

ORP Project Managers Meeting  
October 23, 2012  
2440 Stevens Ctr.  
Richland, Washington  
Meeting Minutes Transmittal

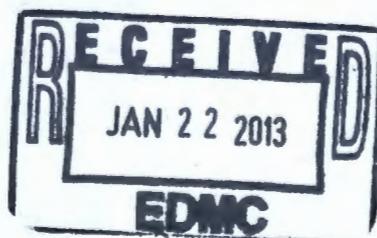
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**Distribution:**

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J. M Bruggeman	ORP	H6-60
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J. F. Grindstaff	ORP	H6-60
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L. A. Huffman	ORP	H6-60
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D.P. Knight	ORP	H6-60
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D. L. Noyes	ORP	H6-60
G. B. Olsen	ORP	H6-60
R. W. Russell	ORP	H6-60
S. C. Stubblebine	ORP	H6-60
G. D. Trenchard	ORP	H6-60
J.D. Young	ORP	H6-60
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R.K. Biyani	Ecology	H0-57
A.S. Carlson	Ecology	H0-57
T.Z. Gao	Ecology	H0-57
J. J. Lyon	Ecology	H0-57
J. D. McDonald	Ecology	H0-57
J. Price	Ecology	H0-57
H.M. Bowers	WRPS	H6-14
J.W. Donnelly	WRPS	H3-26
J. J. Luke	WRPS	H6-14
S. E. Killoy	WRPS	H6-14
R. J. Skwarek	WRPS	H3-28
R. A. Kaldor	MSA	H7-28
R. E. Piippo	MSA	H7-28

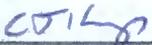
ADMINISTRATIVE RECORD – Heather Childers: H6-08

Please send comments on distribution list to Woody Russell ([Woody\\_Russell@orp.doe.gov](mailto:Woody_Russell@orp.doe.gov)).

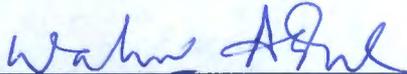


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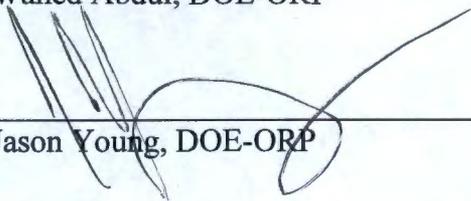
The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above dated Project Managers Meeting.

  
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Chris Kemp, DOE-ORP

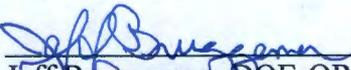
Date: 12-20-2012

  
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Wahed Abdul, DOE-ORP

Date: 1/22/2013

  
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Jason Young, DOE-ORP

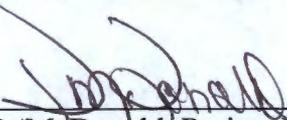
Date: 1/22/13

  
\_\_\_\_\_  
Jeff Bruggeman, DOE-ORP

Date: 1/14/13

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

Date: 12-20-12

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

Date: 1-22-13

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Purpose: ORP Project Managers Meeting

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## **1.0 Administrative Items**

Recent Items Entered/To Be Entered into the TPA Administrative Record - ORP reported that meetings were held on September 6, 2012 and September 18, 2012 on the 241-TX vadose zone characterization and meeting minutes were generated. Ecology has the meeting minutes for signature and will return them to ORP for submittal to the AR. ORP provided an email from EPA dated October 18, 2012, regarding the Toxics Substances Control Act (TSCA) project deliverables and deadlines for retrievals. The email provides EPA's approval of the risk based disposal analysis (RBDA) for C-101 and C-102. The email will be attached to today's meeting minutes. A list of documents that have been entered in the AR was included on today's agenda.

## **2.0 Agreements, Issues, Actions**

The agreements, issues and actions list was updated as follows:

Agreement No. 1 - ORP scheduled a meeting with Ecology for October 31, 2012 to provide a briefing on FY12 funding carryover and FY13 funding. The briefing will cover tank farms and the Waste Treatment Plant (WTP).

Agreement No. 3 - ORP reported the tank completion certification for C-104 is in legal review, and it is anticipated that a copy will be shared with Ecology next week to start the approval process. The format for the tank completion certification was discussed with Ecology in February/March 2012. ORP stated that the next tank completion certifications will be for C-109 and C-108. ORP noted that TPA milestone M-045-86 (currently listed as a TBD date) requires a retrieval data report (RDR) to be submitted within a year of submittal of a retrieval certification completion.

Issue No. 2 - Action No. 7, which was established during the September 25, 2012 PMM, was elevated to issue No. 2 (action No. 7 will be closed). ORP reported that discussions have been held with Ecology regarding the slow leak in AY-102. Last week the material in the annulus of AY-102 was observed and had been stable. ORP and Ecology were in the process of planning the path forward when late last week it was noticed that the marks left by the crawler that was taking samples had slowly filled in. At that point ORP could not say that AY-102 was stable, and ORP and Ecology are reevaluating the path forward. Videos have been increased to every other day, and additional material is very slowly leaking into the annulus. ORP noted that there is no pumpable material in the annulus.

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Action Nos. 2-4 - ORP will schedule separate meetings, and these actions remain open.

Action No. 5 - ORP is meeting with Ecology and has provided draft responses to Ecology's concerns, which were sent to ORP via email on September 20, 2012. The draft responses will be attached to today's meeting minutes.

Action No. 6 - Meetings have been held and continue to be scheduled to discuss the purpose and scope of the PMMs.

Action No. 7 - Ecology raised a question related to tank farms and WTP integration. Ecology stated that WTP's intent is for the Low Activity Waste (LAW) facility to be ready for direct feed in 2017, and with the emerging issues with AY-102 and the potential for other tank problems, there is a question as to whether tank farms would be able to accommodate the cold and hot commissioning waste, which at volume would be much less than processing waste. Ecology added that if cold and hot commissioning waste cannot be accommodated by tank farms, then the 2017 date for LAW direct feed would slip immeasurably. Ecology suggested scheduling a meeting to discuss the issue. ORP acknowledged Ecology's assessment about the potential for the 2017 date to slip, and agreed to schedule a meeting with Ecology. ORP noted that the current funding profile for FY14 does not support a 2017 LAW direct feed startup, but supports a 2019 startup. ORP sent a letter to DOE-Headquarters several months ago that outlined the additional funds needed for LAW direct feed in 2017, and a response has not been received. Ecology noted that the 2019 date may slip as well, and ORP agreed. An action was taken to schedule a meeting with ORP and Ecology to have a technical discussion regarding tank farms ability to accommodate cold and hot commissioning waste and processing waste, due to the emerging issues in tank farms.

