

**ORP TPA Project Managers' Monthly (PMM) Meeting  
March 24 and 25, 2014  
2440 Stevens Ctr.  
Richland, Washington  
Meeting Minutes**

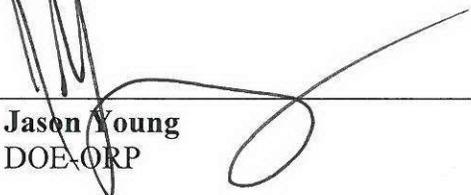
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The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above dated Project Managers' Monthly Meeting.

Approval:  Date: 4-22-2014  
**Chris Kemp**  
DOE-ORP

Approval:  Date: 4-22-2014  
for **Wahed Abdul**  
DOE-ORP

Approval:  Date: 4/22/14  
**Jason Young**  
DOE-ORP

Approval:  Date: 4/24/14  
**Jeff Bruggeman**  
DOE-ORP

Approval:  Date: 4-22-14  
**Jeff Lyon**  
Washington State Department of Ecology

Approval:  Date: 4-22-14  
**Dan McDonald**  
Washington State Department of Ecology

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**1.0 Administrative Items**

Recent Items Entered/To Be Entered into the TPA Administrative Record – ORP noted that several meeting minutes for the double-shell tank (DST) emergency pumping guide were entered into the Administrative Record (AR). Ecology stated that the minutes had been combined into one set, and noted that the minutes were individually separated in today's table. ORP stated that starting in January 2014, all of the previous meeting minutes were attachments to the January 8, 2014 meeting. MSA added that the meeting minutes were separated out for tracking purposes and to aid in a search for individual meeting minutes.

**2.0 Agreements, Issues, Actions**

ORP stated that there were no updates to any of the current agreements. The following issues and actions were updated:

Issue No. 2 – Ecology issued Administrative Order Docket No. 10156 to ORP on March 21, 2014.

Issue No. 4 – ORP stated that the FY14 budget is no longer a request and the budget for FY14 is now active. ORP noted that this issue is tied to action No. 8 (TF-13-05-04) for Direct Feed LAW (DFLAW), and suggested closing this issue and leaving action No. 8 open. ORP noted that a discussion did not occur with Ecology prior to the inclusion of DFLAW in the budget request, but pointed out that several meetings have occurred between Ecology and ORP senior management regarding the framework document that was issued. Ecology expressed the concern that it appears that unilateral decisions were made, and Ecology's preference is that both sides have significantly more discussion to better understand the concept and impacts to tank farms and the Waste Treatment Plant (WTP). Ecology added that there is a need for more discussion. ORP agreed that more discussion would be helpful regarding DFLAW, although the budget line item in issue No. 4 has already been approved.

ORP initiated a discussion regarding the Interim Pretreatment System (IPS), stating that the Secretary of Energy has changed the name of the project, partly because the system is now being designed for a 25-year life, which is not considered an interim system. ORP stated that the overall concept or strategy for DFLAW that prepares feed for the LAW building is now called the LAW Pretreatment System (LAWPS). Ecology stated that it is the first time it has heard of the change, and asked when it occurred. ORP responded that it occurred two weeks ago, and that the change was announced to staff today. ORP noted that the details in the presentation that were provided to the Ecology team in December 2013 have not changed in terms of the type of pretreatment system that is planned. ORP stated that the other key point is approval of critical decisions in the DOE project management system, and the first step is critical decision zero (CD-0) in which the mission

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needs statement is approved by DOE-HQ. ORP stated that CD-0 was approved last Monday, March 17, 2014, and the LAWPS is authorized. The contractor has been given a contract modification with a not-to-exceed value, enabling the contractor to begin conceptual design activities in FY14. ORP stated that the contractor has provided a cost and technical proposal for the conceptual design work, and the goal is to have the CD-1 package from the contractor by the end of December 2014. It was noted that the CD-1 package submittal by the contractor to ORP will be for review and will not yet be an approved document.

ORP stated that the intent is to maintain communication with Ecology throughout the rest of 2014, using the same approach when Ecology participated in a number of sessions for the alternatives analysis. ORP stated that the goal is to keep Ecology aware of the project status in the effort to turn around the CD-1 package quickly and submit it to DOE-HQ and to continue making progress on the project.

ORP noted that while a relook at the alternatives analysis has not been completed, ORP is heading down the path of a near-tank system that could use cross-flow filters (ultra filters), similar to what the WTP PT building is going to use, and an ion exchange to remove the cesium. ORP stated that the near-tank system has not been identified as the preferred option, but it is, in a sense, the preferred option. ORP added that the alternatives analysis has not been locked down yet, which is the formal part of the whole CD-1 package. ORP noted that part of the benefit to the near-tank system is there will be run time with the systems that will ultimately be used in the WTP PT system.

ORP stated that relative to action No. 8, a meeting will be set up to brief Ecology (tank farms and WTP teams) on the status of the DFLAW project. Ecology requested an updated description of the CD package and a system description for LAWPTS. ORP agreed to provide both requests during the briefing with Ecology. ORP stated that issue No. 4 for the budget request has been completed. Ecology disagreed, stating that a discussion never occurred between ORP and Ecology regarding the line item in the budget for DFLAW. ORP concurred, noting that DFLAW is now budgeted in FY14 and funded in FY15. ORP recommended closing this issue. Ecology agreed to close this issue, and requested updating action No. 8 based on today's discussion.

Action No. 2 (TF-14-02-02) – ORP stated that a schedule for closure of WMA-C is currently in the project baseline, but it has not been cost and priced. ORP stated that the request to cost and price the closure work is ongoing, and is expected to be completed in August 2014. ORP noted that a meeting was held with Ecology to describe the cost and pricing process, and in lieu of a schedule, a sketch was provided to Ecology that shows at a high level the actions that will be taken to close C Farm. This action remains open.

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Action No. 3 (TF-14-02-03) – ORP stated that a meeting is scheduled with Ecology March 27, 2014, to reach a conclusion for resolving retrieval efficiencies.

Action No. 4 (TF-14-01-01) – Ecology stated that revisions to the hose-in-hose transfer line management plan should be completed by the end of this month. ORP stated that when the revisions are completed, a TPA change package will be ready that will include the temporary hose management plan.

Action No. 5 (TF-14-01-02) – ORP provided a statement regarding some of the waste feed delivery systems strategic management and technology development: In fiscal year 2014, two technology development activities are ongoing in support of the waste feed delivery systems. One is a reference sampling determination, and two is mixing optimization. A tank waste characterization and staging facility (TWCS) capability critical decision 0, which is a justification of mission need, a package was submitted to DOE-HQ on October 28, 2013. A preliminary briefing was provided to the EM deputy assistant secretary on January 27, 2014. These preliminary functions are requirements of that package that would support the Direct Feed HLW initiative. Currently that project capability is pending approval from DOE-HQ per requirements of DOE Order 413.3(b).

ORP stated that the above-statement will be sent to all parties via email. Ecology stated that it is fairly clear that ORP is moving out with the initiatives for the TWCS and LAWPS, and requested continuing briefings on the initiatives, even though they are at the CD-0 stage. ORP asked if Ecology was including DFHLW in the request, noting that work on DFHLW is not currently being done. Ecology stated that the request includes DFHLW for the purpose of briefing on the TWCS. ORP suggested reframing action No. 5 to refer more specifically to the TWCS facility. Ecology agreed with ORP's suggestion. ORP stated that a bullet will be added to provide a briefing.

Action No. 8 (TF-13-05-04) – Ecology requested updating this action via the discussion held regarding issue No. 4 (see issue No. 4). Ecology asked if ORP anticipates that a schedule of events, in terms of design and construction, would be available by the end of December 2014 when the draft CD-1 package is to be completed. ORP responded that a schedule should be available at that time and would be shared with Ecology.

Action No. 10 (TF-12-10-04) – ORP stated that after retrieval data report samples are received for tanks C-107, C-112 and C-105, ORP and Ecology will look specifically at Tc-99 and a potential leach study of those residuals. Ecology stated that a discussion was held regarding the path forward for C-107, and agreed to close this action. This action is closed.

TPA and CD Milestone Status - ORP stated that there were no changes to report in the milestone tables, other than the submittal of some retrieval data reports and the U Farm vadose zone characterization study. ORP noted that TPA milestones M-047-07 and M-090-13 are still at risk,

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and TPA milestones M-045-61/62 and M-045-82 are to be missed. ORP also noted that the states of Washington and Oregon have been notified that there is a serious risk for meeting three CD milestones.

Ecology inquired about activities associated with CD milestones in the past six months between July and December 2013, noting that the semi-annual report did not contain any letters of direction to the contractors. ORP responded that the semi-annual period Ecology was referring to was March through October 2013, and there were no letters of direction to the contractors for retrieval work. ORP added that there is retrieval work being done. ORP stated that the next semi-annual report covers October 2013 through March 2014, and the report will be issued in July 2014, which will contain letters of direction for A/AX retrievals. Ecology stated that it wasn't necessarily referring to letters of direction regarding retrieval, and that there are LAWs, LOTs, DFLAW, etc., work that is occurring. ORP responded that the work Ecology is referring to is not part of the CD.

### **3.0 Review of the ORP Summary**

#### **Tank Farms**

System Plan - ORP reported that System Plan 7 is currently on schedule. ORP stated that a review of sections 1, 2 and 3 has been completed by ORP, WRPS and Ecology, and the plan is to redo System Plan 7 as the sections are completed. ORP stated that the team will continue with defining Ecology's assumptions, which should be completed by the end of March 2014. ORP added that a meeting is scheduled with WRPS and Ecology on March 27, 2014 to discuss the retrieval efficiencies for case 4.

#### Acquisition of New Facilities; M-90-00; M-47-00:

ORP stated that M-090-13 is at risk, as reported earlier today, and it is due to funding constraints. ORP added that M-047-07 for the Secondary Liquid Waste Treatment project is also at risk due to funding constraints. ORP noted that no attempt has been made to renegotiate these two milestones since there are ongoing CD/TPA milestone discussions. ORP stated that the expectation is for new dates to be established as a result of those ongoing discussions. ORP referred to the issues section regarding the TPA requirement for discussions on the at-risk milestones, and indicated that it wasn't known whether those discussions had occurred. ORP noted that an overall briefing was provided to Ecology in the past month.

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

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ORP reported that there have been discussions with Ecology regarding M-062-40ZZ and M-062-45ZZ, and a verbal agreement was reached that ORP will not produce a one-time tank waste supplemental treatment technologies report (40ZZ). ORP stated that the agreement will be documented via letter, and after the letter has been submitted, the status of the two milestones (40ZZ and 45ZZ) will be changed. ORP noted that the status of milestone M-062-45ZZ is part of the overall CD/TPA milestone discussions that are under way between DOE and Ecology. ORP indicated that the status of the two milestones would become to be missed until the new CD and TPA milestone dates are established.

242-A Evaporator Status – ORP reported that cold runs were just completed, and WRPS is working on its readiness assessment. ORP will then conduct its readiness assessment before starting any of the scheduled campaigns. ORP stated that the contractor is working through technical issues, and the campaign dates tend to slip if there are safety issues to review. Ecology asked for an update on what caused the last slip to the campaign dates, and requested that the information be included in the monthly summary report.

M-045-91, SST Integrity Assurance:

ORP stated that the milestones are currently on schedule. ORP noted that the main activity is the sidewall coring at A-106.

DST Status – ORP noted that this is the second month that updates are being provided on the DST system, and the process is still being worked out in an effort to provide the information that Ecology would be interested in. ORP reported that some of the key activities for this month include the installation of some valve actuators in AZ-01A pit, ultrasonic testing work at AP-104 nearing completion, and wall cleaning being initiated in preparation for the ultrasonic testing at AP-106. ORP noted that when the work is completed with AP-104, the next tank will be AP-106. ORP stated that last month, a transfer of about 36,000 gallons was completed from AN-101 to AP-104, and the corrosion inspections for the pit coatings were completed in AP-01A and AP-03A pits. ORP noted that while the pit coating inspections were being done, the encasement pressure checks of all the transfer lines that come into those pits were also done.

The next pit inspections will be in AP-04A pit, followed by AW-04A pit. ORP stated that the AW-04A pit has the two lines that are deferred use and are believed to have contained some liquids. While the work is being done in AW-04A pit, the lines will be drained, along with the encasement pressures checks. ORP noted that a letter was received from Ecology regarding the AW-04A pit lines. Ecology asked if the AW-04A pit lines were the original lines or the second

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set. ORP responded that the lines are the original lines and were discussed with Ecology, and Ecology followed up with the letter.

ORP reported that the first shipment of condensate to the Effluent Treatment Facility (ETF) was completed using the AZ-301 condensate tanker. The AZ-301 condensate tanker will be used to ship all of the condensate offsite to ETF instead of putting the condensate back into a DST. Ecology inquired about the process to ship the condensate to ETF. ORP explained that the condensate had been collected from the 702-AZ ventilation system, which is comprised of tanks AY-101, AY-102, AZ-101 and AZ-102, and was put into a condensate tank in AZ-301 and then went back into AY-101. Now the condensate is put into the new condensate tanker and trucked over to ETF. ORP noted that it will be a fairly substantial amount of yearly condensate that will no longer take up DST space.

Ecology inquired about including the DST updates under ORP milestone review topics in the monthly TPA report. ORP responded that the intent is to include the DST updates as an agenda item and provide the updates during the project managers meeting (PMM). ORP added that the DST updates are not being included in the TPA monthly report since the topic is not tied to a direct milestone. Following a brief discussion, ORP agreed to provide a written report on the monthly DST updates to be attached to the PMM minutes. ORP will continue including DST updates on the agenda for the PMM meetings.

In Tank Characterization and Summary - ORP noted there have been several samples completed. Ecology stated that the planned sampling dates for the next six months are optimistic, but the sampling plans have been approved. ORP stated that it will be updating some of the best basis inventories (BBIs) associated with some single-shell tanks that are not part of retrieval. ORP noted that updating BBIs is an outcome of the intrusion evaluations that are being done, and the updated BBIs will be listed in the TPA monthly report when they are completed.

Tank Operations Contract (TOC) Overview - ORP provided the project overview for the month of January 2014. Under the retrieve and close unfavorable schedule variance, Ecology inquired about the technical and weather issues that were encountered during hose-in-hose transfer line leak testing, causing a delay to C-105 and C-107. ORP explained that the hose-in-hose testing cannot be done during freezing weather since the hose-in-hose doesn't have heat trays. *Ecology requested an action to provide an update on the delays in hose-in-hose transfer line leak testing in January at the Tuesday biweekly meeting.*

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

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M-045-22-TO1 - ORP reported that a briefing was provided to Ecology on the status of TX vadose zone characterization. The pushes are ongoing in the TX area.

M-045-22-TO2 - ORP noted that the U Farm vadose zone characterization was completed, and a letter was submitted to Ecology.

