

ORP Project Managers Meeting
 April 16, 2015
 2440 Stevens Center
 Richland, Washington
 Meeting Minutes Transmittal

Distribution:

| | | |
|-------------------|-----------|-------|
| W. Abdul | ORP | H6-60 |
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| J. M. Bruggeman* | ORP | H6-60 |
| K. W. Burnett* | ORP | H6-60 |
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| J. A. Diediker* | ORP | H6-60 |
| J. A. Dowell | ORP | H6-60 |
| S. H. Pfaff | ORP | H6-60 |
| J. F. Grindstaff | ORP | H6-60 |
| C. C. Harrington | ORP | H6-60 |
| P. R. Hernandez* | OPR | H6-60 |
| D. R. Hildebrand | RL | A6-38 |
| F. B. Hidden | ORP | H6-60 |
| B. J. Harp | ORP | H6-60 |
| K. L. Higgins | ORP | H6-60 |
| L. A. Huffman | ORP | H6-60 |
| J. M. Johnson* | ORP | H6-60 |
| C. J. Kemp | ORP | H6-60 |
| K. Kidder* | USACE/ORP | H6-60 |
| D. P. Knight* | ORP | H6-60 |
| J. J. Lynch* | ORP | H6-60 |
| B. M. Mauss | ORP | H6-60 |
| E. M. Mattlin* | ORP | H6-60 |
| D. L. Noyes | ORP | H6-60 |
| S. H. Pfaff* | ORP | H6-60 |
| J. J. Rambo | ORP | H6-60 |
| D. M. Smith* | ORP | H6-60 |
| S. C. Stubblebine | ORP | H6-60 |
| G. D. Trenchard* | ORP | H6-60 |
| B. R. Trimmerger* | ORP | H6-60 |
| R. J. Valle* | ORP | H6-60 |
| K. G. Wade | ORP | H6-60 |
| I. Wheeler | ORP | H6-60 |
| W. R. Wrzesinski* | ORP | H6-60 |
| J. D. Young* | ORP | H6-60 |
| | | |
| J. Alzheimer | Ecology | H0-57 |
| R. K. Biyani* | Ecology | H0-57 |
| C. Carlson* | Ecology | H0-57 |
| N. Chandron* | Ecology | H0-57 |
| T. Z. Gao | Ecology | H0-57 |
| M. Jones* | Ecology | H0-57 |

| | | |
|-----------------|---------|--------|
| J. J. Lyon | Ecology | H0-57 |
| J. D. McDonald* | Ecology | H0-57 |
| J. Price | Ecology | H0-57 |
| A. Tortoso* | Ecology | H0-57 |
| | | |
| T. Beam | WRPS | H3-26 |
| H. M. Bowers | WRPS | H6-14 |
| J. W. Donnelly | WRPS | H3-26 |
| J. A. Joyner | WRPS | H16-14 |
| J. J. Luke | WRPS | H6-14 |
| R. J. Skwarek | WRPS | H3-28 |
| | | |
| D. H. Butler | MSA | A3-01 |
| C. P. Noonan* | MSA | A3-01 |
| R. E. Piippo* | MSA | A3-01 |
| J. G. Woolard | MSA | A3-01 |

B. Cum*

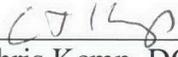
S. Cimon* ODOE

ADMINISTRATIVE RECORD – Heather Childers: H6-08

*Attendees

**ORP TPA Project Managers' Monthly (PMM) Meeting
April 16, 2015**

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



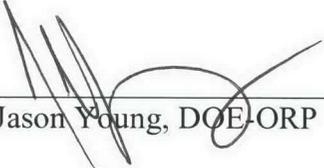
Chris Kemp, DOE-ORP

Date: 6-15-15



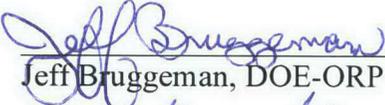
Wahed Abdul, DOE-ORP

Date: 6/11/15



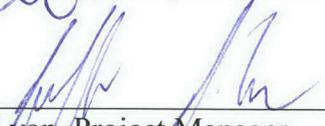
Jason Young, DOE-ORP

Date: 6/11/15



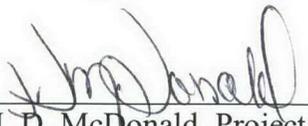
Jeff Bruggeman, DOE-ORP

Date: 6/11/15



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

Date: 6/17/15



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

Date: 6-18-15

1.0 Administrative Items/Milestone Status

Recent Items Entered/To Be Entered into the TPA Administrative Record

ORP provided the monthly Consent Decree report and the TPA monthly report, which will be submitted to the Administrative Record (AR). (See discussion below under milestone status.)

Milestone Status

ORP noted that the status of milestone M-062-45-T01 should be in dispute, and the correction will be made to the April 2015 TPA monthly report before it is submitted to the AR. ORP also noted that there were two change packages associated with milestones M-045-62 and M-045-92 that are not reflected in the April 2015 TPA monthly report since they occurred two days ago. The change package for M-045-62 was approved, and the change package for the M-045-92 series on barriers was disapproved by Ecology. The status of these two milestones will be reflected in next month's TPA monthly report.

2.0 Agreements, Issues, Actions

The tank farms actions were discussed and updated as follows:

Action No. 1 (TF-14-08-01) – ORP stated that a briefing is scheduled for April 20, 2015. This action remains open.

Action No. 2 (TF-14-08-01) – ORP noted that this action was closed last month, and the status was left on the action table for a month. This action will be removed.

Action No. 3 (TF-14-06-02) – This action is ongoing and remains open.

Action No. 4 (TF-14-02-02) – This action is ongoing and remains open.

Action No. 5 (TF-14-01-01) – ORP stated that a TPA change package is being routed through ORP and Ecology for signature, and then the signed change package and the updated hose-in-hose transfer line (HIHTL) management plan will be transmitted to Ecology with a closeout letter. ORP noted that the HIHTL management plan will become a primary document and the TPA process of change notices will be used to make revisions. This action remains open.

Action No. 6 (TF-13-12-01) – This action remains open.

Action No. 7 (TF-13-02-03) – This action remains open.

Action No. 8 (TF-15-03-01) – ORP stated that a meeting is scheduled with Ecology May 5, 2015, and the operational readiness will also be reviewed. This action remains open.

Action No. 9 (TF-15-03-02) – ORP stated that there is a lot of information that is available, and the intent of the meeting is to discuss the tank chemistry, blending, and tank sampling. ORP noted that it is focusing on the meeting with Ecology on April 20, 2015, and then a meeting will be scheduled to address this action. Ecology indicated that it would follow up internally in an effort to narrow down the information it is requesting for this action. ORP added that Ecology's request for information could be discussed during the meeting. This action remains open.

Action No. 10 (TF-15-03-03) – ORP stated that a meeting is scheduled April 20, 2015, and a briefing will be provided to Ecology. This action remains open.

Action No. 11 (TF-15-03-04) – ORP stated that a briefing was provided to Ecology earlier today (4/16/15). This action was closed.

Action No. 12 (TF-15-03-05) – ORP reported that the entire conceptual design package has been completed for the Low-Activity Waste Pretreatment System (LAWPS), and there are white papers associated with optimization of some of the conceptual designs. ORP stated that the information is designated official use only, and efforts are underway with the chief counsel to define a path forward for releasing the information. ORP stated that the information will be released to Ecology as soon as possible. This action remains open.

Action No. 13 (TF-15-03-06) – ORP reported that an internal meeting was held this week regarding the TPA Appendix I, Section 2.1.1 requirement, and it continues to move forward with this action. This action remains open.

3.0 Review of the ORP Summary

Tank Farms

System Plan – ORP stated that there were no updates for the System Plan. Ecology commented that some of the dates and aspects of retrieval were not supported in the crosswalk table.

Acquisition of New Facilities; M-90-00; M-47-00 – ORP stated that there was no change in status from last month. ORP noted that M-090-13 and M-047-07 are part of the discussions under M-062-45, and there may be changes to the milestones.

Supplemental Treatment and Part B Permit Applications; M-62-00, -20, -30, -45 – ORP noted that M-062-45-ZZ and M-062-45-ZZ-A are in dispute and are being discussed with Ecology. ORP stated that there are no changes to any of the remaining milestones.

242-A Evaporator Status – ORP reported that the ammonia monitor is being replaced, and the goal is that it will be operational next week so the EC-01 campaign can be re-initiated. ORP noted that four campaigns are still planned for this year, although the last campaign (EC-04) may not occur during FY15. ORP stated that more evaporator campaigns are planned for next year.

Double-Shell Tank System Update – ORP stated that the scheduled annulus inspections for the year were completed, and the engineering reviews are being finalized. ORP noted that there have been no major issues identified regarding the annulus inspections.

M-045-91 – SST Integrity Assurance – ORP reported that the M-045-91F summary report for leak integrity has been drafted and released by WRPS and will be ready to transmit to Ecology soon. ORP noted that Ecology was briefed two weeks ago on what the report will include. ORP stated that the M-045-91G structural analysis summary report is nearing completion, and Ecology has been briefed on the content of the report. ORP stated that based on discussions with Ecology and the two summary reports, it is proposing no additional milestones be established per M-045-91H. ORP noted that Ecology had suggested evaluating a few additional milestones to complete some of the outstanding single-shell tank leak assessment reports. Ecology stated that there has been some internal discussions concerning establishment of additional milestones, but a decision has not been made.

In-Tank Characterization and Summary – ORP stated that grab sampling for AP-101 and AP-105 is planned to support the 242-A Evaporator campaigns. ORP reported that preparation is underway to start core sampling within the next month in SY103.

Tank Operations Contract (TOC) Overview – ORP stated that base operations is reporting within threshold. ORP asked if Ecology was attending biweekly field meetings for retrieval and closure. Ecology responded that it was attending the biweekly field meetings and getting information on retrieval and closure. ORP provided a status for the treat waste contract line item number (CLIN) 5.5 that applies to the LAWPS. ORP stated that in February 2015, there was a delay with the conceptual design activities related to release of capital funding, but the funding has since been released. ORP stated impacts associated with implementing DOE O 420.1C, *Facility Safety*, and associated standards were analyzed, and ORP is preparing for engineering scale integrated testing that was not originally part of the plan. ORP stated that since the capital funds have been released, the proposal for integrated testing and the DOE O 420.1C implementation will be evaluated and contracted out.

Single-Shell Tank Corrective Action; M-45, -50, -60 – ORP stated that the Ecology and ORP representatives were not available today, and they will be meeting next week to discuss this subject.

TPA-SST Retrieval and Closure Program – ORP stated that the Ecology and ORP representatives were not available today, and they will be meeting next week to discuss this subject.

Tank Waste Retrieval Work Plan (TWRWP) Status – ORP stated that the Ecology and ORP representatives were not available today, and they will be meeting next week to discuss this subject.

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

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

CD SST Retrieval and Closure – ORP stated that the Ecology and ORP representatives were not available today, and they will be meeting next week to discuss this subject.

CD TWRWP Status – The CD TWRWP table is identical to TPA TWRWP table.

Waste Treatment and Immobilization Plant

The WTP actions were discussed and updated as follows:

Action No. 1 (WTP-14-10-01) – ORP stated that there were no updates to provide regarding this action. Ecology asked if the action is being actively worked. ORP responded that an approach is being worked, but there was no information to share at this point. This action remains open.

Action No. 2 (WTP-14-10-02) – ORP stated that this action is tied up with the Consent Decree judicial process, and there will be very little update until the issue is resolved. This action remains open.

Action No. 3 (WTP-14-10-03) – ORP stated that this action is tied up with the Consent Decree judicial process, and there will be very little update until the issue is resolved. This action remains open.

Action No. 4 (WTP-14-10-04) – ORP stated that the High-Level Waste (HLW) Facility portion of the action was completed, and there are internal discussions about how to proceed with the Pretreatment (PT) Facility portion. Ecology asked if there was any information that could be provided today. ORP responded that the technical team issues are still being worked based on the two-year work plan. ORP added that there are revisions to the three-year work plan, and the intent is to get the revisions prioritized and completed in the May 2015 time frame. Ecology asked if an update on all the technical team issues could be provided in the June 2015 time frame. ORP responded that the June time frame was a fair estimate, but it would follow up with the federal project director and provide a response to Ecology. This action remains open.

Action No. 5 (WTP-14-10-05) – ORP stated that the HLW portion of the action was completed, and there are internal discussions about how to proceed with the PT portion. ORP added that the two-year work plan was completed in September 2014 for HLW and PT, and asked if Ecology had a need for additional information. Ecology agreed that this action could be closed.

Action No. 6 (WTP-14-10-06) – ORP stated that a meeting is scheduled with Ecology on May 5, 2015, and the operational readiness will also be discussed during the meeting (see tank farm

action No. 8).

Action No. 7 (WTP-14-06-02) – There was a brief discussion about changing or adding an actionee for this action. ORP agreed that the original actionee would be contacted to determine if a change should be made to the actionee. This action remains open.

Action No. 8 (WTP-14-06-03) – ORP stated that the contractor is still conducting a factual review on the Low-Activity Waste (LAW) Facility design and operability review, and noted that it has taken longer than anticipated. ORP stated that it will be conducting a review following the contractor's review, and it could not provide a time frame to Ecology for a briefing. This action remains open.

Action No. 9 (WTP-14-04-01) – There was a brief discussion about changing or adding an actionee for this action. ORP agreed that the original actionee would be contacted to determine if a change should be made to the actionee. This action remains open.

Action No. 10 (WTP-15-01-01) – ORP stated that there is an ongoing effort with this action. Ecology expressed a significant amount of interest with this action and requested moving it up in terms of priority. This action remains open.

Action No. 11 (WTP-15-01-02) – A tour was held this week. This action was closed.

Action No. 12 (WTP-15-01-03) – ORP stated that the last activity associated with the Analytical Laboratory (LAB) radioactive liquid waste disposal (RLD) vessels was about eight months ago, and all of the repairs to the vessels have been completed. ORP added that all of the construction deficiency reports (CDR) and noncompliance reports have been provided to Ecology. ORP noted that the final certification sheet was just received, which is a formal one-page submission that is made at the closeout of the CDR. ORP stated that there have been numerous discussions with Ecology regarding the status of the vessels, and every month during the project managers meeting an update on the progress was provided. ORP noted that Ecology permitting will be requesting additional information and there was a discussion held yesterday regarding the best approach for providing information. ORP asked Ecology what technical information is required.

Ecology responded that documentation is required to be in Ecology's files prior to Ecology completing the engineering review and analysis of the vessels, and final certification. ORP stated that an internal effort will be made to identify what has been provided to Ecology and then a meeting will be scheduled with Ecology to identify any information gaps. Ecology stated that there was discussion during a permitting meeting today that the letter to ORP could be rewritten to further clarify what information Ecology is requesting. Ecology noted that there is a reason for requesting more information, and recognized that ORP has provided briefings all along during the issue with the two vessels. This action remains open.

ORP provided a brief overall status for WTP. ORP stated it determined that the emergency

turbine generator (ETG) was needed for PT and HLW, and the scope of the ETG was moved from the Balance of Facilities (BOF) to HLW. ORP added that LAW, BOF, and LAB will focus on direct feed LAW (DFLAW). ORP noted that the three-year work plan for PT was approved by DOE. Ecology asked if the three-year work plan for PT goes beyond the two-year work plan. ORP responded that it does go beyond the two-year work plan. Ecology asked if the three-year work plan was a shareable document. ORP responded that the document could not be shared at this time. Ecology requested a copy of the PT three-year work plan, if possible. *ORP took an action to follow up with the FPD about providing Ecology the three-year work plan.*

Pretreatment Facility

ORP stated that the plutonium chemistry study was issued. Ecology inquired about a link to access the chemistry study. ORP will follow up with Ecology's request to provide the link. Ecology requested receipt of the standard high solids vessel design testing planning, test specification/plan, and the engineering study to define simulate and supplemental mixing when those documents are available. ORP stated that it will follow up with Ecology's request. Ecology inquired about the status of design planning for the standard high solids vessel. ORP responded that the design is in an early stage because some of the design will be based on the supplemental mixing engineering study and testing. Ecology noted that one of the action items is to provide an update.

