completed stage 1 placement underneath the dam in both melters. They've got big blocks, electrodes on both north and south sides. They need to continue placements on the walls so they can finish the refractory. Mr. Biyani (Ecology) asked about the completion date of the melter refractory. Mr. Bruggeman (ORP) said the end of the calendar year is the schedule to complete the internal refractory but not the lid.

The hydro testing continues a number of feet every month, along with the conduit and cable. Those are being done at night because of the congestion that's caused.

Significant Planned Actions in the next 6 months: Continue to work finishing the auto sampler. Get the purchase order for the gas analyzers in place. The TCO is still on schedule for May of '15 delivery and the IQRPE review is also due. Then they will continue work on the LAW design operability review. The review should finish up the end of July and then the report will be out late September, early October.

Mr. Biyani (Ecology) asked for an update on what's been done. Mr. Noyes stated they are doing the review and not a lot of status briefings have been done because last time it got published in the press. He stated they are working through the systems, collecting the information, communicating with Bechtel and putting together reports; should have the report write-up in a couple weeks. Mr. Biyani asked if there are any significant findings. Mr. Noyes responded that there are preliminary findings they are working through. Mr. Bruggeman (ORP) also responded that they are not classified as findings. They are identifying structural vulnerabilities.

Mr. Biyani (Ecology) wanted clarification that it wasn't supposed to be released to the media and it was. Mr. Noyes said that there were a lot of in-process reviews and that information got out to the press. Ms. Jones stated that Ecology has a concern because they were told they would be included in the LAW design reviews and have had one meeting in April and haven't heard anything since. Ecology would like to know if DOE has decided to not include Ecology in these design operability reviews because that has not been communicated. Mr. Noyes said his understanding was Ecology wasn't a member of the team or included in the review. They have done one briefing and Ecology was included. He stated it's an ongoing activity and when it is done, Ecology can evaluate the results.

Mr. Biyani (Ecology) noted this is different than what happened with HLW. Mr. Noyes agreed and said they are allowing the team to work through it. They feel more confident in the team and its abilities and they are getting support from BNI. Ecology noted again that it is good for them to be kept informed of what's happening because they are going to be involved in permitting and are permitting LAW currently; if they don't understand what the design changes are, they can't approve new design or modifications. Ecology recommended a briefing at the WTP Brown Bag. Mr. Noyes expressed they are proceeding consistent with what they thought the understanding was, but he will be happy to give a briefing. They do not have a report or product yet, and it's going along schedule. They are working to finish the physical reviews and get a report out in September or October and it will be available to Ecology.

Action Item: Have a discussion with Ecology regarding the in-progress information at LAW Facility.

Balance of Facilities:

Mr. Young (ORP) reported that the engineering and procurement efforts have been focused on working through the commercial grade dedication process for the emergency turbine generator and trying to find the most optimum way to do that. They have been successful. They have gotten through the comments that previously existed from DOE to Bechtel and Bechtel has issued the execution plan for dedication of the emergency turbine generator for the entire procurements and executions and overview of the entire procurement.

Other areas of activity are modifications to the cathodic protection system. Bechtel is in the process of installing approximately 10 coupon test stations which will allow readings to be taken on the piping that's in the ground and evaluate the

readings seen with the criteria. The criteria set out by NACE has been revised, and they are certain the system will meet that. At that point, they will know where the system needs further modification to get into compliance. This is the first phase of an iterative process. The next phase will be to install anodes or rectifiers as needed and bring troubled locations to within specifications.

Mr. Biyani (Ecology) inquired as to whether all the systems are on and operating. Mr. Young stated they are on and currently operating, and they are trying to install some additional capacity to measure what's going on and ensure the system is up and running within the specified criteria. Mr. Biyani then asked if there is a plan to go back and test certain portions of the pipes to examine them. Mr. Young said there are two issues going on: The cathodic protection system modification to get the system up and running within the criteria and a parallel issue, which is the verification of integrity for the underground piping. Bechtel is currently working on a report that's going to outline the process and the technical justification for it. They are expecting the report within a month. It is something that they have been actively working with Bechtel on.

Significant Past Accomplishments. Mr. Young (ORP) went on to report that they are continuing flush pool modifications inside the Chiller Compressor Plant. Mr. Young will provide to Ecology the emergency turbine generator execution plan for design verification. There was an issue with coatings on some of the above-ground tanks and fire service water tanks have to be drained. They are being drained one at a time to maintain capabilities for fire service water.

Significant Planned Actions in the Next 6 Months. Mr. Young (ORP) said they are pushing toward completion for the Glass Former Storage Facility, but they have an issue with procurement on some of the instrumentation that may delay the completion. The majority of the work is done, but there are a couple of instruments to get into place that they are working on. Mr. Young also reported that they are going to complete the repair work of the fire service water tanks and receive the new replacement Non-radioactive, Non-dangerous, Liquid Drain (NLD) panel.

Mr. Young mentioned that they have placed the standby diesel generator on its slab. This was not noted in the report, but will be in the next report. Ms. Gao asked for further explanation, and Mr. Young explained that the emergency turbine generator provides backup power for all of the safety systems, but the standby diesel generator provides the backup power for other non-safety systems.

Analytical Laboratory:

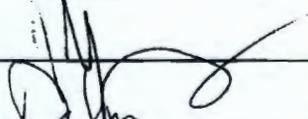
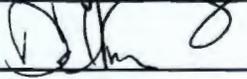
Significant Past Accomplishments. Mr. Young (ORP) reported that the LAB is through the bulk of their installation of the electrical commodities. They are still doing some piece part electrical installation for cable installation and terminations and some process system instrument installation. The physical work on RLD vessel 164 is complete and that was the last of the remaining RLD vessels. The static test for that is next and they'll start the closure welds where they attach the pieces from the vessel to the permanent plant piping.

Significant Planned Actions in the Next 6 Months. Mr. Young said that they will be going through the paperwork process to finish certification and submit the verification packages for the vessels. The bulk of penetration seals for LAB have been installed and they are continuing to complete the rest, which should finish this year.

Sign In Sheet
ORP TPA Project Managers' Monthly Meeting
July 17, 2014

NAME	ORG	PHONE
ROB PIRRO	MSA/HOB	373-3235
Chris Harrington	ORP	376-1239
Chris Kemp	ORP	373-0649
Kathy Higgins	ORP	316-3658
Michelle Henderson	ECM	372-7970
Jeff Luke	WRP	
Nancy Azembel	Ecology	312-7928
Mike Barnes	Ecology	372-7927
Julie Robertson	Freestone	943 5222
Arlene		
Nitya Chandran	Ecology	312-7931
Mandy Jones	Ecology	312-7916

Sign In Sheet
ORP TPA Project Managers' Monthly Meeting
July 17, 2014

NAME	ORG	PHONE
Jeff Lyon	Ecology	539-1996
Jeremy Johnson	ORP	376 1866
Shelby Simon	ODOE	(SA) 240-0141
Jared Mathey	Ecology	372-7949
Susan Eberlein	WRPS	372-1689
Sharon Brauer	ORP/MSA	376-9292
Lori Huffman	ORP	376 004
A. D. Hubbard	DOLE	373-9626
Walter Johnson	MSA	326 4384
Jeff Bruggeman	ORP/WTP	438-0444
	ORP	619-3217
	ORP-WTP	376-5166
Tracy Gao	ECY	372-7901
Rabbie Biyani	ECY	372-7884
Wahed Abdul	ORP/WTP	438-0455
Annette Carlson	ECY	372-7897

**July 17, 2014 ORP Project Managers' Monthly Meeting
2440 Stevens Center Richland, Washington
Room 1600, 9:00AM-11:30AM**

AGENDA

1.0 Recent Items Entered/To Be Entered into the TPA Administrative Record
(see <http://pdw.hanford.gov/arpir/index.cfm/advancedSearch>)

Item Description	TPA/CD Topic Milestone Tie	TPA Admin Record – EDMC File Number
June 2014 TPA Monthly Summary Report	All	1226116
June 2014 CD Monthly Summary Report	All	1226117
Meeting Minutes for DST Emergency Pumping Guide, dated 05/28/2014	DST Emergency Pumping Guide	1226126
Meeting Minutes for DST Emergency Pumping Guide, dated 06/11/2014	DST Emergency Pumping Guide	1226127
Meeting Minutes for DST Emergency Pumping Guide, dated 06/25/2014	DST Emergency Pumping Guide	1226402
Completion Letter for HFFACO Target Date M-045-91G-T03, dated 07/07/2014	M-045-91G-T03	1226308

2.0 Agreements, Issues, Action Items

3.0 Review of the ORP Project Summary

➤ Status of Activities Related to Testing of Deferred Use Lines from Ecology's November 13, 2013 letter (13-NWP-117)

The flexible metal jumper connected to 'deferred' use 241-AW Tank Farm transfer lines SN-264 and SN-274 was removed in May of 2014 to allow liquid held up in the line to drain. As the liquid drained into pit 241-AW-04A it was evident the pit drain was severely restricted, thus limiting drainage of residual liquid from the pit to Tank AW-104. Transfer lines SN-264 and SN-274 both successfully passed pneumatic tests of the secondary encasement and primary pipe. Deferred use transfer line SL-164 failed several pneumatic tests of the secondary encasement and primary pipe and subsequent testing revealed the primary (core) pipe to have failed. Transfer line SL-164 will be isolated from service. There are no indications of a release to the environment.

4.0 Key Documents List

Upcoming Meetings

- The August 2014 ORP TPA Quarterly Milestone Review/IAMIT Meeting is scheduled for Thursday, August 21, 2014 from 8:30-11:00AM in Ecology Room 3A/B.

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

Agreements:

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

Issues:

1. Ecology has a concern with WTP data being reported exclusively in the CD Monthly Summary Report as the current CD reporting process does not allot ECY early review time of the CD Monthly Summary Report. ORP and ECY have raised this concern for discussion at the Senior Management levels.
2. AY-102 Primary Tank Leak: Tank 241-AY-102 (AY-102) is an approximate one million gallon underground double-shell tank (DST) containing mixed radioactive and hazardous waste located in the 241-AY Tank Farm (AY Farm). In August 2012, a leak to the annulus was detected. DOE submitted a pumping plan & revised pumping plan to Ecology, both of which were rejected. On March 21, 2014, Ecology issued Administrative Order Docket #10156 against DOE and WRPS alleging violations of 40 CFR 265.196 and identifying 14 action items that DOE/WRPS must comply with including the pumping of AY-102. On April 18, 2014, DOE and WRPS filed Notices of Appeal and Motions to Stay the Administrative Order with the Washington State Pollution Control Hearings Board (PCHB). A Prehearing Conference was held on May 8, 2014. The legal issues of the case were identified and a case schedule has been set based upon a hearing date in October 2014. DOE will continue working with Ecology on the path forward for this tank and is committed to safely managing the tank farms to protect the workers, public and the environment.
3. T-111 and Other Single Shell Tank Level Decreases: ORP and WRPS have determined that 19 of the 20 single shell tanks showing decreased liquid levels at the Hanford Site are not actively leaking. Evaluation documents are available online at: <http://www.hanford.gov/page.cfm/SingleShellTankEvaluations>

Tank Farms Action Items							
#	Action ID	Date Initiated	Action	Action Status	Updates / Needs for Closure	Actionee(s)	Date Closed
1	TF-14-06-01	06/19/14	Response/Letter for the C-101 Request to Forego 3 rd Retrieval Technology	Open.	Request provided on 02/18/14 via ORP Letter 14-TF-0012	Lyon	
2	TF-14-06-02	06/19/14	Schedule an oversight opportunity with ORP and ECY for the WMA C PA modeling	Open.		Kemp / Hildebrand	