M-045-22-TO3 - ORP stated that a briefing will be scheduled with Ecology before the report is submitted in July 2014 for the SX soil desiccation studies. M-045-61/M-045-62 - ORP stated that a number of meetings have been held with Ecology, and Ecology responded with a proposal on February 18, 2014. A follow-on meeting was held with Ecology on March 21, 2014 to work through part of Ecology's proposal. ORP stated that a meeting is scheduled on March 26, 2014 to continue the discussion with Ecology on their proposal. ORP stated that the M-045-92 milestones for the barriers are not currently in the schedule. ORP noted that the work under M-045-22 has been ongoing, productive work, and inquired about the importance to Ecology of the interim barriers. ORP asked Ecology if the interim barriers will take a higher priority than the vadose zone characterization in TX, the SGE work at U Farm, and the contaminant removal demo at SX, and if the M-045-22 work will be deferred. Ecology responded that the parties usually work together regarding ORP's question, and the parties should discuss the priorities. Ecology stated that in general, the barriers are considered useful tools to minimize infiltration and therefore minimize groundwater contamination in the interim until retrieval is completed. Ecology added that the M-045-22 work was considered important enough to support the milestone change, and it considers both the M-045-22 work and the interim barriers important. Ecology noted that the work is scheduled in an order and sequence that makes sense, and it supports the prioritization of the specific work. ORP stated that when the reports are done for the M-045-22 work, that would be a good time to continue the discussion on the interim barriers. ORP summarized Ecology's position is that both sets of work are important, and funding for additional design work needed for the SX barrier needs to be pursued for FY15. Ecology concurred with ORP's summary.

Ecology asked if interim barrier No. 3 under M-0920 is a specific barrier or a hypothetical barrier. ORP responded that it is the hypothetical barrier that follows the barriers that have already been designed for SX Farm. ORP noted that the TPA calls out for a total of four additional barriers between SX, with the hypothetical third and fourth barriers, and the location has not yet been designated for those hypothetical third and fourth barriers. Ecology asked if the push in SX is to determine whether or not a barrier is necessary and/or the scope of the barrier. ORP responded that the pushes being done this year at TX are to determine whether or not a barrier is necessary, and the SGE work at U Farm is to determine whether or not a barrier is necessary and, in both cases, if appropriate, non-barrier or other interim measure. ORP added that one of those barriers, if appropriate, would be barrier 3.

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TPA-SST Retrieval and Closure Program:

Significant Past Accomplishments - ORP noted that the retrieval data reports (RDRs) for C-104 and C-109 were completed, and a WMA-C Performance Assessment (PA) meeting was held last week. ORP reported that the quarterly sampling for all the C Farm wells was completed March 19, 2014.

Tank Waste Retrieval Work Plan (TWRWP) Status - ORP reported that the C-105 TWRWP will be revised when the data for the DST supernate concentrations is received, and the risk will be updated.

Tank in Appendix H. Status (tank 241-C-106) - There was no change in status reported.

Tank Retrievals with Individual Milestones (tanks 241-A-103 and 241-S-112) – There was no change in status reported.

CD-SST Retrieval and Closure - ORP inquired about the status of the request to forego a third retrieval technology in C-101, which was sent to Ecology on February 18, 2014. Ecology responded that ORP should receive its response letter in the next 20 days. Ecology asked about the letter it sent to ORP on the last retrieval that was not under the 360 cubic meters. ORP responded that Ecology's letter regarding C-108 was carefully reviewed and a response letter was drafted. ORP stated that Ecology requested a discussion regarding ORP's draft response and asked ORP to not send the letter, with the presumption that a retrieval data report sample would be provided for every request to forego, including C-108. ORP noted that the CD does not require a retrieval data report sampling and results in a request to forego. ORP stated that Ecology's letter, 12-NWP-178, was sent on November 16, 2012, and ORP responded formally with the retrieval completion report, 13-TF-0025, on May 1, 2013.

ORP stated that the status is ongoing for D-00B-03 and D-00B-04, and there are negotiations with the Washington Attorney General and the Department of Justice. Ecology noted that ORP has not yet announced the two milestones are at risk. ORP concurred, indicating that the milestones are still considered to be on schedule. Ecology referred to the nine tanks under D-00B-03/04 and potential work on the next retrieval process, and asked if ORP is planning any field work in A/AX and if there is any retrieval planning under way. ORP responded that A/AX work is being cost and priced, and field work is under way with ground penetrating radar. ORP stated the intent is to remove old abandoned equipment from A/AX Farm and put in an integrated retrieval system on the four tanks in AX and the six tanks in A Farm, and a common diversion valve would be installed.

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ORP stated that there is precedent from C Farm that the equipment would be removed to be able to prepare an adequate TWRWP, and the TWRWP would cover the in-tank retrieval components, such as the slurry pump and the enhanced reached sluicers. The common equipment above ground would be installed prior to approval of the TWRWP, which is what was done in C Farm. ORP noted that these activities started at the beginning of March 2014, and the A/AX activities will be summarized in next month's report.

ORP stated that the CD doesn't include part of the TPA requirements for a TWRWP, and ORP envisions three TWRWPs for A/AX Farm. There will be a CD TWRWP for AX Farm, a CD TWRWP for A Farm, excluding A-103, and a TPA TWRWP for A-103. Ecology asked how the A-103 TWRWP would be different from the two CD TWRWPs. ORP responded that the parties need to refer to Appendix I, Section 2.13, and that the CD and TPA have different requirements for TWRWPs. ORP stated that the CD requirements for TWRWPs do not have the retrieval technology or rationale needed to meet milestone M-045-00, nor the general arrangement diagram, the system description, the P&ID, the process flow diagrams, the information demonstrating compliance with WAC 173-303-640, or the disposition of the system at completion of the retrieval.

Ecology asked if ORP has decided to generate three separate TWRWPs. ORP responded that the current proposal is three TWRWPs, although it may be possible to combine the A/AX TWRWPs. ORP noted that there are differences between tanks in A and AX that warrant separate documents. Ecology stated that when the CD was being negotiated, the vision wasn't necessarily for separate documents, but more focused on attempting to define the different authorities and approval processes. Ecology suggested that ORP consider the possibility of submitting one TWRWP for a set of tanks and then isolating the parts that are CD requirements. ORP expressed appreciation for Ecology's clarification and comments, and reiterated that a decision has not been made to have three separate TWRWP documents. Ecology noted that it is not opposed to three documents, and the consideration is what is more expeditious for the decisions that ORP will be making.

CD TWRWP Status - (see TPA TWRWP status).

### **Waste Treatment Plant**

The WTP actions were updated as follows:

Action No. 1 (WTP-13-04-03) – ORP conducted a walk-down with Ecology last month on the status of the thermal catalytic oxidizer (TCO), and an update will be forwarded to Ecology. This

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action remains open.

Action No. 2 (WTP-13-04-01) – ORP closed with Bechtel two days ago on Bechtel's extent of condition (EOC) for the RVP. Bechtel is modifying the path forward for RVP Wave II. This action remains open.

Action No. 3 (WTP-14-02-01) – ORP provided Ecology a briefing on WTP technical issues and WTP/tank farms integration. This action is closed.

ORP noted that the current employee count of 2,120 is down about 100 to 200 less than previously reported, and it is due to attrition going forward and not to any layoffs. Efforts are under way to hire engineering personnel. ORP stated that the negative schedule variance is primarily due to the LAW, BOF and LAB (LBL) baseline becoming less representative of what work is being done. The negative schedule variance will continue until the baseline is updated through the proposal process, which is under way. ORP noted that there is a positive cost performance. ORP stated that PT and HLW continue to work to the two-year work plan, which goes to the end of FY14, and Bechtel has been directed to prepare another set of two-year work plans for PT and HLW. Ecology asked if the new two-year work plan will reflect everything that was found in the HLW design review. ORP responded that it will not include everything and will only cover activities for the next two years. ORP added that the new two-year work plan will carry everything that has already been loaded in the transition plan that was provided as part of the HLW resumption plan.

Ecology referred to the new two-year work plan, and asked when a briefing could be provided on the path forward for HLW and PT in terms of schedule and steps. ORP responded that a discussion regarding the steps for HLW could occur in the June 2014 time period. ORP noted that the schedule for HLW will be bound up in the Consent Decree (CD) discussions, and a vision for the schedule couldn't be provided at this point. ORP stated that the baseline in the contract for LBL will have to be aligned and get LBL moving forward, and then the contract to baseline alignment for HLW will be the next phase, followed by PT.

ORP noted that there are two decisions for resumption in HLW, and the first decision is divided into two parts. The first decision was the limited resumption in February 2014 (decision 1A), followed by another limited resumption in the June 2014 time frame (decision 1B). ORP stated that the second decision will be for unlimited resumption and will take at least another year to a year-and-a-half from the June 2014 time period, depending on the conditions that ORP places on Bechtel based on their progress to date. ORP noted that the intent is to have a better understanding of the path forward for PT, in terms of technical issue resolution, by September 2014.

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Ecology asked for clarification between the conditional versus unconditional authorization to proceed in HLW. ORP explained that the first step that was authorized in February 2014 allowed Bechtel to do engineering on technical issues. The June 2014 authorization will allow more engineering and procurement activities, assuming Bechtel meets the schedule that was submitted. For the full authorization to resume activities, Bechtel will need to have the nuclear safety and design aligned to where ORP is not imposing restrictions on the work; i.e., the work will be under Bechtel's normal control procedures and processes, and Bechtel will be able to manage without controls on engineering and procurement that ORP puts in place. ORP noted that civil and structural work was allowed that did not impact the wet cell, and Bechtel is still working within those constraints.

Ecology initiated a discussion regarding direct feed LAW (DFLAW), stating that ORP appears to be moving out with their contractors on the DFLAW concept. ORP responded that a request for proposal was given to the contractor, which is a long way from moving out with the contractor. Ecology stated its understanding is that ORP has directed the tank farms contractor to start putting together a critical decision (CD) package for the DFLAW effort. Ecology stated that as the parties move forward, details will be needed if the concept is going to be a single pass; i.e., the technetium capture and potentially an iodine capture issue will need to be accommodated. Ecology noted that if the interim fix is to dump the secondary waste stream back in tank farms, a solution will still be needed downstream.

Ecology inquired about the delineation between WTP and tank farms in terms of DFLAW. ORP stated that the DFLAW scope and funding in FY14 is in tank farms, and anything within the 65-acre WTP construction site will be done on the WTP project. ORP noted that the integration lead between tank farms and WTP will be responsible for putting together the strategy aspects of DFLAW.

ORP stated that a briefing will be scheduled with Ecology to discuss some of the details of DFLAW. Ecology requested a fairly significant technical briefing about how all the parts will be designed to come together, and what the impact will be on items such as DST space, LAW processing, and whether or not any of the glass formulations could accommodate a greater technetium capture. Ecology also suggested discussing mass balance. ORP responded that it is too early for a discussion on mass balance since DFLAW is in the conceptual design phase. Ecology concurred, but stated that the mass balance will need to be understood before technetium capture and other kinds of things can be verified. ORP agreed that an understanding of the mass balance will be needed.

Significant Past Accomplishments - ORP reported that the HLW design and operability review

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report has been completed and will be ready for release in about two weeks. ORP stated that the LAW design review has been initiated, and there are about 30 individual contractors providing support, similar to the composition of the HLW design team. Ecology requested participation in the LAW design review. ORP responded that Ecology will be invited to participate, consistent with its participation in the HLW design review.

ORP reported that the initial decision was made for HLW to move forward with some design activities, but no construction or procurement activities have been authorized. ORP stated that the more complete decision for HLW resumption is expected at the end of June 2014 (see discussion above). ORP stated that Bechtel submitted a draft HLW safety design strategy (SDS), and the review process is under way.

**Pretreatment (PT) Facility**

Significant Past Accomplishments - ORP stated that Bechtel has been requested to initiate the planning for PT resumption, and the technical teams are being reenergized, including technical teams 1 through 3. ORP noted that technical teams 1 through 3 were less active during the HLW resumption planning due to their focus being criticality issues tied to PT. ORP stated that the action plans for the technical teams are being laid out and should be available in the 2014 fall time frame. ORP noted that Bechtel submitted the probabilistic risk assessment (PRA), which ORP has restricted to HPAV from a safety perspective. ORP stated that the full-scale testing is still in construction, and that the crane is active and the pipe bridge up. ORP stated that late July 2014 is targeted for the startup of full-scale testing, with controls testing on the pulse jet mixer (PJM) with water.

ORP reported that the jet impingement testing is continuing, and preparations are under way to do the slurry pot testing. There have been some conflicts with the vendor to get the slurry pot testing going, but efforts are under way to improve the pace. ORP noted that it has all of the data needed from PNNL and the labs associated with the slurry pot testing. The data will be rolled into the test plans, and Bechtel will own the work, although they will still consult with PNNL. Ecology referred to a memo about a delay in the slurry pot design and inquired about the issue. ORP responded that there was a concern Bechtel was using a single decision point approach, and one of ORP's consultants indicated there are risks associated with that approach. ORP has discussed the issue with Bechtel, suggesting that other options need to be considered. ORP stated that Bechtel remains confident that the testing will answer the questions concerning erosion/corrosion. Ecology asked when the slurry pot testing is to start. ORP stated that it was originally slated to begin this month, and it will probably get pushed into May 2014 and is targeted to last for about six

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months.

ORP stated that there was a standardized vessel summit to look at a standardized vessel design from a conceptual perspective. The results from the flow sheet and mass balance indicate that a single vessel is a feasible option. ORP noted that when more of the design specifics are laid out, there will probably be permitting pieces that will tie with that on the back end of the permit. Ecology noted that there are many design specific issues associated with the current state of the building, such as the embeds, rings and liner plates that are installed, and the penetrations between the walls. ORP responded that all of those issues will be factored into the decision regarding the vessel options, and the team is aware that there will probably be core drilling and other actions beyond that if the single vessel option is selected. ORP added that there may be cost savings associated with testing if a single vessel is chosen, compared to building modifications, and it is all being evaluated.

Ecology asked how many vessels are already installed that would be affected and how many vessels are not yet installed that would be affected. ORP responded that the areas under discussion are planning areas 1 and 2, and the vessels are not installed in those areas, although they are in various stages of fabrication. ORP stated that at this point, nothing would have to be torn out of the facility. ORP noted that it is still in the conceptual development phase, and the detailed work has not been done to make any final decision. ORP added that the indicators are, from technical issues resolution to testing costs to ability to operate with flexible, redundant vessels, that there are several positives that potentially outweigh the costs of making a change to the facility at this point. Ecology asked if ORP plans to proceed with the vessels that are in fabrication until a decision is made. ORP responded that all of the design, procurement and construction activities in PT are suspended, and fabrication of the vessels will not proceed.

Ecology asked whether or not the single-size vessel under consideration will affect the vessels that are already installed. ORP responded that the primary challenge is associated with the HLW feed vessel, which is in the sequence of vessels that go from separation to the HLW prep vessel, and those vessels are located in planning areas 3 and 4. ORP stated that the vessels in areas 3 and 4 have not been installed, and the vessels that were planned to be installed would probably not be usable and new vessels would have to be built. Ecology inquired about the four-pack of large vessels. ORP responded that those are not the vessels that are being discussed. A diagram was shown to illustrate where the four-pack vessels were located in the facility. ORP stated its understanding was that more details about the vessels are to have been provided to Ecology for discussion. Ecology responded that it was not aware of those discussions, and the only thing that was received, other than a couple of very high level, vague technical discussions, is what currently

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exists in the framework document. ORP stated that a review was conducted to determine whether the document containing details about the vessels was releasable, and the document has been forwarded to management.