Action No. 10 - ORP is ready to schedule a presentation from the 222-S Lab on sampling and process/tracking. Ecology noted that the purpose is to track how well the lab performs in meeting its sample processing times. Ecology asked if the format 4 report has been issued for the samples in C-108, and noted a potential problem that with the RDR report not coming out until a year after the completion certification, there could be instances where Ecology may hold off on certifying tank completion until the sampling is done. Ecology noted that if the sample results are received within 65 days, this would aid in the RDR and certification discussion. ORP clarified that the requirement is 65 working days, not calendar days, and stated that the lab has been delivering within the 65-day time frame. ORP asked for clarification that Ecology concurs with the retrieval completion. Ecology responded that from the discussion today, Ecology will send back the

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waiver for C-108 and ORP will then certify the tank completion. Ecology reiterated the importance of getting the final sampling results, since the RDR is not due until a year after completion and there could be concerns about the final results of the residuals. Ecology added if that were the case, a waiver could not be granted.

Action No. 12 - Ecology has not provided approval or other action on the M-045-58 master work plan. ORP proposed raising the action to the Inter-Agency Management Integration Team (IAMIT) meeting next month if a response has not been received from Ecology. The subject will be discussed during the dry run meeting scheduled just previous to the IAMIT and ORP quarterly milestone meeting.

Action No. 15 - ORP provided Ecology the data qualification report, which is associated with Ecology's submittal of concerns (Action No. 5). Ecology will be sending a response to ORP's letter No. 12-TF-035 next month. Ecology will schedule a meeting with ORP to discuss a proposal for evaluating activities around C-108. Ecology is preparing a compilation of questions and comments on the C-108 leak loss report.

Action No. 16 - ORP stated that there have been several discussions with Ecology on the mixer pump work for waste feed delivery. ORP will follow up with Ecology to determine whether the information provided has answered Ecology's questions satisfactorily.

New Action - ORP will schedule a meeting with Ecology to discuss the Best Basis Inventory (BBI) samples for C-104, C-108, C-111 and C-112. ORP noted that Ecology requested a discussion to assist with their response to the C-108 practicability evaluation. Ecology noted that the discussion will be focused primarily on C-104, and a list of questions will be sent to ORP prior to the meeting.

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

#### **Tank Farms**

Tri-Party Agreement and Consent Decree (TPA and CD) Milestone Status - ORP noted that there were several SST integrity target milestones listed as to be missed, and a meeting will be held with Ecology to discuss the impacts and milestone change packages.

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

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M-045-20 - ORP reported that the work plan is on schedule for submittal by December 31, 2012. ORP noted that this milestone was negotiated to conduct a contaminant removal demonstration at 241-SX farm and continue the vadose zone characterization in 241-TX and 241-U farms, in lieu of placing two barriers over 241-SX farm. ORP added that based on the results of the SX contaminant removal demonstration, building barriers in SX may or may not need to be renegotiated in 2015. ORP noted that a meeting was held with Ecology to discuss the U farm and TX farm segment of the work, and ORP will be providing Ecology advance copies of a description of the work scope. A meeting is scheduled next week with Ecology to discuss the SX farm description of the work scope. ORP added that the expectation from the meetings is that there will be no surprises in the work scope when the work plan is submitted to Ecology. ORP acknowledged that Ecology will be commenting on the work plan, and requested approval to start the work during Ecology's review.

M-045-58 - ORP noted that Ecology's acceptance letter that the milestone is completed was not received by October 15, 2012. The letter will be a topic of discussion at the dry run for the quarterly milestone meeting, and it will be elevated to the IAMIT.

M-045-61/M-045-62 - ORP stated that a meeting is scheduled on October 30, 2012, to provide Ecology a briefing on closure milestones.

Significant Planned Actions in the Next Six Months - ORP reported that the TY interim surface barrier monitoring plan was approved via change notice 2012-09. ORP noted that the interim measures investigation work plan for M-045-20 is scheduled for submittal to Ecology at the end of December 2012.

TPA-SST Retrieval and Closure Program:

Issues - ORP acknowledged that deferral of the WMA C Performance Assessment (PA) is of major concern to Ecology. ORP is waiting for the outcome of the meeting scheduled October 31, 2012 that will provide a briefing on funding impacts and work scope priorities before taking any further action.

Tank Waste Retrieval Work Plan (TWRWP) Status - ORP noted that Ecology requested placing the TWRWP status table in the TPA report, which is the same table that is in the Consent Decree report. Ecology asked about using an in-tank vehicle in C-111 for the second technology. ORP responded that an in-tank vehicle will not be used, and the table represents what has been approved

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to date and needs to be updated. ORP added that a workshop is being held tomorrow with Ecology and WRPS to discuss the approach to retrieval in C-111. ORP stated that the intent of the workshop is that ORP, WRPS and Ecology will work together as a team so that ORP will be able to submit a higher quality TWRWP for C-111. Ecology asked about tanks C-101 and C-102, and ORP responded that the second technology for the two tanks needs to be updated to a high pressure water wash. It was noted that Ecology's recommendation was implemented to include revision numbers to the RPP numbers in TWRWP status table.

Tank in Appendix H. Status (tank 241-C-106) - No change in status.

Tank Retrievals with Individual Milestones (tanks 241-A-103 and 241-S-112) - No change in status.

CD-SST Retrieval and Closure:

D-00B-01 - ORP stated that a draft of the C-104 retrieval certification will be used as a lessons learned for future tank retrieval certifications.