High-Level Waste Facility

ORP stated that the civil construction efforts continuing in HLW, and the key activity regarding the technical issues is the HEPA filter testing. ORP stated that the phase 1, iteration 1 of the HEPA filter testing at MSU showed that the reinforced filter did not meet the efficiency requirements, and Bechtel is moving forward with procurement of a number of different filter media. ORP noted that the initial HEPA filter testing was done with bounding conditions that are much higher than the individual operating conditions, so the operating conditions are being separated out for the offgas and C5 ventilation, and the bounding conditions will be lowered for the next testing with the new filter media design. Ecology stated that the individual margins for specific pieces may pass, but cautioned ORP about shorting the margins because an extrapolated cumulative margin will be needed to determine that the filters will work at a system level. ORP responded that Bechtel will be looking at the requirements from the system level by reviewing the analysis of the process flow sheet that shows how much material will be going through the system. Ecology stated that there have been times in the past where the margins were cut so short that it was clear the calculations were not sufficient to give enough margins for any perturbation in the flow path. Ecology added the caution for ORP to be reasonable with the new margins so the testing doesn't have to be done again.

ORP noted that the document search link for the system design descriptions was provided to Ecology. Ecology referred to the request for proposal that was issued for vendor design of the

RLD-8 vessel, and asked if the RLD safety basis process is far enough along to ensure the procurement will be an informed procurement. ORP responded that the RLD procurement will be awarded after the safety basis approval, and the request for proposal will have the initial information.

Ecology asked about the 62 percent complete overall for the HLW Facility. ORP explained that the 62 percent is frozen from September 2012, and it was based on a ratio of the total work needed and cost of that work, and the amount of work that had been completed. ORP added that there is not a new overall baseline, and a new percentage cannot be calculated.

Ecology asked how much more civil construction could be done before having to stop and wait for receipt and placement of components. ORP responded that there was at least an 18-month backlog of work, which should go past FY 2016.

Low-Activity Waste Facility

ORP reported that all of the refractory work has been completed in the main part of the melter, and work is still ongoing with the melter lids. ORP stated that the plan is being prepared for drying out of the castable refractory before flipping and placing the lids. Ecology asked how the refractory is supported to prevent it from falling into the melter. ORP stated that the refractory is adhered to the top by a structural retainer grid. ORP stated that the subcontractor work in the annex is close to being completed, and access to the annex has been restricted.

Balance of Facilities

ORP stated that the primary facilities are basically complete, and there are several small follow-up items that are being worked. ORP added that there will be a little work going on up through commissioning, with no major steps being taken except for those to support DFLAW. Ecology asked if the existing equipment in BOF would need to be reconfigured to support DFLAW, such as the chiller compressor plant. ORP responded that there will be some reconfiguring of equipment, and the topic has been discussed in briefings to Ecology. ORP added that the chiller compressor plant and the steam plant will be modified, not internally, but in terms of regulating the outflow. ORP noted that there is an action item to address DFLAW, and suggested scheduling a briefing with Ecology to discuss the modifications needed for BOF. ORP referred to the ongoing legal situation with WTP, and stated that it will seek guidance about what information could be discussed during the briefing. ORP noted that DFLAW will primarily be a reconfiguration of BOF to support a reduced mission.

ORP stated that work continues to get Switchgear Buildings 87 and 91 and the nonradioactive liquid drain (NLD) facility ready to start up, and they will be the initial facilities for startup and commissioning activities. ORP stated that the goal is to complete transition from construction to startup this fiscal year for all the major systems in the primary switchgear buildings and the NLD facilities. ORP stated that the major focus in BOF is to receive and install the NLD system motor control panel, and complete the component-level testing for the low-voltage,

medium-voltage, and fire detection systems for Switchgear Buildings 87 and 91.

Analytical Laboratory

ORP stated that the LAB is going into a closed-up, standby state, and the focus will shift from construction to analytical methods development. ORP indicated that analytical methods development should start in FY16, and that effort will help with the selection and procurement of the analytical equipment. Ecology asked if access to the LAB will be restricted. ORP responded that it will be very restricted, and the small amount of work will be packaged into discrete work scopes. ORP noted that there will be a few minor modifications done in support of DFLAW, and some of the support systems will be evaluated to determine if they require isolations. Ecology stated that there likely will be existing systems that are isolated and downsized to support DFLAW, and there may be systems that will run as currently configured, and there also may be new systems such as the Effluent Management Facility. Ecology requested that ORP delineate all of those items when it provides a briefing on DFLAW. ORP responded that it will include those topics in its briefing.

ORP stated that the chiller compressor plant and the steam plant are high-volume plants, and some capabilities will have to be built in for those facilities to operate at a reduced volume. ORP added that each facility will have an operating island and there will be a construction area, so the appropriate isolations will be built in place to keep the workers at HLW and PT safe. ORP added that the appropriate location will need to be identified within the operating plant to effect the isolation and then install the necessary valving. Ecology stated that when HLW begins to operate, all of the isolations will have to be reversed. ORP responded that that was not the case due to the capability that is being built in, and that removal of piping or changing the connection to a facility will not be required.

Ecology raised a concern about the cathodic protection system, asking if large trenches will be dug for installing new lines and how that would affect the rest of the existing lines. ORP responded that there will be excavations for additional installations to make the cathodic protection system more robust, and there will be some fluctuations in the system during the excavation. ORP noted that there had been issues with the new test stations that were installed, and the contractor has been working through those issues. ORP stated that the data received from the cathodic protection system is much better than it has been in the past, and the preliminary indications are that the issues with the test stations have been solved and reliable data will be obtained. Ecology asked if there was a plan to examine a portion of the existing underground lines to ensure that the instruments are reporting correct information. ORP stated that the instruments are a different effort, and they don't reveal anything about the pipe. ORP added that the instruments indicate if the system is currently operating within its range. ORP stated that it has been a while since Ecology has been briefed on the cathodic protection system, and took an action to schedule a meeting. ORP noted that there are two efforts underway, which are the ongoing cathodic protection system upgrades, and the evaluation of the underground piping system and the planning for a path forward to approach the piping system. ORP stated that it will provide an update on those two efforts during the meeting.

4.0 Key Documents List

ORP provided an updated key documents list.

Upcoming Meetings

The ORP TPA quarterly milestone meeting is scheduled May 21, 2015, from 8:30 a.m. to 10:15 a.m. at the Ecology office in Richland, Washington.

Sign In Sheet
 Monthly Milestone Review Meeting
 April 16, 2015

| NAME | ORG |
|-------------------|----------------------|
| Bryan Trimberger | ORP - ECO |
| ROB PIPPO | MSA - TPA |
| Kathy Knox | Knox Court Reporting |
| CAROLYN NOONAN | MSA - TPA |
| JAMES LYNCH | ORP - TPD |
| SHELLEY CIMON | ODOE |
| RICHARD VALE | ORP - TPD |
| Paul Hernandez | ORP - TPD - |
| Jane Diederker | ORP - WSC |
| WENDOL WRZOSINSKI | ORP - WSC |
| Ellen MATTLIN | ORP - TPD |
| GLYN TRENCHARD | ORP - TF |
| Kallen Kiddle | PT & C - ORP |
| DeBrisa Smith | ORP - OS |
| Steve Pfaff | ORP |
| Jim Alzheimer | ECOLOG |
| Jeremy Johnson | ORP ORP |
| KAYLIN BURNETT | ORP - OSD |
| DAN McILONAW | Ecology |
| DAN KNIGHT | ORP - WTP |
| Arlene Tortoso | Ecology |
| Nitya Chandran | Ecology |

Sign In Sheet
Monthly Milestone Review Meeting
April 16, 2015

| NAME | ORG |
|------------------|---------|
| Robbie Biyani | Ecology |
| Jeff Bruggeman | DOE |
| Riant Charboneau | DOE |
| Barry Curn | WTP |
| Mandy Jenis | Ecology |
| Annette Carlson | ECY |
| Jason Young | DOE |
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ORP/Ecology TPA and CD Agreements, Issues, and Action Items – April 2015

Agreements:

- ORP will continue to meet with ECY to discuss funding and work priorities per TPA Paragraphs 148/149 process.
- 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).
- 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:

- 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.
- T-111 and Other Single Shell Tank Level Decreases: ORP and WRPS have determined that 19 of the 20 single-shell tanks showing decreased liquid levels at the Hanford Site are not actively leaking. Evaluation documents are available online at: <http://www.hanford.gov/page.cfm/SingleShellTankEvaluations>

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

| Tank Farms Action Items | | | | | | | |
|--------------------------------|------------------|-------------------|---|----------------------|---|--------------------|--------------------|
| # | Action ID | Start Date | Action | Action Status | Updates / Needs for Closure | Actionee(s) | Date Closed |
| 1 | TF-14-08-01 | 08/21/14 | ECY requested information on the evaporator maintenance protocols and the depth and breadth of the maintenance spares. | Open | ORP plans to meet with ECY to discuss this on April 20. | Hernandez | |
| 2 | TF-14-08-01 | 08/21/14 | ORP took an action to set up discussions with Ecology on DFLAW and the WTP TOC integrated readiness support starting in October 2014. | Closed | A brown bag session was held to close this item, and item TF-15-03-01 opened for next scheduled discussions. | Pfaff / Wrzesinski | 03/18/15 |
| 3 | TF-14-06-02 | 06/19/14 | Schedule an oversight opportunity with ORP and ECY for the WMA C PA modeling | Open | Meetings were held on 09/11/14, 10/30/14, 12/16/14, and 12/17/14. | Kemp / Beach | |
| 4 | TF-14-02-02 | 02/18/14 | ECY would like a schedule/project management plan (if available) for the closure of WMA C. | Open | Closure contract modification still in progress. The contract pre-negotiation memorandum is with DOE-HQ and contract negotiations will begin. ORP has provided to ECY the sketches and tools available currently. | Kemp | |

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

| Tank Farms Action Items | | | | | | | |
|--------------------------------|-------------|------------|---|---------------|--|---------------------------------------|-------------|
| # | Action ID | Start Date | Action | Action Status | Updates / Needs for Closure | Actionee(s) | Date Closed |
| 5 | TF-14-01-01 | 01/28/14 | ORP, ECY, and WRPS are working to complete revisions on the Hose-In-Hose Transfer Line Management Plan (RPP-12711) Revision 7. | Open | ORP, WPRS, and Ecology have reached resolution on RPP-12711 Rev 7. A TPA change package to make the Temporary Waste Transfer Line Mgmt Plan a TPA primary document is being routed for signature. ORP is also preparing a letter to close this action. | Lynch / Mathey / Fox | |
| 6 | TF-13-12-01 | 12/19/13 | ECY will provide a list of team members and their roles and responsibilities to ORP so that ORP can provide all applicable invitees to future meetings. | Open | | Lyon / McDonald | |
| 7 | TF-13-02-03 | 02/21/13 | ECY and ORP will continue to meet at the project manager level to discuss work on the WMA C PA and other options for M-045-61/-62/-82. | Open | ORP and ECY signed TPA Change Package M-45-14-03 separating M-045-61 into two milestones, one for the RFI, one for the CMS. Meeting will be held when ECY is available. | Kemp / Eberlein / Price | |
| 8 | TF-15-03-01 | 03/18/15 | ORP plans to meet with ECY to discuss the integrated flowsheet specific to DFLAW in early April. | Open | | Pfaff / Wrzesinski / R. Gilbert | |
| 9 | TF-15-03-02 | 03/18/15 | ECY has requested additional data for the next four 242-A Evaporator campaigns (i.e. tank chemistry, estimated volume reductions/goals, specific gravity before and after, etc.). | Open | | Hernandez | |

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

| Tank Farms Action Items | | | | | | | |
|--------------------------------|------------------|-------------------|--|----------------------|------------------------------------|--------------------|--------------------|
| # | Action ID | Start Date | Action | Action Status | Updates / Needs for Closure | Actionee(s) | Date Closed |
| 10 | TF-15-03-03 | 03/18/15 | After the LERF/ETF transition is complete, ECY would like a briefing on LERF/ETF current configuration, facility conditions, and plans to determined changes required to accommodate WTP throughput. | Open | | Valle / Wrzesinski | |
| 11 | TF-15-03-04 | 03/18/15 | ECY would like a briefing on design and other details for the T-111/POR-006 project (e.g., understanding how we can tell if conditions are improved using this process). | Open | | Johnson | |
| 12 | TF-15-03-05 | 03/18/15 | ECY would like to obtain technical white papers supporting LAWPS design. | Open | | Pfaff/ Wrzesinski | |
| 13 | TF-15-03-06 | 03/18/15 | ECY would like to discuss TPA Appendix I (Section 2.1.1) for the requirement for integration studies done prior to TWRWP development (specific to WMA A/AX). | Open | | Kemp | |

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

| WTP Action Items | | | | | | | |
|-------------------------|------------------|-------------------|--|----------------------|--|----------------------------|--------------------|
| # | Action ID | Start Date | Action | Action Status | Updates / Needs for Closure | Actionee(s) | Date Closed |
| 1 | WTP-14-10-01 | 10/23/14 | ECY requests information on DOE's plans and timeline for the LAW (replacement) melter assembly building. | Open | | Wendell Wrzesinski | |
| 2 | WTP-14-10-02 | 10/23/14 | ECY would like to know what the plans are for operating BOF in support of DFLAW and then transitioning into full WTP operations. | Open | This issue is impacted by the ongoing CD judicial process. | Jason Young | |
| 3 | WTP-14-10-03 | 10/23/14 | ECY and ORP need to discuss how to document LAB substantially complete milestone after completion of RLD vessel repairs. | Open | This issue is impacted by the ongoing CD judicial process. | Jason Young | |
| 4 | WTP-14-10-04 | 10/23/14 | ECY requests a status update to include a schedule on the 8 technical team issues for HLW and PT. | Open | Completed for HLW. | Gary Olsen/ Wahed Abdul | |
| 5 | WTP-14-10-05 | 10/23/14 | ECY requests on update on the details of the 2-year work plan for HLW and PT. | Open | Completed for HLW. | Gary Olsen/ Wahed Abdul | |
| 6 | WTP-14-10-06 | 10/23/14 | ECY requests a status update on the DFLAW Program and flowsheet integration. | Open | | Wendell Wrzesinski | |
| 7 | WTP-14-06-02 | 06/19/14 | ECY requests that DOE provide a presentation on how DOE incorporates, vets, and considers all technical issues (including the Safety Design Strategy). | Open | | Delmar Noyes | |
| 8 | WTP-14-06-03 | 06/19/14 | ECY requests a briefing on the LAW Design and Operability review before the September timeframe. | Open | The Design and Operability Review Report is with the contractor for factual accuracy review. ORP will schedule a briefing once the report is issued. | Jeff Bruggeman | |

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

| WTP Action Items | | | | | | | |
|-------------------------|------------------|-------------------|--|----------------------|--|--------------------|--------------------|
| # | Action ID | Start Date | Action | Action Status | Updates / Needs for Closure | Actionee(s) | Date Closed |
| 9 | WTP-14-04-01 | 04/22/14 | ORP and ECY have a placeholder action to hold a comprehensive briefing/discussion on the PT efforts. | Open | | Delmar Noyes | |
| 10 | WTP-15-01-01 | 1/22/15 | ECY requests a presentation on SHSVD to include impacts and optimization in planning area 2,3, &4 | Open | | Gary Olsen | |
| 11 | WTP-15-01-02 | 1/22/15 | ECY requests a tour of PJM testing at MCE | Open | Ecology is touring the ESEL facility next Tuesday, April 14, at 11:00 am. There is no more testing being conducted at the MCE facility and suggest action be closed. | Gary Olsen | |
| 12 | WTP-15-01-03 | 1/22/15 | ECY requests a technical update on the LAB RLD vessels | Open | ORP recommends closure of this action. | Jason Young | |