**High Level Waste**

ORP noted that a preliminary conditional authorization to resume in HLW was given to Bechtel on March 6, 2014, which allows Bechtel more engineering latitude starting in the June 2014 time frame (see discussion under WTP). ORP stated that it is waiting to receive some of the final products associated with the June 2014 conditional authorization, with the SDS alignment being the major element. ORP added that draft versions of the SDS have been reviewed, and submittal of the SDS for final review is anticipated on April 4, 2014. ORP has scheduled six months to review the SDS since it is a fairly substantial document. ORP stated that most of the deliverables from Bechtel are anticipated in December 2014, and that six of the nine are still outstanding.

Significant Past Accomplishments – ORP noted that the design and operability review report has been completed (see discussion under WTP) and will be released within two weeks. ORP has requested Bechtel, as part of the design review, to provide an HVAC and a HOP recovery plan and an action plan. Ecology asked if the request was for HVAC in general or if it includes air spaces in the building. ORP responded that the HVAC is being addressed from a design/planning perspective in the building to ensure there is adequate volume. ORP added that some of the fundamental HVAC questions were not answered sufficiently during the design review for items such as the air exchanges, airlocks, low flow and high flow. ORP stated that it requested the submittal of the recovery and action plans on April 15, 2014, and that the plans will be more of a strategy for addressing the HVAC and HOP, rather than specific details. ORP noted that it is not limiting the potential for design changes.

Significant Planned Actions in the Next 6 Months – ORP stated that the HEPA filter testing is slated to begin in May 2014 at Mississippi State University (MSU). ORP noted that MSU has been experiencing some difficulty with their NQA-1 quality standards, and ORP and Bechtel have been assisting MSU as it relates to the HEPA filter test to ensure the quality standards are in place. ORP stated that most of the testing needed under NQA-1 won't happen until next year, which will give MSU additional time. Oregon Department of Energy (ODOE) asked how many different filters will be tested. ORP responded that currently three basic filter designs with the same dimensions are to be tested, which are a standard filter, a fiberglass-back filter, and a steel reinforcement filter.

**Low Activity Waste Facility (LAW)**

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Significant Past Accomplishments - ORP noted that the design/operability review was initiated, which is the same type of review that was done in the HLW facility. ORP stated that the first outbrief on the design review will be scheduled with Ecology within a week. ORP noted that a walk-down was provided to Ecology regarding the status of the TCO, which is still the critical path for LAW. Ecology asked if ORP is still considering milestone D-00A-07 at risk for LAW Facility construction substantially complete by December 31, 2014. ORP responded that it does not anticipate the at risk status to change, although it has communicated to the contractor the expectation to take all reasonable action in an attempt to achieve the milestone. ORP added that completing the TCO data is incompatible with that outcome. ORP stated that the milestone undergoes an extensive review by the department to ensure it carries the global perspective of the government. Ecology stated that in view of the time it took to go through the process for the LAB substantially complete milestone, essentially for validation and verification, it is already getting too late to accomplish the LAW milestone by December 2014. ORP concurred that the concern is associated with the timing of validation.

**Balance of Facilities (BOF)**

ORP stated that the focus, from a construction perspective, is on the standby diesel generator (SDG) facility, the glass former facility, and the NLD system. ORP stated that the SDG is forecasted to be set in place in the mid- to late summer 2014 time frame. A majority of the piping has been installed in the glass former facility, and electrical pulls and instrumentation installation are under way. ORP noted that there are a few outstanding components that are being procured to get set in place. The load-in facility has been waiting on procurement of some valves, which should arrive by early summer 2014. ORP stated that none of these activities are critical path for turnover, although the SDG has to be operational as the turnover process is worked for BOF.

ORP stated that the cathodic protection system has been a key focus for some time. The entire system was energized, and data was obtained for additional test sites that were installed. Areas of weakness in the cathodic protection system were identified, and a plan is in place to install additional rectifiers. ORP stated that the contractor had initially scheduled completing installation of the rectifiers in mid-2015, and ORP is challenging the contractor to accelerate the installation.

**Analytical Laboratory (LAB)**

Significant Planned Actions in the Next 6 Months - ORP stated that process instruments will be

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received and installed that are for the general facility. ORP noted that these are not the analytical instrumentation that will be received and installed later. The majority of the focus is on finalizing electrical work, and the build-out of the hot cells will continue. ORP stated that another area of focus is building the stack discharge, and elaborate bracing is being built to hold the monitors in place.

ORP stated that the repairs to RLD vessels 163 and 165 have been completed, and the next step will be hydrostatic testing for RLD 163, followed by a certification package for the vessels. ORP noted that no hydrostatic testing is required for RLD 165 since all of the repairs were surface cleanup and there was no impact to the metal. ORP stated that all three of the vessels passed the original hydrotesting as part of their certification, and the amount of retesting depends on the amount of work done on a vessel. ORP stated that the amount of work on RLD 165 does not require any retesting. RLD 164 will require a full hydrostatic test.

ORP stated that there were 21 nozzles on RLD 164 that needed repair, and most of the work was completed. ORP reported that the weld grind-through on nozzle 1 was repaired, and then heat indications on the interior pipe from the previous weld were noted. ORP stated that the heat indications on the interior would not be an issue, but combined with the previous problem of the grinding required the nozzle to be replaced. The nozzle is being cut out and the material has been identified for replacement.

ORP reported that another issue was identified regarding the nozzles. It was discovered that in 2005, the subcontractor made a change to the materials for some of the nozzles without clearly identifying the change in the documentation. The documentation was located in a table in the middle of a package, and changed from a seamless piping to a seamed piping for some of the nozzles. ORP stated that Bechtel is working through the issue, and so far the change from seamless to seamed will not be a problem with the exception of one nozzle that needs to be replaced. Bechtel is working through the calculation information, and the information to support a seamed nozzle (seamed piping vs. seamless) will have to be provided. ORP stated that no further problems are anticipated, and it doesn't appear there will be an issue with the integrity of the vessel or the ability to accept the vessel. ORP indicated that the seamed piping on the nozzles is not an issue with RLD 163.

Ecology noted that there will be no pressure on the nozzles. ORP agreed, adding that from a structural perspective, RLD 164 would have performed as needed, but the issue is meeting the quality standards that were established and that the vessel was purchased to. ORP stated that Bechtel is investigating the vendor's certification procedure, noting that Bechtel has been very

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proactive in their approach to these issues. ORP indicated that there will be about a two-week delay to complete RLD 164, and since the certification paperwork is being prepared in parallel, there will be a short amount of time after the repairs are done and the certification package to R stamp the vessel is complete. ODOE inquired about the time line for hydrotesting RLD 164 and 163. ORP responded that the target is for mid-April 2014.

ORP stated that there will be a permit change associated with the seamed nozzles, and how the permit aspect may impact the vessel will be evaluated. ORP pointed out that from a physical perspective, the vessel will do what is needed and will be R stamped as a certified, ready-to-go vessel.

#### **4.0 Key Documents List**

Ecology asked about the request to forego a third retrieval technology for C-101. ORP stated that the key documents list is for TPA documents, and the request to forego is a CD document. Ecology stated that the intent of the key documents list is to help track all the documents, and it would be helpful to include the CD documents ORP is planning to submit. ORP stated that the request to forego will be added to the key documents list.

#### **Upcoming Meetings**

The April 2014 ORP TPA project managers' monthly meeting is tentatively scheduled for Tuesday, April 22, 2014, in ORP room 1600 from 9:00 AM to 11:30 AM.

**ORP Project Managers Meeting  
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**Attachment A: Agenda, AR List, Agreements, Issues, and Action Items**

**(5 pages including this cover sheet)**

**March 2014 ORP Project Managers' Monthly Meetings**  
**March 24 and 25, 2014**  
**2440 Stevens Center Richland, Washington**  
**Room 1600, 8:30AM-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> - search EDMC File Number)

Item Description	TPA/CD Topic Milestone Tie	TPA Admin Record – EDMC File Number
February 2014 TPA Monthly Summary Report	All	1223122
February 2014 CD Monthly Summary Report	All	1223123
Retrieval Data Report for Tank 241-C-104, ORP letter 14-TF-0013 dated 02/18/14	M-045-86C	1223129
Results of Three Dimensional Surface Geophysical Exploration of the U Tank Farm, ORP letter 14-TF-0015 dated 02/20/14	M-045-22-T02	1223199
Retrieval Data Report for Tank 241-C-109, ORP letter 14-TF-0020 dated 03/13/14	M-045-86G	1223575
Meeting Minutes for DST Emergency Pumping Guide, dated 05/30/13	DST Emergency Pumping Guide	1223466
Meeting Minutes for DST Emergency Pumping Guide, dated 07/30/13	DST Emergency Pumping Guide	1223467
Meeting Minutes for DST Emergency Pumping Guide, dated 08/26/13	DST Emergency Pumping Guide	1223468
Meeting Minutes for DST Emergency Pumping Guide, dated 09/25/13	DST Emergency Pumping Guide	1223469
Meeting Minutes for DST Emergency Pumping Guide, dated 01/08/14	DST Emergency Pumping Guide	1223461
Meeting Minutes for DST Emergency Pumping Guide, dated 01/22/14	DST Emergency Pumping Guide	1223462
Meeting Minutes for DST Emergency Pumping Guide, dated 02/05/14	DST Emergency Pumping Guide	1223463
Meeting Minutes for DST Emergency Pumping Guide, dated 02/24/14	DST Emergency Pumping Guide	1223464
Email dated 02/26/14 for C-101 Post Retrieval Solids Sampling Development	Post Retrieval Sampling	1223465

**2.0 Agreements, Issues, Action Items**

**3.0 Review of the ORP Project Summary**

- DST Status

**4.0 Key Documents List**

**Upcoming Meetings**

- The April 2014 ORP TPA Project Managers' Monthly Meeting is tentatively scheduled for Tuesday, April 22, 2014 in ORP Room 1600 from 9:00AM-11:30AM.

## ORP/Ecology TPA and CD Agreements, Issues, and Action Items for March 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: Monitoring of the leak into the annulus of AY-102 continues. The tank is ready to be able to transfer liquids out of the primary tank or from the annulus to the primary. ORP and ECY met on 01/15/2014, 01/22/2014, 01/29/2014, and 02/05/2014 to discuss the draft pumping plan (RPP-PLAN-55220) that was submitted to ECY via ORP letter 13-TF-0049 on 06/14/2013. ORP submitted a revised pumping plan to ECY on 03/07/2014. ORP and ECY met on 03/17/2014 to discuss AY-102. Ecology issued Administrative Order Docket #10156 on 03/21/2014.
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>
4. Ecology TPA Project Managers expressed concerns with a line item in the ORP FY2014 budget request for planning for the direct-feed of the WTP Law Facility, and why there has been no discussion with Ecology prior to this being included in the budget request. The ORP and Ecology TPA PMs have agreed to raise this issue to their respective management for discussion/resolution.

Tank Farms Actions							
#	Action ID	Date Initiated	Action	Action Status	Updates / Needs for Closure	Actionee(s)	Date Closed
1	TF-14-02-01	02/18/14	ECY would like a briefing from ORP/WRPS on the DQO for SY-102 and how the core sampling platform will be utilized.	<b>Open.</b>		Mauss / Johnson	
2	TF-14-02-02	02/18/14	ECY would like a schedule and project management plan (if available) for the closure of WMA C.	<b>Open.</b>		Kemp	

## ORP/Ecology TPA and CD Agreements, Issues, and Action Items for March 2014

<b>Tank Farms Actions</b>							
#	Action ID	Date Initiated	Action	Action Status	Updates / Needs for Closure	Actionee(s)	Date Closed
3	TF-14-02-03	02/18/14	ECY has requested additional information from ORP on retrieval efficiencies for the System Plan 7 modeling assumptions.	<b>Open.</b>		Kemp / Smith	
4	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 by March 1, 2014.	<b>Open.</b>	ECY sent its comments to ORP via email on 02/03/14. ORP is setting up a meeting to discuss ECY comments.	Vanderpol / Fox / Alzheimer	
5	TF-14-01-02	01/28/14	ECY would like more information on DFHLW, Strategy Management, & Technology Development work scopes under WFD/Treatment Planning/DST.	<b>Open.</b>		Diediker / Pfaff / Wheeler	
6	TF-13-12-01	12/19/13	ECY will provide a list of team members and their roles and responsibilities to ORP so that ORP can provide all applicable invitees to future meetings.	<b>Open.</b>		Lyon / McDonald	
7	TF-13-12-02	12/19/13	ECY has requested additional information on the operational and maintenance plans for the 242-A evaporator.	<b>Closed.</b>	ORP spoke to this topic and provided additional hard-copy information to ECY on 02/20/14.	Koll	02/20/14
8	TF-13-05-04	05/16/13	ORP will set up additional meetings with ECY to discuss Direct Feed LAW and TF support (with TF/WTP Integration POCs).	<b>Open.</b>	A meeting was held to brief on DFLAW on 12/17/13. Steve Pfaff will meet with ECY TF staff to brief in February 2014.	Fletcher / Pfaff	
9	TF-13-02-03	02/21/13	ECY would like to continue to meet with ORP to discuss work on the WMA C PA and other options for M-045-61/-62/-82.	<b>Open.</b>	Meetings are ongoing between the ORP and TF Project Managers.	Kemp / Eberlein / Mathey	
10	TF-12-10-04	10/16/12	ECY would like to discuss C-107 and considerations for Tc-99 concerns with tank residuals and technology selection.	<b>Open.</b>	On hold until after C-107 RDR sampling has occurred.	Kemp	

## ORP/Ecology TPA and CD Agreements, Issues, and Action Items for March 2014

WTP Actions							
#	Action ID	Date Initiated	Action	Action Status	Updates / Needs for Closure	Actionee(s)	Date Closed
1	WTP-13-04-03	04/23/13	ORP will update ECY on a monthly basis on the path forward for the TCO vendor concerns.	<b>Open.</b>	On-going, status given monthly.	Jeff Bruggeman	
2	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.	<b>Open.</b>	Wahed took the action to follow-up with Gary and close with ECY.	Gary Olsen / Wahed Abdul	
3	WTP-14-02-01	02/18/14	ORP will provide briefing and details on WTP technical issues and WTP/TF integration activities.	<b>Closed.</b>	ORP discussed this in the WTP March 2014 Special Topics meeting.	Wahed Abdul / Wendell Wrzesinski	03/11/14

**ORP Project Managers Meeting  
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**Attachment B: List of Attendees**