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

Tank Farms Action Items							
#	Action ID	Date Initiated	Action	Action Status	Updates / Needs for Closure	Actionee(s)	Date Closed
3	TF-14-03-01	03/24/14	ORP will set up additional meetings with ECY to discuss the Low Activity Waste Pretreatment System (LAWPS) and the Direct Feed LAW Initiative.	Closed.	Briefing to ECY held on 06/25/14.	Pfaff / Wrzesinski	06/25/14
4	TF-14-03-02	03/24/14	ECY would like more information on the Tank Waste Characterization and Staging Facility (TWCS) and the Direct Feed HLW Initiative when it becomes available. <u>07/03/14 Update:</u> No change in status. TWCS CD-0 submittal sent to DOE HQ for approval. ECY will receive a briefing should there be a change in status. ORP recommends closing this action until change in project status.	Open.	ORP provided an initial email with a description of TWCS activities to ECY on 03/24/14.	Wheeler / Wendell / Harp	
5	TF-14-02-02	02/18/14	ECY would like a schedule and project management plan (if available) for the closure of WMA C.	Open.		Kemp	
6	TF-14-01-01	01/28/14	ORP and ECY will work to complete revisions on the Hose-In-Hose Transfer Line Management Plan (RPP-12711) Revision 7. After Rev 7 is approved a TPA Chg Pckg will be submitted to make this a primary document.	Open.	ORP needs a letter from ECY to approve extension of HIHTL removals to FY15 to avoid retrieval impacts.	Kemp / Fox / Alzheimer	
7	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	
8	TF-13-02-03	02/21/13	ECY and ORP will continue to meet at the project manager level to discuss work on the WMA C PA and other options for M-045-61/-62/-82.	Open.	ECY proposal presented to ORP on 03/26/14. ORP provided redline-strikeout comments to ECY on 04/22/14.	Kemp / Eberlein / Mathey	

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

WTP Action Items							
#	Action ID	Date Initiated	Action	Action Status	Updates / Needs for Closure	Actionee(s)	Date Closed
1	WTP-14-06-01	06/19/14	ECY would like a schedule for the full-scale vessel testing	Open.		Wahed Abdul	
2	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.	Discussion at the 06/19/14 PMM revolved around the Management Implementation Plan accomplishing much of the technical issue integration.	Wahed Abdul	
3	WTP-14-06-03	06/19/14	ECY requests a briefing on the LAW design operability review before the September timeframe.	Open.		Jeff Bruggeman	
3	WTP-14-04-01	04/22/14	ORP and ECY have a placeholder action to hold a comprehensive briefing/discussion on the PT efforts by August 1, 2014.	Open.		Delmar Noyes	
4	WTP-13-04-03	04/23/13	ORP will update ECY on a monthly basis on the path forward for the TCO vendor concerns.	Open.	On-going, status given monthly.	Jeff Bruggeman	
5	WTP-13-04-01	04/23/13	ORP will meet with ECY to discuss status on the RVP Wave I and path forward for RVP Wave II.	Open.	Wahed took the action to follow-up with Gary and close with ECY.	Gary Olsen / Wahed Abdul	



FINAL

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



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

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

CD = Consent Decree 08-5085-FVS

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

Milestone	Title	Due Date	Completion Date	Status
Fiscal Year 2015 Continued				
M-045-91H	Submit Change Pkg (if necessary) to est. Additional Milestones	07/31/2015		On Schedule
M-045-82	Submit Comp. Permit Modification Request for Tiers 1,2,3	09/30/2015		To Be Missed

AOR = Analyses of Record.

CD-1/-2 = critical decision-1/-2

CR = change request.

DOE = U.S. Department of Energy.

Ecology = Washington State Department of Ecology.

RCRA = Resource Conservation and Recovery Act.

SST = single-shell tank.

TPA = Tri-Party Agreement.

WMA-C = Waste Management Area C.

System Plan

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

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

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

Significant Planned Actions in the Next 6 Months:

- Complete HTWOS modeling of Ecology defined Cases 1 – 5.
- Complete DRAFT writing of non-technical sections for System Plan 7 document

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, ~~2014~~.

2016.

Significant Planned Actions in the Next 6 Months:

None.

Issues:

None.

Supplemental Treatment and Part B Permit Applications

M-062-40ZZ, Submit a one-time Tank Waste Supplemental Treatment Technologies Report if a supplemental treatment technology is proposed other than a second Low-Activity Waste (LAW), Due: October 31, 2014, Status: To Be Missed.*

M-062-45ZZ (designation for M-062-45 item #3), Negotiate a one-time supplemental treatment selection, Due: April 30, 2015, Status: On schedule. Negotiations are not yet underway.

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

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

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

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

M-062-45XX, No later than December 31, 2021, the DOE and Ecology shall complete negotiations to establish a mechanism that will apply to resolve future disputes regarding the determinations in M-062-45, paragraphs 4 and 5, Due: December 31, 2021, Status: On schedule.

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

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

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

Significant Past Accomplishments:

*Per ORP letter 14-TF-0052, signed by ORP on May 6, 2014 and provided to Ecology on May 7, 2014, ORP documented the ORP/Ecology discussions for the One-Time Hanford Tank Waste Supplemental Treatment Technologies Report and that ORP does not intend to submit this report. ORP received Ecology's response letter, 14-NWP-110, on May 29, 2014. A draft TPA Change Package to delete the requirement for the One-Time Hanford Tank Waste Supplemental Treatment Technologies Report has been shared with Ecology.

Significant Planned Actions in the Next 6 Months: None.

Issues: None.

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

242-A Evaporator Status:

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

Fiscal Year	Campaign No.	Feed Source	Slurry Tank	Comments
FY 2010	10-01	AW-106	AW-106	Campaigns 10-01/10-02 were performed back-to back starting in late August and completing in early October 2010. Campaign 10-02 was an acceleration of previously planned Campaign 11-01.
FY 2010	10-02	AW-106	AW-106	
FY 2011	NA	NA	NA	No campaign conducted in FY 2011 due to ongoing 242-A and tank farm facility life extension and <i>American Recovery and Reinvestment Act</i> funded upgrades.
FY 2012	NA	NA	NA	No campaign conducted in FY 2012 due to ongoing 242-A and tank farm facility upgrades and revision to the 242-A Documented Safety Analysis.
FY 2013	NA	NA	NA	No campaigns to be conducted in FY 2013 due to ongoing 242-A and tank farm facility upgrades and revision to the 242-A Documented Safety Analysis.
FY 2014	13-01	AP-107	AP-107	Estimated start late August to early September 2014. Requires two passes to achieve waste volume reduction.
FY 2014	14-01	AW-106	AP-107	Estimated start November 2014.
FY 2015	14-02	AZ-102	AP-103	Estimated start February 2015.
FY 2015	15-01	AW-106	AP-103	Estimated start August 2015.
FY 2015	15-02	AZ-102	AP-103	Estimated start October 2015.

FY = fiscal year.

NA = not applicable.

The WRPS Readiness Assessment is underway and WRPS is working to address several technical and administrative modifications. DOE-ORP is beginning preparations for a separate DOE RA which will be completed before authorizing the 242-A Evaporator for operational campaigns.

In addition, staff supported the joint EPA/Ecology compliance inspection at the 242-A Evaporator Facility on May 20, 2014.

Double-Shell Tank System Update

- AZ-01A Gear Actuator Replacement completed March 3, 2014, four months ahead of schedule, in support of upcoming AZ-102 recirculation
- Encasement pressure checks and National Association of Corrosion Engineers (NACE) inspections have been completed and successfully passed the acceptance criteria at AP-01A pit for waste transfer lines SN-611 and SL-511, AP-03A for waste transfer lines SN-613 and SL-613, and at AP-04A pit for waste transfer lines SN-614 and SL-514. All NACE inspections and encasement pressure checks of active waste transfer lines for FY14 have been completed.

Ultrasonic Testing

- Collecting data from AP-106.
- Procurement of the Electro Magnet Acoustic Transducer (EMAT) equipment placed for delivery before August 19, 2014.

Visual Inspection

- Continued weekly inspections of AY-102 Risers 77, 83, and 87.
- Continued monthly comprehensive inspection of AY-102 annulus

Single-Shell Tank Integrity Assurance

M-045-91G-T03, Provide to Ecology the structural analyses of record final documentation for single-shell tanks (SST) for 1,000,000 gallon tanks (A, AX, and SX Farms), Due: October 31, 2014, Status: On schedule.

M-045-91F-T04, Provide to Ecology, as a Hanford Federal Facility Agreement and Consent Order secondary document, a report on the 100-series SSTs, which have been or will be identified as having leaked in RPP-32681, Rev. 0, Due: December 26, 2014, Status: On schedule.

M-045-91G-T04, Provide to Ecology the structural analyses of record final documentation for SSTs for 55,000 gallon tanks (B, C, T, and U Farms), Due: January 30, 2015, Status: On schedule.

M-045-91B-T01, Provide Ecology a report containing the results and interpretation of testing and analysis, performed on the concrete core obtained from Tank A-106 or an alternate tank, Due: January 31, 2015, Status: On schedule.

M-045-91F-T02, Provide to Ecology as a Hanford Federal Facility Agreement and Consent Order secondary document a report evaluating the common factors of liner failures for SSTs that have leaked and will provide recommendations as appropriate, such as enhanced leak detection, monitoring, and mitigation, Due: March 31, 2015, Status: On schedule.

M-045-91F, Provide to Ecology a report (Summary Conclusions Report on Leak Integrity) summarizing and evaluating the information submitted under M-045-91F-T01 through M-045-91F-T04, Due: June 30, 2015 Status: On schedule.

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

M-045-91H, Submit a change package (if deemed necessary by DOE and Ecology) to establish additional milestones based on information obtained from the actions in the preceding M-045-91 series of milestones to date, Due: July 31, 2015, Status: On schedule.

M-045-91I, Provide to Ecology an Independent, Qualified, Registered Professional Engineer (IQRPE) certification of SSTs structural integrity for the remainder of the mission, or for such time as the IQRPE believes he/she can reasonably certify, Due: September 30, 2018, Status: On schedule.

Significant Past Accomplishments:

- Transmitted the TYPE IV AOR and tank-to-tank interaction analysis to Ecology on July 7, 2014 via ORP Letter 14-TF-0074 to complete M-045-91G-T03.
- The leak cause and location analysis for 241-TX Farm, RPP-RPT-54917 was approved by WRPS and submitted for External Clearance Review and Release.
- In support of M-045-91B-T01, the Tank A-106 sidewall core was received and inspected by the offsite testing laboratory.

Significant Planned Actions in the Next 6 Months:

- Testing of the Tank A-106 sidewall core will start July 7th, under witness of a WRPS Structural Engineering Discipline Lead and the Project Engineer.
- Issue leak cause and location reports for T and TX farms.

Issues:

None.

In Tank Characterization and Summary

For the period from June 1 through June 30, 2014:

Accomplishments:

- Completed RPP-RPT-44814, *Derivation of Best-Basis Inventory for Tank 241-AN-101 as of April 1, 2014*, Rev 14.
- Completed RPP-RPT-57019, *Derivation of Best-Basis Inventory for Tank 241-BY-101 as of April 1, 2014*, Rev 0.
- Completed RPP-RPT-57338, *Derivation of Best-Basis Inventory for Tank 241-U-111 as of April 1, 2014*, Rev 0.
- Completed RPP-RPT-52516, *Derivation of Best-Basis Inventory for Tank 241-C-112 as of January 31, 2014*, Rev 01.
- Completed RPP-RPT-44752, *Derivation of Best-Basis Inventory for Tank 241-BY-103 as of April 1, 2014*, Rev 1.
- Completed RPP-RPT-43992, *Derivation of Best-Basis Inventory for Tank 241-AN-106 as of April 1, 2014*, Rev 11.
- Completed RPP-PLAN-57156, *Tank 241-SY-102 Core Sampling and Analysis Plan in Support of Corrosion Mitigation, Criticality, and Strategic Planning*, Rev 0.
- Completed RPP-PLAN-57527, *Analysis Plan for Tank 241-B-204 Archive Samples*, Rev 0.
- Completed RPP-PLAN-55529, *Grab Sampling and Analysis Plan for the 241-AY-102A Leak-Detection Pit*, Rev 2.
- Completed RPP-RPT-40789, *Waste Tank Summary Report Preparation Guide*, Rev 1.
- Completed monthly 241-AY-102A Leak-Detection Pit liquid grab sampling on June 5, 2014. Three samples were received at the lab.
- Completed 241-AY-101A Leak-Detection Pit liquid grab sampling June 23, 2014. Seven samples were received at the lab.
- Completed 241-AP-106 grab sampling June 25 through Jun 27, 2014. Seven samples were received at the lab.

Planned Action within the Next 6 Months:

Tank sampling:

- Monthly 241-AY-102A LDP grab sampling is currently scheduled for the month of July.
- Tank 241-AZ-102 grab sampling (Evaporator campaign 14-02) scheduled for July 2014.
- Tank 241-C-112 clamshell or fingertrap, first sample, is currently scheduled for July 2014.
- Tank 241-SY-102, 1st core sample (Riser #4) is currently scheduled for September 2014.
- Tank 241-C-111 process control grab sampling during hard heel retrieval is currently scheduled to start in September 2014.
- Tank 241-AN-101 for C-102/C-111 retrievals planned for September/October 2014.
- Tank 241-AN-106 at 100% C-105 retrieval planned for September/October 2014.