FINAL

Office of River Protection
Tri-Party Agreement
Monthly Summary Report
April 2015



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

| Page | Topic | Leads |
|------|--|---|
| 1 | Administrative Items/Milestone Status | Bryan Trimberger/Dan McDonald/Jeff Lyon |
| 2 | System Plan; M-062-40 | DaBrisha Smith/Jeff Lyon/Dan McDonald |
| 3 | Acquisition of New Facilities; M-090-00 and M-047-00 | Janet Diediker/Jeff Lyon/Dan McDonald |
| 4 | Supplemental Treatment and Part B Permit Applications; M-062-00, M-062-21, M-062-30, and M-062-45 | Steve Pfaff/Jeff Lyon/Dan McDonald |
| 5 | 242-A Evaporator Status | Richard Valle/Paul Hernandez/Jeff Lyon |
| 6 | Double-Shell Tank System Update | Jeremy Johnson/Jeff Lyon |
| 6 | Single-Shell Tank Integrity Assurance; M-045-91 | Jeremy Johnson/ Jim Alzheimer |
| 7 | In Tank Characterization and Summary | Billie Mauss/Michael Barnes |
| 9 | Tank Operations Contract Overview | ORP TPA PMs/Jeff Lyon |
| 17 | Single-Shell Tank Corrective Action; M-045-22, M-045-50 series, M-045-60 series, and M-045-92 | Chris Kemp/Jeff Lyon |
| 19 | Single-Shell Retrieval and Closure Program Tri-Party Agreement (TPA) Milestones Status; M-045-00 series | Chris Kemp/Jeff Lyon |
| 21 | Tank Waste Retrieval Work Plan Status | Chris Kemp/Jeff Lyon |
| 22 | Tank in TPA Appendix H, Status Tank Retrievals with Individual Milestones | Chris Kemp/Jeff Lyon |
| CD | Waste Treatment and Immobilization Plant (WTP) Overall TPA Summary and Milestone Status; see the U.S. Department of Energy, Office of River Protection Consent Decree 08-5085-FVS Monthly Summary Report for WTP Facility-specific information | Delmar Noyes/Dan McDonald |

CD = Consent Decree 08-5085-FVS

| Milestone | Title | Due Date | Completion Date | Status |
|-------------------------|--|------------|-----------------------|--------------|
| Fiscal Year 2015 | | | | |
| M-062-40D | Submit System Plan | 10/31/2014 | 10/31/2014 | Completed |
| M-062-40ZZ | Submit One Time Tank Waste Supp Treatment Technologies Report | 10/31/2014 | Deleted on 08/12/2014 | Deleted |
| M-045-91G-T03 | Provide AOR Final Doc. for SSTs on 1,000,000 Gallon Tanks | 10/31/2014 | 07/07/2014 | Completed |
| M-045-91F-T04 | Provide Report on 100-Series SSTs as having Leaked in RPP-32681 | 12/26/2014 | 11/14/14 | Completed |
| M-045-61 | Phase 2 RCRA Facility Investigation | 12/31/2014 | 12/23/2014 | Completed |
| M-045-86H | Submit Retrieval Data Report to Ecology for C-110 | 01/29/2015 | 08/06/2014 | Completed |
| M-045-91G-T04 | Provide AOR Final Doc. for SSTs on 55,000 Gallon Tanks | 01/30/2015 | 12/3/2014 | Completed |
| M-045-91B-T01 | Provide Ecology report on the Concrete Core from Tank A-106 or alt | 01/31/2015 | 12/3/2014 | Completed |
| M-062-01AD | Submit Semi-Annual Compliance Report | 1/31/2015 | 1/29/2015 | Completed |
| M-045-91F-T02 | Provide Report of Liner Failures for SSTs | 03/31/2015 | 3/16/2015 | Complete |
| 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 | | In Dispute |
| M-062-45-ZZ-A | Convert M-062-31-T01 Thru M-062-34-T01 to Interim Milestones | 04/30/2015 | | In Dispute |
| M-045-91F | Provide Summary Conclusions Report on Leak Integrity | 06/30/2015 | | On Schedule |
| M-045-62 | Phase 2 Corrective Measures Implementation Work Plan For WMA-C | 06/30/2015 | | To Be Missed |
| M-045-92O | Barrier 3 Design/Monitoring Approval From Ecology | 06/30/2015 | | On Schedule |
| M-045-91G | Provide Summary Conclusions Report of AOR for SSTs | 07/28/2015 | | On Schedule |
| M-045-56K | Ecology and DOE Agree, at a Minimum, to Meet Yearly (By July) | 07/31/2015 | | On Schedule |
| M-045-91H | Submit Change Pkg (if necessary) to est. Additional Milestones | 07/31/2015 | | On Schedule |
| M-062-01AE | Submit Semi-Annual Compliance Report | 7/31/2015 | | On Schedule |
| M-045-82 | Submit Comp. Permit Modification Request for Tiers 1,2,3 | 09/30/2015 | | To Be Missed |
| M-045-91E | Provide SST Farms Dome Deflection Surveys Every Two Years | 9/30/2015 | | On Schedule |
| Fiscal Year 2016 | | | | |
| M-045-92N | Construct Barriers 1 and 2 in 241-SX Farm | 10/31/2015 | | On Schedule |
| M-062-01AF | Submit Semi-Annual Project Compliance Report | 1/31/2016 | | On Schedule |
| M-047-07 | CD-1 for Secondary Liquid Waste Treatment and CR for CD-2 to ECY | 3/31/2016 | | On Schedule |
| M-090-13 | CD-1 for Interim Hanford Storage Project and CR for CD-2 to ECY | 3/31/2016 | | On Schedule |
| M-062-31-T01 | Comp. Final Design & Submit RCRA Part B Permit Mod Request for Enhanced WTP & Supplemental Treatment | 4/30/2016 | | On Schedule |
| M-045-92Q | Submit Barrier 4 Design/Monitoring Plan | 6/30/2016 | | On Schedule |
| M-062-01AG | Submit Semi-Annual Project Compliance Report | 7/31/2016 | | On Schedule |
| M-045-56L | Ecology And DOE A Ecology And DOE Agree, At A Minimum, To Meet Yearly (By July) | 7/31/2016 | | On Schedule |

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

System Plan

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

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

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

Significant Past Accomplishments:

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

12. On October 31, 2014, ORP transmitted System Plan 7 to Ecology.
13. ORP received Ecology's January 14, 2015 transmitted letter 15-NWP-004, regarding the Department of Ecology review of *River Protection System Plan*, ORP-11242, Revision 7.
14. DOE-ORP meet with Ecology at the Tank Farms informal TPA and CD monthly status meeting on February 25, 2015.

Significant Planned Actions in the Next 6 Months:

None

Issues:

None.

Acquisition of New Facilities

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

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

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

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

Significant Past Accomplishments:

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

Significant Planned Actions in the Next 6 Months:

None.

Issues:

None.

Supplemental Treatment and Part B Permit Applications

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

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

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

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

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

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

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

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

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

Significant Past Accomplishments:

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

Significant Planned Actions in the Next 6 Months: None.

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

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

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

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

| Fiscal Year | Campaign No. | Feed Source | Slurry Tank | Comments |
|--------------------|---------------------|--------------------|--------------------|--|
| FY 2010 | 10-01 | AW-106 | AW-106 | Campaigns 10-01/10-02 were performed back-to back starting in late August and completing in early October 2010. Campaign 10-02 was an acceleration of previously planned Campaign 11-01. |
| FY 2010 | 10-02 | AW-106 | AW-106 | |
| FY 2011 | N/A | N/A | N/A | No campaign conducted in FY 2011 due to ongoing 242-A and tank farm facility life extension and American Recovery and Reinvestment Act funded upgrades. |
| FY 2012 | N/A | N/A | N/A | No campaign conducted in FY 2012 due to ongoing 242-A and tank farm facility upgrades and revision to the 242-A Documented Safety Analysis. |
| FY 2013 | N/A | N/A | N/A | No campaigns to be conducted in FY 2013 due to ongoing 242 A and tank farm facility upgrades and revision to the 242-A Documented Safety Analysis. |
| FY 2014 | 13-01 | AP-107 | AP-107 | Campaign started September 9, 2014. Campaign completed on October 9, 2014. |
| FY 2015 | EC-01 | AP-103 AP-104 | AP-107 | Estimated to begin April 2015. |
| FY 2015 | EC-02 | AZ-102 | AP-103 | Estimated to begin June 2015. |
| FY 2015 | EC-03 | AZ-102 | AP-103 | Estimated to begin August 2015. |
| FY 2015 | EC-04 | AW-106 | AP-103 | Estimated to begin October 2015. |

FY = fiscal year.

N/A = not applicable.

Significant Planned Actions in the Next 6 Months:

Evaporator campaign EC-01 is estimated to begin in mid-April of 2015 with a targeted waste volume reduction of 300,000 gallons. An earlier proposed start was delayed due to a non-functional ammonia monitor.

Issues:

None.

Double-Shell Tank System UpdateUltrasonic Testing Inspection

- Ultrasonic testing for tanks AN-103 and AN-104 is planned to be performed by the end of the FY.

Visual Inspection

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

Single-Shell Tank Integrity Assurance

M-045-91F-T04, Provide to Ecology, as a Hanford Federal Facility Agreement and Consent Order secondary document, a report on the 100-series SSTs, which have been or will be identified as having leaked in RPP-32681, Rev. 0, Due: December 26, 2014, Status: Complete. RPP-RPT-54909, Hanford Single-Shell Tanks Leak Causes, Locations, and Rates: Summary Report was transmitted to Ecology on 11/14/2014 under letter 14-TF-1024.

M-045-91G-T04, Provide to Ecology the structural analyses of record final documentation for SSTs for 55,000 gallon tanks (B, C, T, and U Farms), Due: January 30, 2015, Status: Complete. RPP-RPT-49993, Single-Shell Tank Integrity Project Analysis of Record Hanford Type I Single-Shell Tank Thermal and Operating Loads and Seismic Analysis was transmitted to Ecology on 12/03/2014 under letter 14-TF-0128

M-045-91B-T01, Provide Ecology a report containing the results and interpretation of testing and analysis, performed on the concrete core obtained from Tank A-106 or an alternate tank, Due: January 31, 2015, Status: Complete. RPP-RPT-58254, Concrete Core Testing Report for the Single-Shell Tank 241-A-106 Sidewall Coring Project was transmitted to Ecology on 12/03/2014 under letter WRPS-140473214-TF-0127.

M-045-91F-T02, Provide to Ecology as a Hanford Federal Facility Agreement and Consent Order secondary document a report evaluating the common factors of liner failures for SSTs that have leaked and will provide recommendations as appropriate, such as enhanced leak detection, monitoring, and mitigation, Due: March 31, 2015, Status: Complete. RPP-RPT-55804, Common Factors Relating to Liner Failures in Single-Shell Tanks, was transmitted from ORP to Ecology on 03/16/2015 under letter 15-TF-0005.

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

In support of M-045-91G, SST AOR Summary Report, a draft ready for review by the independent experts has been prepared. Ecology was briefed on the outline and approach of the AOR summary on 2/25/2015.

In support of M-045-91F, RPP-RPT-58498, Single-Shell Tank Leak Integrity Summary, was released on 3/30/2015 and is being transmitted to ORP. Ecology was briefed on the results on 3/25/2015.

Common Factors Relating to Liner Failures in Single-Shell Tanks, RPP-RPT-55804, Rev. 1 was transmitted to Ecology on 3/16/2015.

Significant Planned Actions in the Next 6 Months:

Complete M-045-91F, SST Leak Integrity Summary Report and M-045-91G, SST AOR Summary report.

Issues:

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

In Tank Characterization and Summary

For the period from March 1 through March 31, 2015:

Accomplishments:

- Completed RPP-RPT-58456, *Derivation of Best-Basis Inventory for Tank 241-AP-103 as of January 1, 2015, Rev 0.*

- Completed RPP-RPT-44637, *Derivation of Best-Basis Inventory for Tank 241-AZ-101 as of March 23, 2015*, Rev 9.
- Completed RPP-RPT-48639, *Derivation of Best-Basis Inventory for Tank 241-AP-104 as of January 1, 2015*, Rev 11.
- Completed RPP-RPT-48745, *Derivation of Best-Basis Inventory for Tank 241-C-107 as of March 1, 2015*, Rev 8.
- Completed RPP-RPT-44630, *Derivation of Best-Basis Inventory for Tank 241-AY-102 as of March 1, 2015*, Rev 9.
- Completed RPP-RPT-58447, *Derivation of Best-Basis Inventory for Tank 241-A-102 as of January 7, 2015*, Rev 0.
- Completed RPP-RPT-58299, *Data Quality Objectives for Sampling and Analysis of Tank Farm Stack Odorous Chemical Vapor Emissions*, Rev 0.
- Completed RPP-PLAN-57535, *Sampling and Analysis Plan for 242-A Evaporator Process Condensate*, Rev 1.
- Completed RPP-PLAN-58022, *Sampling and Analysis Plan for 242-A Evaporator Cooling Water and Steam Condensate*, Rev 1.
- Completed RPP-PLAN-60215, *Tank Sampling and Analysis Plan for Tank 241-C-102 3rd Retrieval Technology*, Rev 0.
- Completed RPP-RPT-58514, *Tank 241-C-107 Residual Waste Inventory Estimates for Component Closure Risk Assessment*, Rev 0.
- Performed 241-C-112 grab sampling March 3, 2015. One grab sample was received at the lab.

Planned Action within the Next 6 Months:

Tank sampling:

- Tank 241-AP-101 grab sampling is planned for April 2015.
- Tank 241-C-101 ORSS closure sampling is planned for April 2015.
- Tank 241-AP-105 grab sampling is planned for May 2015.
- Tank 241-AZ-102 (EC-03) grab sampling is planned for May 2015.
- Tank 241-C-102 caustic preconditioning and dissolution process sampling is planned for June 2015.
- Tank 241-SY-103 core sampling is planned for June 2015.
- Tank 241-AN-101 grab sampling at C-102 100% retrieval is planned for July 2015.
- Tank 241-AY-101 grab sampling is planned for July 2015.
- Tank 241-AP-107 grab sampling is planned for July 2015.
- Tank 241-C-111 grab sampling is planned for September 2015.

Best-Basis Inventory (BBI) updates:

BBI updates for the following tanks were completed in March:

- 241-A-102
- 241-AP-103
- 241-AP-104
- 241-AY-102
- 241-AZ-101
- 241-C-107

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

- 241-AW-102
- 241-AZ-102
- 241-B-203
- 241-C-102
- 241-T-111

Data Quality Objectives (DQO):

RPP-44057, *Data Quality Objectives to Support Strategic Planning*, Rev 2, is planned to be released in April to clarify DQO applicability and obtain data used to update the BBIs.

Issues:

None.