**(3 pages including this cover sheet)**

**Sign In Sheet**  
**ORP TPA Project Managers' Monthly Meeting**  
**March 24, 2014**

NAME	ORG	PHONE
Rob Pirolo	MSA/TPA	373-3285
Dobrisha Smith	ORP	376-4306
Mike Borne	Ecology	372-7927
Susan Eberlein	WRPS	372-1689
Jeff Luke	WRPS	
Nancy Ziemler	Ecology	372-7928
JARED MATHEW	Ecology	372-7949
Don McDonald	Ecology	372-7988
Jeff Lyon	Ecology	539-1996
Sharon Cimon	DOE	(SA) 2103-0853
WYATT CLARK	WRPS	509 713 4652
Jim Abbeimer	Ecology	509 372 7982
Jeremy Johnson	ORP	376 1866
Chris Kemp	DOE-ORP	509-373-0649
Kathy Diggins	ORP	376-3658
Jasit Diediker	ORP	372-3043
Steve Pfaff	ORP	376-2188
Maria Skorska	ECY	372-7891
Joni Grindsteff	DOE-ORP	376-6202
Chris Harrington	DOE-ORP	376-1239
James Lynch	DOE-ORP	376-4170

**Sign In Sheet**  
**ORP TPA Project Managers' Monthly Meeting**  
**March 25, 2014**

NAME	ORG	PHONE
James Lynch	DOE-ORP	376-4170
Tracy Gao	ECY	372-7901
Robbie Biyani	ECY	372-7884
Dan McDonald	ECY	372-7988
Annette Carlson	ECY	372-7897
Arlene Tortoso	ECY	372-7956
Nitya Chandran	ECY	372-7931
ROB PIIPPO	MSA/TPA	373-3285
Wendell WRZOSINSKI	DOE - WSC	554-8823
Delmar L. Noyes	DOE - WTD	376-5166
KAYLIN BURNETT	DOE - WTP	(509)362-0622
Jason Young	DOE	376-0375
STEWLEY CIMON	ODDE	(541) 240-0161
JEFF HYAN	Ecology	539-1996

**ORP Project Managers Meeting  
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**Attachment C: Presentation Materials**

**ORP TPA Project Summary  
(18 pages)**

**And**

**ORP Consent Decree Project Summary  
(20 pages)**

**And**

**Working ORP Key Documents List  
(2 pages)**

**(41 pages including this coversheet)**

**FINAL**

Office of River Protection

Tri-Party Agreement  
Monthly Summary Report  
March 2014



**Office of River Protection  
Tri-Party Agreement Milestone Review  
March 2014 (Monthly Summary Report/Project Earned Value Management System reflects  
January 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-062-20, M-062-30, and M-062-45	Steve Pfaff/Jeff Lyon/Dan McDonald
5	242-A Evaporator Status	Ron Koll/Jeff Lyon
6	Single-Shell Tank Integrity Assurance; M-045-91	Jeremy Johnson/ Jim Alzheimer
7	In Tank Characterization and Summary	Billie Mauss/Michael Barnes
9	Tank Operations Contract Overview	Kathy Higgins/Jeff Lyon
14	Single-Shell Tank Corrective Action; M-045-22, M-045-50 series, M-045-60 series, and M-045-92	Chris Kemp/Jeff Lyon
15	Single-Shell Retrieval and Closure Program Tri-Party Agreement (TPA) Milestones Status; M-045-00 series	Chris Kemp/Jeff Lyon
17	Tank Waste Retrieval Work Plan Status	Chris Kemp/Jeff Lyon
18	Tank in TPA Appendix H, Status Tank Retrievals with Individual Milestones	Chris Kemp/Jeff Lyon
CD	Waste Treatment and Immobilization Plant (WTP) Overall TPA Summary and Milestone Status; see the U.S. Department of Energy, Office of River Protection Consent Decree 08-5085-FVS Monthly Summary Report for WTP Facility-specific information	Delmar Noyes/Dan McDonald

CD = Consent Decree 08-5085-FVS

Milestone	Title	Due Date	Completion Date	Status
<b>Fiscal Year 2014</b>				
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		On Schedule
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-047-07	CD-1 for Secondary Liquid Waste Treatment and CR for CD-2 to Ecology	09/30/2014		At Risk
M-090-13	CD-1 for Interim Hanford Storage Project and CR for CD-2 to Ecology	09/30/2014		At Risk
M-045-22	Review M-045-22-T03 Report and Determine Path Forward	09/30/2014		On Schedule
<b>Fiscal Year 2015</b>				
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		On Schedule
M-045-91G-T03	Provide AOR Final Doc. for SSTs on 1,000,000 Gallon Tanks	10/31/2014		On Schedule
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

Milestone	Title	Due Date	Completion Date	Status
<b>Fiscal Year 2015 Continued</b>				
M-045-92O	Barrier 3 Design/Monitoring Approval From Ecology	06/30/2015		On Schedule
M-045-91G	Provide Summary Conclusions Report of AOR for SSTs	07/28/2015		On Schedule
M-045-56K	Ecology and DOE Agree, at a Minimum, to Meet Yearly (By July)	07/31/2015		On Schedule
M-045-91H	Submit Change Pkg (if necessary) to est. Additional Milestones	07/31/2015		On Schedule
M-045-82	Submit Comp. Permit Modification Request for Tiers 1,2,3	09/30/2015		To Be Missed

AOR = Analyses of Record.

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

CR = change request.

DOE = U.S. Department of Energy.

Ecology = Washington State Department of Ecology.

RCRA = Resource Conservation and Recovery Act.

SST = single-shell tank.

TPA = Tri-Party Agreement.

WMA-C = Waste Management Area C.

## System Plan

**M-062-40C, Select a minimum of three scenarios that will be analyzed in the system plan,** Due: December 15, 2013, Status: Completed on December 12, 2013. See discussion under "Significant Past Accomplishments."

**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.

**Current:**

- 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, 2013.

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

Ecology will continue to further define the five selected scenarios distinguishing assumptions.

- 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: September 30, 2014, Status: At risk.** 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: September 30, 2014, Status: At risk.** 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:**

None.

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

None.

**Issues:**

ORP will need to discuss impacts to the above at-risk milestones and other TPA work scope priorities with Ecology per TPA paragraphs 148/149 due to funding constraints.

## 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: On schedule.**

**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:

None.

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

None.

### Issues:

ORP and Ecology are in discussions on the requirement for the one-time supplemental treatment technologies report (M-062-40ZZ) and the requirements for negotiation of supplemental treatment milestones (M-062-45, item #3).

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

**242-A Campaign Strategy:**

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 June 2014. Requires two passes to achieve waste volume reduction.
FY 2014	14-01	AW-106	AP-107	Estimated start late July 2014.
FY 2015	14-02	AZ-102	AP-103	Estimated start October 2014.
FY 2015	15-01	AW-106	AP-103	Estimated start November 2014.
FY 2015	15-02	AZ-102	AP-103	Estimated start March 2015.

FY = fiscal year.

NA = not applicable.

## 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:**  
RPP-RPT-54910, Hanford SST Leak Causes and Locations – 241-SX Tank Farm, was released January 7, 2014. This is the sixth report for SST leak cause and location in support of M-045-91F-T04.

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

Sidewall coring field work on Tank 241-A-106 was suspended for the winter, with caisson installation completed. Preparations for coring will resume in the spring.

**Issues:**

None.

**In Tank Characterization and Summary**

For the period from February 1 through February 28, 2014:

**Accomplishments:**

- Completed RPP-RPT-44630, *Derivation of Best-Basis Inventory for Tank 241-AY-102 as of January 1, 2014*, Rev 7.
- Completed RPP-RPT-43979, *Derivation of Best-Basis Inventory for Tank 241-AY-101 as of January 1, 2014*, Rev 14.
- Completed RPP-RPT-44637, *Derivation of Best Basis Inventory for Tank 241-AZ-101 as of January 1, 2014*, Rev 8.
- Completed RPP-PLAN-54804, *Tank 241-AW-101 Grab Sampling and Analysis Plan*, Rev 1A.
- Completed RPP-PLAN-53893, *Fiscal Year 2013 Tank 241-AN-106 Grab Sampling and Analysis Plan*, Rev 0A.
- Completed RPP-PLAN-54233, *Tank 241-AN-101 Grab Sampling and Analysis Plan at 241-C-101 Midretrieval*, Rev 1A.
- Completed RPP-PLAN-53006, *Tank 241-AW-106 Grab Sampling and Analysis Plan in Support of Evaporator Campaign for Fiscal Year 2013*, Rev 2A
- Completed RPP-PLAN-51912, *Sampling and Analysis Plan for Tank 241-C-104 Heel Dissolution*, Rev 0A
- Completed RPP-PLAN-50985, *Tank 241-AN-101 Grab Sampling and Analysis Plan at the Midpoint of Tank 241-C-112 Retrieval*, Rev 0A
- Completed RPP-PLAN-51621, *2012 Tank 241-AN-102 Grab Sampling and Analysis Plan*, Rev 0A
- Completed RPP-PLAN-53639, *Grab Sampling and Analysis Plan for Tank 241-AN-102 Chemical Adjustment Sampling*, Rev 0A
- RPP-RPT-56808, Rev 0, *Final Report for Tank 241-AZ-102 Leak-Detection Pit Liquid Grab Samples, December 2013*, was released on February 18, 2014.
- RPP-RPT-56778, Rev 0, *Final Report for Tank 241-C-110 Residual Solid Samples in Support of Tank Closure*, was released on February 18, 2014.

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

- 241-AY-102A Leak Detection Pit (LDP) grab sampling is currently scheduled for March 2014 and approximately monthly thereafter. Actual sampling date will depend on the rate of the level rise in the pit.
- Tank 241-AN-106 post C-110/C-107 retrieval grab sampling for chemistry control is currently scheduled for March 2014.
- Tank 241-C-107 Drag Sampler sampling is currently scheduled for March 2014.
- Tank 241-AZ-102 grab sampling for evaporator campaign (14-02) is currently scheduled for April 2014.
- Tank 241-C-101 Off-Riser Sampling System closure sampling is currently scheduled for April 2014.
- Tank 241-AN-106 at 50% C-105 retrieval planned for May 2014.
- Tank 241-C-111 process control grab sampling during hard heel dissolution is currently scheduled to start in May 2014.
- Tank 241-AY-101 (chemistry control) grab sampling scheduled for June 2014.
- Tank 241-SY-102 core sampling for chemistry control and strategic planning to characterize plutonium oxide particle size which may be a criticality concern for WTP is currently scheduled for June/July 2014.
- Tank 241-AN-101 after C-111 and C-112 retrieval planned for August 2014.
- Tank 241-AW-106 (Evaporator campaign 14-03) planned for August 2014.
- Tank 241-AZ-102 (Evaporator campaign 15-01) planned for August.
- Tank 241-AN-106 at 100% C-105 retrieval planned for September 2014.

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

The following tanks have been identified for BBI updates in FY 2014 Quarter 2:

- |              |              |              |
|--------------|--------------|--------------|
| • 241-A-103  | • 241-BX-101 | • 241-BY-102 |
| • 241-A-106  | • 241-BX-103 | • 241-C-110  |
| • 241-AW-105 | • 241-BX-110 | • 241-C-112  |
| • 241-AN-101 | • 241-BY-101 | • 241-S-111  |
| • 241-AP-104 | • 241-U-111  | • 241-SX-106 |

***Data quality objectives:***

- A revision to the tank farms Chemistry Control Program Data Quality Objective is expected to be released in March 2014.

**Issues:**  
None.

## TANK OPERATIONS CONTRACT OVERVIEW

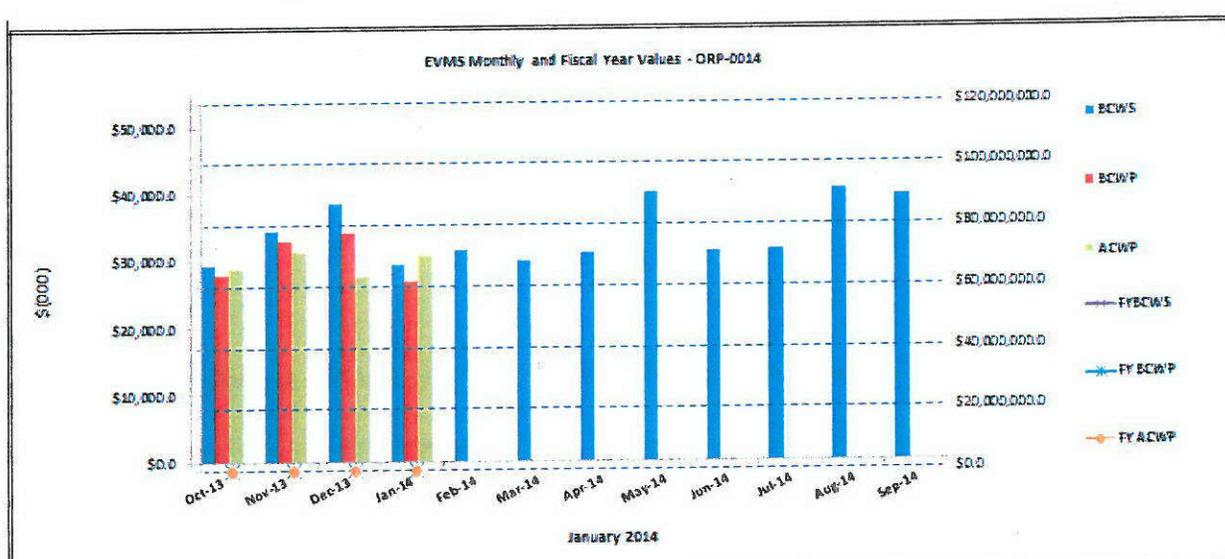
### Project Performance

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.