Significant Planned Activities in the Next Six Months - ORP noted that C-101 retrieval will be starting up in mid-November 2012, and C-102 will start up in early December 2012 after declaring readiness. The mobile arm retrieval system (MARS) arm in C-107 will be brought up into maintenance mode. An investigative survey and review will be done on the MARS arm, and portions of the end effector will be replaced. ORP reported that DOE Headquarters is reviewing a differing professional opinion (DPO) on the large riser in C-105. The local ORP management will make a final decision based on the result of the DPO.

242-A Evaporator Status - No status was provided for the 242-A evaporator. A table of campaigns is included in the TPA summary.

M-045-91, SST Integrity Assurance:

ORP provided an update on the action taken during the September 2012 PMM to schedule a meeting with Ecology to discuss the FY13 funding impacts to target dates and interim milestones. ORP received a briefing from WRPS, and is awaiting a briefing on TPA article 148/149. ORP indicated that the funding impact discussion with Ecology will be scheduled in November 2012. ORP noted that several target dates and interim milestones are being reported as to be missed

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based on information received from WRPS, which is the impetus for scheduling a meeting with Ecology.

In Tank Characterization and Summary - ORP stated that C-104 off-riser sampling for the RDR sampling is planned for next month, and the C-109 off-riser sampling for the RDR sampling is planned for March 2013. The C-104 and C-109 RDR sampling were scheduled for October 2012 and have been pushed out due to the sampling crew moving over to AY-102. Ecology noted that the process for evaluating the organic complexation in tank C-104 was discussed with ORP during the August 24, 2012 meeting (action No. 11), and requested that ORP have an understanding of where the lab is on setting up the procedure for C-104.

Tank Operations Contract (TOC) Overview - ORP provided an overview of the project performance through September 2012. The cost and schedule variances were mostly positive, with the exception of a negative schedule variance associated with the C-105 retrieval system installation (retrieve and close SSTs), and a negative cost variance associated with simulant procurement for the scaled performance tests (waste feed delivery).

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

ORP stated that the status of milestone M-090-11 is to be missed, and Ecology was notified in June 2012. A meeting was held with Ecology on August 21, 2012 to initiate negotiations and discuss the Secondary Liquid Waste project (M-047-06) and the Interim Hanford Storage facilities (M-090-11). ORP stated that the formal status of M-090-11 has not been changed, but it is ORP's intent to continue negotiations with Ecology. ORP will provide Ecology a briefing on funding impacts and work scope priority on October 31, 2012. ORP stated that the recent developments of the leak in tank AY-102 and the Defense Nuclear Facilities Safety Board (DNFSB) recommendation on DST ventilation need to be part of the discussion with Ecology. ORP added that the Secretary of Energy has set up a team to evaluate the possibilities for bringing the WTP into operation, and a release of some of the team's information is expected in the near term. That information will be evaluated regarding its effect on tank farm planning.

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

ORP noted that a detailed schedule associated with milestone M-062-40ZZ was provided to Ecology on October 17, 2012, as requested in the September 2012 PMM (see action No. 9). ORP

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stated that it is continuing to work with the contractor to define what the one-time tank waste supplemental treatment technologies report will be, and Ecology will be engaged in that process.

System Plan - ORP reported that there were no updates to the system plan. Ecology initiated a discussion regarding an external report that was issued in September 2009 titled "External Technical Review for Evaluation of System Level Modeling and Simulation Tools in Support of Hanford Site Liquid Waste Process." Ecology stated that the report was an external review of the system planning process, including the tools, the software, the variety of assumptions, and it contained pages of recommendations. Ecology requested that ORP review the report and then schedule a meeting to discuss how many of the recommendations were taken under advisement, how many recommendations were acted on, and if a recommendation was not acted on, the reason for not acting on it. Ecology stated that the primary purpose for requesting this action is to ensure that when the 2014 system plan is developed, that the best set of assumptions and software tools are incorporated and used.

Ecology noted that one of the issues cited in the report was the lack of integration between the tank farms software and the WTP software. It was noted that DOE Headquarters issued the report. ORP took an action to schedule a meeting with Ecology following a review of the report.

### **Waste Treatment Plant**

ORP reported that Bechtel submitted the rebaseline for Low Activity Waste (LAW), Balance of Facilities (BOF) and the Analytical Laboratory (LAB), which is in internal review. Bechtel's submittal of the rebaseline for Pretreatment (PT) and the High Level Waste (HLW) is expected in November 2012. ORP has received a few schedules for PT and HLW that are being reviewed. Ecology stated that December 2012 has been the time frame given when the rebaseline for all of the facilities would be available for review, and asked about any impacts to the rebaseline that may result from the Secretary of Energy's team's in-depth review of technical issues. ORP stated that Bechtel plans to start implementing the schedules from the new baselines, and once any changes from the Secretary comes through, a baseline change proposal (BCP) will be done to modify the new baseline.

Ecology inquired about the status of the Defense Nuclear Facilities Safety Board (DNFSB) 2010-2 Implementation Plan (IP). ORP responded that the Secretary has had discussions with the DNFSB, and the 2010-2 IP is on hold since there will be major changes to the IP after the

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Secretary's team has completed its review. Ecology asked if there could possibly be a second BCP following the changes to the 2010-2 IP. ORP responded that a BCP should be done by next spring to incorporate the changes from the Secretary, but it is not known exactly when those changes will be completed.

Ecology asked if the order of priority is LAW, BOF and LAB (LBL) for issue resolution, and then PT and HLW. ORP concurred that that is the priority. ORP stated that direct feed to LAW from tank farms is being discussed as a priority since LAW is on track to complete its construction and moving forward with startup and readiness to accept direct feed. Ecology noted the emerging problem in tank farms associated with the leak in AY-102 and which double-shell tank (DST) the waste will be coming from, and whether tank farms will be in a position to accommodate hot commissioning. ORP will follow up on Ecology's questions for further discussion.