TANK OPERATIONS CONTRACT OVERVIEW

Project Performance

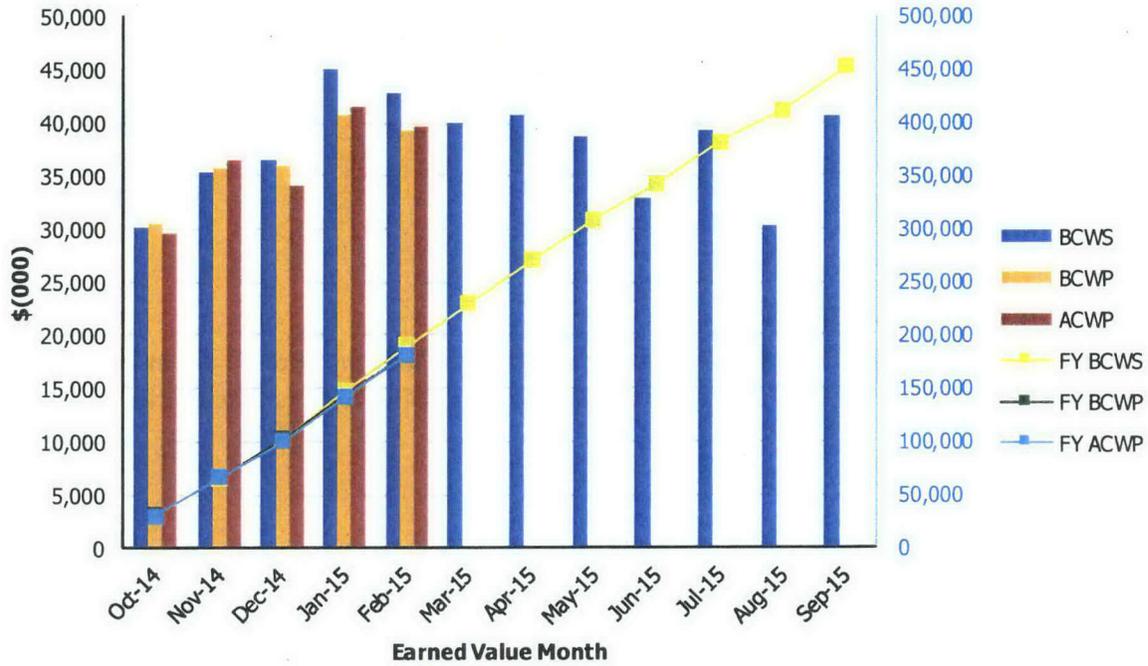
The earned value performance reporting reflects the format, work breakdown structure reporting levels, and variance thresholds as agreed to with the tank operations contractor for monthly performance reporting. The earned value analysis is not intended to be a measurement of performance against existing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

Through February 28, 2015, Washington River Protection Solutions LLC (WRPS) worked 1,059,645 hours (80 days) without a Lost Time Workday Injury and 646,491 hours (47 days) since the last Recordable case. There was one recordable cases in February, and no Days Away, Restricted, or Transferred (DART) cases.

| February-15 | | | | | | | | | | |
|-------------|-------------|-------------|-------------|------------|----------|------|------|-------------|-------------|----------|
| | BCWS | BCWP | ACWP | SV | CV | SPI | CPI | BAC | EAC | VAC |
| CM | 42,913.0 | 39,189.0 | 39,643.0 | (3,724.0) | (454.0) | 0.91 | 0.99 | | | |
| FYTD | 189,671.0 | 181,922.0 | 181,248.0 | (7,749.0) | 674.0 | 0.96 | 1.00 | | | |
| CTD | 2,533,570.0 | 2,500,402.0 | 2,482,193.0 | (33,168.0) | 18,209.0 | 0.99 | 1.01 | 3,359,206.5 | 3,340,509.4 | 18,697.1 |

Tank Farms ORP-0014

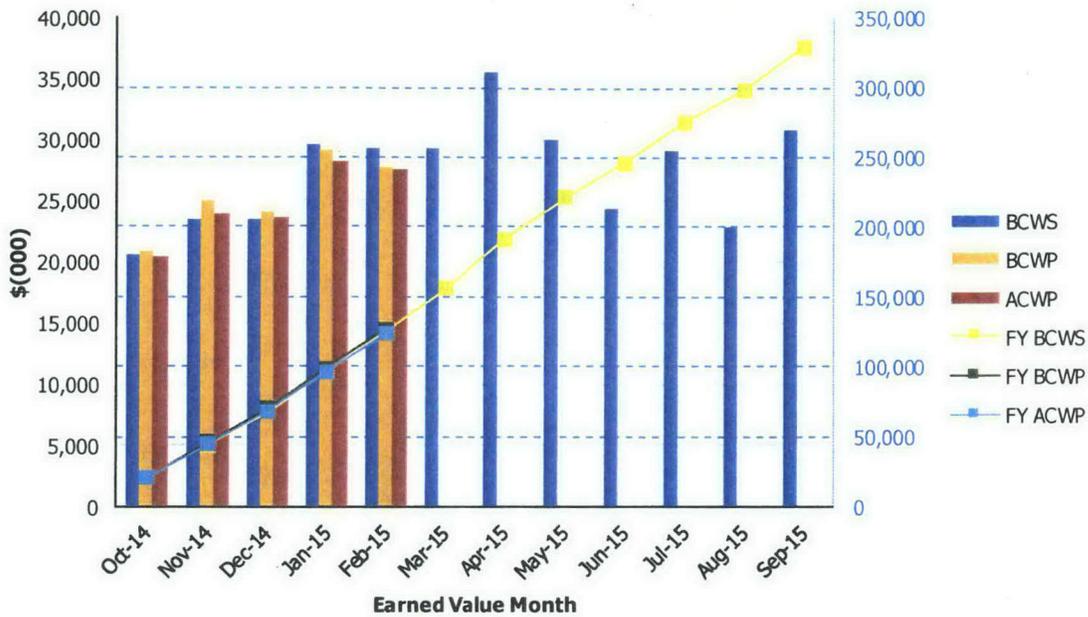
EVMS Monthly and Fiscal Year Values



| Earned Value Month | BCWS | BCWP | ACWP | SPI | CPI | FY BCWS | FY BCWP | FY ACWP | FY SPI | FY CPI |
|--------------------|-------------|-------------|-------------|------|------|-----------|-----------|-----------|--------|--------|
| Oct 2014 | \$30,052 | \$30,480 | \$29,607 | 1.01 | 1.03 | \$30,052 | \$30,480 | \$29,607 | 1.01 | 1.03 |
| Nov 2014 | \$35,246 | \$35,697 | \$36,417 | 1.01 | 0.98 | \$65,298 | \$66,178 | \$66,024 | 1.01 | 1.00 |
| Dec 2014 | \$36,377 | \$35,858 | \$33,978 | 0.99 | 1.06 | \$101,675 | \$102,036 | \$100,002 | 1.00 | 1.02 |
| Jan 2015 | \$45,083 | \$40,697 | \$41,603 | 0.90 | 0.98 | \$146,757 | \$142,733 | \$141,605 | 0.97 | 1.01 |
| Feb 2015 | \$42,913 | \$39,189 | \$39,643 | 0.91 | 0.99 | \$189,671 | \$181,922 | \$181,248 | 0.96 | 1.00 |
| Mar 2015 | \$40,086 | | | | | \$229,756 | | | | |
| Apr 2015 | \$40,835 | | | | | \$270,591 | | | | |
| May 2015 | \$38,696 | | | | | \$309,287 | | | | |
| Jun 2015 | \$32,903 | | | | | \$342,190 | | | | |
| Jul 2015 | \$39,299 | | | | | \$381,489 | | | | |
| Aug 2015 | \$30,193 | | | | | \$411,682 | | | | |
| Sep 2015 | \$40,628 | | | | | \$452,310 | | | | |
| CTD | \$2,533,576 | \$2,500,402 | \$2,482,193 | 0.99 | 1.01 | | | | | |

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

EVMS Monthly and Fiscal Year Values



| Earned Value Month | BCWS | BCWP | ACWP | SPI | CPI | FY BCWS | FY BCWP | FY ACWP | FY SPI | FY CPI |
|--------------------|-------------|-------------|-------------|------|------|-----------|-----------|-----------|--------|--------|
| Oct 2014 | \$20,627 | \$20,833 | \$20,428 | 1.01 | 1.02 | \$20,627 | \$20,833 | \$20,428 | 1.01 | 1.02 |
| Nov 2014 | \$23,471 | \$24,930 | \$23,988 | 1.06 | 1.04 | \$44,098 | \$45,762 | \$44,417 | 1.04 | 1.03 |
| Dec 2014 | \$23,467 | \$24,105 | \$23,547 | 1.03 | 1.02 | \$67,565 | \$69,867 | \$67,964 | 1.03 | 1.03 |
| Jan 2015 | \$29,511 | \$29,162 | \$28,218 | 0.99 | 1.03 | \$97,075 | \$99,029 | \$96,181 | 1.02 | 1.03 |
| Feb 2015 | \$29,299 | \$27,739 | \$27,582 | 0.95 | 1.01 | \$126,375 | \$126,768 | \$123,764 | 1.00 | 1.02 |
| Mar 2015 | \$29,267 | | | | | \$155,641 | | | | |
| Apr 2015 | \$35,582 | | | | | \$191,223 | | | | |
| May 2015 | \$30,043 | | | | | \$221,266 | | | | |
| Jun 2015 | \$24,437 | | | | | \$245,703 | | | | |
| Jul 2015 | \$29,176 | | | | | \$274,879 | | | | |
| Aug 2015 | \$22,875 | | | | | \$297,754 | | | | |
| Sep 2015 | \$30,751 | | | | | \$328,505 | | | | |
| CTD | \$1,663,803 | \$1,652,611 | \$1,631,448 | 0.99 | 1.01 | | | | | |

Base Operations and Tank Farm Projects

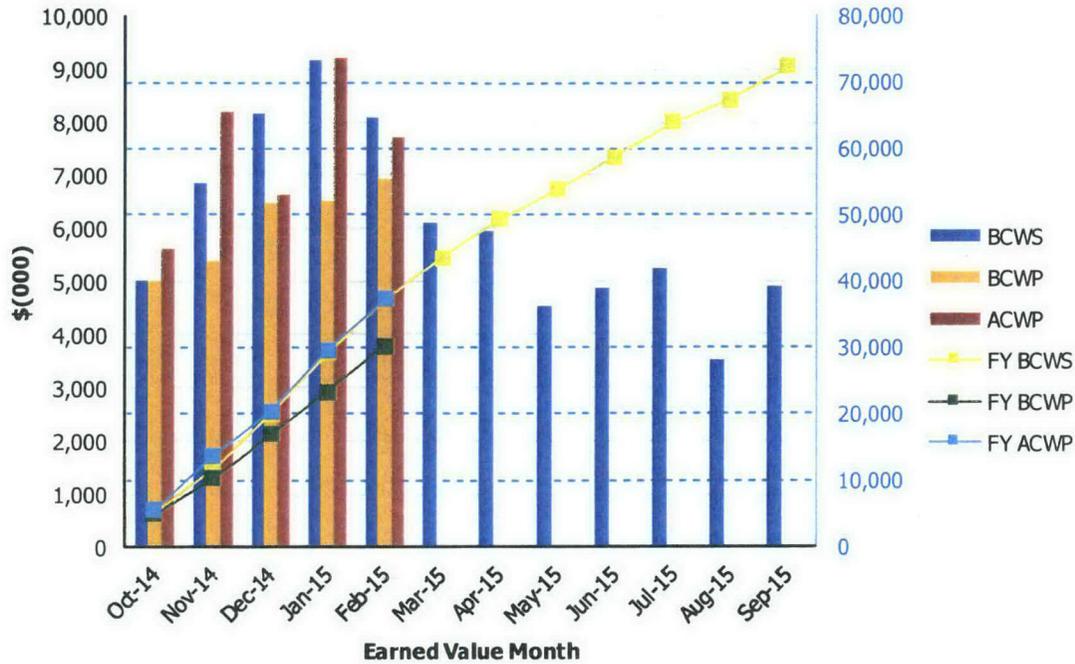
The current month unfavorable schedule variance (SV) of **(\$1,560K)** is due to the following:

- Delay of the SY-103 Core Sample due to inoperability of the drill string.
- SST Intrusion Mitigation due to delayed fabrication of components for SST T-111 Portable Exhauster
- AY-102 Procurement delays.
- AP Exhauster Installation due to additional vendor modifications.

The current month favorable cost variance (CV) of \$157K is within the reporting thresholds

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

EVMS Monthly and Fiscal Year Values



| Earned Value Month | BCWS | BCWP | ACWP | SPI | CPI | FY BCWS | FY BCWP | FY ACWP | FY SPI | FY CPI |
|--------------------|-----------|-----------|-----------|------|------|----------|----------|----------|--------|--------|
| Oct 2014 | \$5,024 | \$5,011 | \$5,609 | 1.00 | 0.89 | \$5,024 | \$5,011 | \$5,609 | 1.00 | 0.89 |
| Nov 2014 | \$6,852 | \$5,392 | \$8,174 | 0.79 | 0.66 | \$11,876 | \$10,403 | \$13,783 | 0.88 | 0.75 |
| Dec 2014 | \$8,171 | \$6,453 | \$6,612 | 0.79 | 0.98 | \$20,047 | \$16,856 | \$20,395 | 0.84 | 0.83 |
| Jan 2015 | \$9,167 | \$6,524 | \$9,195 | 0.71 | 0.71 | \$29,215 | \$23,380 | \$29,589 | 0.80 | 0.79 |
| Feb 2015 | \$8,075 | \$6,924 | \$7,719 | 0.86 | 0.90 | \$37,290 | \$30,304 | \$37,309 | 0.81 | 0.81 |
| Mar 2015 | \$6,095 | | | | | \$43,385 | | | | |
| Apr 2015 | \$5,926 | | | | | \$49,311 | | | | |
| May 2015 | \$4,509 | | | | | \$53,819 | | | | |
| Jun 2015 | \$4,852 | | | | | \$58,671 | | | | |
| Jul 2015 | \$5,238 | | | | | \$63,909 | | | | |
| Aug 2015 | \$3,527 | | | | | \$67,436 | | | | |
| Sep 2015 | \$4,886 | | | | | \$72,322 | | | | |
| CTD | \$542,789 | \$525,721 | \$546,652 | 0.97 | 0.96 | | | | | |

Retrieval and Close Single-Shell Tanks

The current month unfavorable cost variance (CV) of (\$795K) is due to:

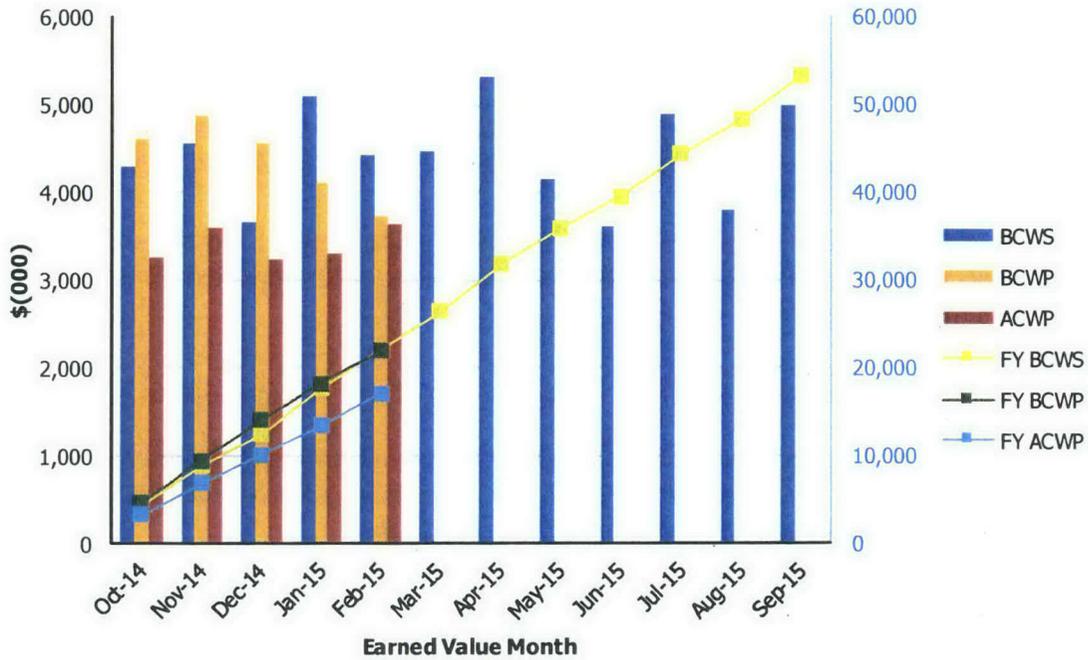
- C-102 Retrieval operations were suspended during the installation of a second ERSS in riser 2; a majority of work performance within C-Farm based on retrieved waste (per gallon).
- Several stop work orders were issued related to water softener beads being found on masks after they had been cleaned; these stop work order impacted projects costs related to field activities within C-Farm.

The current month unfavorable schedule variance (SV) of (\$1,151K) is due to:

- C-Farm encountered several SCBA related stop work orders that were issued due to water softener beads being found on masks after they had been cleaned; these stop work orders delayed the progress of planned field activities.
- A/AX design for supporting facilities (personnel/bathroom/change trailers) did not progress as planned due to other higher priorities.