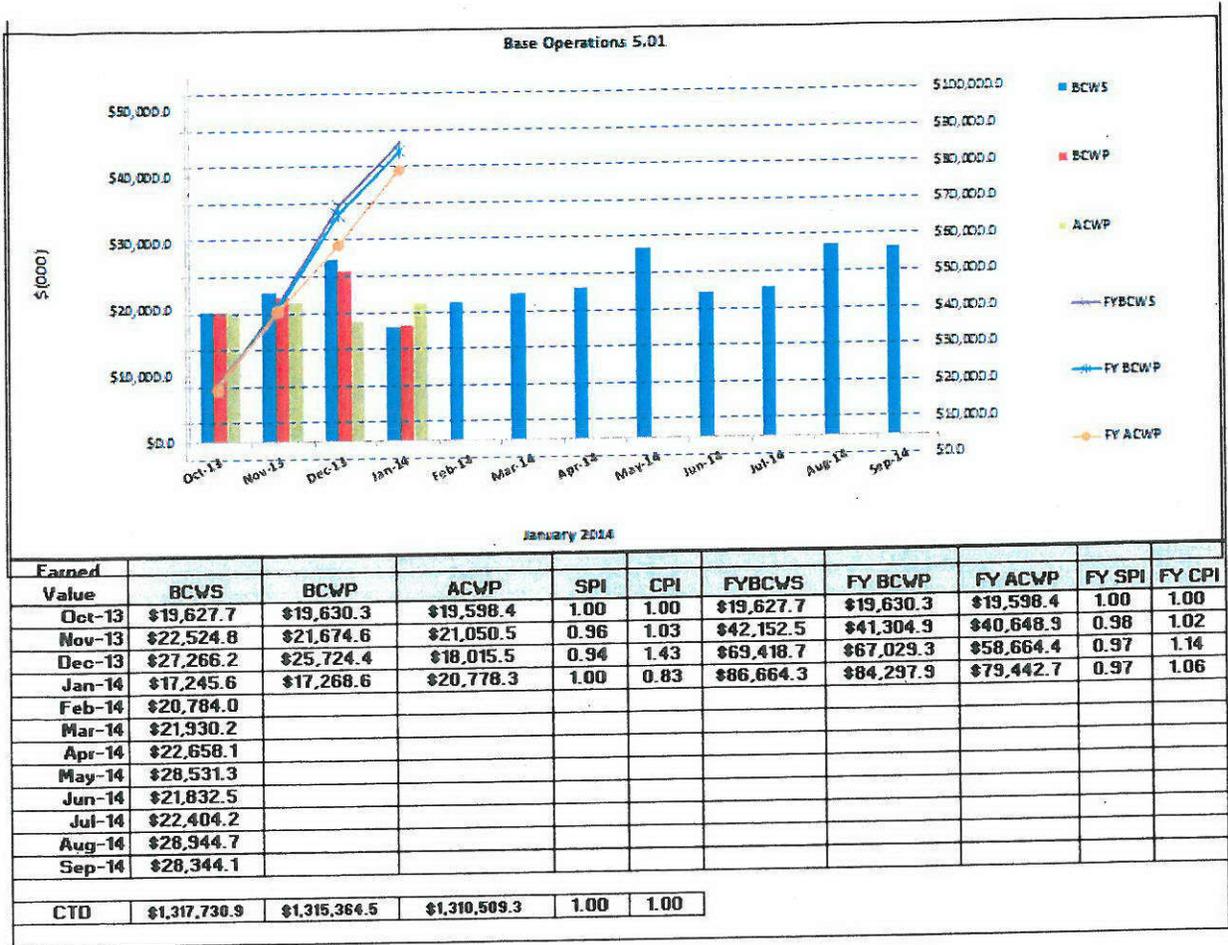
As of January 31, 2014, Washington River Protection Solutions LLC, the Tank Operations Contractor, has worked 39 days without a lost time workday injury and 18 days since the last recordable case. There was no Days Away, Restricted, Dart cases and one recordable case in the month of January.

	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC
CM	29,325.1	26,999.1	30,991.1	(2,326.0)	(3,992.0)	0.92	0.87			
FYTD	132,031.6	122,388.0	119,087.3	(9,643.6)	3,300.7	0.93	1.03			
CTD	2,023,775.4	2,014,131.8	2,010,831.1	(9,643.6)	3,300.7	1.00	1.00			

Red shaded cells indicates a SPI/CPI less than 90;  
 Green shaded cells indicate a SPI/CPI between .90 and .99 and  
 Blue shaded indicates a SPI/CPI greater than or equal to 1.0



Earned Value	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-13	\$29,474.1	\$27,945.9	\$29,014.6	0.95	0.96	\$29,474.1	\$27,945.9	\$29,014.6	0.95	0.96
Nov-13	\$34,534.6	\$33,081.0	\$31,448.0	0.96	1.05	\$64,008.7	\$61,026.9	\$60,462.6	0.95	1.01
Dec-13	\$38,697.7	\$34,362.0	\$27,633.6	0.89	1.24	\$102,706.4	\$95,388.9	\$88,096.2	0.93	1.08
Jan-14	\$29,325.1	\$26,999.1	\$30,991.1	0.92	0.87	\$132,031.5	\$122,388.0	\$119,087.3	0.93	1.03
Feb-14	\$31,514.2									
Mar-14	\$29,811.3									
Apr-14	\$31,014.5									
May-14	\$40,098.5									
Jun-14	\$31,363.1									
Jul-14	\$31,603.0									
Aug-14	\$40,615.9									
Sep-14	\$39,535.8									
CTD	\$2,023,775.4	\$2,014,131.8	\$2,010,831.1	1.00	1.00					

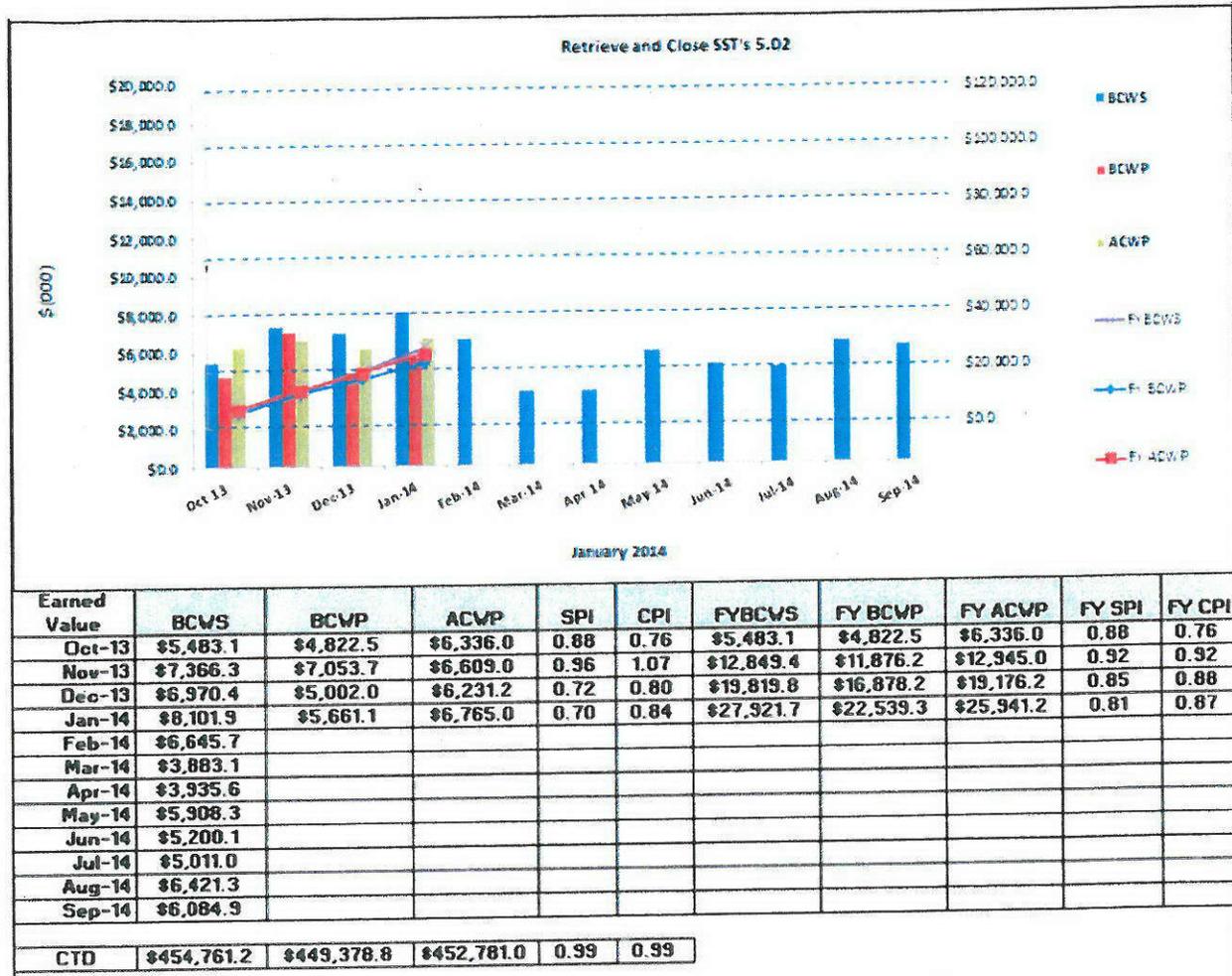


**Base Operations and Tank Farm Projects**

The current month favorable schedule variance (SV) of \$23K is within the reporting threshold.

The current month unfavorable cost variance (CV) of (\$3,509.7K) is primarily due to the following:

- A baseline change request was implemented in January removing the Employee Incentive Program budget from the Project Management Baseline. It was agreed the Employee Incentive Program cost are indirect and should not be part of the Project Management Baseline.



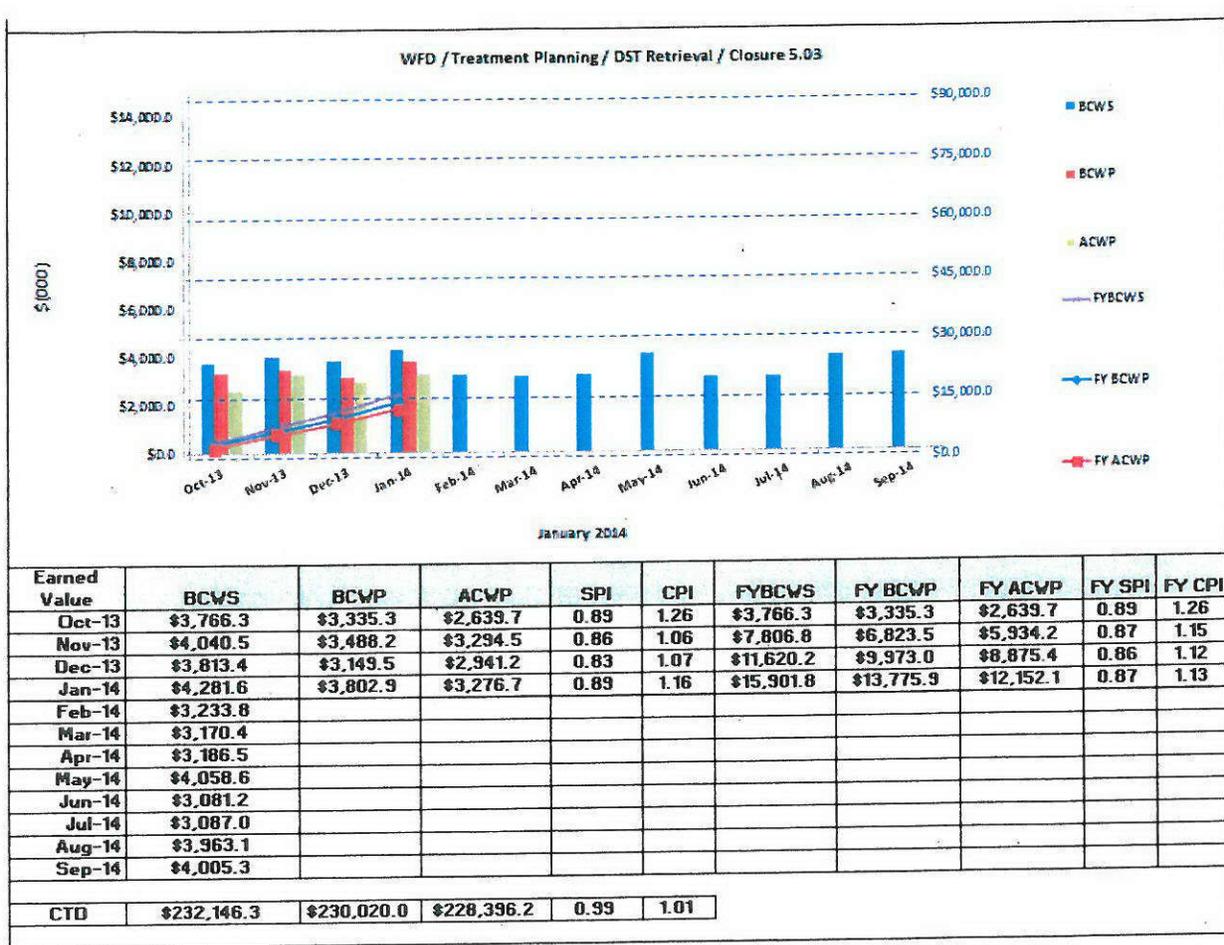
**Retrieval and Close Single-Shell Tanks**

The current month unfavorable schedule variance (SV) of **(\$2,441K)** is primarily due to:

- C-111 delays in electrical equipment installation and testing activities.
- Not initiating a third technology for C-101, a Request to Forego Implementing a Third Retrieval Technology in Tank C-101 has been submitted to Ecology.
- C-105 and C-107 delays due to technical and weather issues encountered during hose-in-hose transfer line leak testing.

The current month unfavorable cost variance (CV) of **(\$1,104K)** is primarily due to:

- C-107 additional costs for crane and rigging support required for installation and testing of the new slurry pump.
- C-105 additional costs for materials and engineering support required to complete design of the Automated Temperature Monitoring system.



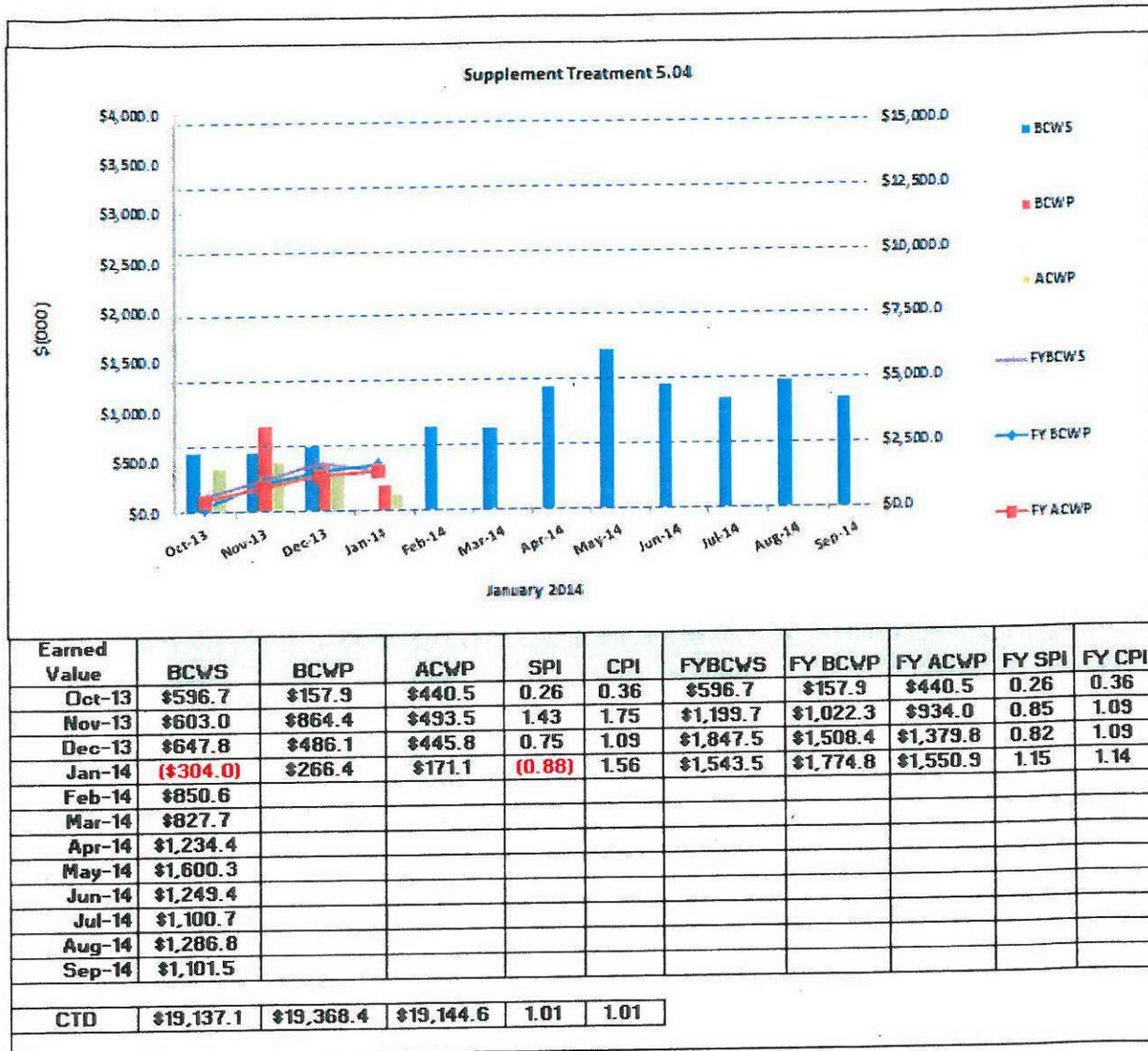
**Waste Feed Delivery/Treatment/Double-Shell Tank Retrieval Closure**

The current month unfavorable schedule variance (SV) of **(\$478.7K)** is due to:

- Continuing resolution placing a freeze on obtaining new labor resources causing a shortage.