ORP reported that a number of level 1 findings were given to Bechtel, and Bechtel submitted a corrective action plan that was not accepted. Since then, ORP and Bechtel have been working jointly to develop an acceptable corrective action plan by early November 2012. ORP stated that erosion/corrosion is one of the issues in the level 1 findings. ORP noted that Bechtel's technical issue resolution plan for erosion/corrosion had been accepted. The level 1 finding requires a root cause analysis and extent of condition, which is the area that Bechtel is working for the erosion/corrosion issue. ORP stated that Bechtel has initiated a reliability validation process (RVP), which reviews the extent of condition on the level 1 findings. The RVP was initiated before any corrective action plans were done. ORP is participating with Bechtel in their review and assessment of the many systems and processes to determine what corrective actions need to be done. Ecology stated that it was aware of the RVP, but not what systems are being reviewed. ORP took an action to provide Ecology the RVP test report.

Ecology inquired about the time frame for completion of the RVP effort. ORP responded that Bechtel originally gave a time frame of December 2012, but the process has expanded and it may take longer to complete. ORP estimated the RVP would be completed by next spring. Ecology asked about tracking isolated systems and associated co-located systems to ensure there are no cumulative issues, and if all the instrumentation and piping is being looked at. Ecology also requested a review of the assumption set to validate the sample size and sample characteristics. ORP will set up a briefing to respond to Ecology's questions, particularly regarding Bechtel's assumption set, and to provide Bechtel's planning documents.

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ORP stated that Bechtel is also addressing the margin program under the level 1 findings. Ecology inquired about the margin program. ORP responded that Bechtel has provided margins in their design, as required, but it was determined that their margin program did not clearly articulate the margins for different processes. Bechtel is preparing a corrective action plan in response to the level 1 finding on their margin program.

Ecology asked if the pulse jet mixing (PJM) is being reviewed under the RVP. ORP responded that the PJM is not under review and has been accepted. The issue with the PJM is validation of the mixing and the testing, and the Secretary's team is reviewing the correct way to validate the PJM mixing. There is also concern that the current method for testing will take too long and not necessarily have satisfactory results, and the Secretary's team is reviewing that process.

Ecology asked if the Secretary's team is looking at the concept of no access in the black cell. ORP responded that the team is looking closely at the black cell, including the option of redundancy operation in the plant so it won't have to be shut down if something fails in the black cell. ORP stated that the team is also looking at the waste characteristics that WTP can handle and whether a sort of filtration would be needed in front of PT if some waste would need to be restricted going into PT.

#### **Pretreatment (PT) Facility**

ORP stated that the reports for the small and medium scale testing for the Process Vessel Vent (PVV) entrainment coefficient were issued, and Bechtel has drafted a final report combining and integrating the results from the testing for a final result. ORP will provide Ecology the final report when it is issued.

ORP addressed Ecology's question from the last PMM regarding the hydrogen generation rate (HGR) calculations being done before verification and validation (V&V) of the software (WTP action No. 1). The calculations are done on an Excel spread sheet with a number of different formulas in different columns, so the preparation is already done for verifying the calculations.

ORP stated that the implementation plan for the Preliminary Design Safety Analysis (PDSA) update was issued by Bechtel, and the update will be done in three phases. Phase 1 will incorporate all the design changes, the different Authorization Basis Amendment Requests (ABARs), and the updated facility description (Chapter 2) into one document. Phase 1 is planned for completion in 2013. The first portion of Phase 2 will encompass the hazard analysis and the

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pipng and isometric drawings (P&IDs) for the updated system, and is scheduled to be completed in 2013. The second portion of Phase 2 will be the action analysis, and it will be completed in 2014, which is when Phase 2 will be completed. Ecology asked about the possibility that the results of the RVP will affect the PDSA and cause a change. ORP stated that is always a possibility, and any changes would have to be incorporated into the PDSA. Ecology pointed out that the PDSA would have to be done over again if it is completed before the results of the RVP are completed. ORP responded that there is such a backlog from the past three to four years on the PDSA, that it is worthwhile to move forward. ORP noted that Bechtel currently has implemented a management suspension of work (MSOW) system, which requires a hold on work when there is a misalignment between design and safety. As soon as the RVP process reveals any misalignment with the safety basis, a hold is placed in the system and the resolutions have to be incorporated before the hold is released.

Ecology noted that today's summary states that the 2010-2 IP is expected to be issued at the end of 2012, and requested that the information be updated to reflect the delay in issuing the IP. ORP stated that the IP should be issued in six months, which is reported in the significant planned actions in the next six months. The summary report will be updated to reflect the current date.

Ecology asked if the corrosion test scoping document will be issued in December 2012. ORP indicated that the document could still be issued in December, but the Secretary's team's efforts could impact the date of issuance. ORP stated that Bechtel is updating the vessel corrosion data (VCD) sheets for each vessel based on the flow sheets that are currently being run. ORP sent Bechtel the differing professional opinion (DPO), which asked for a probabilistic evaluation of the vessel for erosion/corrosion, and Bechtel has incorporated the DPO comments into their action plan. Ecology asked if any of the VCD sheets have indicated a need for rework. ORP responded that an evaluation has not been done yet on the VCD sheets. Ecology asked about the updates to the VCD sheets. ORP stated that VCD sheets contained old data, and the G2 process is being run on the latest process and what the chemistry and physics characteristics of the feed to the vessel will be. Ecology stated that it has not seen the latest information on the recent G2 run. ORP took an action to provide Ecology with the latest G2 run information. Ecology asked when the VCD sheets would be completed. ORP estimated that good information on Bechtel's analysis and design for the vessels should be available by late 2013, and the VCD sheets would be issued by spring 2014.

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Ecology inquired about the offsite vessel status. ORP stated that production is on hold for all the offsite vessels during the focus on the technical issues. Ecology requested a spread sheet listing all the vessels and their status. ORP agreed to send Ecology the spread sheet, noting that there has been no change since the last spread sheet was provided about four months ago.

### **High Level Waste**

ORP reported that although construction has slowed down, there are still some placements and structural steel work in HLW. Bechtel has completed the 37-foot structural steel Consent Decree milestone and is ready to submit the paperwork and declare completion by early next week. Ecology requested that Bechtel ensure that there are no red tags associated with the milestone when a walk-down is conducted. ORP responded that all of the red tags have been addressed, including the inventory of bolts that were noted in a review by DOE-Headquarters. ORP explained, in response to the bolt issue raised by Ecology, that the Headquarters' review has been an ongoing, continuous review for a number of years, and Bechtel has been incorporating and completing items in response to the review.