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

EVMS Monthly and Fiscal Year Values



| Earned Value Month | BCWS | BCWP | ACWP | SPI | CPI | FY BCWS | FY BCWP | FY ACWP | FY SPI | FY CPI |
|--------------------|-----------|-----------|-----------|------|------|----------|----------|----------|--------|--------|
| Oct 2014 | \$4,277 | \$4,605 | \$3,261 | 1.08 | 1.41 | \$4,277 | \$4,605 | \$3,261 | 1.08 | 1.41 |
| Nov 2014 | \$4,549 | \$4,876 | \$3,585 | 1.07 | 1.36 | \$8,826 | \$9,480 | \$6,846 | 1.07 | 1.38 |
| Dec 2014 | \$3,652 | \$4,559 | \$3,229 | 1.25 | 1.41 | \$12,478 | \$14,040 | \$10,075 | 1.13 | 1.39 |
| Jan 2015 | \$5,101 | \$4,113 | \$3,308 | 0.81 | 1.24 | \$17,579 | \$18,152 | \$13,383 | 1.03 | 1.36 |
| Feb 2015 | \$4,413 | \$3,734 | \$3,636 | 0.85 | 1.03 | \$21,992 | \$21,887 | \$17,019 | 1.00 | 1.29 |
| Mar 2015 | \$4,459 | | | | | \$26,450 | | | | |
| Apr 2015 | \$5,327 | | | | | \$31,778 | | | | |
| May 2015 | \$4,145 | | | | | \$35,923 | | | | |
| Jun 2015 | \$3,615 | | | | | \$39,538 | | | | |
| Jul 2015 | \$4,882 | | | | | \$44,419 | | | | |
| Aug 2015 | \$3,792 | | | | | \$48,211 | | | | |
| Sep 2015 | \$4,991 | | | | | \$53,202 | | | | |
| CTD | \$298,561 | \$294,460 | \$277,364 | 0.99 | 1.06 | | | | | |

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

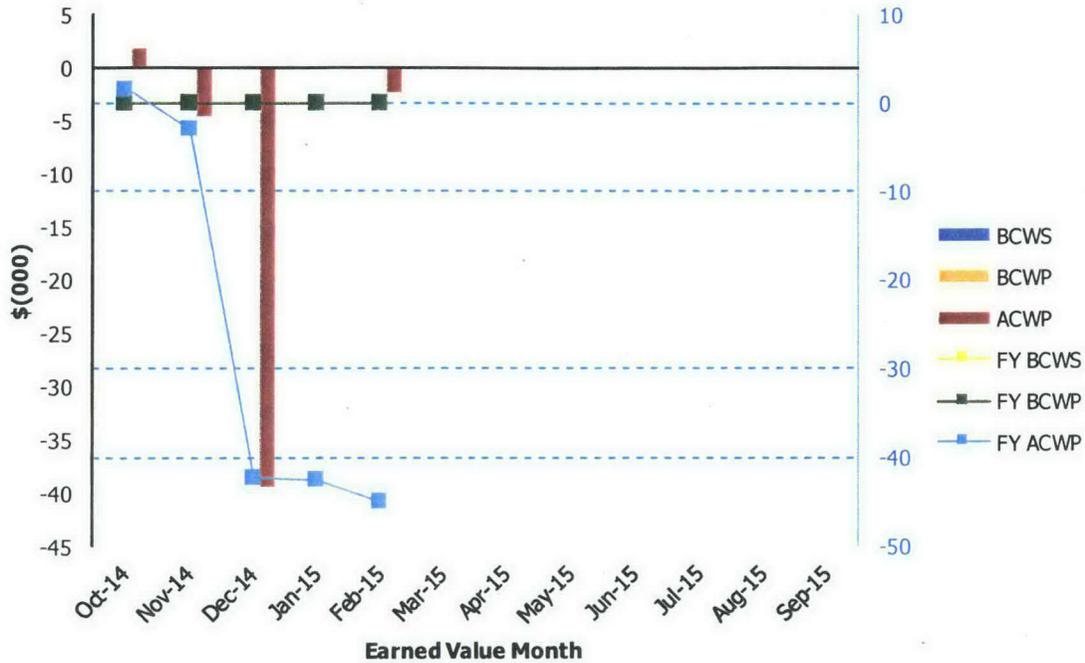
The current month unfavorable schedule variance (SV) of (\$679K) is due to:

- Delays of the Secondary Waste Form Testing to be performed by PNNL due to longer than anticipated time for the procurement process.
- Delays of the Formulation Development and Actual Waste testing for Low Temperature Waste forms to be performed by SNRL due to implementing the new ICP process.
- Delay of the start of a study on Tank Waste Characterization and Storage.

The current month favorable cost variance (CV) of \$98K is within the reporting threshold.

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

EVMS Monthly and Fiscal Year Values



| Earned Value Month | BCWS | BCWP | ACWP | SPI | CPI | FY BCWS | FY BCWP | FY ACWP | FY SPI | FY CPI |
|--------------------|----------|----------|----------|------|------|---------|---------|---------|--------|--------|
| Oct 2014 | \$0 | \$0 | \$2 | 0.00 | 0.00 | \$0 | \$0 | \$2 | 0.00 | 0.00 |
| Nov 2014 | \$0 | \$0 | (\$5) | 0.00 | 0.00 | \$0 | \$0 | (\$3) | 0.00 | 0.00 |
| Dec 2014 | \$0 | \$0 | (\$39) | 0.00 | 0.00 | \$0 | \$0 | (\$42) | 0.00 | 0.00 |
| Jan 2015 | \$0 | \$0 | \$0 | 0.00 | 0.00 | \$0 | \$0 | (\$43) | 0.00 | 0.00 |
| Feb 2015 | \$0 | \$0 | -\$2 | 0.00 | 0.00 | \$0 | \$0 | (\$45) | 0.00 | 0.00 |
| Mar 2015 | \$0 | | | | | | | | | |
| Apr 2015 | \$0 | | | | | | | | | |
| May 2015 | \$0 | | | | | | | | | |
| Jun 2015 | \$0 | | | | | | | | | |
| Jul 2015 | \$0 | | | | | | | | | |
| Aug 2015 | \$0 | | | | | | | | | |
| Sep 2015 | \$0 | | | | | | | | | |
| CTD | \$20,110 | \$20,110 | \$19,132 | 1.00 | 1.05 | | | | | |

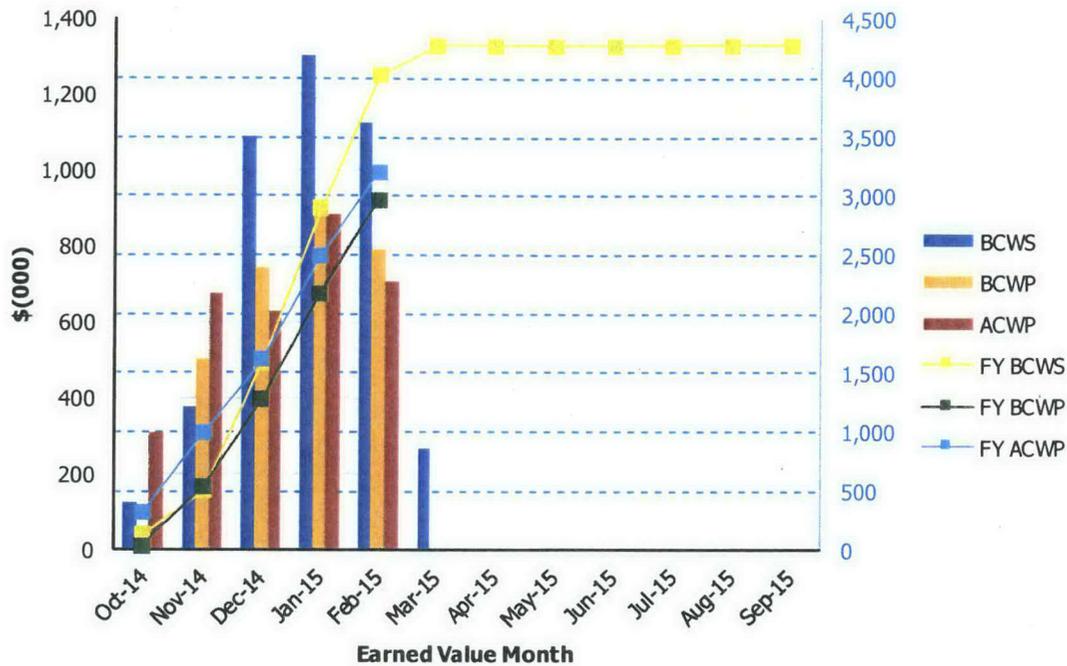
Supplemental Treatment

The current month favorable schedule variance (SV) of \$0K is within the reporting threshold.

The current month favorable cost variance (CV) of \$0K is within the reporting threshold.

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

EVMS Monthly and Fiscal Year Values



| Earned Value Month | BCWS | BCWP | ACWP | SPI | CPI | FY BCWS | FY BCWP | FY ACWP | FY SPI | FY CPI |
|--------------------|---------|---------|---------|------|------|---------|---------|---------|--------|--------|
| Oct 2014 | \$124 | \$32 | \$308 | 0.26 | 0.10 | \$124 | \$32 | \$308 | 0.26 | 0.10 |
| Nov 2014 | \$374 | \$500 | \$674 | 1.34 | 0.74 | \$498 | \$532 | \$982 | 1.07 | 0.54 |
| Dec 2014 | \$1,087 | \$741 | \$628 | 0.68 | 1.18 | \$1,585 | \$1,273 | \$1,610 | 0.80 | 0.79 |
| Jan 2015 | \$1,304 | \$899 | \$883 | 0.69 | 1.02 | \$2,889 | \$2,172 | \$2,493 | 0.75 | 0.87 |
| Feb 2015 | \$1,126 | \$792 | \$707 | 0.70 | 1.12 | \$4,015 | \$2,964 | \$3,200 | 0.74 | 0.93 |
| Mar 2015 | \$267 | | | | | \$4,282 | | | | |
| Apr 2015 | \$0 | | | | | \$4,282 | | | | |
| May 2015 | \$0 | | | | | \$4,282 | | | | |
| Jun 2015 | \$0 | | | | | \$4,282 | | | | |
| Jul 2015 | \$0 | | | | | \$4,282 | | | | |
| Aug 2015 | \$0 | | | | | \$4,282 | | | | |
| Sep 2015 | \$0 | | | | | \$4,282 | | | | |
| CTD | \$8,314 | \$7,510 | \$7,597 | 0.90 | 0.99 | | | | | |

Treat Waste

The current month unfavorable schedule variance (SV) of **(\$342K)** is due to:

- LAWPS Conceptual Design - Delays for the development of white papers for procurement strategy, lag storage tanks, process calculations, cross-flow filtration and impact analysis of 420.1C, DOE order 3009 and Integrated Scale Test are being performed to support Preliminary design once authorized.

The current month favorable cost variance (CV) of \$85K is within the reporting threshold.

Work Breakdown Structure 5.2 Retrieve and Close Single-Shell Tanks

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

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

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

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

M-045-56J, Complete Implementation of Agreed to Interim Measures, Due: July 31, 2014, Status: Complete. The M-045-56 annual meeting was held on July 22, 2014 and meeting minutes have been entered into the Administrative Record.

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

M-045-59, Control surface water infiltration pathways as needed to control or significantly reduce the likelihood of migration of subsurface contamination to groundwater at the SST Waste Management Areas (WMA) (pending the Corrective Measures Study report, Milestone M-45-58, and implementation of other interim corrective measures), Due: To be determined, Status: On schedule.

M-045-61, Submit to Ecology in accordance with the HFFACO Secondary document review process a Phase 2 RCRA Facility Investigation (RFI) Report Draft A for WMA Area C (WMA-C), Due: December 31, 2014, Status: Complete. The Phase 2 RCRA Facility Investigation Report Draft A for WMA-C, RPP-RPT-58339, was transmitted to Ecology on December 23, 2014, via letter 14-TF-0131. This milestone was modified by HFFACO change package M-45-14-03, signed October 1, 2014.

M-045-61A, Submit to Ecology for review and approval as an Agreement primary document, document review process, a Phase 2 Corrective Measures Study, and revision 0 update to the RFI Report for WMA-C, Due: December 31, 2016, Status: On Schedule. The Phase 2 RCRA Facility Investigation Report Draft A for WMA-C, RPP-RPT-58339, was

transmitted to Ecology on December 23, 2014, via letter 14-TF-0131. This milestone was created by HFFACO change package M-45-14-03, signed October 1, 2014.

M-045-62, Submit to Ecology for review and approval as an agreement primary document a Phase 2 Corrective Measures Study Implementation Plan for WMA-C, Due: June 30, 2015, Status: To be missed. Please see issues. TPA Change Control form M-45-15-02 submitted via letter 15-TF-0018 on March 31, 2015. APPROVED YESTERDAY

M-045-92, Complete Installation of Four (4) Additional Interim Barriers (see interim milestones below), Due: October 31, 2017, Status: On schedule. TPA Change Control form M-45-15-01 submitted via letter 15-TF-0027 on March 31, 2015.

M-045-92N, Construct Barriers 1 and 2 in 241-SX Farm, Due: October 31, 2015, Status: On schedule. TPA Change Control form M-45-15-01 submitted via letter 15-TF-0027 on March 31, 2015.

M-045-92O, Submit a Final Design and Monitoring Plan for Interim Barrier 3, Due: June 30, 2015, Status: On schedule. TPA Change Control form M-45-15-01 submitted via letter 15-TF-0027 on March 31, 2015.

Significant Past Accomplishments:

- Automated data collection systems for T Farm and TY Farm interim barrier monitoring continue gathering data
- Documentation of the WMA-C Phase 2 Resource Conservation and Recovery Act Facility Investigation Report was completed, and RPP-RPT-58339 was transmitted to Ecology on December 23, 2014, completing M-045-61.

Significant Planned Actions in the Next 6 Months:

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

Issues:

- Change control form M-45-15-02 was submitted by ORP via letter 15-TF-0018 to Ecology for approval. The change control form proposed revising the M-045-62 Milestone date for submittal of the Corrective Measures Implementation Plan to six months after the Corrective Measures Study (CMS) is approved by Ecology. Milestone M-045-62 currently requires submittal of a Corrective Measure Implementation Plan prior to submittal of the CMS. This sequencing is incorrect as information from the CMS is needed for the development of the Corrective Measures Implementation Plan.
- Change control form M-45-15-01 was submitted by ORP via letter 15-TF-0027 to Ecology for approval. The change control form proposed modifying the due dates for construction of Barriers 1 and 2 and design and construction of Barriers 3 and 4. Construction of SX Barriers 1 and 2 has been delayed because ORP was required to shift resources to other higher priority, higher risk work scope, including among other things,

safety concerns. In addition, Ecology and ORP have yet to agree upon the locations for Barriers 3 and 4. It is proposed that Ecology and ORP discuss Barrier 3 and 4 locations during the M-045-56 Milestone annual interim measure meetings held by the end of July 2015.

SST Retrieval and Closure Program

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

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

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

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

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

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

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

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

Significant Past Accomplishments:

- Submitted the Retrieval Data Report for C-110
- Completed post-retrieval logging of the drywells near C-104, C-109, and C-110 to support the retrieval data reports
- Completed the post-retrieval sample analysis and reporting for tank C-107, in support of the Retrieval Data Report.
- See discussions above and related discussions in Consent Decree report.

Significant Planned Activities in the Next 6 Months:

- Complete scoping meetings for a performance assessment for WMA A/AX.

Issues:

TPA Change Control form M-45-15-02 submitted via letter 15-TF-0018 on March 31, 2015, addressing the Corrective Measures Implementation Plan, M-045-62. ORP and Ecology continue to meet to develop an integrated path forward that addresses all the deliverables associated with Milestone M-045-82.

Tank Waste Retrieval Work Plan Status

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

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

Significant Accomplishments:

None.

Significant Planned Activities in the Next 6 Months:

Draft AX Farm TWRWPs.

Issues:

None.

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

Tank 241-C-106

Significant Past Accomplishments:

None.

Significant Planned Activities in the Next 6 Months:

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

Issues:

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

Tank Retrievals with Individual Milestones

Tank 241-A-103

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

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

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

Significant Past Accomplishments:

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

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

Tank 241-S-112

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

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

Significant Past Accomplishments:

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

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

FINAL

Office of River Protection
Consent Decree 08-5085-FVS

Monthly Summary Report

April 2015

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

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

CD Milestone Statistics/Status

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

Ecology = Washington State Department of Ecology.