The current month favorable cost variance (CV) of \$526.3K is due to:

- HLW Design review team was retained for a month longer than planned to be able to assist in the preparation and issuance of the final report.



**Supplemental Treatment**

The current month unfavorable schedule variance (SV) of (\$570.5K) is due to:

- Scope moved to undistributed budget which was placed on hold due to continuing resolution. The removal of past BCWS and January BCWS caused a large point adjustment in January.

The current month favorable cost variance (CV) of \$95.3K is within the reporting threshold.

## Work Breakdown Structure 5.2 Retrieve and Close Single-Shell Tanks

**M-045-22, Review M-045-22-T03 Report and Determine Path Forward**, Due: September 30, 2014, based on M-045-20 TPA Change Package M-45-12-05, Status: 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: On schedule.

**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 continues.
- Collection of resistivity data near the C-200 tanks has been completed. Analysis of the data was completed and a report issued. This work was completed per the WMA-C Phase 2 Resource Conservation and Recovery Act Facility Investigation (RFI)/Corrective Measures Study Work Plan, and will be incorporated into the RFI.
- 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 continues under the M-045-20 work plan and M-045-21 sampling and analysis plan.
- Documentation of the WMA-C Phase 2 Resource Conservation and Recovery Act Field Investigation Report continues.

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

- Complete direct-push field work in TX Farm under the M-045-20 work plan.
- Complete analysis and reporting of electrical resistivity data collected near the C-200 tanks
- Continue documentation of the WMA-C Phase 2 Resource Conservation and Recovery Act Facility Investigation Report.
- Complete the SX Farm pore water extraction proof of principle test under the M-045-20 work plan.

### **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 is due March 21, 2014. Completed on February 18, 2014 with letter 14-TF-0013.
- M-045-86F: Retrieval Data Report for C-108 is due May 1, 2014. Completed on November 27, 2013 with letter 13-TF-0120.
- M-045-86G: Retrieval Data Report for C-109 is 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 and C-109 to support the retrieval data reports.
- Held the kick-off meeting with regulators/stakeholders to discuss the activities underway for the WMA-C performance assessment. Numeric modeling for the performance assessment has begun.
- 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:**

- Develop the Retrieval Data Report for C-110.
- Continue numeric modeling for the WMA-C performance assessment
- See discussions above and related discussions in Consent Decree report.

**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	Retrieval Technology	Second Technology	Third Technology
C-101	RPP-22520, Rev. 7	Complete	Modified Sluicing with ERSS	High-Pressure Water with ERSS	-
C-102	RPP-22393, Rev. 6A	In Process	Modified Sluicing with ERSS	High-Pressure Water with ERSS	-
C-104	RPP-22393, Rev. 6A	Complete	Modified Sluicing	Chemical Dissolution, retrieval complete per 13-TF-0018	-
C-105	RPP-22520, Rev. 7	Complete	MARS-V	MARS-V-High Pressure Water	-
C-107	RPP-22393, Rev. 6A	Complete	MARS-S	MARS-S -High Pressure Water	-
C-108	RPP-22393, Rev. 6A	Complete	Modified Sluicing	Chemical Dissolution, retrieval complete per 13-TF-0025	-
C-109	RPP-21895, Rev. 5	Complete	Modified Sluicing	Chemical Dissolution, retrieval complete per 13-TF-0037	-
C-110	RPP-33116, Rev. 2	In process	Modified Sluicing	Mechanical Waste Conditioning	High Pressure Water
C-111	RPP-37739, Rev. 1	Complete	Modified Sluicing	High pressure water with ERSS	Chemical Dissolution with ERSS
C-112	RPP-22393, Rev. 6A	Complete	Modified Sluicing	Chemical Dissolution	-

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

#### Significant Accomplishments:

None.

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

Modify Tank Waste Retrieval Work Plan RPP-22520 with revised supernate concentrations for groundwater risk estimates associated with C-105 retrieval.

#### 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  
March 2014

## Office of River Protection

Consent Decree 08-5085-FVS  
Monthly Summary Report

March 2014 (Monthly Summary Report/Project Earned Value Management System reflects January 2014 information)

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

Milestone	Title	Due Date	Completion Date	Status
<b>Fiscal Year 2013</b>				
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
<b>Fiscal Year 2014</b>				
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
<b>Fiscal Year 2015</b>				
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.  
 Fac. = facility.  
 HLW = high-level waste.  
 LAB = Analytical Laboratory.  
 LAW = low-activity waste.  
 PT = pretreatment.  
 SST = single-shell tank.  
 WMA-C = C-Farm Waste Management Area.

\*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

**D-00B-01, Complete Retrieval of Tank Wastes from 10 Remaining Single-Shell Tanks (SST) in C-Farm Waste Management Area (WMA-C), Due: September 30, 2014, Status: Ongoing.\* Please see issues.**

**D-00B-01A thru J, Submit Tank Retrieval Complete Certification, Due: To be determined,** pursuant to Section IV-B-5 of the Consent Decree, U.S. Department of Energy (DOE) must submit to the Washington State Department of Ecology (Ecology) a written certification that DOE has completed retrieval of a tank in accordance with the requirements of Appendix C, Part 1, of the Consent Decree. Completed for SST C-104 on March 21, 2013, via DOE Office of River Protection (ORP) letter 13-TF-0018. Completed for SST C-108 on May 1, 2013, via ORP letter 13-TF-0025. Completed for SST C-109 on June 4, 2013, via ORP letter 13-TF-0037. Completed for SST C-110 on January 29, 2014 via ORP letter 14-TF-0007.

**D-00B-02, Advise Ecology of the Nine SSTs from which Waste Will Be Retrieved by 2022, Due: September 30, 2014, Status: Completed on August 24, 2011.**

**D-00B-03, Initiate Startup of Retrieval in At Least five of nine SSTs in D-00B-02, Due: December 31, 2017, Status: On-going.**

**D-00B-04, Complete Retrieval of Tank Wastes from the nine SSTs in D-00B-02, Due: September 30, 2022, Status: On-going.**

**D-00B-04A thru D-00B-04I, Submit Tank Retrieval Complete Certification, Due: To be determined.**

### Significant Past Accomplishments:

- Continued installation and testing of equipment for the Mobile Arm Retrieval System-Vacuum (MARS-V) at C-105. All major equipment has been installed, continued Construction Acceptance Testing (CAT) of the installed system.
- Restarted the C-107 Mobile Arm Retrieval System, utilizing high pressure water operations for hard heel removal.
- Completed retrieval of C-112 through the second technology; remaining waste volume estimates are being calculated.
- Continued construction activities for installation of equipment for hard heel removal system at C-111, continued with CAT testing.
- On February 18, 2014, submitted a Request to Forego Implementing a Third Retrieval Technology in Tank C-101

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

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

**Issues:**

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

**Tank Waste Retrieval Work Plan Status**

Tank	TWRWP	Expected Revisions	Retrieval Technology	Second Technology	Third Technology
C-101	RPP-22520, Rev. 7	Complete	Modified Sluicing with ERSS	High-Pressure Water with ERSS	-
C-102	RPP-22393, Rev. 6A	In Process	Modified Sluicing with ERSS	High-Pressure Water with ERSS	-
C-104	RPP-22393, Rev. 6A	Complete	Modified Sluicing	Chemical Dissolution, retrieval complete per 13-TF-0018	-
C-105	RPP-22520, Rev. 7	Complete	MARS-V	MARS-V-High Pressure Water	-
C-107	RPP-22393, Rev. 6A	Complete	MARS-S	MARS-S -High Pressure Water	-
C-108	RPP-22393, Rev. 6A	Complete	Modified Sluicing	Chemical Dissolution, retrieval complete per 13-TF-0025	-
C-109	RPP-21895, Rev. 5	Complete	Modified Sluicing	Chemical Dissolution, retrieval complete per 13-TF-0037	-
C-110	RPP-33116, Rev. 2	In process	Modified Sluicing	Mechanical Waste Conditioning	High Pressure Water
C-111	RPP-37739, Rev. 1	Complete	Modified Sluicing	High pressure water with ERSS	Chemical Dissolution with ERSS
C-112	RPP-22393, Rev. 6A	Complete	Modified Sluicing	Chemical Dissolution	-

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

**Significant Accomplishments:**

None.

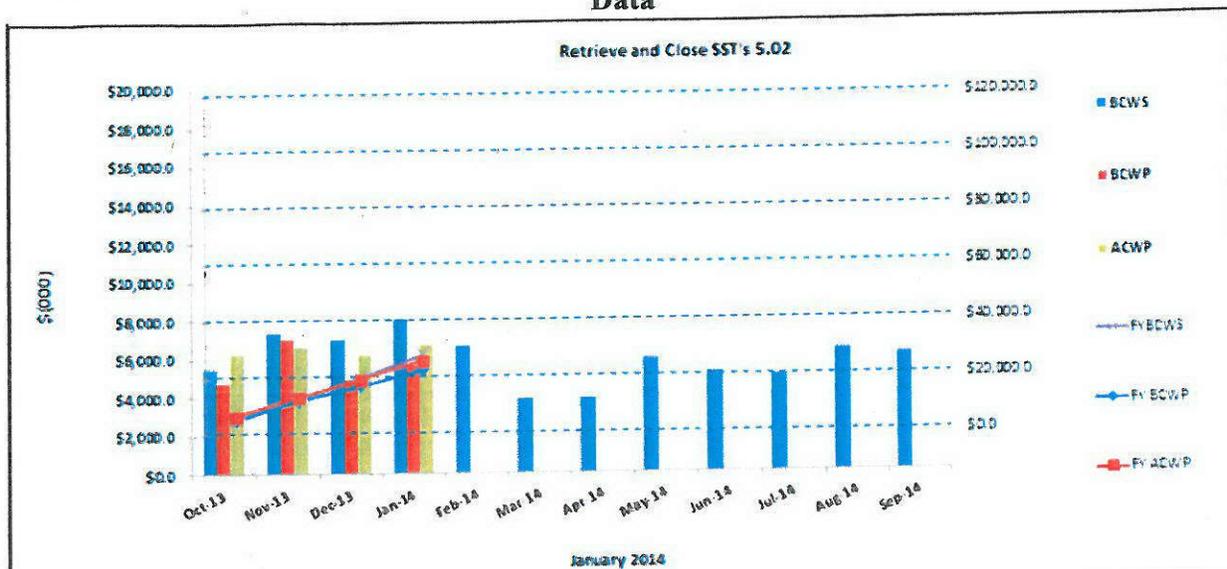
**Significant Planned Activities in the Next 6 Months:**

Modify TWRWP RPP-22520 with revised supernate concentrations for groundwater risk estimates associated with C-105 retrieval.

**Issues:**

None.

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



Earned Value	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-13	\$5,483.1	\$4,822.5	\$6,336.0	0.88	0.76	\$5,483.1	\$4,822.5	\$6,336.0	0.88	0.76
Nov-13	\$7,366.3	\$7,053.7	\$6,609.0	0.96	1.07	\$12,849.4	\$11,876.2	\$12,945.0	0.92	0.92
Dec-13	\$6,970.4	\$5,002.0	\$6,231.2	0.72	0.80	\$19,819.8	\$16,878.2	\$19,176.2	0.85	0.88
Jan-14	\$8,101.9	\$5,661.1	\$6,765.0	0.70	0.84	\$27,921.7	\$22,539.3	\$25,941.2	0.81	0.87
Feb-14	\$6,645.7									
Mar-14	\$3,883.1									
Apr-14	\$3,935.6									
May-14	\$5,908.3									
Jun-14	\$5,200.1									
Jul-14	\$5,011.0									
Aug-14	\$6,421.3									
Sep-14	\$6,084.9									

CTD	\$454,761.2	\$449,378.8	\$452,781.0	0.99	0.99
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#### Retrieval and Close Single-Shell Tanks

The current month unfavorable schedule variance (SV) of **(\$2,441K)** is primarily due to:

- C-111 delays in electrical equipment installation and testing activities.
- Not initiating a third technology for C-101, a Request to Forego Implementing a Third Retrieval Technology in Tank C-101 has been submitted to Ecology.
- C-105 and C-107 delays due to technical and weather issues encountered during hose-in-hose transfer line leak testing.

The current month unfavorable cost variance (CV) of **(\$1,104K)** is primarily due to:

- C-107 additional costs for crane and rigging support required for installation and testing of the new slurry pump.
- C-105 additional costs for materials and engineering support required to complete design of the Automated Temperature Monitoring system.

## 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*

The Waste Treatment and Immobilization Plant (WTP) Project currently employs approximately 2,120 full-time equivalent contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel. This includes 619 craft, 403 nonmanual, and 165 subcontractor full-time equivalent personnel working at the WTP construction site (all facilities).

As of January 2014, the combined Low-Activity Waste (LAW) Facility, Analytical Laboratory (LAB), and Balance of Facilities (BOF) (collectively LBL) were 66-percent complete, design and engineering was 81-percent complete, procurement was 84-percent complete, construction was 76-percent complete, and startup and commissioning was 12-percent complete.

In September 2012, the baseline change proposal that implemented the LAW, LAB, and BOF 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 January 2014, the cumulative to-date WTP Project schedule variance was a negative \$70.3 million, and the cumulative to-date WTP Project cost variance was a negative \$13.7 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 status of project matters through the end of January.

### Significant Past Accomplishments:

- ORP initiated discussions with BNI for PT resumption planning (PT)
- Completed development of BNI Transition Plan and Schedule in support of limited authorization for engineering activities (HLW)
- Completed hydrostatic testing of 3,270 linear feet of piping (LAW)
- Installed 1,050 linear feet of electrical conduit and pulled 13,790 linear feet of cable (LAW)
- Installed 13 branch connections for underground pipe systems (BOF)

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

- DOE approved “Limited Production Engineering” activities (HLW)
- Develop HLW-specific safety design strategy (HLW)
- Complete installation of autosampling system (LAW)
- Complete construction of the Glass Former Storage Facility (BOF)
- Complete repairs, retest, and recertify RLD vessels (LAB).