- Tank 241-SY-102, 2nd core sample (Riser #20) is currently scheduled for October 2014.
- Tank 241-AW-106 (Evaporator campaign 14-03) planned for October 2014.
- Tank 241-C-107 Drag Sampler sampling is currently scheduled for November 2014.
- Tank 241-AZ-102 (Evaporator campaign 15-01) planned for November 2014.

Best-Basis Inventory (BBI) updates:

The following tanks have been identified for BBI updates in FY 2014 Quarter 3:

- 241-A-103
- 241-AP-104
- 241-AW-102
- 241-BX-101
- 241-BX-110
- 241-BY-102
- 241-C-104
- 241-C-108
- 241-C-109
- 241-S-111
- 241-SX-106

Data Quality Objectives (DQO):

A screening DQO is in-process to obtain data from tank stacks on the odorous tank vapors reported by tank farm workers.

Issues:

None.

TANK OPERATIONS CONTRACT OVERVIEW

Project Performance

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

As of May 31, 2014, Washington River Protection Solutions LLC, the Tank Operations Contractor, has worked 74 days without a lost time workday injury and 2 days since the last recordable case. There was one recordable case in the month of May.

	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC
CM	44,268.5	43,538.4	40,799.2	(730.1)	2,739.2	0.98	1.07			
FYTD	271,492.2	256,690.4	248,885.3	(14,801.8)	7,805.1	0.95	1.03	440,776.9	417,929.4	22,847.5
CTD	2,163,236.0	2,148,434.0	2,140,629.0	(14,802.0)	7,805.0	0.99	1.00	3,224,589.4	3,212,692.8	11,896.6

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

Tank Farms ORP-0014

EVMS Monthly and Fiscal Year Values

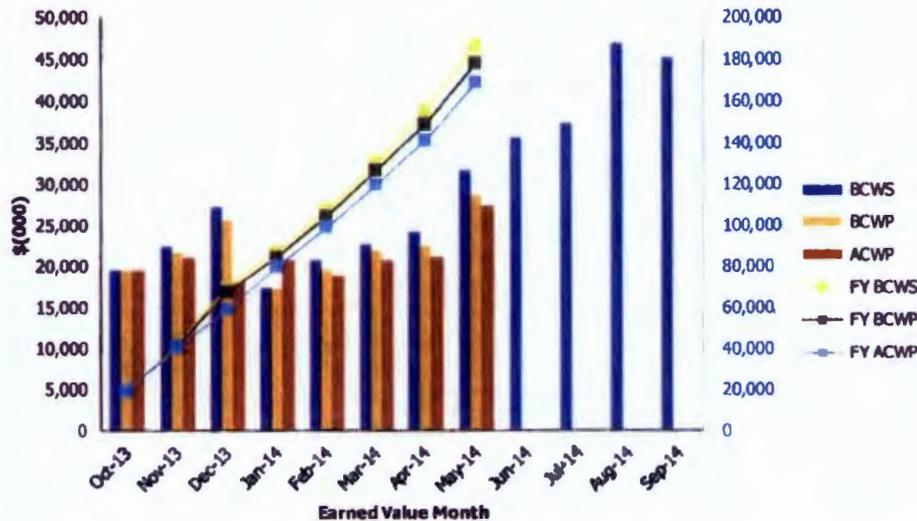


Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$29,474	\$27,946	\$29,015	0.95	0.96	\$29,474	\$27,946	\$29,015	0.95	0.96
Nov 2013	\$34,535	\$33,081	\$31,448	0.96	1.05	\$64,009	\$61,027	\$60,463	0.95	1.01
Dec 2013	\$38,698	\$34,362	\$27,634	0.89	1.24	\$102,706	\$95,389	\$88,096	0.93	1.08
Jan 2014	\$29,325	\$26,999	\$30,991	0.92	0.87	\$132,032	\$122,388	\$119,087	0.93	1.03
Feb 2014	\$30,875	\$26,774	\$27,782	0.87	0.96	\$162,907	\$149,162	\$146,869	0.92	1.02
Mar 2014	\$30,709	\$31,870	\$30,045	1.04	1.06	\$193,616	\$181,032	\$176,914	0.94	1.02
Apr 2014	\$33,608	\$32,120	\$31,172	0.96	1.03	\$227,224	\$213,152	\$208,086	0.94	1.02
May 2014	\$44,269	\$43,538	\$40,799	0.98	1.07	\$271,492	\$256,690	\$248,885	0.95	1.03
Jun 2014	\$30,214									
Jul 2014	\$30,309									
Aug 2014	\$38,682									
Sep 2014	\$37,840									

CTD \$2,163,236 \$2,148,434 \$2,140,629 0.99 1.00

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

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$19,628	\$19,630	\$19,598	1.00	1.00	\$19,628	\$19,630	\$19,598	1.00	1.00
Nov 2013	\$22,525	\$21,675	\$21,051	0.96	1.03	\$42,153	\$41,305	\$40,649	0.98	1.02
Dec 2013	\$27,266	\$25,724	\$18,016	0.94	1.43	\$69,419	\$67,029	\$58,664	0.97	1.14
Jan 2014	\$17,246	\$17,269	\$20,778	1.00	0.83	\$86,664	\$84,298	\$79,443	0.97	1.06
Feb 2014	\$20,732	\$19,631	\$18,894	0.95	1.04	\$107,396	\$103,929	\$98,337	0.97	1.06
Mar 2014	\$22,587	\$21,924	\$20,834	0.97	1.05	\$129,983	\$125,853	\$119,170	0.97	1.06
Apr 2014	\$24,256	\$22,528	\$21,164	0.93	1.06	\$154,238	\$148,381	\$140,334	0.96	1.06
May 2014	\$31,690	\$28,630	\$27,412	0.90	1.04	\$185,929	\$177,011	\$167,777	0.95	1.06
Jun 2014	\$35,710									
Jul 2014	\$37,324									
Aug 2014	\$46,790									
Sep 2014	\$45,185									

CTD \$1,416,995 \$1,408,077 \$1,398,843 0.99 1.01

Base Operations and Tank Farm Projects

The current month unfavorable schedule variance (SV) of **(\$3,060K)** is due to:

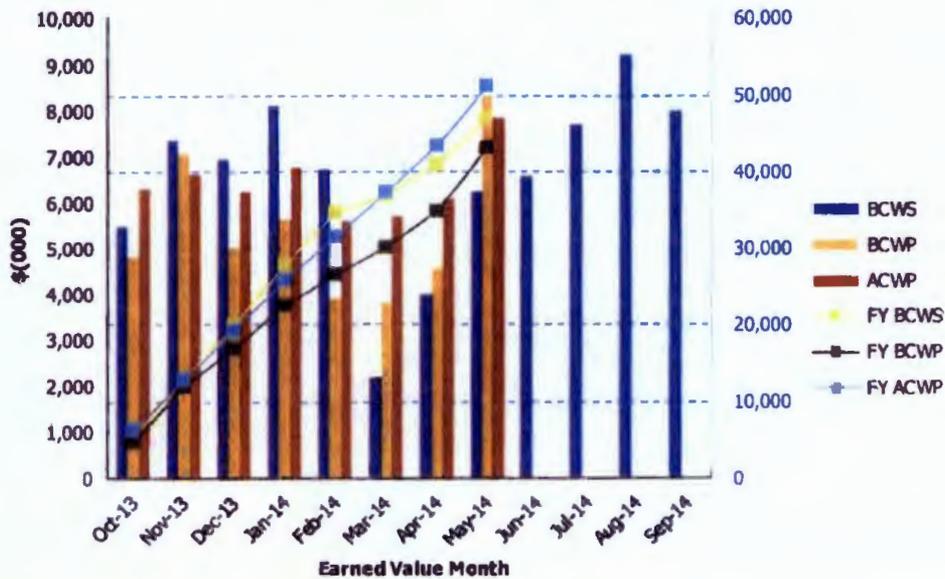
- Delays to installation of power for transfer pumps in DST AZ-102
- Delays to the startup of the 242-A Evaporator Campaign due to unplanned corrective maintenance activities on the pump room jumper
- DST transfers related to the 242-A Evaporator Campaigns
- Additional annulus videos at DST AY-102 Administrative Order
- Delays to the DST SY-102 core sample due to the new Core Sampler readiness issues

The current month favorable cost variance (CV) of \$1,217K is primarily due to:

- Delay in filling vacancies for Maintenance Services and Radiation Protection at 222-S Laboratory, new hires are planned for June and July
- AY/AZ Farm upgrade projects cost efficiencies during the design of the new change trailer
- Less costs with the Waste Management Program than planned
- Labor efficiencies of engineering during development activities for the DST Ventilation Upgrade work scope

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

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$5,483	\$4,823	\$6,336	0.88	0.76	\$5,483	\$4,823	\$6,336	0.88	0.76
Nov 2013	\$7,366	\$7,054	\$6,609	0.96	1.07	\$12,849	\$11,876	\$12,945	0.92	0.92
Dec 2013	\$6,970	\$5,002	\$6,231	0.72	0.80	\$19,820	\$16,878	\$19,176	0.85	0.88
Jan 2014	\$8,102	\$5,661	\$6,765	0.70	0.84	\$27,922	\$22,539	\$25,941	0.81	0.87
Feb 2014	\$6,726	\$3,914	\$5,602	0.58	0.70	\$34,647	\$26,453	\$31,543	0.76	0.84
Mar 2014	\$2,201	\$3,805	\$5,729	1.73	0.66	\$36,849	\$30,258	\$37,273	0.82	0.81
Apr 2014	\$4,000	\$4,558	\$6,079	1.14	0.75	\$40,848	\$34,816	\$43,352	0.85	0.80
May 2014	\$6,255	\$8,331	\$7,855	1.33	1.06	\$47,103	\$43,146	\$51,207	0.92	0.84
Jun 2014	\$6,595									
Jul 2014	\$7,690									
Aug 2014	\$9,241									
Sep 2014	\$8,015									
CTD	\$473,943	\$469,986	\$478,047	0.99	0.98					

Retrieval and Close Single-Shell Tanks

The current month favorable schedule variance (SV) of \$2,075K is due to:

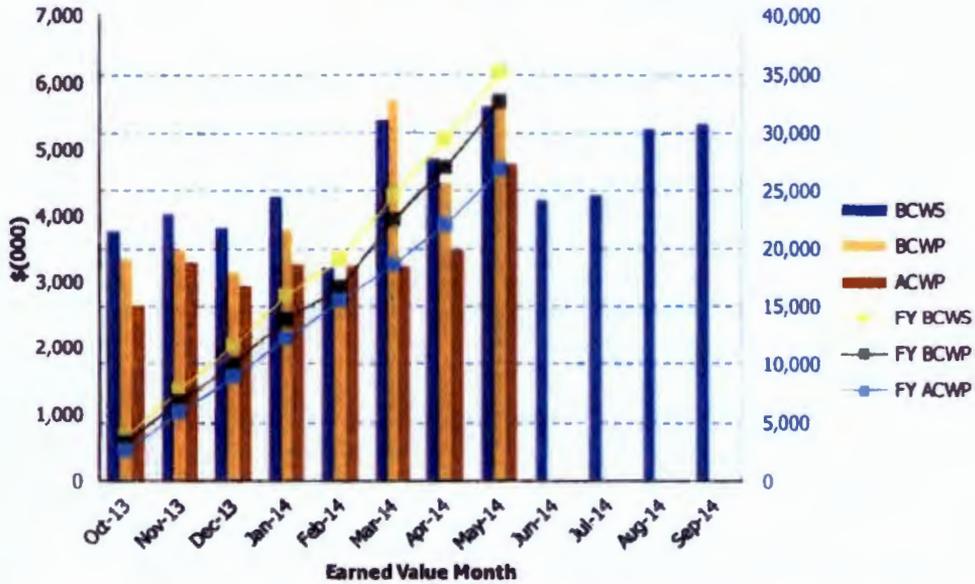
- Performing C-102 retrieval operations activities ahead of schedule

The current month favorable cost variance (CV) of \$475K is due to:

- Performing C-102 retrieval activities at a more accelerated rate than anticipated, requiring fewer operating crews than planned