LAW = low-activity waste.

PT = pretreatment.

SST = single-shell tank.

WMA-C = C Farm waste management area.

Consent Decree Reports/Reviews

D-00C-01 series, Submit to State of Washington and State of Oregon Semi-Annual Report, Due: Semiannually – January 31 and July 31 of each year, Status: Ongoing. The January 2015 Semiannual Report was issued on January 29, 2015, via U.S. Department of Energy (DOE), Office of River Protection (ORP) letter 15-ECD-0006.

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

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

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

Single-Shell Tank Retrieval Program

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

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

TBD = to be determined.
WMA-C = C Farm waste management area.

Significant Past Accomplishments:

- Completed installation a new Enhanced Reach Sluicer System in Riser 2 for C-102, restarted retrieval operations.
- Continued field activities for the replacement of the plugged slurry distributor at AN-106.
- Hose-in-hose transfer line replacement between POR209 and POR104 transfer structures is ongoing. Connection of the new hose-in-hose transfer lines at POR209 and POR104 are complete. Leak check of these connections will be done concurrently with the leak check of the new slurry distributor when installation is complete.
- Continued fabrication of new replacement sluicers for C-111.
- Continued with activities to replace the failed C-111 slurry pump.

Significant Planned Activities in the Next 6 Months:

- Complete retrieval of C-102 using modified sluicing (first technology), initiate second technology using high pressure water for retrieval. Complete retrieval using second technology.
- Finish a C-105 systems engineering evaluation of the current retrieval method; will potentially need a revised tank waste retrieval work plan.

- Continue retrieval of C-105 using Mobile Arm Retrieval System – Vacuum.
- Begin startup of hard heel retrieval in C-111 using high-pressure water, with caustic/water dissolution available.

Issues:

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

Tank Waste Retrieval Work Plan Status

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

ERSS = Extended Reach Sluicing System.

MARS = Mobile Arm Retrieval System.

S = sluicing.

TWRWP = Tank Waste Retrieval Work Plan.

V = vacuum.

Significant Accomplishments:

None.

Significant Planned Activities in the Next 6 Months:

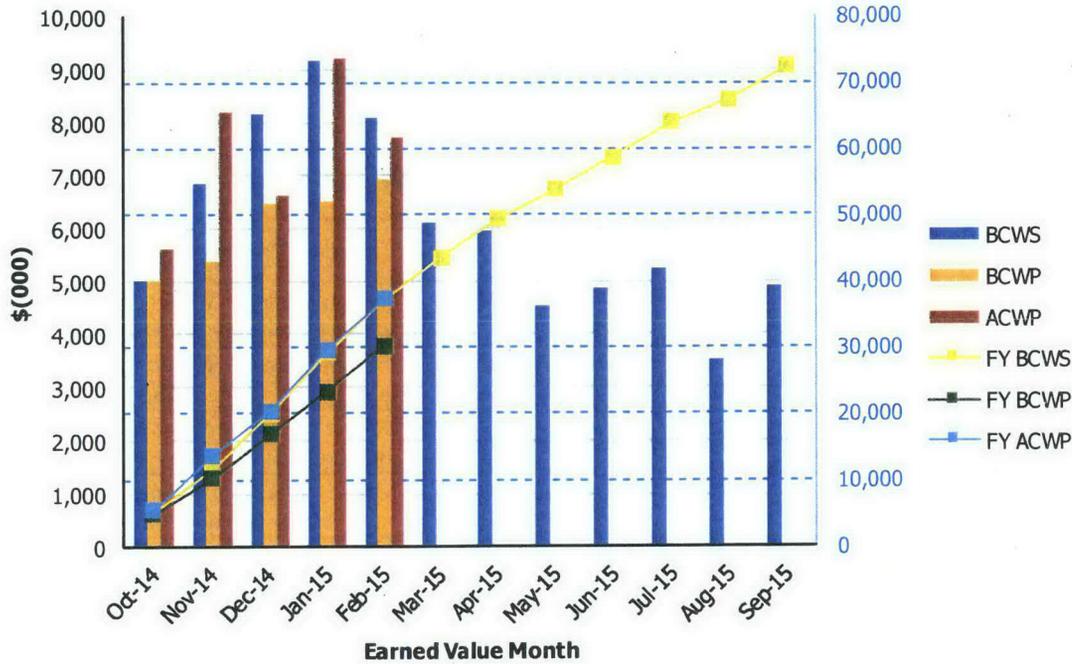
Develop AX Farm tank waste retrieval work plans.

Issues:

None.

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

EVMS Monthly and Fiscal Year Values



| Earned Value Month | BCWS | BCWP | ACWP | SPI | CPI | FY BCWS | FY BCWP | FY ACWP | FY SPI | FY CPI |
|--------------------|-----------|-----------|-----------|------|------|----------|----------|----------|--------|--------|
| Oct 2014 | \$5,024 | \$5,011 | \$5,609 | 1.00 | 0.89 | \$5,024 | \$5,011 | \$5,609 | 1.00 | 0.89 |
| Nov 2014 | \$6,852 | \$5,392 | \$8,174 | 0.79 | 0.66 | \$11,876 | \$10,403 | \$13,783 | 0.88 | 0.75 |
| Dec 2014 | \$8,171 | \$6,453 | \$6,612 | 0.79 | 0.98 | \$20,047 | \$16,856 | \$20,395 | 0.84 | 0.83 |
| Jan 2015 | \$9,167 | \$6,524 | \$9,195 | 0.71 | 0.71 | \$29,215 | \$23,380 | \$29,589 | 0.80 | 0.79 |
| Feb 2015 | \$8,075 | \$6,924 | \$7,719 | 0.86 | 0.90 | \$37,290 | \$30,304 | \$37,309 | 0.81 | 0.81 |
| Mar 2015 | \$6,095 | | | | | \$43,385 | | | | |
| Apr 2015 | \$5,926 | | | | | \$49,311 | | | | |
| May 2015 | \$4,509 | | | | | \$53,819 | | | | |
| Jun 2015 | \$4,852 | | | | | \$58,671 | | | | |
| Jul 2015 | \$5,238 | | | | | \$63,909 | | | | |
| Aug 2015 | \$3,527 | | | | | \$67,436 | | | | |
| Sep 2015 | \$4,886 | | | | | \$72,322 | | | | |
| CTD | \$542,789 | \$525,721 | \$546,652 | 0.97 | 0.96 | | | | | |

Retrieval and Close Single-Shell Tanks

The current month unfavorable cost variance of (\$795K) is due to:

- C-102 Retrieval operations were suspended during the installation of a second ERSS in riser 2; the earned value in C-102 is based on gallons retrieved during a monthly time period, and when maintenance and operational upgrade was performed to bring on high-pressure water the contractor earned no “value” during this time period.

- Several stop work orders were issued related to water softener beads being found on masks after they had been cleaned; these stop work order-impacted project costs related to field activities within C Farm.

The current month unfavorable schedule variance of (\$1,151K) is due to:

- C Farm encountered several self-contained breathing apparatus related stop work orders that were issued due to water softener beads being found on masks after they had been cleaned; these stop work orders delayed the progress of planned field activities.
- A/AX design for supporting facilities (personnel/bathroom/change trailers) did not progress as planned due to other higher priorities.

Waste Treatment and Immobilization Plant Project

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

WTP = Waste Treatment and Immobilization Plant.

The Waste Treatment and Immobilization Plant (WTP) Project currently employs approximately 2,782 full-time equivalent contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel. This includes 588 craft, 425 nonmanual, and 173 subcontractor full-time equivalent personnel working at the WTP construction site (all facilities).

In October 2012, the Pretreatment (PT) and High-Level Waste (HLW) Facilities 2-Year Interim Work Plan was incorporated into the project over-target baseline, and the percent-complete values for PT and HLW facilities were frozen at the September 2012 rate. ORP has approved the fiscal year (FY) 2015 and FY 2016 2-Year Interim Work Plan, and authorized BNI to resume production engineering activities necessary to finalize the design of the HLW Facility. The WTP Project continues to focus on resolving PT Facility technical issues, performing hazard analyses, and completing safety evaluations for process systems. The HLW safety design strategy has been approved by ORP and limited construction is ongoing.

The WTP Project continues to focus on completion of the Low-Activity Waste (LAW) Facility, analytical laboratory (LAB), and Balance of Facilities (BOF) (collectively LBL). As of February 2015, LBL facilities were 65 percent complete, design and engineering was 78 percent complete, procurement was 74 percent complete, construction was 82 percent complete, and startup and commissioning was 13 percent complete.

In February 2015, the cumulative to-date WTP Project schedule variance was a negative \$2.2 million, and the cumulative to-date WTP Project cost variance was a positive \$29.3 million. The major contribution to the cumulative to-date cost and schedule variance is based on the progress of the LBL replan and PT/HLW 2-Year Interim Work Plan.

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

Significant Past Accomplishments:

- Approved trend to move the scope of the Emergency Turbine Generator from BOF into HLW scope
- All physical refractory work was completed in both melters (LAW)
- Completed and received approval of the PT Facility 3 year work plan to DOE
- Initiated coatings of the BOF Switchgear Building #91 transformers (2,040 sf) (BOF).

Significant Planned Actions in the Next 6 Months:

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

Issues:

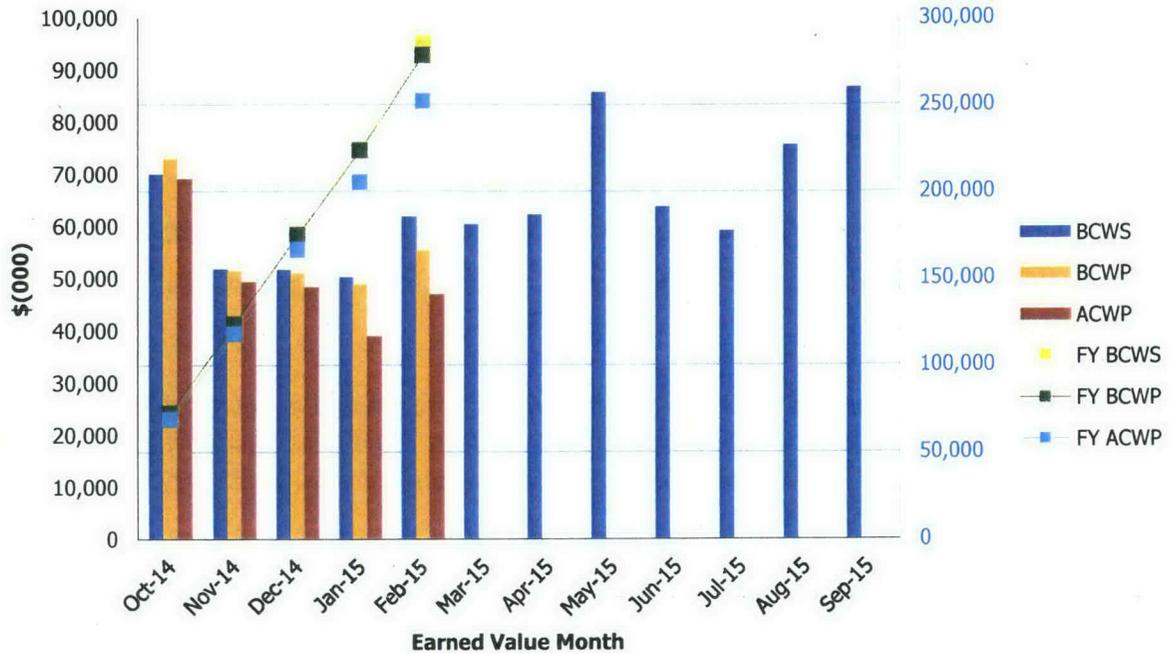
*DOE has notified the State of Washington and State of Oregon that a serious risk has arisen that DOE may be unable to meet this Consent Decree milestone. Technical issues related to WTP include, among others, PJMs, corrosion/erosion in piping and vessels, hydrogen accumulation, criticality, and ventilation.

Data Set: FY 2015 Earned Value Data

Data as of: February 2015

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

EVMS Monthly and Fiscal Year Values



| Earned Value Month | BCWS | BCWP | ACWP | SPI | CPI | FY BCWS | FY BCWP | FY ACWP | FY SPI | FY CPI |
|--------------------|--------------------|--------------------|--------------------|-------------|-------------|-----------|-----------|-----------|--------|--------|
| Oct 2014 | \$69,893 | \$72,879 | \$69,039 | 1.04 | 1.06 | \$69,893 | \$72,879 | \$69,039 | 1.04 | 1.06 |
| Nov 2014 | \$51,713 | \$51,323 | \$49,300 | 0.99 | 1.04 | \$121,606 | \$124,202 | \$118,339 | 1.02 | 1.05 |
| Dec 2014 | \$51,573 | \$50,885 | \$48,245 | 0.99 | 1.05 | \$173,179 | \$175,087 | \$166,583 | 1.01 | 1.05 |
| Jan 2015 | \$50,143 | \$48,696 | \$38,818 | 0.97 | 1.25 | \$223,323 | \$223,783 | \$205,401 | 1.00 | 1.09 |
| Feb 2015 | \$61,729 | \$55,235 | \$46,859 | 0.89 | 1.18 | \$285,052 | \$279,018 | \$252,260 | 0.98 | 1.11 |
| Mar 2015 | \$60,237 | | | | | | | | | |
| Apr 2015 | \$62,136 | | | | | | | | | |
| May 2015 | \$85,703 | | | | | | | | | |
| Jun 2015 | \$63,710 | | | | | | | | | |
| Jul 2015 | \$59,034 | | | | | | | | | |
| Aug 2015 | \$75,542 | | | | | | | | | |
| Sep 2015 | \$86,623 | | | | | | | | | |
| PTD | \$8,656,531 | \$8,654,356 | \$8,625,045 | 1.00 | 1.00 | | | | | |

Pretreatment Facility

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

PT = pretreatment.

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

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

Significant Past Accomplishments:

- Completed and received approval of the PT Facility 3 year work plan to DOE
- Issued plutonium chemistry study
- Completed Standard High Solids Vessels Design Phase 1 Testing
- Completed five G2 model runs in support to early decision on conceptual design per PT Facility optimization plan.

Significant Planned Actions in the Next 6 Months:

- Commission Phase 2 test specification/plan and platform modifications
- Finalize Standard High Solids Vessels Design vessel testing planning, test specification/plan, and define simulate and supplemental mixing engineering study
- Issue criticality safety evaluation report on informal study for the evaluation of qualitative risk assessment input parameters to be included in the PT Facility safety basis

- Issue criticality safety evaluation report strategy and development plan
- Implement PT Facility systems engineering approach
- Issue fluid dynamics study
- Start informational testing in 8-ft test vessel for down selection of features pertaining to standardized high-solids vessel design
- Complete preliminary analysis of Standard High Solids Vessels Design
- Commission Phase 2 platform modifications
- Issue corrosion simulant basis document for localized corrosion.