**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 relevant to the PT and HLW Facilities include, among others, PJMs, corrosion/erosion in piping and vessels, hydrogen accumulation, and waste feed issues.

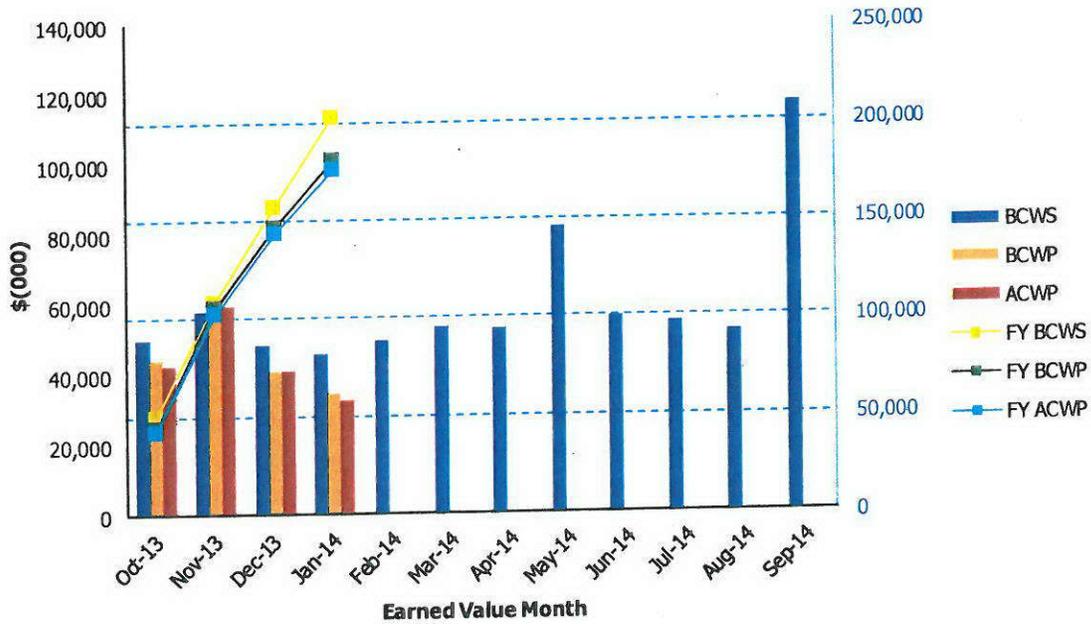
**EXC-01a: Fiscal Year Cost and Schedule Report**

Data Set: FY 2014 Earned Value Data

Data as of: January 2014

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

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2013	\$49,959	\$43,981	\$42,448	0.88	1.04	\$49,959	\$43,981	\$42,448	0.88	1.04
Nov 2013	\$58,047	\$61,276	\$59,935	1.06	1.02	\$108,006	\$105,257	\$102,383	0.97	1.03
Dec 2013	\$48,739	\$41,149	\$40,881	0.84	1.01	\$156,745	\$146,406	\$143,264	0.93	1.02
Jan 2014	\$45,633	\$34,448	\$32,185	0.75	1.07	\$202,378	\$180,854	\$175,449	0.89	1.03
Feb 2014	\$49,428									
Mar 2014	\$53,046									
Apr 2014	\$52,930									
May 2014	\$81,726									
Jun 2014	\$56,083									
Jul 2014	\$54,292									
Aug 2014	\$51,488									
Sep 2014	\$116,961									
PTD	\$7,992,590	\$7,922,329	\$7,936,059	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 technical issues. Construction of the mixing test platform continues in preparation for full-scale testing. Engineering specifications for full-scale testing have been prepared and are undergoing a multidiscipline review. National laboratories have provided test plans, simulant recommendations, and instrumentation requirements. BNI has developed a probabilistic risk assessment (PRA) plan and project execution plan to resolve technical issues regarding criticality, hydrogen in vessels, and HPAV. The plans were reviewed by DOE and concluded to limit the use of PRA to HPAV only.

### Significant Past Accomplishments:

- ORP initiated discussions with BNI for PT resumption planning
- Continued construction at Full-Scale Test Facility with electrical connection of compressors
- Continued jet impingement testing for erosion
- Completed review of BNI PRA plan; ORP approved use of PRA for resolution of HPAV issues only.

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

- Issue sampling action plan to determine sampling accuracy
- Award sensitivity tests for erosion and start slurry pot testing for erosion
- 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

- Define standardized vessel selection criteria in support of vessel mixing resolution
- Receive BNI plan for resolution of criticality and hydrogen generation in vessels.

**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 relevant to the PT and HLW Facilities include, among others, PJMs, corrosion/erosion in piping and vessels, hydrogen accumulation, and waste feed specification.

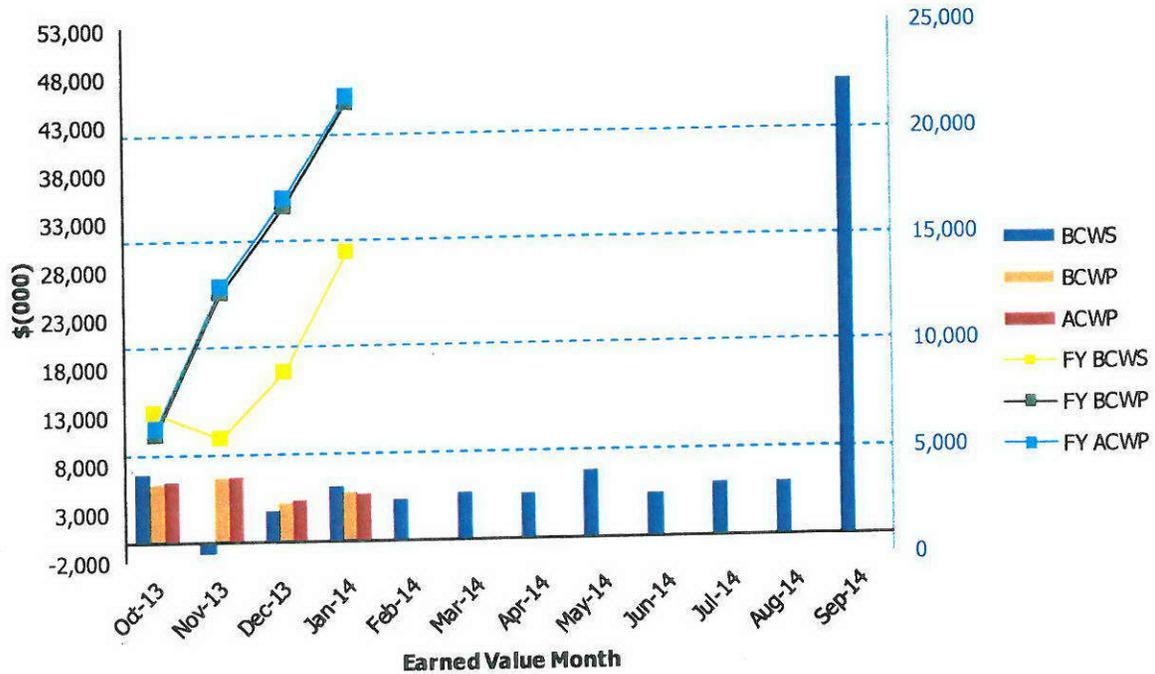
### EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2014 Earned Value Data

Data as of: January 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	\$4,113									
Mar 2014	\$4,695									
Apr 2014	\$4,526									
May 2014	\$6,845									
Jun 2014	\$4,421									
Jul 2014	\$5,437									
Aug 2014	\$5,459									
Sep 2014	\$46,949									

PTD \$1,541,756 \$1,531,423 \$1,529,477 0.99 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 *

The HLW Facility will receive the separated HLW concentrate from the PT Facility. This concentrate will be blended with glass formers and converted into molten glass in one of the two HLW melters and then poured into cylindrical stainless steel canisters. After cooling, the canisters 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 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-ft and 77-ft elevation, and installation of cable tray supports and ventilation ducts at the 14-ft elevation. Engineering efforts are focused on resolution of Priority Level 1 findings. The Environmental and Nuclear Safety Group is in the process of developing the safety design strategy as part of the initiative to resume design, procurement, and construction.

Technical review teams completed evaluation of open technical issues to support the resumption of HLW construction. The path forward to ramp up HLW engineering, procurement and construction is ongoing and includes three actions: Conduct engineering studies to resolve technical safety issues; perform risk assessment for the issues noted in Priority Level 1 findings, reliability validation process, project issues evaluation reporting, etc.; and perform assessment of BNI process improvement for the readiness to proceed. Currently, the conditional approval (Decision 1) of the authorization to proceed with engineering, procurement, and construction is awaiting completion of the Safety Design Strategy (SDS) for HLW. However, DOE approved "Limited Production Engineering" activities to facilitate completion of outstanding corrective actions and resolution of existing design issues.

**Significant Past Accomplishments:**

- DOE approved “Limited Production Engineering” activities
- Continue working on incorporation of transition plan into the baseline
- Continue supporting DOE System Review Teams and developing disposition for issues identified
- Issued engineering study on HOP vessel structural analysis

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

- Approve “Conditional Authorization” to proceed for engineering, procurement, and construction for HLW
- Develop HLW-specific safety design strategy
- Develop plan to close technical issues and other issues (e.g., safety basis compliance, quality assurance issues, and design defensibility) of HLW
- Complete draft analysis of single-point failures in support of failure mode analysis
- Perform HEPA filter qualification testing at Mississippi State University.

**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 relevant to the PT and HLW Facilities include, among others, PJMs, corrosion/erosion in piping and vessels, hydrogen accumulation, and waste feed specification.

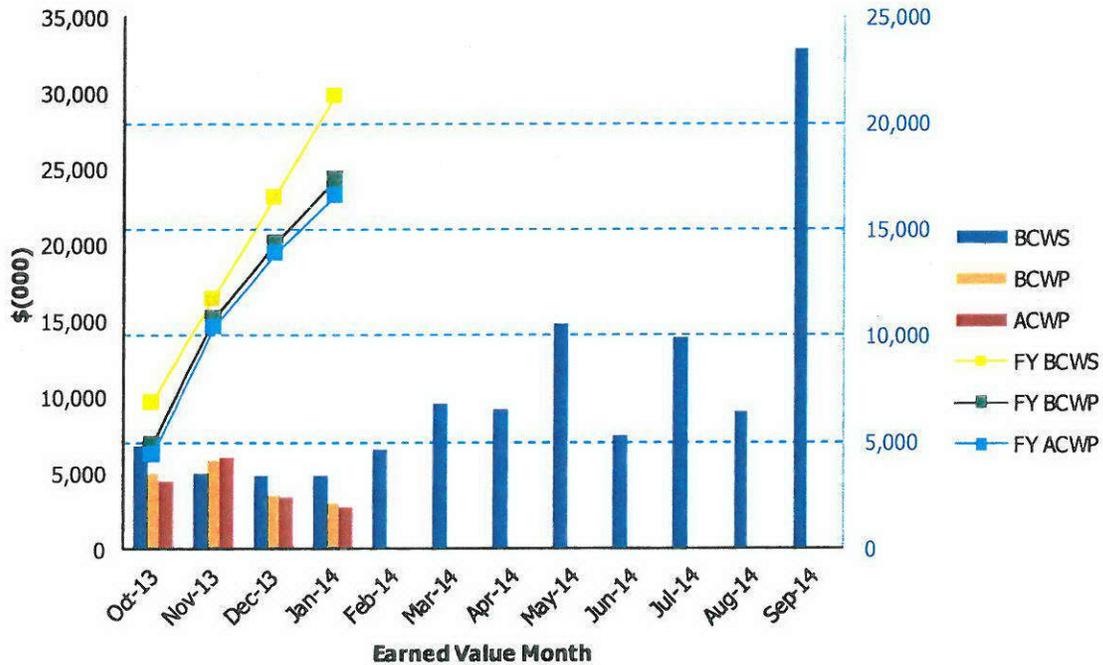
### EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2014 Earned Value Data

Data as of: January 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	\$6,472									
Mar 2014	\$9,502									
Apr 2014	\$9,106									
May 2014	\$14,818									
Jun 2014	\$7,379									
Jul 2014	\$13,796									
Aug 2014	\$9,052									
Sep 2014	\$32,827									

PTD \$1,008,101 \$1,006,493 \$999,495 1.00 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*

The LAW Facility will process LAW that will be mixed with glass formers, vitrified into glass at a design capacity of 30 metric tons per day, and placed in stainless steel containers that are anticipated to be disposed of on the Hanford Site in the Integrated Disposal Facility. As of January 2014, the LAW Facility was 67-percent complete overall, with engineering design 81-percent complete, procurement 87-percent complete, construction 71-percent complete, and startup and commissioning 6-percent complete.

### Significant Past Accomplishments:

- Commenced design/operability review
- Continual installation of melter offgas piping on +48' elevation
- Continual installation of melter refractory
- Installed 2,800 linear feet of pipe insulation at the -21' elevation
- Completed hydrostatic testing of 3,270 linear feet of piping
- Installed 1,050 linear feet of electrical conduit and pulled 13,790 linear feet of cable

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

- Complete installation of autosampling system
- Continue refractory brick installation in the melters
- Complete hazard analysis for the melter and melter off-gas.

### 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.

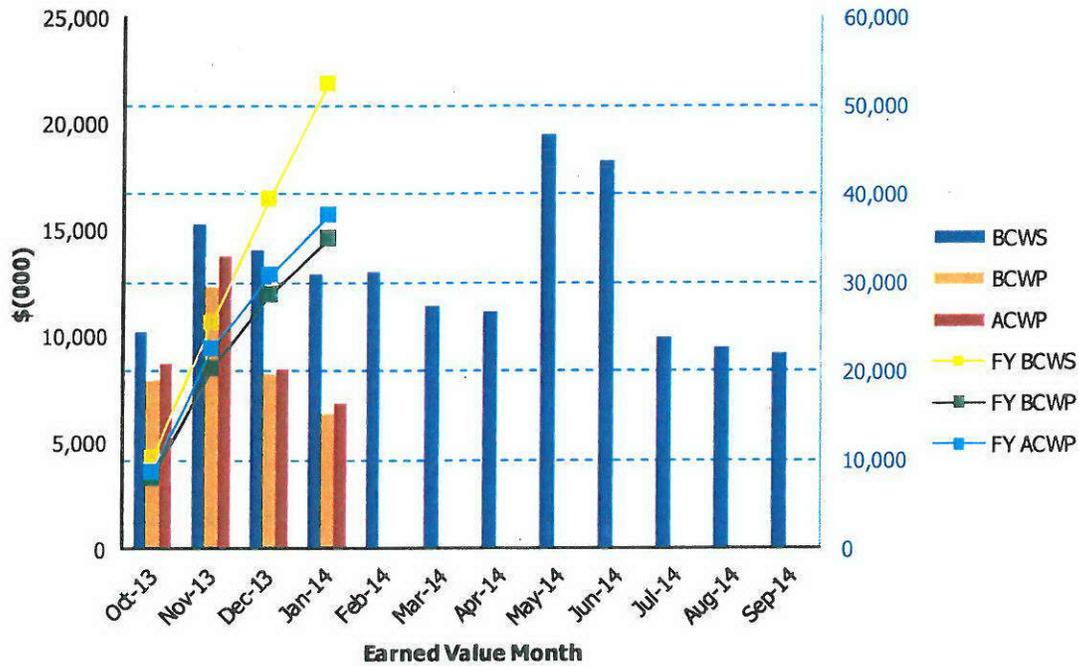
### EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2014 Earned Value Data

Data as of: January 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	\$12,976									
Mar 2014	\$11,388									
Apr 2014	\$11,129									
May 2014	\$19,428									
Jun 2014	\$18,226									
Jul 2014	\$9,943									
Aug 2014	\$9,406									
Sep 2014	\$9,120									
PTD	\$856,817	\$824,377	\$880,873	0.96	0.94					

## 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 January 2014, BOF was 60-percent complete overall, with engineering design 82-percent complete, procurement 71-percent complete, construction 79-percent complete, and startup and commissioning 13-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, construction of the Standby Diesel Generator (SDG) Facility, and turnover of the nonradioactive liquid waste disposal system from construction to startup. The foundation for the SDG facility has been placed and backfill activities are in progress.