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

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$3,766	\$3,335	\$2,640	0.89	1.26	\$3,766	\$3,335	\$2,640	0.89	1.26
Nov 2013	\$4,041	\$3,488	\$3,295	0.86	1.06	\$7,807	\$6,824	\$5,934	0.87	1.15
Dec 2013	\$3,813	\$3,150	\$2,941	0.83	1.07	\$11,620	\$9,973	\$8,875	0.86	1.12
Jan 2014	\$4,282	\$3,803	\$3,277	0.89	1.16	\$15,902	\$13,776	\$12,152	0.87	1.13
Feb 2014	\$3,225	\$2,926	\$3,239	0.91	0.90	\$19,126	\$16,702	\$15,391	0.87	1.09
Mar 2014	\$5,438	\$5,757	\$3,240	1.06	1.78	\$24,565	\$22,459	\$18,631	0.91	1.21
Apr 2014	\$4,876	\$4,507	\$3,480	0.92	1.30	\$29,441	\$26,966	\$22,112	0.92	1.22
May 2014	\$5,651	\$5,649	\$4,780	1.00	1.18	\$35,092	\$32,626	\$26,892	0.93	1.21
Jun 2014	\$4,244									
Jul 2014	\$4,310									
Aug 2014	\$5,308									
Sep 2014	\$5,380									
CTD	\$251,336	\$248,870	\$243,136	0.99	1.02					

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

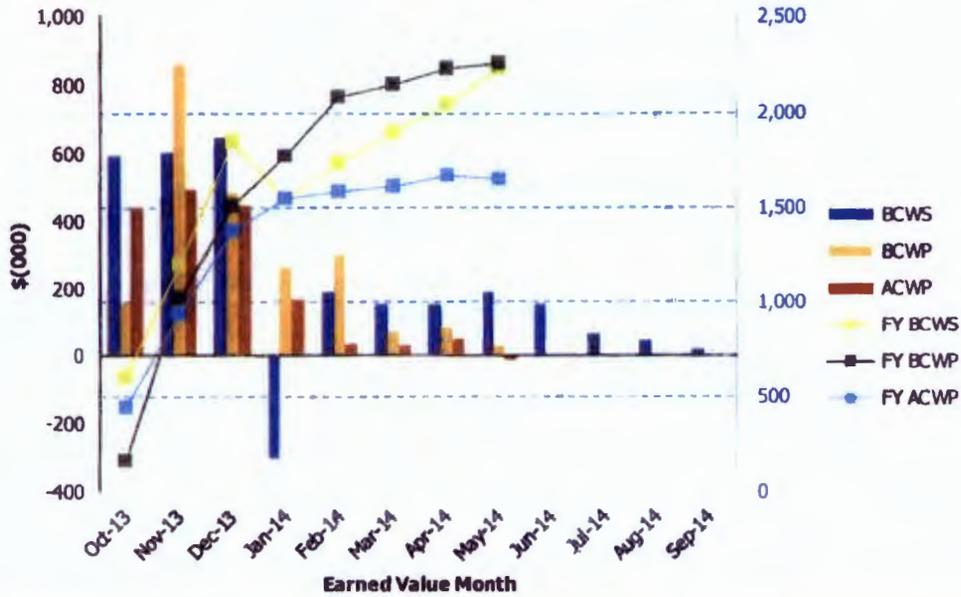
The current month unfavorable schedule variance (SV) of (\$1.6K) is within the reporting threshold.

The current month favorable cost variance (CV) of \$869K is due to:

- WTP Interface Management activities requiring fewer contract and management labor resources required to accomplish the work scope by utilizing experienced personnel with historical knowledge
- IDF Glass Testing due to less engineering resources needed to support the annual WFD Technology Baseline activities due to the subcontractor rates less than planned.

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

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$597	\$158	\$441	0.26	0.36	\$597	\$158	\$441	0.26	0.36
Nov 2013	\$603	\$864	\$494	1.43	1.75	\$1,200	\$1,022	\$934	0.85	1.09
Dec 2013	\$648	\$486	\$446	0.75	1.09	\$1,848	\$1,508	\$1,380	0.82	1.09
Jan 2014	(\$304)	\$266	\$171	-0.88	1.56	\$1,544	\$1,775	\$1,551	1.15	1.14
Feb 2014	\$194	\$302	\$34	1.56	8.91	\$1,737	\$2,077	\$1,585	1.20	1.31
Mar 2014	\$153	\$68	\$29	0.45	2.36	\$1,890	\$2,145	\$1,614	1.14	1.33
Apr 2014	\$153	\$85	\$51	0.56	1.67	\$2,043	\$2,230	\$1,665	1.09	1.34
May 2014	\$191	\$26	-\$13	0.14	-1.98	\$2,234	\$2,256	\$1,652	1.01	1.37
Jun 2014	\$156									
Jul 2014	\$66									
Aug 2014	\$42									
Sep 2014	\$18									
CTD	\$19,827	\$19,850	\$19,245	1.00	1.03					

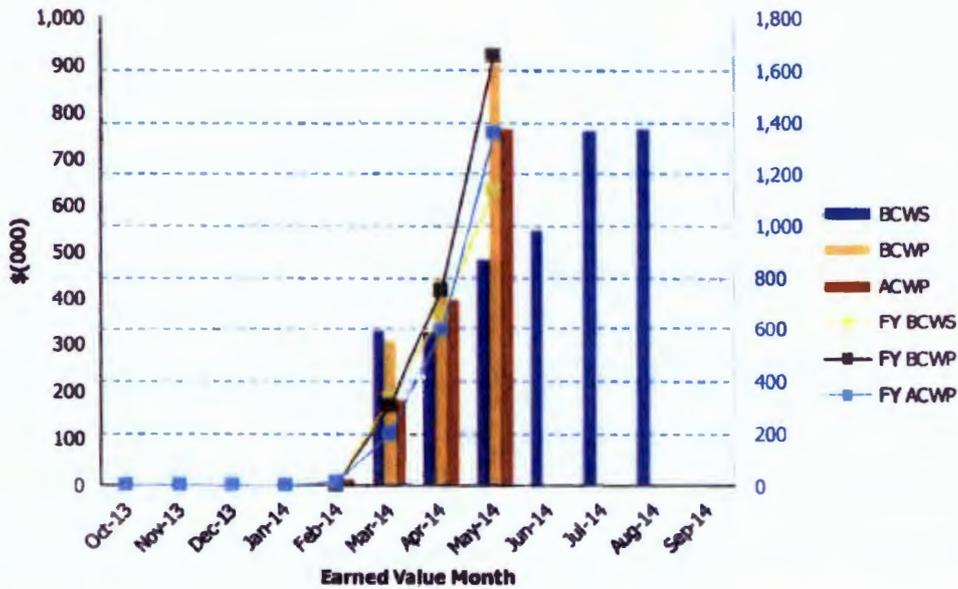
Supplemental Treatment

The current month unfavorable schedule variance (SV) of (\$165K) is within the reporting threshold.

The current month favorable cost variance (CV) of \$39K is also within the reporting threshold.

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

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$0	\$0	\$0	0.00	0.00	\$0	\$0	\$0	0.00	0.00
Nov 2013	\$0	\$0	\$0	0.00	0.00	\$0	\$0	\$0	0.00	0.00
Dec 2013	\$0	\$0	\$0	0.00	0.00	\$0	\$0	\$0	0.00	0.00
Jan 2014	\$0	\$0	\$0	0.00	0.00	\$0	\$0	\$0	0.00	0.00
Feb 2014	\$0	\$0	\$13	0.00	0.00	\$0	\$0	\$13	0.00	0.00
Mar 2014	\$330	\$306	\$183	0.93	1.67	\$330	\$306	\$196	0.93	1.56
Apr 2014	\$324	\$443	\$397	1.37	1.11	\$653	\$748	\$593	1.15	1.26
May 2014	\$482	\$903	\$765	1.88	1.18	\$1,135	\$1,651	\$1,358	1.45	1.22
Jun 2014	\$547									
Jul 2014	\$761									
Aug 2014	\$764									
Sep 2014	\$0									
CTD	\$1,135	\$1,651	\$1,358	1.45	1.22					

Treat Waste

The current month favorable schedule variance (SV) of \$421K is due to:

- IPS Design due to accelerating the conceptual design

The current month favorable cost variance (CV) of \$138K is within the reporting threshold.

- The Ion Exchange white paper actual cost was less than budgeted
- The Preliminary Hazard Analysis actual cost was less than budgeted
- The IPS Permitting actual cost was less than planned

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: On schedule. This ORP/Ecology decision point will determine whether to continue with soil desiccation/contaminant removal testing and other interim measures, and if the remaining work in Milestone M-045-92 should be modified. See ORP letter 13-TF-0014, dated March 18, 2013 and TPA Change Package M-45-12-05 (approved on April 1, 2013) for more information.

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: On schedule.

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-0015.

M-045-56J, Complete Implementation of Agreed to Interim Measures, Due: July 31, 2014, 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 for review and approval as an Agreement primary document a Phase 2 RCRA Facility Investigation/Corrective Measures Study Report for WMA Area C (WMA-C), Due: December 31, 2014, Status: To be missed. Please see issues.

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

M-045-92, Complete Installation of Four (4) Additional Interim Barriers (see interim milestones below), Due: October 31, 2017, Status: On schedule. TPA Change Package M-45-12-04 describes these milestones and how the process to move forward with construction/design of additional barriers will depend on discussions and decisions per TPA Milestone M-045-22.

M-045-92N, Construct Barriers 1 and 2 in 241-SX Farm, Due: October 31, 2015, Status: On schedule. The decision to move forward with construction/design of additional barriers is dependent on discussions per M-045-22.

M-045-920, Submit a Final Design and Monitoring Plan for Interim Barrier 3, Due: June 30, 2015, Status: On schedule. The decision to move forward with construction/design of additional barriers is dependent on discussions per M-045-22.

Significant Past Accomplishments:

- Automated data collection systems for T Farm and TY Farm interim barrier monitoring continue gathering data
- Pore water extraction test south of SX Farm under the M-045-20 work plan has been completed and the report provided to ECY to complete M-045-22-T03
- Data collection in U Farm for electrical resistivity characterization was completed. Data analysis and reporting was completed, and the report provided to ECY to complete M-045-22-T02
- Direct-push field work in TX Farm under the M-045-20 work plan and M-045-21 sampling and analysis plan has been completed. Sample analysis has been completed and the final report is being prepared.
- Documentation of the WMA-C Phase 2 Resource Conservation and Recovery Act Facility Investigation Report continues.

Significant Planned Actions in the Next 6 Months:

- Complete sample analysis for the direct push soil sampled taken in TX Farm under the M-045-20 work plan and prepare the analysis report
- Complete documentation of the WMA-C Phase 2 Resource Conservation and Recovery Act Facility Investigation Report.

SST Retrieval and Closure Program

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

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

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

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

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

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

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

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

Significant Past Accomplishments:

- Completed post-retrieval logging of the drywells near C-104, C-109, and C-110 to support the retrieval data reports
- Retrieval completion certification for C-110 was transmitted to Ecology on January 29, 2014 under ORP letter 14-TF-0007
- See discussions above and related discussions in Consent Decree report.

Significant Planned Activities in the Next 6 Months:

- Submit the Retrieval Data Report for C-110
- Continue developing the WMA-C performance assessment
- See discussions above and related discussions in Consent Decree report.
- Develop a draft of the Tier 1 (framework) closure plan for WMA C as required by the TPA

Issues:

ORP and Ecology continue to meet to develop an integrated path forward that addresses all the deliverables associated with Milestones M-045-61, M-045-62, and M-045-82.

Tank Waste Retrieval Work Plan Status

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

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

Significant Accomplishments:

Modification Notice 2014-02 was approved for Tank Waste Retrieval Work Plan RPP-22393, Rev. 7. The modification allows the use of a third retrieval technology, water dissolution, in tank C-107.

Significant Planned Activities in the Next 6 Months:

None.

Issues:

None.

Tank in Appendix H, “Status - Single Shell Waste Retrieval Criteria”

Tank 241-C-106

Significant Past Accomplishments:

None.

Significant Planned Activities in the Next 6 Months:

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

Issues:

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

Tank Retrievals with Individual Milestones

Tank 241-A-103

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

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

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

Significant Past Accomplishments:

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

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

Tank 241-S-112

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

M-045-13E, Complete Negotiations for Interim Milestones for Closure of S-112, Due: To be determined, Status: On schedule as part of M-045-84 or M-045-85.