ORP reported that the path forward has been agreed to for resolving the issue with the HEPA filters that failed during combined testing conditions. Several vendors will be selected to provide different media for the filters to be tested, such as metal filters that are more robust. The request for proposal (RFP) will be issued in early 2013.

Ecology asked for an update on the issue with the cooling coils. ORP stated that Bechtel was directed to gather information on the issue, and a briefing to Ecology will be provided next month. Ecology suggested that the issue might be applied to other facilities. ORP noted that PT has no cooling coils inside its vessels, but the LAW facility has cooling coils inside and outside the submerged bed scrubber and the condensate vessel.

ORP provided an update on the issue regarding the weld deficiencies on RLD vessel 8 (RLD-8). The three main deficiencies identified were weld undercuts, weld undersize, and workmanship. The code allows for .132 undercut, and there were six weld undercuts on RLD-8 that were above the code. However, no undercuts were allowed for RLD-8. There were a number of weld undersizes, which the vendor will fix and make to size. The workmanship for a number of the welds was good technically, but the welds look shoddy and the vendor has been asked to fix those welds. ORP noted that the vendor has submitted several supplier deviation requests, which

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Bechtel rejected and requested the vendor to provide a repair plan with details of weld by weld. Since the vendor is located in England, it has subcontracted a company in the United States that is NQA-1 qualified. The subcontractor will have to submit its weld and inspection procedures to Bechtel for approval before the work can be done. Ecology asked about increasing the extent of condition review of welds throughout the system. ORP responded that a review is under way.

ORP stated that the information requested in WTP action Nos. 2 and 3 will be provided to Ecology.

### **Low Activity Waste Facility (LAW)**

ORP reported that the small cranes have been set that will be used for the melter refractory installation. ORP referred to a series of email exchanges with Ecology, and suggested that Ecology schedule a walk-down of the LAW facility as a more useful approach to answer the questions in the emails. ORP stated that the emails referred to the melter assembly and refractory installation process. Ecology will check on the email exchanges and then follow up with ORP. ORP stated that a letter is being sent to Ecology by early next week requesting to stage the LAW melter secondary offgas equipment (miscellaneous units) in the LAW facility prior to receipt of the dangerous waste permit approval installation. ORP noted that the letter is a follow-up to a discussion with Ecology. ORP stated that the caustic scrubber would be set on its stand and temporarily bolted in place, but no connections would be made.

Ecology asked if any systems in LAW are undergoing the RVP review. ORP responded that the offgas process (LVP) is under RVP review. ORP will send Ecology an email on the status of the RVP review of the LVP. Ecology asked if any new work is being done on direct feed. ORP responded that the design for the changes inside LAW to accommodate direct feed is being updated.

Significant Planned Actions in the Next Six Months - ORP stated that all of the planned activities are on schedule and included in the rebaseline.

### **Balance of Facilities (BOF)**

ORP reported that the startup and commissioning efforts are primarily focused on switchgear building 87. Punch lists for building 87 have been worked in the last several months, and there are some "A" items which need to be completed prior to turnover to the startup organization.

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ORP stated that completion of building 87 turnover to the startup organization is anticipated in the December 2012 time frame. Ecology asked if all of the punch list items will be completed at the time of turnover. ORP provided a description of the turnover process, explaining that Bechtel will turn over by system and not by facility. The startup organization is an extension of the construction organization, and it evaluates what the construction organization has done. The startup organization will then conduct component-level testing, which means all the walk-downs and "A" punch list items have been completed. ORP noted that there may be some "B" outstanding punch list items that the startup organization will accept, and the construction organization will be responsible for completing those punch list items. Completion of the "B" items won't hold up the transition to the startup organization.

ORP stated that the component-level testing that the startup organization conducts is not the integrated-system testing for a system throughout the entire plant. The component-level testing is done to prep the building prior to supporting cold commissioning. ORP noted that the intent is to ensure that the key defining systems of a building are ready prior to turnover, but that does not mean the building is turnkey with everything completed. Oregon Department of Energy (ODOE) asked if there are components within a system that are not contained within the building. ORP responded that a scoping step is taken to identify a component that may be located at another facility but is part of the system to be turned over. Ecology asked about the function of building 87. ORP stated that building 87 is the main switchgear building which provides permanent power for the entire site. Building 91 is the BOF-specific switchgear building, providing power for the BOF series of 18 different buildings.

ORP reported that the Consent Decree milestone for the steam plant construction complete is on schedule for December 31, 2012. Construction complete of the chiller compressor plant is another area of focus. ORP noted that resources have been strained regularly throughout BOF due to the focus on the LAB construction substantially complete milestone (12/31/12).

Ecology inquired about the status of the cathodic protection system for underground piping. ORP responded that a concern was identified regarding inadequate cathodic protection and some corrosion in underground lines, and an independent team was brought in to do an evaluation. The final version of the evaluation report was issued, and the engineering division is reviewing the findings and recommendations in the report. Ecology asked about the underground waste lines. ORP responded that the waste lines are double-contained and don't have the cathodic protection because they are inherently corrosion resistant. ORP took an action to provide an update on the

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cathodic protection on November 13, 2012, at the dry run for the ORP quarterly milestone review. ORP indicated that it will take about two months to complete a review of the report. Ecology noted that a site visit has been scheduled. ORP responded that a site visit will not provide an adequate level of detail about the concerns with the cathodic protection system design, the difficulties to date, and a path forward. Following completion of review of the cathodic protection report, ORP will schedule a briefing with Ecology.

**Analytical Laboratory (LAB)**

ORP reported that the key focus has been LAB construction substantially complete to meet the Consent Decree milestone by December 31, 2012. ORP reiterated that the discrepancy between LAB at 56 percent overall complete and LAB construction substantially complete is that a large portion of the dollar value that is incorporated into the overall capital line item are the methods development and instrumentation purchase that occur at the very end after construction has long been completed. ORP stated that the minor weld repairs to two of the three RLD vessels have been completed. The remaining RLD vessel will require more extensive weld repair. ORP noted that new information on the RLD vessel was received this morning, and once that information is validated, a briefing will be provided to Ecology.