Issues:

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

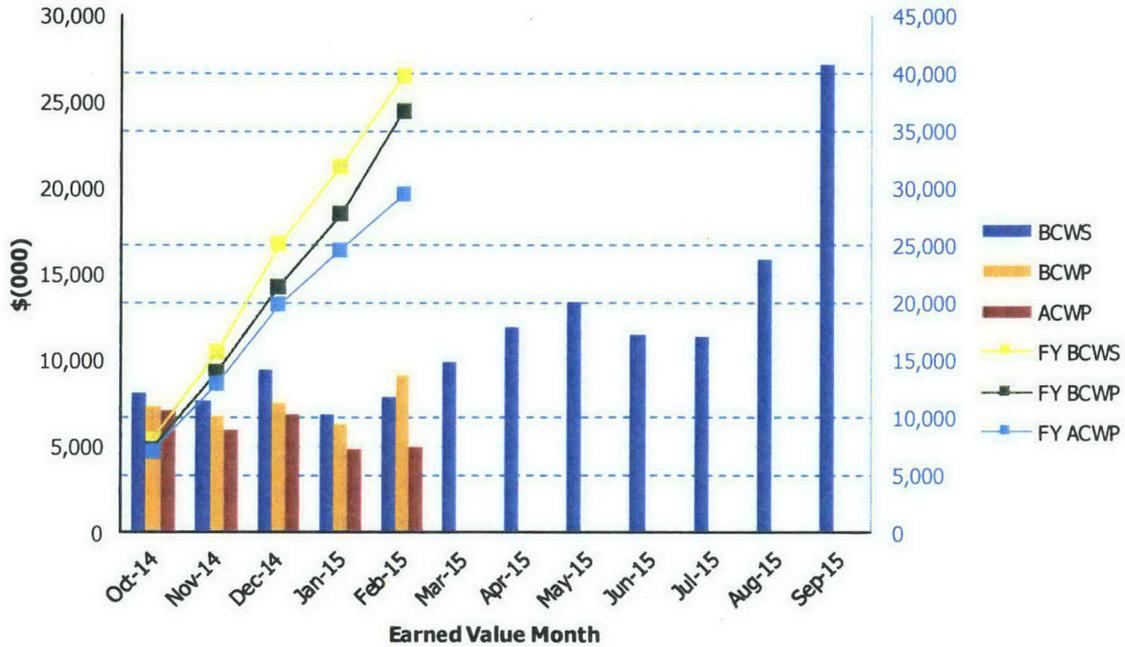
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2015 Earned Value Data

Data as of: February 2015

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

EVMS Monthly and Fiscal Year Values



| Earned Value Month | BCWS | BCWP | ACWP | SPI | CPI | FY BCWS | FY BCWP | FY ACWP | FY SPI | FY CPI |
|--------------------|----------|---------|---------|------|------|----------|----------|----------|--------|--------|
| Oct 2014 | \$8,100 | \$7,285 | \$7,050 | 0.90 | 1.03 | \$8,100 | \$7,285 | \$7,050 | 0.90 | 1.03 |
| Nov 2014 | \$7,582 | \$6,657 | \$5,917 | 0.88 | 1.13 | \$15,682 | \$13,942 | \$12,967 | 0.89 | 1.08 |
| Dec 2014 | \$9,361 | \$7,472 | \$6,841 | 0.80 | 1.09 | \$25,043 | \$21,414 | \$19,808 | 0.86 | 1.08 |
| Jan 2015 | \$6,819 | \$6,293 | \$4,765 | 0.92 | 1.32 | \$31,862 | \$27,707 | \$24,574 | 0.87 | 1.13 |
| Feb 2015 | \$7,877 | \$9,034 | \$4,869 | 1.15 | 1.86 | \$39,740 | \$36,742 | \$29,442 | 0.92 | 1.25 |
| Mar 2015 | \$9,855 | | | | | | | | | |
| Apr 2015 | \$11,871 | | | | | | | | | |
| May 2015 | \$13,298 | | | | | | | | | |
| Jun 2015 | \$11,457 | | | | | | | | | |
| Jul 2015 | \$11,322 | | | | | | | | | |
| Aug 2015 | \$15,755 | | | | | | | | | |
| Sep 2015 | \$27,165 | | | | | | | | | |

PTD \$1,646,411 \$1,643,360 \$1,636,069 1.00 1.00

| | |
|-----------|----------|
| Mon - SV | Mon - CV |
| \$1,157 | \$4,165 |
| | |
| (\$3,051) | \$7,291 |

| | |
|-----------|---------|
| FY - SV | FY - CV |
| (\$2,998) | \$7,299 |

High-Level Waste Facility

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

HLW = high-level waste.

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

As of September 2012, the HLW Facility was 62 percent complete overall, with engineering design 89 percent complete, procurement 81 percent complete, construction 43 percent complete, and startup and commissioning 4 percent complete. Construction, procurement, and production engineering activities have been significantly slowed down, resulting in minimal change to the percent completion status since September. Construction is continuing concrete placements and installation of support steel and crane rails in the canister handling cave.

Engineering release of upcoming wall and slab placements is ongoing providing for a continuous construction workflow. DOE and BNI are continuing to evaluate high-efficiency particulate air (HEPA) filter test data from Mississippi State University (MSU; Phase 1, Iteration 1), in addition to data from previous testing, to develop the path forward to proceed to Iteration 2 testing.

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

Significant Past Accomplishments:

- Issued six SDDs this month for a total of 11
- Continued development of path forward of MSU Phase 1, Iteration 2 HEPA filter test plan
- Approved trend to move the scope of the Emergency Turbine Generator from BOF into HLW scope
- Issued request for proposal for vendor design of RLD-8 vessel
- Issued request for proposal for fireproofing for HLW Annex structural steel

- Released six slabs (4001, 4002, 4003, 4004, 4012, 4032) to construction +58 ft
- Placed two slabs (4006, 4022) and two walls (3112, 3113)
- Installed 19 tons of structural steel.

Significant Planned Actions in the Next 6 Months:

- Issue the RLD Control Selection Report
- Submit the RLD Safety Basis Change Package for DOE review
- Initiate improved Nuclear Safety/Engineering analysis process
- Complete vendor fabrication of Autosampling System (ASX) units 29/42
- Perform vendor documentation reviews in preparation for the installation of ASX framing
- Evaluate ASX installation plan for impact to the Washington State Department of Ecology permit
- Continue installation of crane rails and supports in the canister handling cave
- Issue remaining outstanding SDDs
- Finalize and begin execution of MSU Phase 1, Iteration 2 HEPA filter test plan
- Initiate operational research modeling of waste, melter, and melter cave support handling systems.

Issues:

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

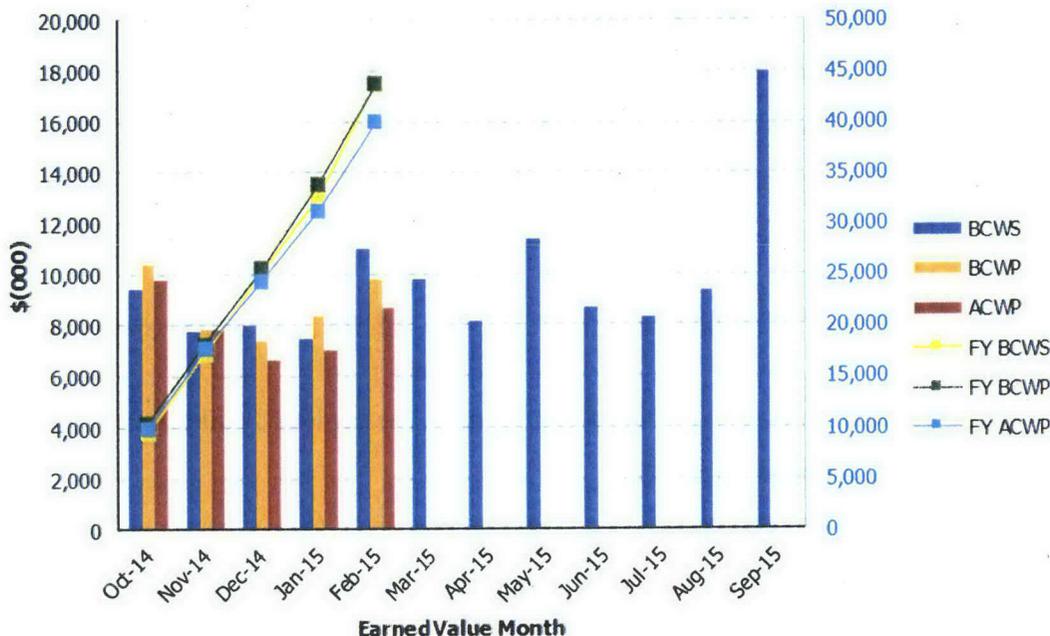
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2015 Earned Value Data

Data as of: February 2015

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

EVMS Monthly and Fiscal Year Values



| Earned Value Month | BCWS | BCWP | ACWP | SPI | CPI | FY BCWS | FY BCWP | FY ACWP | FY SPI | FY CPI |
|--------------------|----------|----------|---------|------|------|----------|----------|----------|--------|--------|
| Oct 2014 | \$9,449 | \$10,367 | \$9,783 | 1.10 | 1.06 | \$9,449 | \$10,367 | \$9,783 | 1.10 | 1.06 |
| Nov 2014 | \$7,743 | \$7,833 | \$7,880 | 1.01 | 0.99 | \$17,192 | \$18,200 | \$17,663 | 1.06 | 1.03 |
| Dec 2014 | \$7,973 | \$7,359 | \$6,631 | 0.92 | 1.11 | \$25,165 | \$25,559 | \$24,294 | 1.02 | 1.05 |
| Jan 2015 | \$7,490 | \$8,342 | \$6,994 | 1.11 | 1.19 | \$32,655 | \$33,901 | \$31,288 | 1.04 | 1.08 |
| Feb 2015 | \$10,995 | \$9,796 | \$8,662 | 0.89 | 1.13 | \$43,650 | \$43,698 | \$39,949 | 1.00 | 1.09 |
| Mar 2015 | \$9,792 | | | | | | | | | |
| Apr 2015 | \$8,151 | | | | | | | | | |
| May 2015 | \$11,369 | | | | | | | | | |
| Jun 2015 | \$8,688 | | | | | | | | | |
| Jul 2015 | \$8,290 | | | | | | | | | |
| Aug 2015 | \$9,315 | | | | | | | | | |
| Sep 2015 | \$17,990 | | | | | | | | | |

PTD \$1,097,763 \$1,098,069 \$1,094,011 1.00 1.00

| | |
|-----------|----------|
| Mon - SV | Mon - CV |
| (\$1,199) | \$1,135 |
| \$305 | \$4,058 |

| | |
|---------|---------|
| FY - SV | FY - CV |
| \$47 | \$3,748 |

Low-Activity Waste Facility

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

LAW = low-activity waste.

The LAW Facility will process LAW that will be mixed with glass formers, vitrified into glass at a design capacity of 30 metric tons per day, and placed in stainless steel containers anticipated to be disposed of on the Hanford Site in the Integrated Disposal Facility. As of February 2015, the LAW Facility was 69 percent complete overall, with engineering design 81 percent complete, procurement 76 percent complete, construction 78 percent complete, and startup and commissioning 9 percent complete.

Significant Past Accomplishments:

- All physical refractory work was completed in both melters
- Released Uninterruptable Power Source material requisition for award
- Released active gas analyzer material requisition for award
- Installed over 190 linear feet of process piping and hydro-tested 10 linear feet of piping
- Installed over 160 linear feet of conduit and pulled approximately 3,500 linear feet of cable.

Significant Planned Actions in the Next 6 Months:

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

Issues:

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

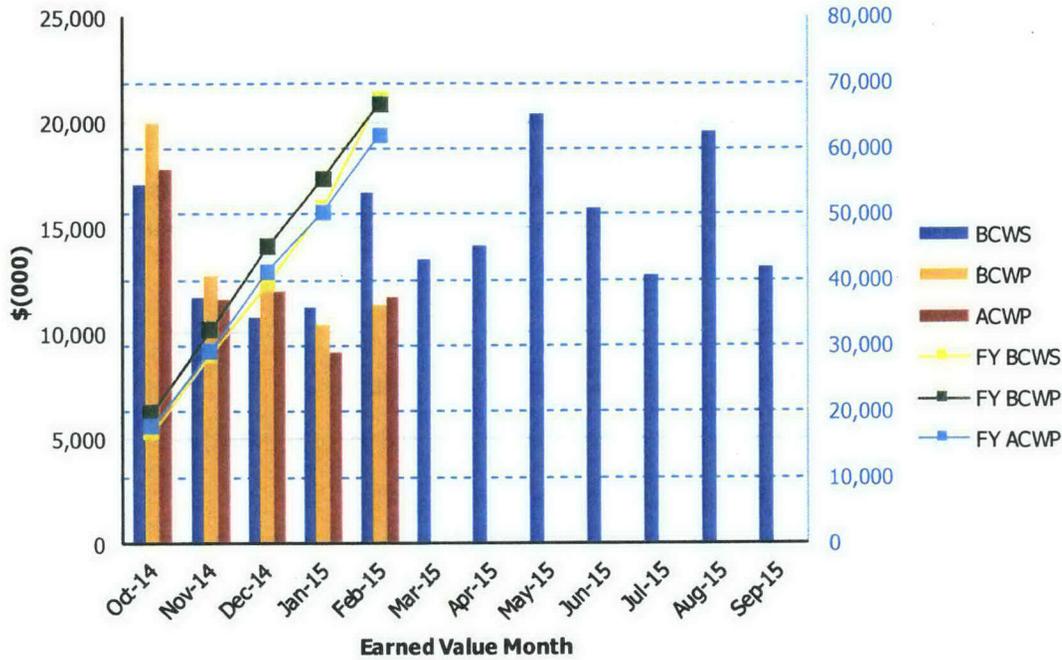
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2015 Earned Value Data

Data as of: February 2015

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

EVMS Monthly and Fiscal Year Values



| Earned Value Month | BCWS | BCWP | ACWP | SPI | CPI | FY BCWS | FY BCWP | FY ACWP | FY SPI | FY CPI |
|--------------------|-------------|-------------|-------------|------|------|----------|----------|----------|--------|--------|
| Oct 2014 | \$16,994 | \$19,896 | \$17,781 | 1.17 | 1.12 | \$16,994 | \$19,896 | \$17,781 | 1.17 | 1.12 |
| Nov 2014 | \$11,700 | \$12,666 | \$11,597 | 1.08 | 1.09 | \$28,694 | \$32,562 | \$29,378 | 1.13 | 1.11 |
| Dec 2014 | \$10,760 | \$12,499 | \$11,927 | 1.16 | 1.05 | \$39,454 | \$45,061 | \$41,305 | 1.14 | 1.09 |
| Jan 2015 | \$11,248 | \$10,387 | \$9,033 | 0.92 | 1.15 | \$50,702 | \$55,448 | \$50,338 | 1.09 | 1.10 |
| Feb 2015 | \$16,654 | \$11,341 | \$11,676 | 0.68 | 0.97 | \$67,356 | \$66,789 | \$62,014 | 0.99 | 1.08 |
| Mar 2015 | \$13,444 | | | | | | | | | |
| Apr 2015 | \$14,118 | | | | | | | | | |
| May 2015 | \$20,343 | | | | | | | | | |
| Jun 2015 | \$15,877 | | | | | | | | | |
| Jul 2015 | \$12,705 | | | | | | | | | |
| Aug 2015 | \$19,548 | | | | | | | | | |
| Sep 2015 | \$13,062 | | | | | | | | | |
| PTD | \$1,041,550 | \$1,043,790 | \$1,040,182 | 1.00 | 1.00 | | | | | |

Balance of Facilities

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

The BOF will provide services and utilities to support operation of the main production facilities: PT, HLW, LAW, and LAB. As of February 2015, BOF was 58 percent complete overall, with engineering design 78 percent complete, procurement 67 percent complete, construction 83 percent complete, and startup and commissioning 14 percent complete.

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

Significant Past Accomplishments:

- Continued coatings applications for Steam Plant piping
- Initiated coatings of the BOF Switchgear Building #91 transformers
- Installed over 110 linear feet of conduit and pulled approximately 60 linear feet of cable.

Significant Planned Actions in the Next 6 Months:

- Complete heat trace insulation in the Cooling Tower Facility
- Complete heat trace insulation in the water treatment building
- Receive and install nonradioactive liquid waste disposal system motor control panel
- Complete component testing of the low-voltage, medium-voltage, and fire detection systems for switchgear Buildings 87 and 91.

Issues:

No major issues at this time.