Significant Past Accomplishments:

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

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

FINAL

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

Monthly Summary Report

July 2014

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

Page	Topic	Leads
3	Statistics/Status	James Lynch/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	Kathy Higgins/Jeff Lyon
7	Waste Treatment and Immobilization Plant Project • D-00A-06, D-00A-17, D-00A-01	Delmar Noyes/Dan McDonald
10	Pretreatment Facility • D-00A-18, D-00A-19, D-00A-13, D-00A-14, D-00A-15, D-00A-16	Wahed Abdul/Dan McDonald
13	High-Level Waste Facility • D-00A-20, D-00A-21, D-00A-02, D-00A-03	Wahed Abdul/Dan McDonald
16	Low-Activity Waste Facility • D-00A-07, D-00A-08, D-00A-09	Jeff Bruggeman/Dan McDonald
18	Balance of Facilities • D-00A-12	Jason Young/Dan McDonald
20	Analytical Laboratory • D-00A-005	

CD Milestone Statistics/Status

Milestone	Title	Due Date	Completion Date	Status
Fiscal Year 2013				
D-00A-05	LAB Construction Substantially Complete	12/31/2012	12/31/2012	Completed
D-00A-12	Steam Plant Construction Complete	12/31/2012	12/31/2012	Completed
D-00A-21	Complete Construction of Structural Steel to elevation of 37 feet in HLW Fac.	12/31/2012	10/24/2012	Completed
Fiscal Year 2014				
D-00B-01	Complete Retrieval of Tank Waste from 10 SSTs in WMA-C	09/30/2014		Ongoing*
D-00B-02	Advise Ecology of the 9 SSTs Waste Will be Retrieved by 2022	09/30/2014	08/24/2011	Completed
Fiscal Year 2015				
D-00A-07	LAW Facility Construction Substantially Complete	12/31/2014		Ongoing*
D-00A-19	Complete elevation 98 feet Concrete Floor Slab Placements in PT Facility	12/31/2014		Ongoing*

DOE = U.S. Department of Energy.

Ecology = Washington State Department of Ecology.

HLW = High-Level Waste (Facility).

LAB = Analytical Laboratory.

LAW = Low-Activity Waste (Facility).

PT = Pretreatment (Facility).

SST = single-shell tank.

WMA-C = C-Farm Waste Management Area.

*The United States Department of Energy (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.

Consent Decree Reports/Reviews

D-00C-01 series, Submit to State of Washington and State of Oregon Semi-Annual Report, Due: Semi-annually – January 31 and July 31 of each year, Status: On-going.

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

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

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

Single-Shell Tank Retrieval Program

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

- a. Pursuant to Section IV-B-5 of the Consent Decree, DOE must submit to 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 SST C-104 on March 21, 2013, via 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.

Significant Past Accomplishments:

- Completed Operational Acceptance Testing (OAT) of the equipment for Mobile Arm Retrieval System-Vacuum (MARS-V), and start up and operation of the MARS-V system commenced at Tank C-105
- Continued installation of equipment and continued construction acceptance testing for the hard heel removal system at Tank C-111.

Significant Planned Activities in the Next 6 Months:

- Complete retrieval of C-105 using MARS-V
- Complete retrieval of C-107 using MARS-S
- Begin startup of hard heel retrieval in C-111 using high-pressure water, with caustic/water dissolution available
- Complete retrieval of hard heel in C-111 SST.

Issues:

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

Tank Waste Retrieval Work Plan Status

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

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

Significant Accomplishments:

Modification Notice 2014-02 was approved for Tank Waste Retrieval Work Plan RPP-22393, Rev. 7. The modification allows the use of a third retrieval technology, water dissolution, in tank C-107.

Significant Planned Activities in the Next 6 Months:

None.

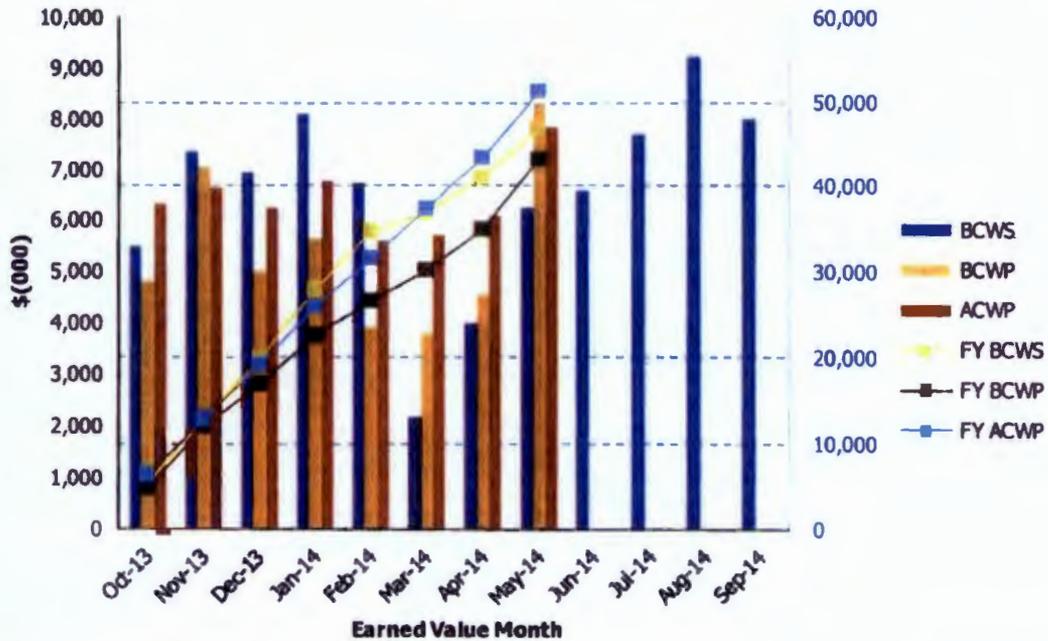
Issues:

None.

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

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

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$5,483	\$4,823	\$6,336	0.88	0.76	\$5,483	\$4,823	\$6,336	0.88	0.76
Nov 2013	\$7,366	\$7,054	\$6,609	0.96	1.07	\$12,849	\$11,876	\$12,945	0.92	0.92
Dec 2013	\$6,970	\$5,002	\$6,231	0.72	0.80	\$19,820	\$16,878	\$19,176	0.85	0.88
Jan 2014	\$8,102	\$5,661	\$6,765	0.70	0.84	\$27,922	\$22,539	\$25,941	0.81	0.87
Feb 2014	\$6,726	\$3,914	\$5,602	0.58	0.70	\$34,647	\$26,453	\$31,543	0.76	0.84
Mar 2014	\$2,201	\$3,805	\$5,729	1.73	0.66	\$36,849	\$30,258	\$37,273	0.82	0.81
Apr 2014	\$4,000	\$4,558	\$6,079	1.14	0.75	\$40,848	\$34,816	\$43,352	0.85	0.80
May 2014	\$6,255	\$8,331	\$7,855	1.33	1.06	\$47,103	\$43,146	\$51,207	0.92	0.84
Jun 2014	\$6,595									
Jul 2014	\$7,690									
Aug 2014	\$9,241									
Sep 2014	\$8,015									
CTD	\$473,943	\$469,986	\$478,047	0.99	0.98					

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 2,385 full-time equivalent contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel. This includes 584 craft, 371 non-manual, and 170 subcontractor full-time equivalent personnel working at the WTP construction site (all facilities).

As of May 2014, the combined Low-Activity Waste (LAW) Facility, Analytical Laboratory (LAB), and Balance of Facilities (BOF) (collectively LBL) were 68 percent complete, design and engineering was 82 percent complete, procurement was 85 percent complete, construction was 80 percent complete, and startup and commissioning was 13 percent complete.

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

In May 2014, the cumulative to-date WTP Project schedule variance was a negative \$115.2 million, and the cumulative to-date WTP Project cost variance was a negative \$11.7 million. The major contribution to the cumulative to-date cost and schedule variance is based on the progress of the LBL replan and PT/HLW 2-Year Interim Work Plan.

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

Significant Past Accomplishments:

- Continued construction at Full-Scale Test Facility with testing of flush water, air, and process systems (PT)
- Issued standardized vessel size and volume report (PT)
- Completed crane rail installation in the Import Bay (HLW)
- Completed hydro testing of over 3,300 linear feet of pipe (LAW)
- Installed over 2,800 linear feet of conduit and pulled over 24,000 linear feet of cable (LAW)
- Issued cathodic protection system modification drawings for ten (10) coupon test stations (BOF)

- Issued the Emergency Turbine Generator (ETG) execution plan for design verification, qualification and dedication (BOF)
- Drained Fire Service Water (FSW) tanks in preparation for re-coating and installation of new anodes (BOF)
- Completed all physical work on RLD vessel 164 (LAB)

Significant Planned Actions in the Next 6 Months:

- BNI submit PT Resumption plan by to support DOE authorization to proceed with production engineering (PT)
- DOE evaluate PT resumption plan to support DOE authorization to proceed with production engineering (PT)
- Evaluate potential savings relative to storing procured commodities onsite compared to storing at vendor facilities during suspensions of procurements (Shared Services)
- Complete installation of Autosampling System (LAW)
- Complete the LAW facility design and operability review (LAW)
- Complete construction of the Glass Former Storage Facility (BOF)
- Complete repairs, retest, and recertify radioactive liquid waste disposal (RLD) vessels (LAB)
- BNI develop 2-year work plan for FY 2015 and FY 2016 (PT, HLW)

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, pulse-jet mixers, corrosion/erosion in piping and vessels, hydrogen accumulation, criticality and ventilation.

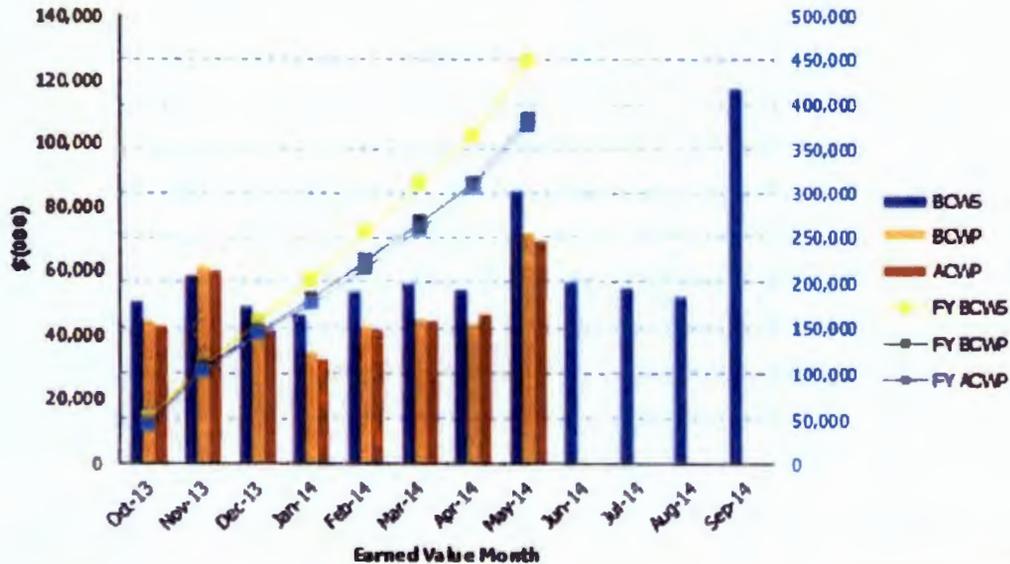
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2014 Earned Value Data

Data as of: May 2014

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

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CFI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CFI
Oct 2013	\$49,959	\$43,981	\$42,448	0.88	1.04	\$49,959	\$43,981	\$42,448	0.88	1.04
Nov 2013	\$58,047	\$61,276	\$59,935	1.06	1.02	\$108,006	\$105,257	\$102,383	0.97	1.03
Dec 2013	\$48,739	\$41,149	\$40,881	0.84	1.01	\$156,745	\$146,406	\$143,264	0.93	1.02
Jan 2014	\$45,633	\$34,448	\$32,185	0.75	1.07	\$202,378	\$180,854	\$175,449	0.89	1.03
Feb 2014	\$53,315	\$42,491	\$41,349	0.80	1.03	\$255,693	\$223,345	\$216,798	0.87	1.03
Mar 2014	\$55,327	\$44,937	\$44,053	0.81	1.02	\$311,020	\$268,282	\$260,851	0.86	1.03
Apr 2014	\$53,695	\$43,232	\$46,086	0.81	0.94	\$364,715	\$311,514	\$306,937	0.85	1.01
May 2014	\$84,691	\$71,474	\$68,633	0.84	1.04	\$449,406	\$382,988	\$375,570	0.85	1.02
Jun 2014	\$56,083									
Jul 2014	\$54,292									
Aug 2014	\$51,488									
Sep 2014	\$116,961									
PTD	\$8,239,619	\$8,124,463	\$8,136,180	0.99	1.00					

Pretreatment Facility

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

The PT Facility will separate radioactive tank waste into HLW and LAW fractions, and transfer each waste type to the respective vitrification facility for immobilization. As of September 2012, the PT Facility was 56 percent complete overall, with engineering design 85 percent complete, procurement 56 percent complete, construction 43 percent complete, and startup and commissioning 3 percent complete. Construction, procurement, and production engineering activities remain on hold, resulting in no change to the percent-complete status since September 2012. BNI and DOE continue to focus on resolving technical issues, performing hazard analyses, and completing safety evaluations for process systems in accordance with the PT/HLW 2-Year Interim Work Plan.