ORP reported that a design review was conducted on the seismic story drift, which is lateral movement during a seismic event that varies with different building heights. There were 30 locations identified that needed to be addressed, and nine locations have been fixed by adding additional supports. The remaining 21 locations require modifications to the HVAC ducting, and they are being addressed via a flex joint. Procurement of the flex joints is in place, and the flex joints are expected to arrive soon. ORP noted that the design company Intermech is developing a coupler that will go between the flex joints. Ecology asked if the seismic issue would need to be a punch list item. ORP responded that it would not, and the seismic issue does not pose a concern with meeting the milestone.

ORP provided an update on the potential damage to valve internals. There were 240 valves identified, and 70 of the valves were torn apart and inspected. There were zero deficiencies found, and the valves were rebuilt. ORP expressed confidence going forward that the valve internals will not be an issue. Ecology concurred that the large sample size reflects a positive result.

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Ecology asked about the definition of construction substantially complete. ORP referred Ecology to page 28 of the Consent Decree, which provides a very detailed description. ORP added that the construction substantially complete milestone was established to provide an intermediate milestone prior to full construction complete, and a point in time was chosen for the majority of the major systems to be in place. The major systems include HVAC, the autosampling system, mechanical installation completed, fume hoods installed, and partition walls established within the interior of the laboratory. ORP stated that the main components that will left after construction substantially complete are the instrumentation and the installation of analytical equipment. ORP noted that it would not be practical to purchase and place the analytical equipment three years prior to being operated because the calibration could not be maintained. ORP added that the instrumentation in the hot cell will be placed through the shield windows, so the shield windows won't be installed in the hot cell at construction substantially complete.

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

An updated ORP key documents list was provided.

#### **5.0 Upcoming Meetings**

- The ORP/Ecology PMM Communications Improvements meeting is scheduled for Wednesday, October 31, 2012, from 2:00-3:00 pm in ORP Room 1200
- The dry run for the ORP TPA Quarterly meeting is scheduled for Tuesday, November 13, 2012 at ORP from 9:00 am to 12:00 pm.
- The ORP TPA Quarterly meeting is scheduled for Thursday, November 15, 2012 at Ecology from 8:30-10:15 am.

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**Attachment A: Agreements, Issues and Actions and September TPA PMM Issues List**

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

## ORP/Ecology TPA and CD Agreements, Issues, and Actions for October 2012

### Agreements:

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

### Issues:

1. Ecology has a concern with WTP data being reported exclusively in the CD Monthly Summary Report as the current CD reporting process does not allot ECY early review time of the CD Monthly Summary Report. ORP and ECY have raised this concern for discussion at the Senior Management levels.
2. AY-102: ORP and ECY are evaluating a range of potential cumulative impacts (DST space/water balance, 242-A Evaporator, Waste Feed Delivery to WTP, risk readiness/contingency, etc.) with follow-on topic meetings to be held with close involvement of ORP and ECY Senior Management as information becomes available for evaluation.

### Tank Farms Actions:

#	Date Initiated	Action Description	Action Status	Actionee(s)	Date Completed
1	10/16/12	Ecology would like to discuss C-107 and considerations for Tc-99 concerns with tank residuals and technology selection	Open.	Chris Kemp	
2	10/10/12	Per M-045-56 annual meeting: Set meeting on Interim Measures Inspection and Maintenance, to address inspection scope, criteria, and results of past inspections.	Open.	Susan Eberlein	
3	10/10/12	Per M-045-56 annual meeting: Set meeting with site water purveyor to address leak detection and testing in active water lines.	Open.	Chris Kemp	
4	10/10/12	Per M-045-56 annual meeting: Set meeting on interim surface barrier surveillance and maintenance actions and status.	Open.	Susan Eberlein	
5	09/20/12	ORP will set up a meeting to discuss TPA PMM Issues provided by Jeff Lyon of ECY on 09/20/12 via e-mail.	Open. These items were entered into the 09/25/12 PMM record. ECY would like to meet to discuss as soon as possible (10/01/12 if possible). ORP submitted met with ECY and submitted draft responses on 10/18/12 and will be entering those responses into the TPA Admin Record in the 10/23/12 PMM.	Joni Grindstaff Chris Kemp	

**ORP/Ecology TPA and CD Agreements, Issues, and Actions for October 2012**

<b>#</b>	<b>Date Initiated</b>	<b>Action Description</b>	<b>Action Status</b>	<b>Actionee(s)</b>	<b>Date Completed</b>
6	09/25/12	ECY PMs would like to set up a meeting with ORP PMs to define the purpose and scope of the PMM meetings (roles, responsibilities, objectives).	<b>Open.</b> This was discussed at the ORP/ECY Communications meeting held on 10/16/12 and a break-out team will hold a follow-up meeting on 10/31/12 to outline expectations, discuss the process, available tools (agreements, issues, action items list), and develop improvements.	Jim Lynch	
7	09/25/12	ORP and ECY will meet to discuss the 242-A Evaporator, DST-space, water balance, and ORP's ability to maintain retrievals given a range of potential impacts (i.e. potential to free up 1 million gallons of DST space, risk readiness, etc.).	<b>Elevated.</b> ORP and ECY management met on 10/17/12 to discuss and elevate this action. Please see Issue #2.	Joni Grindstaff Ron Koll	This action will be closed out in lieu of its elevation to Issue #2 on 10/17/12
8	09/25/12	ORP will meet with ECY to discuss the DQO for AY-102 sampling.	<b>Closed.</b> ORP met with ECY on 10/09/12 to discuss the DQO for AY-102 sampling.	Jeremy Johnson Billie Mauss	10/09/12
9	08/14/12	ECY would like to see a detailed schedule or timeframe for the path forward for a deliverable of the System Plan milestone – specifically TPA Milestone M-062-40ZZ, the submittal of a one-time Tank Waste Supplemental Treatment Technologies report if a supplemental treatment technology is proposed other than a 2 <sup>nd</sup> LAW, which is due on 10/31/2014.	<b>Closed.</b> ORP provided this schedule to ECY on 10/17/12.	Steve Pfaff	10/17/12
10	08/14/12	ORP will setup a meeting with someone from 222-S Labs to brief Ecology on sampling and process/tracking information at the lab.	<b>Open.</b> ECY would like to hold this meeting by 10/18/12 if possible. ORP and representatives from the 222-S Labs are developing a presentation for sampling and process/tracking information and will brief ECY within the next two weeks.	Jeff Cheadle	
11	08/14/12	ORP will setup a meeting to discuss C-108 leeching tests/sampling.	<b>Closed.</b> Meeting was held on 08/24/12 to discuss the C-108 leeching tests/sampling. Meeting minutes were signed by ORP and ECY and entered into the TPA Admin Record on 09/25/12.	Chris Kemp Mike Barnes	09/25/12
12	May 2012	ECY will provide approval or other action on the M-045-58 workplan.	<b>Open.</b> ECY plans to complete this action by 10/15/12.	Jeff Lyon	