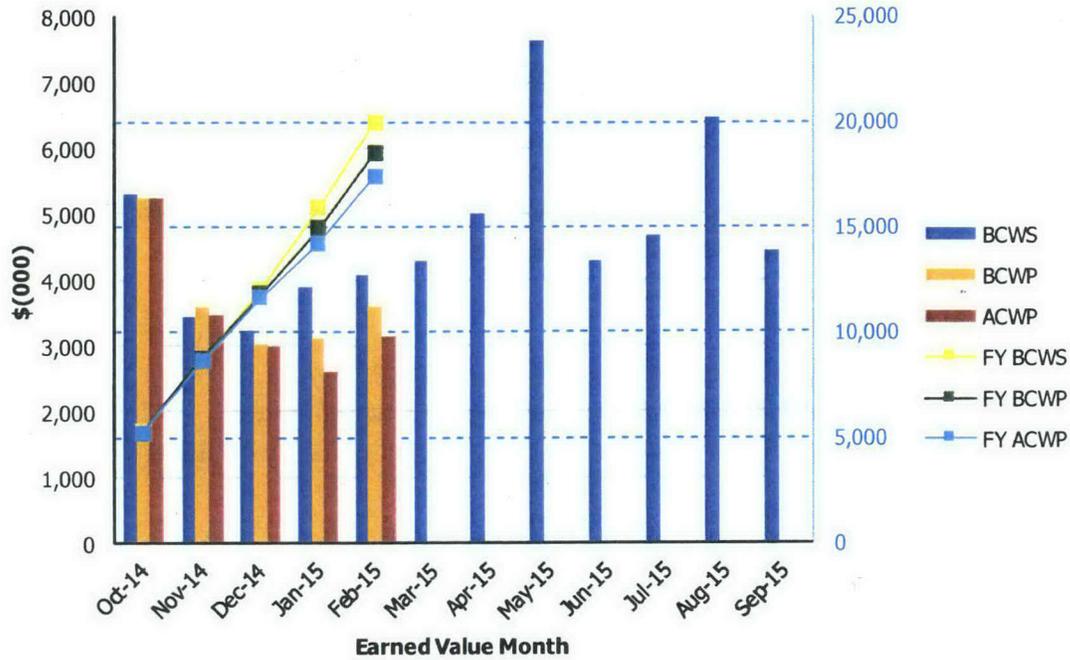
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2015 Earned Value Data

Data as of: February 2015

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

EVMS Monthly and Fiscal Year Values



| Earned Value Month | BCWS | BCWP | ACWP | SPI | CPI | FY BCWS | FY BCWP | FY ACWP | FY SPI | FY CPI |
|--------------------|-----------|-----------|-----------|------|------|----------|----------|----------|--------|--------|
| Oct 2014 | \$5,300 | \$5,238 | \$5,223 | 0.99 | 1.00 | \$5,300 | \$5,238 | \$5,223 | 0.99 | 1.00 |
| Nov 2014 | \$3,429 | \$3,578 | \$3,454 | 1.04 | 1.04 | \$8,729 | \$8,816 | \$8,677 | 1.01 | 1.02 |
| Dec 2014 | \$3,240 | \$3,023 | \$2,976 | 0.93 | 1.02 | \$11,969 | \$11,839 | \$11,653 | 0.99 | 1.02 |
| Jan 2015 | \$3,885 | \$3,098 | \$2,584 | 0.80 | 1.20 | \$15,854 | \$14,937 | \$14,237 | 0.94 | 1.05 |
| Feb 2015 | \$4,074 | \$3,578 | \$3,151 | 0.88 | 1.14 | \$19,928 | \$18,515 | \$17,388 | 0.93 | 1.06 |
| Mar 2015 | \$4,270 | | | | | | | | | |
| Apr 2015 | \$4,982 | | | | | | | | | |
| May 2015 | \$7,617 | | | | | | | | | |
| Jun 2015 | \$4,265 | | | | | | | | | |
| Jul 2015 | \$4,679 | | | | | | | | | |
| Aug 2015 | \$6,476 | | | | | | | | | |
| Sep 2015 | \$4,425 | | | | | | | | | |
| PTD | \$366,595 | \$365,614 | \$364,518 | 1.00 | 1.00 | | | | | |

Analytical Laboratory

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

LAB = Analytical Laboratory.

The LAB will support WTP operations by analyzing feed, vitrified waste, and effluent streams. As of February 2015, the LAB was 75 percent complete overall, with engineering design 83 percent complete, procurement 87 percent complete, construction 94 percent complete, and startup and commissioning 20 percent complete.

During this reporting period engineering efforts were focused on closure of nonconformance reports and construction deficiency reports. The remaining LAB construction workscope is minimal and construction efforts in the LAB will be suspended. The remaining construction workscope will be completed in parallel with system modifications and construction activities required to support direct feed of LAW.

Significant Past Accomplishments:

- Continued cable pulls and terminations (1,000 linear feet in February)
- Continued installation of conduit (250 linear feet in February)
- Subcontractor installed/adjusted 58 lateral restraints and 18 hangers in accordance with Uniform Building Code flooding requirements.

Significant Planned Actions in the Next 6 Months:

- Place LAB construction punchlist activities on hold
- Initiate component level testing of select LAB systems
- Begin LAB system walkdowns in support of direct feed LAW modifications
- Begin analytical methods development.

Issues:

No major issues at this time.

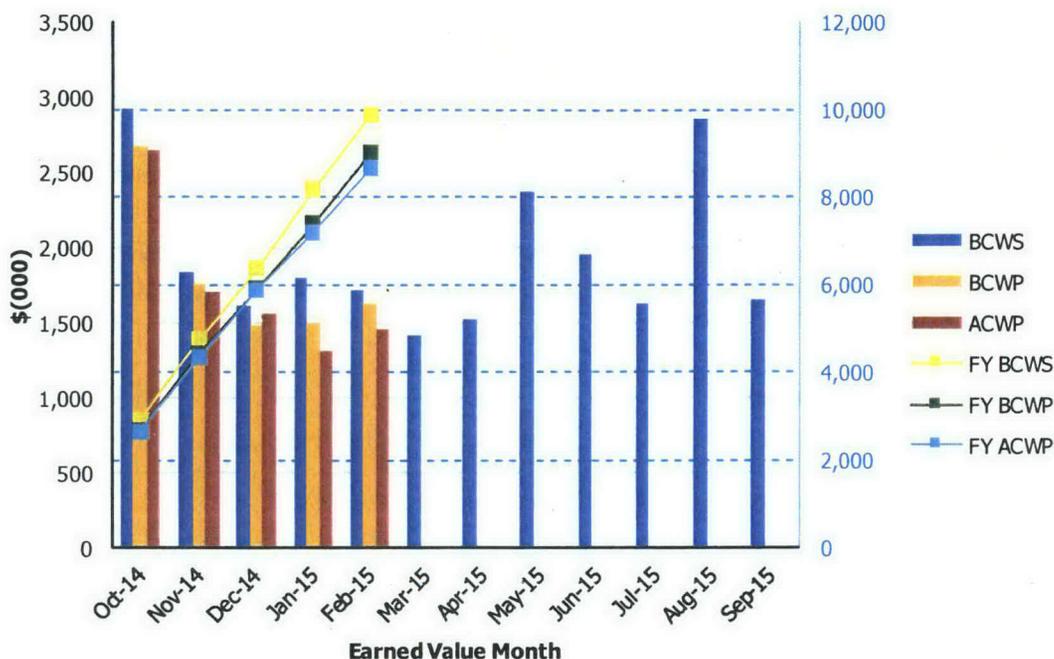
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2015 Earned Value Data

Data as of: February 2015

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

EVMS Monthly and Fiscal Year Values



| Earned Value Month | BCWS | BCWP | ACWP | SPI | CPI | FY BCWS | FY BCWP | FY ACWP | FY SPI | FY CPI |
|--------------------|-----------|-----------|-----------|------|------|---------|---------|---------|--------|--------|
| Oct 2014 | \$2,920 | \$2,670 | \$2,645 | 0.91 | 1.01 | \$2,920 | \$2,670 | \$2,645 | 0.91 | 1.01 |
| Nov 2014 | \$1,827 | \$1,748 | \$1,695 | 0.96 | 1.03 | \$4,747 | \$4,418 | \$4,340 | 0.93 | 1.02 |
| Dec 2014 | \$1,614 | \$1,482 | \$1,552 | 0.92 | 0.95 | \$6,361 | \$5,900 | \$5,892 | 0.93 | 1.00 |
| Jan 2015 | \$1,788 | \$1,490 | \$1,304 | 0.83 | 1.14 | \$8,149 | \$7,390 | \$7,196 | 0.91 | 1.03 |
| Feb 2015 | \$1,716 | \$1,618 | \$1,447 | 0.94 | 1.12 | \$9,865 | \$9,008 | \$8,643 | 0.91 | 1.04 |
| Mar 2015 | \$1,413 | | | | | | | | | |
| Apr 2015 | \$1,522 | | | | | | | | | |
| May 2015 | \$2,373 | | | | | | | | | |
| Jun 2015 | \$1,955 | | | | | | | | | |
| Jul 2015 | \$1,628 | | | | | | | | | |
| Aug 2015 | \$2,858 | | | | | | | | | |
| Sep 2015 | \$1,652 | | | | | | | | | |
| PTD | \$292,380 | \$291,938 | \$291,770 | 1.00 | 1.00 | | | | | |

Waste Treatment Plant Project - (LBL/Project Services) Percent Complete Status
Through February 2015

| (Dollars - Millions) | Overall Facility Percent Complete Unallocated Dollars | | | Design/Engineering Unallocated Dollars | | | Procurement Unallocated Dollars | | | Construction Unallocated Dollars | | | Startup & Plant Operations Unallocated Dollars | | | Project Management & Shared Services Unallocated Dollars | | |
|--|---|--|------------|--|--|------------|--|--|------------|--|--|------------|--|--|------------|--|--|------------|
| | Performance Measurement Baseline (PMB) | Budgeted Cost of Work Performed (BCWP) | % Complete | Performance Measurement Baseline (PMB) | Budgeted Cost of Work Performed (BCWP) | % Complete | Performance Measurement Baseline (PMB) | Budgeted Cost of Work Performed (BCWP) | % Complete | Performance Measurement Baseline (PMB) | Budgeted Cost of Work Performed (BCWP) | % Complete | Performance Measurement Baseline (PMB) | Budgeted Cost of Work Performed (BCWP) | % Complete | Performance Measurement Baseline (PMB) | Budgeted Cost of Work Performed (BCWP) | % Complete |
| Facilities | | | | | | | | | | | | | | | | | | |
| Low-Activity Waste | 1,522.3 | 1,043.8 | 69% | 415.6 | 334.7 | 81% | 318.8 | 243.7 | 76% | 570.5 | 443.0 | 78% | 213.5 | 18.4 | 9% | 4.0 | 4.0 | 100% |
| Balance of Facilities | 627.5 | 365.6 | 58% | 122.6 | 95.2 | 78% | 78.4 | 52.3 | 67% | 228.2 | 190.1 | 83% | 197.9 | 27.6 | 14% | 0.5 | 0.5 | 100% |
| Analytical Lab | 389.1 | 291.9 | 75% | 89.3 | 73.7 | 83% | 63.4 | 55.1 | 87% | 156.0 | 146.4 | 94% | 80.0 | 16.2 | 20% | 0.4 | 0.4 | 100% |
| Direct Feed LAW | 21.9 | 2.0 | 9% | 18.9 | 1.6 | 9% | 0.52 | 0.07 | 13% | 0.1 | 0.0 | 1% | 0.0 | 0.0 | 0% | 2.3 | 0.32 | 14% |
| LBL Facility Services | 91.6 | 18.9 | 21% | 0.0 | 0.0 | 0% | 20.0 | 4.0 | 20% | 0.0 | 0.0 | 0% | 31.1 | 5.8 | 19% | 40.5 | 9.05 | 22% |
| Total LBL | 2,652.3 | 1,722.3 | 65% | 646.3 | 505.3 | 78% | 481.1 | 355.3 | 74% | 954.8 | 779.4 | 82% | 522.5 | 68.1 | 13% | 47.7 | 14.2 | 30% |
| Project Services | 404.7 | 91.5 | 23% | 49.6 | 10.3 | 21% | 37.3 | 7.7 | 21% | 123.8 | 30.5 | 25% | 2.9 | 1.2 | 41% | 191.0 | 41.8 | 22% |
| Total Project Services | 404.7 | 91.5 | 23% | 49.6 | 10.3 | 21% | 37.3 | 7.7 | 21% | 123.8 | 30.5 | 25% | 2.9 | 1.2 | 41% | 191.0 | 41.8 | 22% |
| Total LBL & Project Services | 3,057.0 | 1,813.7 | 59% | 695.9 | 515.6 | 74% | 518.4 | 362.9 | 70% | 1,078.6 | 809.9 | 75% | 525.4 | 69.3 | 13% | 238.6 | 56.0 | 23% |
| PT/HLW/SS Percent Complete Status Frozen as of September 2012 (due to project rebaselining efforts) | | | | | | | | | | | | | | | | | | |
| High-Level Waste | 1,478.6 | 922.1 | 62% | 364.4 | 325.2 | 89% | 433.9 | 349.4 | 81% | 561.1 | 243.2 | 43% | 119.2 | 4.4 | 4% | n/a | n/a | n/a |
| Pretreatment | 2,517.3 | 1,410.5 | 56% | 761.7 | 645.8 | 85% | 679.9 | 380.4 | 56% | 890.0 | 378.6 | 43% | 185.8 | 5.6 | 3% | n/a | n/a | n/a |
| Shared Services | 4,726.9 | 3,632.6 | 77% | 1,047.0 | 977.9 | 93% | 451.7 | 395.0 | 87% | 1,436.5 | 1,143.0 | 80% | 453.5 | 133.2 | 29% | 1,338.1 | 983.5 | 73% |
| 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% | 1,338.1 | 983.5 | 73% |
| Undistributed Budget | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| Total WTP | 11,779.8 | 7,778.9 | 66% | 2,869.0 | 2,464.5 | 86% | 2,083.9 | 1,487.7 | 71% | 3,966.2 | 2,574.7 | 65% | 1,283.9 | 212.5 | 17% | 1,576.7 | 1,039.5 | 66% |

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

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. In March 2014, Project Controls and Project Management work scope was moved out of Shared Services control accounts into the facilities with new control accounts being set up in the facilities. These will now be seen under Project Management/Shared Services by facility. The Shared Services PMB value has not been changed to reflect this change due to the freeze on HLW/PT and SS and the budgets remaining in UB. October 2014 data reflects the incorporation of Direct Feed LAW and the split of Shared Services into LBL Facility Services and Project Services.

WORKING ORP Key Documents List – April 2015

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

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

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

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

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

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

WORKING ORP Key Documents List – April 2015

| Topic Areas | Document | ORP Delivery to Regulators Date ¹ | Anticipated Regulatory Review Completion Date ² | Final Completion Date ³ | DOE-ORP Lead | Contractor Lead | Regulator Lead | Comments/Issues |
|------------------|--|--|--|------------------------------------|---------------|-----------------|----------------|--|
| PERMIT DOCUMENTS | Tier 1 Framework Closure Plan Update | 09/30/15 | | | C. Kemp | S. Eberlein | J. Lyon | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Due 180-day post EIS |
| | Tier 3 Closure Plans for Additional Tanks | 09/30/15 | | | C. Kemp | S. Eberlein | J. Lyon | <ul style="list-style-type: none"> Several Dates in out years |
| | WMA-C Closure Design | TBD | | | C. Kemp | S. Eberlein | J. Lyon | <ul style="list-style-type: none"> Final dates not yet determined; provides basis for the Tier 2 Closure Plan |
| | Supplemental Treatment Technology Notice of Construction | TBD | | | L. Huffman | | J. Lyon | |
| | Submit Part B Permit Application for Selected Supplemental Treatment Technology | TBD | | | L. Huffman | | J. Lyon | |
| | Submit Wiped Film Evaporator Class 3 Permit Modification or Part B Permit Application | TBD | | | L. Huffman | | J. Lyon | |
| OTHER DOCUMENTS | IDF Performance Assessment (ORP/WRPS has support role to RL/CHPRC) | TBD | | | T. Fletcher | | J. Lyon | |
| | Submit Categorical TOC HIA | TBD | | | | | J. Lyon | |
| | Temporary Waste Transfer Line Management Program Plan (also known as Hose-In-Hose Transfer Lines (HIHTL) Management Plan), RPP-12711 | TBD | | | C. Kemp | | J. Alzheimer | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Discussions are underway for a number of revisions to this document |
| | WMA Quarterly Groundwater Reports | Ongoing Quarterly | | | D. Hildebrand | | J. Lyon | <ul style="list-style-type: none"> Ecology SST counterparts have been added to this distribution list as of March 2013 ORP continues to provide reports to Ecology |

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

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

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

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

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

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