Technical review teams continue to evaluate open PT Facility technical issues. Construction of the mixing test platform continues in preparation for full-scale testing in July 2014. BNI is incorporating information provided by the national laboratories into test plans, simulant composition, and instrumentation requirements. Evaluation is ongoing relative to a standardized design for high-solids vessels within the PT Facility. BNI has submitted the resolution plan for eight technical issues which are undergoing DOE review. The eight technical issues are the following: T1 Hydrogen in Vessels; T2 Criticality; T3 HPAV; T4 Mixing; T5 Erosion Corrosion; T6 PTF Optimization; T7 Vessel Analysis; T8 Ventilation.

DOE has directed BNI to submit a PT resumption plan to support DOE authorization to proceed with production engineering.

Significant Past Accomplishments:

- Continued PT resumption planning
- Continued construction at Full-Scale Test Facility with testing of flush water, air, and process systems
- Issued PJM Operations Guide for RLD-8T Testing and Logic Diagrams for RLD-8T Software
- Issued Tech Report for JPP Scoping Testing – FST Operation Logic
- Issued standardized vessel size and volume report
- Continued jet impingement testing for erosion

- Continued conceptual design for a standardized high-solids vessel design (SHSVD)
- Continued maintenance activities as result of PT Facility assessment

Significant Planned Actions in the Next 6 Months:

- Complete construction at Full-Scale Vessel Testing Facility
- Evaluate potential savings relative to storing procured commodities onsite compared to storing at vendor facilities during suspensions of procurements
- DOE approval of PT resumption plan to support DOE authorization to proceed with production engineering
- Award contract for sensitivity tests for erosion in vessels and piping
- Update basis of design for safety classification regarding seismic analysis of vessels
- Finalize test plan, simulant composition, and test instrument list for full-scale vessel mixing tests
- BNI to submit PT Facility Safety Design Strategy (SDS) Plan for DOE review
- Define standardized vessel selection criteria in support of vessel mixing resolution
- Start informational testing in 8' test vessel for down selection of features pertaining to SHSVD

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, pulse-jet mixers, corrosion/erosion in piping and vessels, hydrogen accumulation, criticality and ventilation.

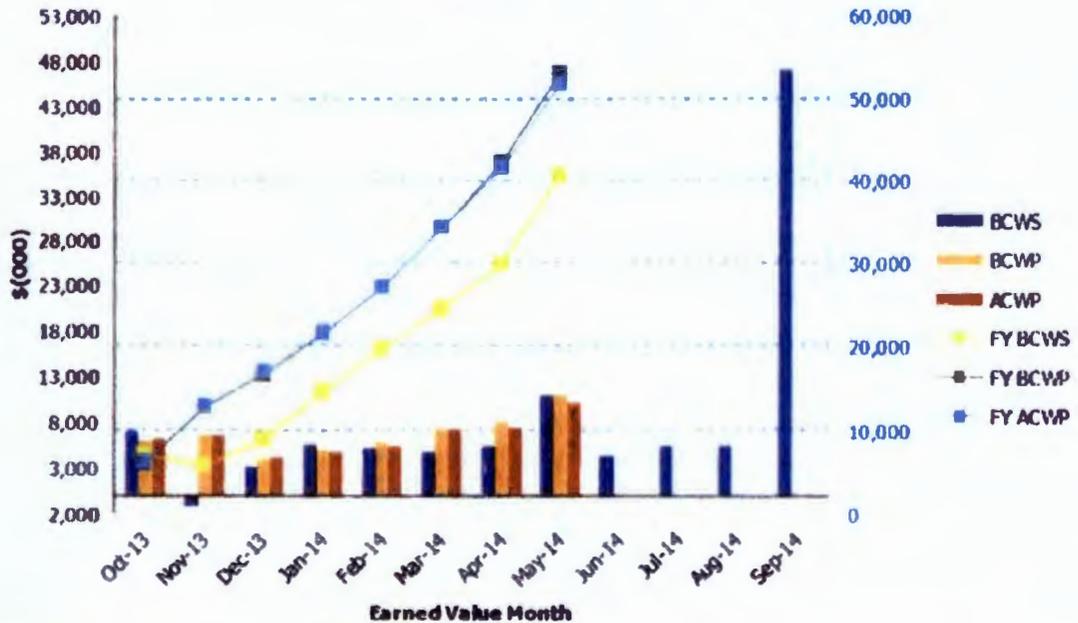
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2014 Earned Value Data

Data as of: May 2014

**River Protection Project
Pretreatment Facility**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$6,954	\$5,927	\$6,224	0.85	0.95	\$6,954	\$5,927	\$6,224	0.85	0.95
Nov 2013	(\$1,213)	\$6,673	\$6,646	5.50	1.00	\$5,741	\$12,600	\$12,870	2.19	0.98
Dec 2013	\$3,109	\$3,957	\$4,053	1.27	0.98	\$8,850	\$16,557	\$16,923	1.87	0.98
Jan 2014	\$5,616	\$4,856	\$4,809	0.86	1.01	\$14,466	\$21,413	\$21,732	1.48	0.99
Feb 2014	\$5,155	\$5,673	\$5,261	1.10	1.08	\$19,621	\$27,086	\$26,993	1.38	1.00
Mar 2014	\$4,751	\$7,210	\$7,173	1.52	1.01	\$24,372	\$34,296	\$34,166	1.41	1.00
Apr 2014	\$5,329	\$7,957	\$7,521	1.49	1.06	\$29,701	\$42,253	\$41,687	1.42	1.01
May 2014	\$10,845	\$10,888	\$10,039	1.00	1.08	\$40,546	\$53,141	\$51,726	1.31	1.03
Jun 2014	\$4,421									
Jul 2014	\$5,437									
Aug 2014	\$5,459									
Sep 2014	\$46,949									

PID \$1,567,836 \$1,563,151 \$1,559,470 1.00 1.00

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 (Facility).

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

As of September 2012, the HLW Facility was 62 percent complete overall, with engineering design 89 percent complete, procurement 81 percent complete, construction 43 percent complete, and startup and commissioning 4 percent complete. Construction, procurement, and production engineering activities have been significantly slowed down, resulting in minimal change to the percent completion status since September. BNI and DOE continue to focus on resolving technical issues, performing hazard analyses, and completing safety evaluations for process systems in accordance with the PT/HLW 2-Year Interim Work Plan.

Construction activities include the placement of walls at the 37-ft elevation, installation of structural steel at the 58- and 77-ft elevation, and installation of cable tray supports and ventilation ducts at the 14-ft elevation. HLW activities are focused on supporting authorization to proceed with a resumption of production engineering. Technical review teams completed evaluations of open technical issues to support this effort. The path forward to ramp up HLW engineering, procurement, and construction is ongoing and includes three actions: (1) Conduct engineering studies to resolve technical safety issues; (2) perform risk assessments for the issues noted in Priority Level 1 findings, reliability validation process, project issues evaluation reporting, etc.; and (3) perform assessment of BNI process improvement for the readiness to proceed. DOE approved "limited production engineering" activities to facilitate completion of outstanding corrective actions and resolution of existing design issues. The authorization to proceed with full production engineering, is awaiting DOE approval of the HLW SDS. BNI has submitted the final version of the SDS incorporating DOE comments. The SDS is undergoing final review.

Significant Past Accomplishments:

- Completed one concrete placement – 3120B
- Issued 4 Electrical Raceway Drawings
- Released EL 58' Concrete Forming Drawings

- HLW Facility efforts focused on supporting the conditional approval (Decision 1) of the authorization to proceed with engineering, procurement, and construction, and included the following activities:
 - Issued the HLW Facility Design and Operability Review report
 - DOE has completed the review of the HLW safety design strategy. BNI is in the process of resolving comments
 - Implementing the updated Engineering and Environmental & Nuclear Safety processes and procedures
- Completed HLW Melter Cave Support Handling System (HSH) crane factory acceptance test
- Completed crane rail installation in the import bay

Significant Planned Actions in the Next 6 Months:

- Authorize full production engineering
- Develop plan to close HLW technical and other issues (e.g., safety basis compliance, quality assurance issues, and design defensibility)
- 12 tons of steel forecasted for delivery in the 4th Qtr. FY14
- Revise scope of the Safety Basis Change Package (SBCP) to modify HLW PDSA Chapter 5, which includes the incorporation of the HLW SDS documents, and applicable changes to Chapters 2 and 4
- Perform gap analysis to identify misalignments with the current PDSA and to identify safety analyses necessary to incorporate the SDS into the PDSA
- Complete draft analysis of single-point failures in support of failure mode analysis
- Perform high-efficiency particulate air filter qualification testing at Mississippi State University
- Continue activities to support the RLD System Redesign in support of vessel re-procurement

Issues:

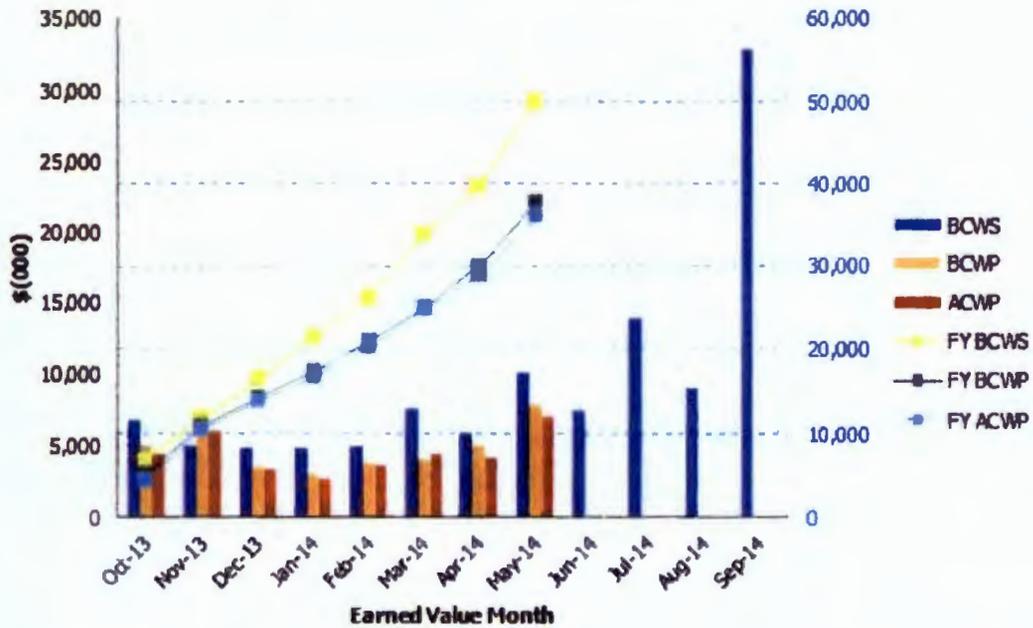
*DOE has notified the State of Washington and State of Oregon that a serious risk has arisen that DOE may be unable to meet this Consent Decree milestone. Technical issues related to the WTP include, among others, pulse-jet mixers, corrosion/erosion in piping and vessels, hydrogen accumulation, criticality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

Data Set: FY 2014 Earned Value Data

Data as of: May 2014

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

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$6,818	\$4,914	\$4,390	0.72	1.12	\$6,818	\$4,914	\$4,390	0.72	1.12
Nov 2013	\$4,892	\$5,842	\$6,055	1.19	0.96	\$11,710	\$10,756	\$10,445	0.92	1.03
Dec 2013	\$4,811	\$3,559	\$3,420	0.74	1.04	\$16,521	\$14,315	\$13,865	0.87	1.03
Jan 2014	\$4,778	\$2,998	\$2,760	0.63	1.09	\$21,299	\$17,313	\$16,625	0.81	1.04
Feb 2014	\$4,927	\$3,736	\$3,647	0.76	1.02	\$26,226	\$21,049	\$20,272	0.80	1.04
Mar 2014	\$7,612	\$4,010	\$4,391	0.53	0.91	\$33,838	\$25,059	\$24,663	0.74	1.02
Apr 2014	\$5,867	\$4,921	\$4,203	0.84	1.17	\$39,705	\$29,980	\$28,866	0.76	1.04
May 2014	\$10,121	\$7,861	\$7,079	0.78	1.11	\$49,826	\$37,841	\$35,945	0.76	1.05
Jun 2014	\$7,379									
Jul 2014	\$13,796									
Aug 2014	\$9,052									
Sep 2014	\$32,827									

PTD \$1,036,629 \$1,027,021 \$1,018,815 0.99 1.01

Low-Activity Waste Facility

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

LAW= Low-Activity Waste (Facility).