**ORP/Ecology TPA and CD Agreements, Issues, and Actions for October 2012**

#	Date Initiated	Action Description	Action Status	Actionee(s)	Date Completed
13	May 2012	ORP is working on an ECY request to revise IQRPE reports for ARRA projects.	<b>Open.</b> A meeting to review the IQRPE's disposition of ECY's comments was held on 05/24/12. ORP transmitted letter 12-TF-0025 with several revised reports. ORP is compiling the requested documents for transmittal to ECY.	Jeremy Johnson	
14	May 2012	ORP and WRPS will develop and provide to ECY a C-108 Lessons Learned for use in future caustic dissolution activities.	<b>Open.</b> The LL is currently under review for public release. ORP anticipates getting this to ECY by 10/26/12.	Chris Kemp Jeff Luke Susan Eberlein	
15	May 2012	Per 12-NWP-071, ECY anticipates the following actions are necessary to support the completion of the RCRA RFI/CMS Study work: a. ORP will release the revisions of RPP-39114 and RPP-38777 as approved. b. ORP will complete work identified in the work plan. c. ORP will provide the date for submittal and completion of: i. The validation, documentation, and evaluation of the analytical data from FY2010 and FY2011 ii. The following reports: 1. Tc-99 laboratory interferences 2. Evaluation of the organic detects in WMA C groundwater wells 3. Latest trending of groundwater contaminants at WMA C groundwater wells 4. Evaluation of the Quality Assurance/Quality Control and holding time issues associated with the 222-S shutdown in summer of 2011 d. ORP will submit the revised Hanford C-Farm Leak Assessment Report (RPP-ENV-33418)	<b>Open.</b> Related to Action Item #18. Status of these items and several reports were transmitted via a letter 12-TF-0035 on 09/07/12. ECY has provided additional requests regarding letter 12-TF-0035. Any follow-up requests will be captured with new Action Item(s) after ECY review.	Chris Kemp	09/07/12
16	February 2012	ORP will provide information to ECY (Lyon) on Mixer Pump work for Waste Feed Delivery.	<b>Open.</b>	Glyn Trenchard	
17	October 2011	ORP is incorporating comments for the change notice for M-045-92B specific to monitoring plan, scope, and schedule for TY Barrier.	<b>Closed.</b> ORP met with ECY on 08/28/12 to capture all comments. Final comments have been incorporated and a signed TPA change notice (2012-09) was submitted by ORP to ECY on 09/27/12.	Chris Kemp Susan Eberlein	09/27/12
18	October 2011	ORP will brief ECY on soil sample analysis from direct push for the C-101 and C-104, including discussion of vadose zone data for the C-101 TWRWP, post May 2012.	<b>Open.</b> Data was transmitted to ECY via ORP letter 12-TF-0035 on 09/07/12. Follow-up meeting was held on 10/18/12.	Chris Kemp Susan Eberlein	09/07/12

**ORP/Ecology TPA and CD Agreements, Issues, and Actions for October 2012**

**WTP Actions:**

#	Date Initiated	Action Description	Action Status	Actionee(s)	Date Completed
1	09/25/12	ORP will follow-up with ECY PT Facility question: What's the rationale for doing HGR software V&V after the calculations have been performed?	Open.	Wahed Abdul	
2	09/25/12	ORP will follow-up with ECY HLW Facility question: Which rinse bogie and decontamination vessel has been installed in the canister rinse tunnel? Is it HDH-VSL-1?	Open.	Wahed Abdul	
3	09/25/12	ORP will provide the causal analysis and other reports to ECY for the RLD-VSL-08 and extent of condition vendor quality issue.	Open.	Wahed Abdul	

## September TPA PMM Issues

Topic	Concern	Response/Status
M-045-82	Ecology concerns regarding level of sampling and analysis of ancillary equipment and piping to meet closure requirements without a Performance Assessment.	ORP agrees that Performance Assessment is required to complete the closure permit modification requests (closure plans) required by M-045-82. ORP does not intend to attempt to meet the closure requirements without a Performance Assessment.
M-045-80	If funding isn't available USDOE will need to resolve schedule issues identified in the WIR process document (RPP-PLAN-47325) and meeting Closure Milestones M-045-82 and M-045-83	ORP has evaluated the timing of activities required to complete M-045-82 by 09/30/2015, and concludes that the WMA C Performance Assessment (PA) modeling must be initiated by 03/31/13, in order to support completion of the permit modification requests and the WIR determination documentation. Funding is being sought to re-establish this activity.
Letter 12-TF-0035	In regards to your letter 12-TF-0035, on WMA-C Closure activities: (1) we are concerned that report RPP-ENV-33418 was issued in January of 2012 and we are just now being notified (September 7, 2012); (2) we do not think that giving our stakeholders (or Ecology) a deadline for comments by September 30 is reasonable, we will be extending this date until October 31, 2012, and would expect USDOE to respond to comments, and meet with Ecology and any Stakeholders at our office to discuss resolutions before December 31, 2012, and to provide a completion schedule for further activities.	A draft of the proposed updates to RPP-ENV-33418 was provided to Ecology in October 2011 to obtain comments. As far as possible, comments were addressed. ORP is willing to accept an alternate date for receipt of comments, and looks forward to meeting with Ecology to ensure additional comments are understood and can be addressed. ORP also will work with Greg Thomas at CH to pursue the information that the organics in the groundwater below C-Farm is a cross contaminant from well PVC components.
Letter 12-TF-0035	In regards to your letter 12-TF-0035, WMA-C Leak Loss (Rev2A), Ecology still have ongoing issues and some are identified in report; there is no further involvement from EPA for soils investigation (Appendix I) or in any potential PA work.	As noted above, ORP is willing to accept comments from Ecology and stakeholders, and looks forward to meeting with them to determine how to address the comments on the Leak Loss Assessment (RPP-ENV-33418).  ORP also agrees with Ecology's concern that EPA should be involved with the review of the Tank Farms soil investigative work. Per discussion with Mike Barnes it is understood that Rebekah Gearhard is not available this fiscal year. ORP's TPA PM would like to request that Ecology's TPA PM