### Significant Past Accomplishments:

- Installed 13 branch connections for underground pipe systems
- Continued meter and relay testing/calibration in BOF Switchgear Building #91
- Prepped instrument air system for pressure test after installation of flex hoses

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

- Complete construction of the Glass Former Storage Facility
- Turnover the nonradioactive liquid waste disposal system from construction to startup
- 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.

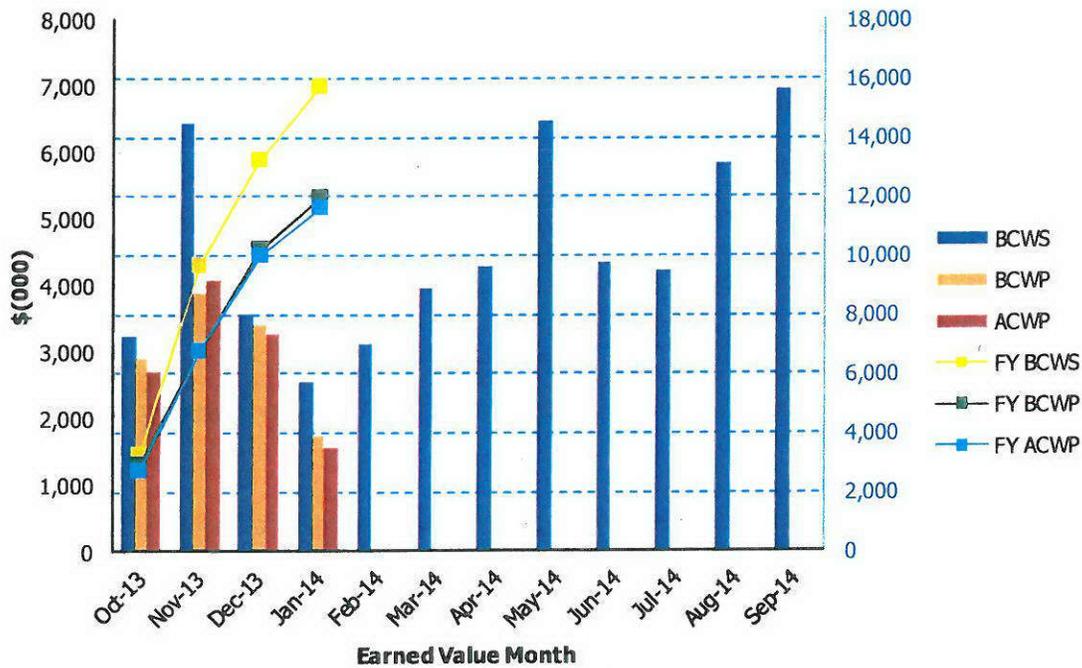
### EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2014 Earned Value Data

Data as of: January 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	\$3,119									
Mar 2014	\$3,957									
Apr 2014	\$4,277									
May 2014	\$6,468									
Jun 2014	\$4,329									
Jul 2014	\$4,212									
Aug 2014	\$5,827									
Sep 2014	\$6,945									
PTD	\$342,448	\$329,569	\$322,946	0.96	1.02					

## Analytical Laboratory

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

The LAB will support WTP operations by analyzing feed, vitrified waste, and effluent streams. As of January 2014, the LAB was 73-percent complete overall, with engineering design 80-percent complete, procurement 86-percent complete, construction 88-percent complete, and startup and commissioning 23-percent complete.

Engineering efforts are focused on supporting RLD vessel repairs and finalizing the electrical engineering portions of the LAB design. Construction efforts are focused on installation of instrument tubing and electrical commodities to support the completion of LAB construction.

### Significant Past Accomplishments:

- Released the hold on the stack discharge tubing to allow installation of the instrument hangers to start
- Continued installation of penetration seals
- Installed 835 linear feet of instrument tubing, pulled 340 linear feet of cable and completed 700 terminations

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

- Complete fabrication of stack discharge monitoring panels
- Complete repairs to RLD vessel 164 and recertify RLD vessels

### Issues:

No major issues at this time.

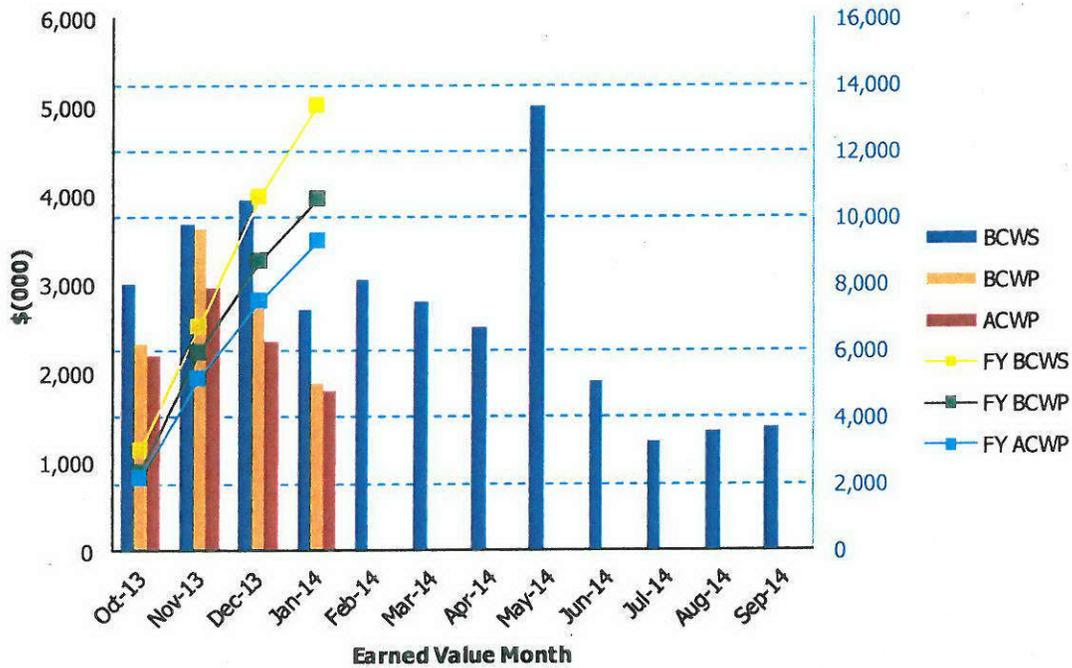
### EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2014 Earned Value Data

Data as of: January 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	\$3,051									
Mar 2014	\$2,802									
Apr 2014	\$2,501									
May 2014	\$4,999									
Jun 2014	\$1,894									
Jul 2014	\$1,234									
Aug 2014	\$1,351									
Sep 2014	\$1,381									
<b>PTD</b>	<b>\$250,384</b>	<b>\$243,665</b>	<b>\$261,797</b>	<b>0.97</b>	<b>0.93</b>					

Waste Treatment Plant Project - (LBL) Percent Complete Status Through January 2014															
(Dollars - Millions)	Overall Facility Percent Complete Unallocated Dollars			Design/Engineering Unallocated Dollars			Procurement Unallocated Dollars			Construction Unallocated Dollars			Startup & Plant Operations 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
Facilities															
Low-Activity Waste	1,225.0	824.4	67%	317.3	255.8	81%	263.1	228.4	87%	466.6	329.7	71%	177.9	10.5	6%
Analytical Lab	335.5	243.7	73%	72.6	58.4	80%	55.5	47.8	86%	138.5	121.4	88%	68.9	16.1	23%
Balance of Facilities	548.6	329.6	60%	95.0	77.5	82%	74.5	53.2	71%	224.0	177.9	79%	155.1	20.9	13%
Total LBL	2,109.1	1,397.6	66%	485.0	391.8	81%	393.1	329.3	84%	829.1	629.0	76%	401.9	47.5	12%
<b>PT/HLW/SS Percent Complete Status Frozen as of September 2012 (due to project rebaselining efforts)</b>															
High-Level Waste	1,478.6	922.1	62%	384.4	325.2	89%	433.9	349.4	81%	561.1	243.2	43%	119.2	4.4	4%
Pretreatment	2,517.3	1,410.5	56%	761.7	645.8	85%	679.9	380.4	56%	890.0	378.6	43%	185.8	5.6	3%
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%
Total HLW/PT/SS	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%
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
Total WTP	10,831.9	7,362.8	68%	2,658.1	2,340.7	88%	1,958.6	1,454.1	74%	3,716.7	2,393.8	64%	1,160.4	190.7	16%

Source: Preliminary WTP Contract Performance Report - Format 1, Data for January 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 HLW/PT/SS BCWP values.

## WORKING ORP Key Documents List – March 2014

Milestone Title	Milestone Tie	Document	TPA Milestone Due Date (if applicable) <sup>1</sup>	ORP Delivery to Regulators Date <sup>2</sup>	Anticipated Regulatory Review Completion Date <sup>3</sup>	Final Completion Date <sup>4</sup>	DOE-ORP Lead	Contractor Lead	Ecology Lead	Comments/Issues
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			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				D. Hildebrand	S. Eberlein	J. Lyon	
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.
Submit Retrieval Data Report (RDRs) after WMA C SST Retrieval Completion Certifications	M-045-86	RDR for SST C-104, embedded TPA milestone M-045-86C	03/21/14	02/18/14			C. Kemp	S. Eberlein	J. Lyon	• CD Retrieval Completion Certification for SST C-104 sent to ECY on 03/21/13 via ORP Letter 13-TF-0018. • Sent to ECY on 02/18/14 via ORP Letter 14-TF-0013.
		RDR for SST C-109, embedded TPA milestone M-045-86G	06/04/14	03/13/14			C. Kemp	S. Eberlein	J. Lyon	• CD Retrieval Completion Certification for SST C-109 sent to ECY on 03/21/13 via ORP Letter 13-TF-0037. • Sent to ECY on 03/13/14 via ORP Letter 14-TF-0020.
		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			J. Johnson	R. Gregory	J. Lyon	
	M-045-91F-T04	Provide Report on 100-Series SSTs as having Leaked in RPP-32681	12/26/14	12/26/14			J. Johnson	R. Gregory	J. Lyon	
	M-045-91G-T04	Provide AOR Final Doc. for SSTs on 55,000 Gallon Tanks	01/30/15	01/30/15			J. Johnson	R. Gregory	J. Lyon	
	M-045-91B-T01	Provide Ecology report on the Concrete Core from TankA-106 or alt	01/31/15	01/31/15			J. Johnson	R. Gregory	J. Lyon	
	M-045-91F-T02	Provide Report of Liner Failures for SSTs	03/31/15	03/31/15			J. Johnson	R. Gregory	J. Lyon	
	M-045-91F	Provide Summary Conclusions Report on Leak Integrity	06/30/15	06/30/15			J. Johnson	R. Gregory	J. Lyon	
	M-045-91G	Provide Summary Conclusions Report of AOR for SSTs	07/28/15	07/28/15			J. Johnson	R. Gregory	J. Lyon	
	M-045-91H	Submit Change Pckg (if necessary) to est. Additional Milestones	07/31/15	07/31/15			J. Johnson	R. Gregory	J. Lyon	
M-045-91I	Provide IQRPE Certification of SSTs Structural Integrity	09/30/18	09/30/18			J. Johnson	R. Gregory	J. Lyon		

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

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

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

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

**Red** = DOE submittal within the next 90 days    **Green** = document is under initial ECY Regulatory Review    **Black** = document under comment/review response or other actions    **Blue** = document is completed

## WORKING ORP Key Documents List – March 2014

Milestone Title	Milestone Tie	Document	TPA Milestone Due Date (if applicable) <sup>1</sup>	ORP Delivery to Regulators Date <sup>2</sup>	Anticipated Regulatory Review Completion Date <sup>3</sup>	Final Completion Date <sup>4</sup>	DOE-ORP Lead	Contractor Lead	Ecology Lead	Comments/Issues
Waste Supplemental Treatment Report	M-062-40ZZ	Submit One Time Tank Waste Supplemental Treatment Tech. Report	10/31/14	10/31/14			S. Pfaff	C. Burrows	D. McDonald	• At the January 2013 TPA PMM meeting, ORP stated DOE and ECY are currently in discussions for M-062-40ZZ and M-062-45ZZ
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	

Topic Areas	Document	ORP Delivery to Regulators Date <sup>1</sup>	Anticipated Regulatory Review Completion Date <sup>2</sup>	Final Completion Date <sup>3</sup>	DOE-ORP Lead	Contractor Lead	Regulator Lead	Comments/Issues
<b>PERMIT DOCUMENTS</b>	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	
<b>OTHER DOCUMENTS</b>	IDF Performance Assessment (ORP/WRPS has support role to RL/CHPRC)	TBD			T. Fletcher		J. Lyon	
	Submit Categorical TOC HIA	TBD					J. Lyon	
	Temporary Waste Transfer Line Management Program Plan (also known as Hose-In-Hose Transfer Lines (HIHTL) Management Plan), RPP-12711	TBD			J. Vanderpol		J. Lyon	• 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 catch-up reports to Ecology SST counterparts (FY12 thru Q1 FY13)

<sup>1</sup> Note: "ORP Delivery to Regulators Dates" are those dates that support future milestones, are submittal dates for permitting activities, or miscellaneous submittals that support ORP actions and represent the dates when ORP submits documents to the regulators.

<sup>2</sup> Note: The "Anticipated Regulatory Review Completion Date" is generated based on TPA Milestone Agreements and TPA Section 9.0 documentation requirements for primary documents. This date will be changed and noted in "Comments/Issues" if extension of review is requested. If the document is a secondary document or for information only, the "Anticipated Regulatory Review Completion Date" may be listed as "N/A" for not applicable.

<sup>3</sup> Note: "Final Completion Date" is entered after the document is reviewed, comments are incorporated, and any disputes are resolved. Any comment resolution issues or disputes will be noted under "Comments/Issues."

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