The LAW Facility will process the low-activity waste that will be mixed with glass formers, vitrified into glass at a design capacity of 30 metric tons per day, and placed in stainless steel containers anticipated to be disposed of on the Hanford Site in the Integrated Disposal Facility. As of May 2014, the LAW Facility was 70 percent complete overall, with engineering design 81 percent complete, procurement 89 percent complete, construction 75 percent complete, and startup and commissioning 7 percent complete. On February 24, 2014, DOE requested that BNI develop a contract modification proposal for: (1) completing the LBL work scope in the current contract through hot commissioning, and (2) completing initial planning and design for incorporating a permanent capability to accommodate a direct feed LAW (DFLAW) option in the WTP Project.

Significant Past Accomplishments:

- Issued all direct-expansion (DX) air conditioning piping isometrics on the +48 foot elevation for fabrication
- Completed Stage 1 Kaolite placements underneath the dam on the south wall in both melters
- Resolved the commercial issues with the melter refractory subcontract
- Completed hydro testing of over 3,300 linear feet of pipe
- Installed over 2,800 linear feet of conduit and pulled over 24,000 linear feet of cable

Significant Planned Actions in the Next 6 Months:

- Complete installation of Autosampling System
- Award the purchase order for the “active” gas analyzers
- Submit the Thermal Catalytic Oxidizer (TCO) permit package for Independent Qualified Registered Professional Engineer (IQRPE) review
- Complete the LAW facility design and operability review
- Continue refractory brick installation in the melters

Issues:

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

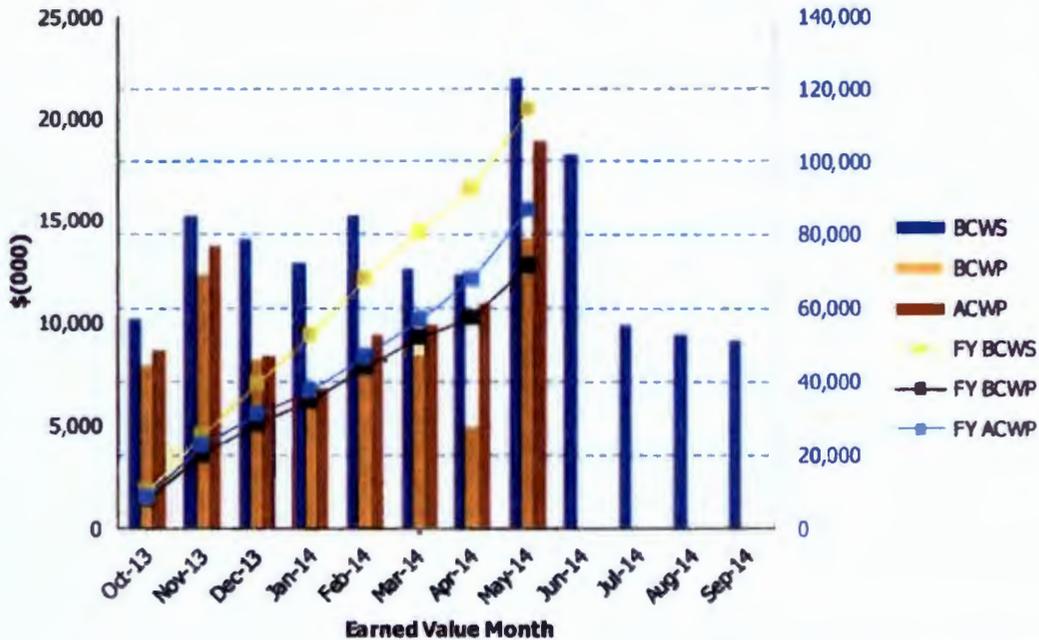
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2014 Earned Value Data

Data as of: May 2014

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

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$10,160	\$7,952	\$8,677	0.78	0.92	\$10,160	\$7,952	\$8,677	0.78	0.92
Nov 2013	\$15,237	\$12,339	\$13,732	0.81	0.90	\$25,397	\$20,291	\$22,409	0.80	0.91
Dec 2013	\$14,003	\$8,214	\$8,389	0.59	0.98	\$39,400	\$28,505	\$30,798	0.72	0.93
Jan 2014	\$12,919	\$6,382	\$6,795	0.49	0.94	\$52,319	\$34,887	\$37,593	0.67	0.93
Feb 2014	\$15,254	\$8,750	\$9,433	0.57	0.93	\$67,573	\$43,637	\$47,026	0.65	0.93
Mar 2014	\$12,596	\$8,478	\$9,852	0.67	0.86	\$80,169	\$52,115	\$56,878	0.65	0.92
Apr 2014	\$12,335	\$4,958	\$10,936	0.40	0.45	\$92,504	\$57,073	\$67,814	0.62	0.84
May 2014	\$21,988	\$14,117	\$18,840	0.64	0.75	\$114,492	\$71,190	\$86,654	0.62	0.82
Jun 2014	\$18,226									
Jul 2014	\$9,943									
Aug 2014	\$9,406									
Sep 2014	\$9,120									
PTD	\$918,991	\$860,679	\$929,934	0.94	0.93					

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 May 2014, BOF was 61 percent complete overall, with engineering design 83 percent complete, procurement 72 percent complete, construction 82 percent complete, and startup and commissioning 16 percent complete.

Commercial grade dedication activities in support of the emergency turbine generator procurement are the primary focus for the quality, design engineering, and procurement organizations. Construction and startup efforts are focused on completion of the Glass Former Facility and construction of the Standby Diesel Generator (SDG) Facility. The SDG facility foundation and additional facility support concrete placements have been made to support generator placement in July.

Significant Past Accomplishments:

- Issued cathodic protection system modification drawings for ten (10) coupon test stations
- Continued flush mod spool installation at the Chiller Compressor Plant
- Issued the Emergency Turbine Generator (ETG) execution plan for design verification, qualification and dedication
- Drained Fire Service Water (FSW) tanks in preparation for re-coating and installation of new anodes

Significant Planned Actions in the Next 6 Months:

- Complete construction of the Glass Former Storage Facility
- Complete repair work for FSW tanks
- Receive the replacement NLD panel
- Complete component testing of the low-voltage, medium-voltage, and fire detection systems for switchgear Buildings 87 and 91

Issues:

No major issues at this time.

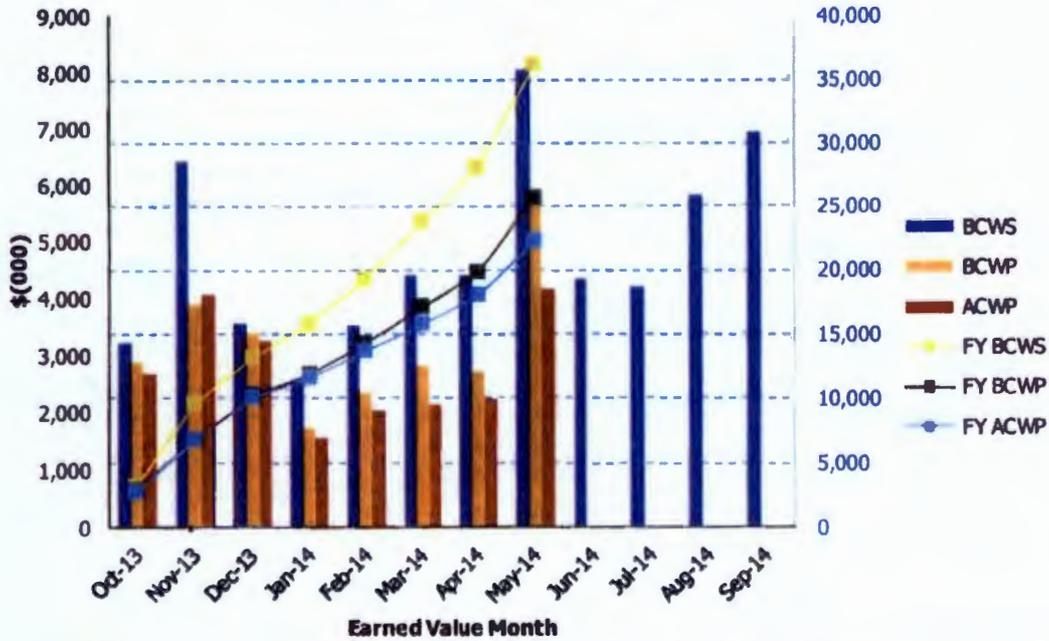
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2014 Earned Value Data

Data as of: May 2014

**River Protection Project
Balance of Facilities**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$3,218	\$2,901	\$2,679	0.90	1.08	\$3,218	\$2,901	\$2,679	0.90	1.08
Nov 2013	\$6,431	\$3,886	\$4,067	0.60	0.96	\$9,649	\$6,787	\$6,746	0.70	1.01
Dec 2013	\$3,547	\$3,395	\$3,267	0.96	1.04	\$13,196	\$10,182	\$10,013	0.77	1.02
Jan 2014	\$2,538	\$1,737	\$1,562	0.68	1.11	\$15,734	\$11,919	\$11,575	0.76	1.03
Feb 2014	\$3,528	\$2,356	\$2,047	0.67	1.15	\$19,262	\$14,275	\$13,622	0.74	1.05
Mar 2014	\$4,394	\$2,806	\$2,163	0.64	1.30	\$23,656	\$17,081	\$15,785	0.72	1.08
Apr 2014	\$4,399	\$2,724	\$2,238	0.62	1.22	\$28,055	\$19,805	\$18,023	0.71	1.10
May 2014	\$8,035	\$5,861	\$4,179	0.73	1.40	\$36,090	\$25,666	\$22,202	0.71	1.16
Jun 2014	\$4,329									
Jul 2014	\$4,212									
Aug 2014	\$5,827									
Sep 2014	\$6,945									
PTD	\$362,803	\$343,316	\$333,572	0.95	1.03					

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 May 2014, the LAB was 74 percent complete overall, with engineering design 83 percent complete, procurement 86 percent complete, construction 91 percent complete, and startup and commissioning 24 percent complete.

Engineering efforts are focused on closure of deficiency reports and preparation of certification documents for RLD vessel 164. Construction efforts are focused on installation of remaining electrical commodities and penetration seals to support the completion of LAB construction.

Significant Past Accomplishments:

- Completed all physical work on RLD vessel 164
- Continued cable pulls and terminations
- Continued installation of penetration seals and fireproofing

Significant Planned Actions in the Next 6 Months:

- Complete electrical commodity installation
- Complete penetration seal installation
- Recertify RLD vessels 163, 164 and 165
- Initiate component level testing of select LAB systems

Issues:

No major issues at this time.

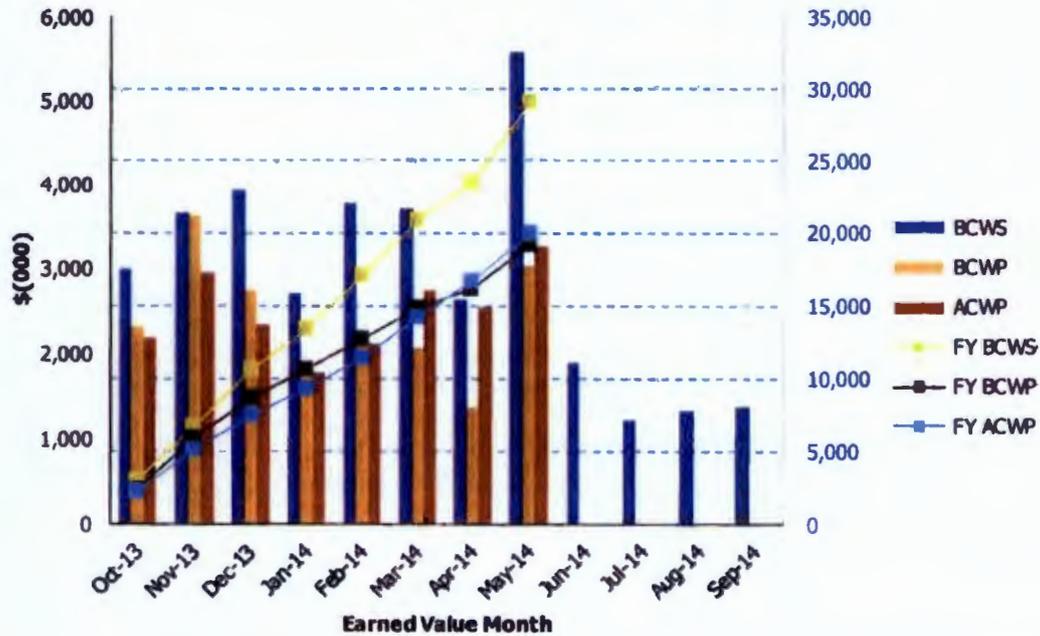
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2014 Earned Value Data

Data as of: May 2014

**River Protection Project
Analytical Laboratory**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$3,008	\$2,328	\$2,196	0.77	1.06	\$3,008	\$2,328	\$2,196	0.77	1.06
Nov 2013	\$3,689	\$3,629	\$2,959	0.98	1.23	\$6,697	\$5,957	\$5,155	0.89	1.16
Dec 2013	\$3,943	\$2,750	\$2,350	0.70	1.17	\$10,640	\$8,707	\$7,505	0.82	1.16
Jan 2014	\$2,705	\$1,875	\$1,788	0.69	1.05	\$13,345	\$10,582	\$9,293	0.79	1.14
Feb 2014	\$3,783	\$2,130	\$2,126	0.56	1.00	\$17,128	\$12,712	\$11,419	0.74	1.11
Mar 2014	\$3,718	\$2,080	\$2,751	0.56	0.76	\$20,846	\$14,792	\$14,170	0.71	1.04
Apr 2014	\$2,642	\$1,382	\$2,552	0.52	0.54	\$23,488	\$16,174	\$16,722	0.69	0.97
May 2014	\$5,592	\$3,040	\$3,274	0.54	0.93	\$29,080	\$19,214	\$19,996	0.66	0.96
Jun 2014	\$1,894									
Jul 2014	\$1,234									
Aug 2014	\$1,351									
Sep 2014	\$1,381									
PTD	\$266,119	\$252,297	\$272,499	0.95	0.93					

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

(Dollars - Millions)	Overall Facility Percent Complete Unallocated Dollars			Design/Engineering Unallocated Dollars			Procurement Unallocated Dollars			Construction Unallocated Dollars			Startup & Plant Operations Unallocated Dollars			Project Management & Shared Services Unallocated Dollars		
	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	Complete
Facilities																		
Low-Activity Waste	1,235.6	860.7	70%	325.9	265.1	81%	252.4	232.8	89%	484.1	350.2	8%	181.3	11.9	7%	1.9	0.7	36%
Analytical Lab	338.8	252.3	74%	73.1	60.4	83%	55.5	48.0	86%	138.5	126.4	91%	71.1	17.3	24%	0.6	0.2	38%
Balance of Facilities	560.8	343.3	81%	95.9	80.0	83%	74.5	53.6	72%	224.2	182.7	82%	165.5	26.7	16%	0.6	0.2	36%
Total LBL	2,135.2	1,456.3	68%	494.9	405.5	82%	392.5	334.4	85%	826.8	659.4	80%	418.0	55.9	13%	3.0	1.2	39%
PT/HLW/SS Percent Complete Status Frozen as of September 2012 (due to project rebaselining efforts)																		
High-Level Waste	1,478.5	922.1	62%	364.4	325.2	89%	433.9	349.4	81%	561.1	243.2	43%	119.2	4.4	4%	n/a	n/a	n/a
Pretreatment	2,517.3	1,410.5	56%	761.7	645.8	85%	679.9	380.4	66%	890.0	378.6	43%	185.8	5.6	3%	n/a	n/a	n/a
Shared Services	4,726.9	3,632.6	77%	1,047.0	977.9	93%	451.7	395.0	87%	1,436.5	1,143.0	80%	453.5	133.2	29%	n/a	n/a	n/a
Total HLWPT/ISS	8,722.8	5,965.2	68%	2,173.1	1,948.9	90%	1,565.5	1,124.8	72%	2,887.6	1,764.8	61%	758.5	143.2	19%	n/a	n/a	n/a
Undistributed Budget	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total WTP	10,858.0	7,421.5	68%	2,668.0	2,354.4	88%	1,958.0	1,459.2	75%	3,714.4	2,424.2	65%	1,176.5	199.1	17%	n/a	n/a	n/a

Source: Primary WTP Contract Performance Report - Form 1, Data for May 2014

Note: In September 2012, the LBL Replan was incorporated into the project OTB baseline resulting in increases/decreases to the LBL facility budgets, which correspondingly increased/decreased the facility/function to-date percent 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 HLWPT/ISS 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 HLWPT and SS and the budgets remaining in UB.

WORKING ORP Key Documents List – July 2014

Milestone Title	Milestone Tie	Document	TPA Milestone Due Date (if applicable) ¹	ORP Delivery to Regulators Date ²	Anticipated Regulatory Review Completion Date ³	Final Completion Date ⁴	DOE-ORP Lead	Contractor Lead	Ecology Lead	Comments/Issues
ORP and Ecology will review the reports generated in M-045-22-T01, -T02, and -T03 and determine whether to continue with soil desiccation/contaminant removal testing and other interim measures (TPA MS M-045-22).	M-045-22-T01	Submit Results of VZ Characterization of 241-TX to ECY	09/30/14				D. Hildebrand	S. Eberlein	J. Lyon	
	M-045-22-T02	Submit Results of VZ Characterization of 241-U to ECY	04/30/14	02/20/14	N/A	02/20/14	D. Hildebrand	S. Eberlein	J. Lyon	• Sent to ECY on 02/20/14 via ORP Letter 14-TF-0015.
	M-045-22-T03	Submit SX Soil Desiccation/Contaminate Removal Tech Results to ECY	07/31/14	05/15/14	N/A	05/15/14	D. Hildebrand	S. Eberlein	J. Lyon	• Sent to ECY on 05/15/14 via ORP Letter 14-TF-0054.
Submit to Ecology for Review and Approval as an Agreement Primary Document, a Phase 2 RCRA Facility Investigation/Corrective Measure Study Report 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 RFI/CMS Report for WMA-C	12/31/14	TBD			C. Kemp	S. Eberlein	J. Lyon	• Reported as To Be Missed in the March 2013 TPA PMM. Discussions ongoing at the PM level.
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.
CD 08-5085-FVS Appendix C	CD	Request to Forego 3 rd Technology in Tank 241-C-101	N/A	02/18/14	ECY Response Needed		C. Kemp	S. Eberlein	J. Lyon	• ORP provided this request to forego to ECY for their review on 02/18/14 via ORP Letter 14-TF-0012.
Submit RDR after WMA-C SST Retrieval Completion Certifications	M-045-86	RDR for SST C-110, embedded TPA milestone M-045-86H	01/29/15				C. Kemp	S. Eberlein	J. Lyon	• CD Retrieval Completion Certification for SST C-110 sent to ECY on 01/29/14 via ORP Letter 14-TF-0007.
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 dependent on discussions per M-045-22.
	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 dependent on discussions per M-045-22.
M-045-91 Interim Milestones and Target Dates for SST Integrity Implementing the Expert Panel's Recommendations	M-045-91G-T03	Provide AOR Final Doc. for SSTs on 1,000,000 Gallon Tanks	10/31/14	10/31/14	N/A	07/07/14	J. Johnson	R. Gregory	J. Lyon	• Sent to ECY on 07/07/14 via ORP Letter 14-TF-0074.
	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 Pkg (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	
Waste Supplemental Treatment Report	M-062-40ZZ	Submit One Time Tank Waste Supplemental Treatment Tech. Report	10/31/14				S. Pfaff	C. Burrows	D. McDonald	• ORP letter 14-TF-0052, signed 05/06/14 provides discussion on ORP/ECY agreement that ORP will not submit the one-time report • Ecology provided response letter 14-NWP-110 on 05/29/14
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	

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

² "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.

³ 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.

⁴ "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 – July 2014

Topic Areas	Document	ORP Delivery to Regulators Date ¹	Anticipated Regulatory Review Completion Date ²	Final Completion Date ³	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	
IDF Performance Assessment (ORP/WRPS has support role to RL/CHPRC)	TBD			T. Fletcher		J. Lyon		
OTHER DOCUMENTS	Submit Categorical TOC HLA	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.

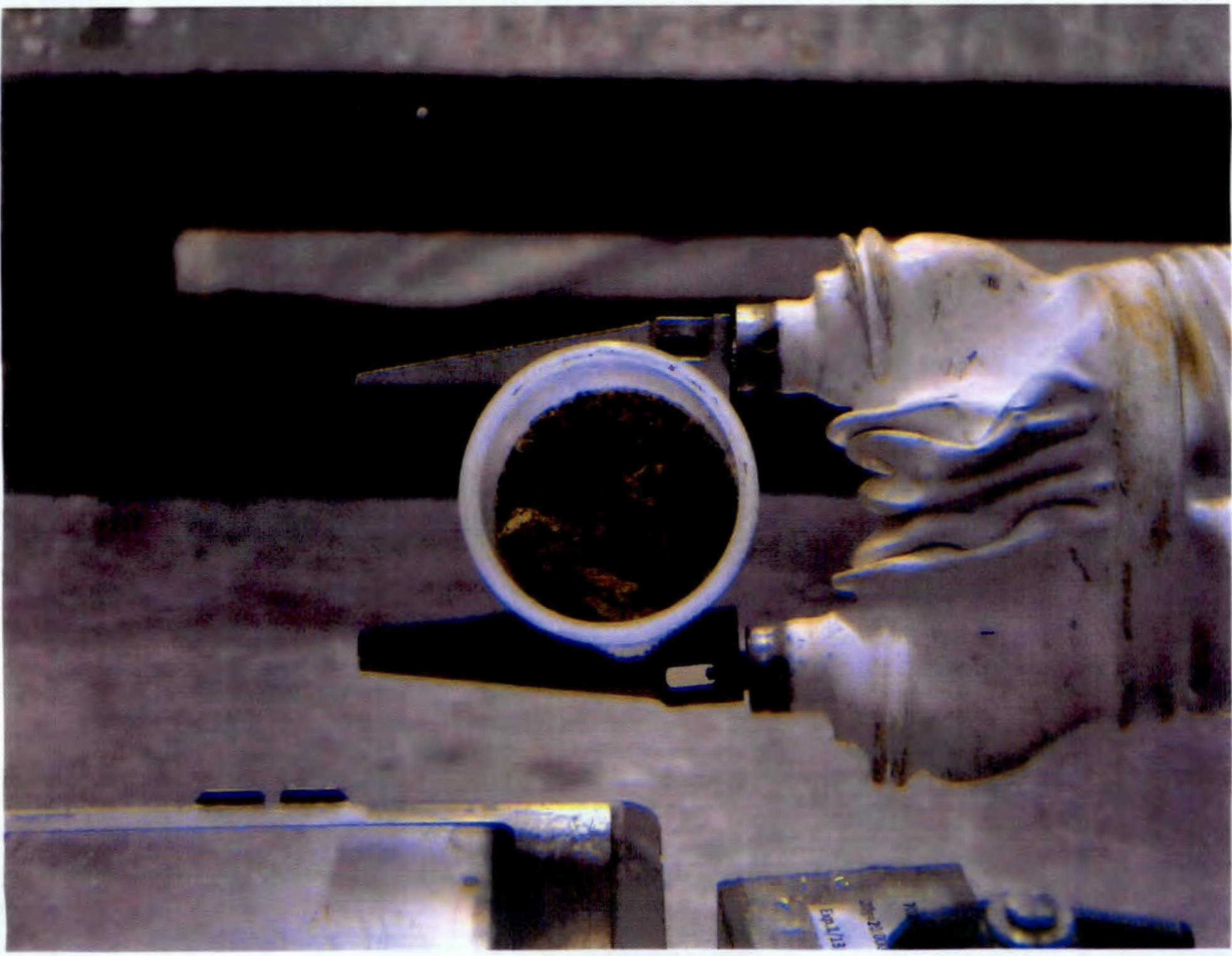
- RCRA = Resource Conservation and Recovery Act.
- RDR = Retrieval Data Report
- RFI/CMS = RCRA Facility Investigation/Corrective Measures Study.
- SST = single-shell tank.
- TBD = to be determined.
- TPA = Tri-Party Agreement.
- WMA-C = Waste Management Area C.
- WRPS = Washington River Protection Solutions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

¹ 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.

² 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.

³ 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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