## September TPA PMM Issues

		<p>join together to raise this issue up to the IAMIT to obtain EPA continued support.</p>
<p>Letter 12-TF-0035</p>	<p>In regards to your letter 12-TF-0035, Tc-99 interferences problems in the Lab are over 2 years ago and have been identified by Ecology earlier, report is delayed until March 2013, and now there are further plans to sample for additional TPA Milestones; not apparent efforts to resolve issues to date.</p>	<p>Due to budgetary constraints, ORP has not had the resources in FY12 to develop the requested report. ORP will schedule a meeting with Ecology to discuss the specific issues and develop the path forward for FY13.</p>
<p>C-101 TWRWP, Part 2</p>	<p>Owe Nancy C-101 Soil Investigation on the TWRWP –TPA Actions, Due May 2012 Sample Pushes, are probes positioned optimal to monitor leaks; provide basis for determining small leak. USDOE12-TF-0035, says that data is to be delivered to Ecology in November still on track?</p>	<p>It is not clear whether this question is addressing the direct push logging and sampling done under the WMA C Work Plan, and discussed in 12-TF-0035, or if it is in reference to separate commitments regarding evaluation of leak detection monitoring.</p> <p>If the first option: The direct push logging and sampling near C-101 was performed in FY2011. The logs and quick turnaround analysis results for mobile contaminants were reviewed at that time. The results showed no evidence of a past leak. An internal technical document was provided to the Retrieval organization as a basis for planning retrieval of C-101. The complete analytical report for the two direct push probe holes near C-101 (Core holes C8102 and C8104) was provided as an attachment to letter 12-TF-0035 (RPP-RPT-51759, <i>Final Analytical Report for Soil Samples from Waste Management Area C, Core Holes C8102, C8104 and C8106, in Support of RCRA Closure</i>). The data validation report for these samples has just been received and will be sent to Ecology.</p> <p>If the second option: The deep electrode locations for electrodes placed in C farm have provided to the Retrieval team for use in planning leak detection activities. We will provide the map showing deep electrodes to Ecology for their information. Discussions of how these electrodes may be incorporated into any future monitoring plans should be addressed with the retrieval project managers. The retrieval team has just completed field installation</p>

## September TPA PMM Issues

		that allow use of the additional electrodes, and will have some data starting in November. If this is the topic of interest, ORP will set up a meeting with Ecology when the data is available.
Work plan	USDOE12-TF-0035, says that WMA-C soil work is on priority list FY-13 in letter, (C-200's and evaluation of borings, from E2720 (abandoned E2723, High Tc-99) – when are you doing it?	Planning for the C-200 direct pushes will take place October-December 2012. Direct push field work will take place January – March 2013. SGE data collection will take place as soon as the newly placed electrodes have equilibrated, nominally by August. Data analysis will follow data collection. Contracts are being prepared to obtain the E2720 borings from sample archive and initiate analysis. A meeting will be scheduled to discuss with Ecology what analyses will be requested.
Leak Loss Investigations	TX and U farm draft documents, needs finalized to complete Milestone work for the Interim Actions (vapor study [SX], SGE [U], TX sampling and soil investigation for Interim Measures [can ecology get the Draft])	U Farm underwent the leak loss assessment joint process involving Ecology, ORP and the TOC. The initial report, RPP-RPT-50097, <i>Hanford 241-U Farm Leak Inventory Assessment Report</i> , was issued in September 2011. The information compiled in this process has been used to support the Interim Measures characterization planning in U Farm. Initial meetings for the leak loss assessment process were held for TX Farm, and the information available from the initial stages of the process have been used to support Interim Measure characterization planning in TX Farm.
CD Retrievals	Ecology would like to be informed 2 hours before USDOE and WRPS determine that they will no longer retrieve a tank, we prefer to be present and notified, before retrieval actions are considered complete	Ecology, ORP, and WRPS are addressing this issue with a Communications Project Team.
CD	C-102 concrete retrieval technology and sampling development; Third technology will need to consider this or if a PA is completed then we can agree to the requirements of leaving waste levels in tanks before we achieve the 360 goal	It is unclear whether this issue is about the apparent concrete in tank C-102 under riser #2 (presumed to be concrete that “spilled” from the slip form during pit construction). ORP requests a follow-up discussion in our next bi-weekly field meetings with Kent Smith as it is unclear what Ecology’s concern is with this issue.

## September TPA PMM Issues

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CD	Confirm 2014 date is still good for end of retrievals,	Yes to the current schedule.
CD	Provide C-102 schedule, can we obtain the Interim Stabilization report for C-102	Tank 241-C-102 interim stabilization Was done on September 1995 per HNF-EP-0182 <i>Tank Waste Summary Report</i> and interim stabilization reports were done post IS consent decree on September 20, 1999.

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**Attachment B: List of Attendees**

**(2 pages including this coversheet)**

## **October 23, 2012 ORP PMM List of Attendees**

**Jim Lynch, ORP  
Chris Kemp, ORP  
Dabrisha Smith, ORP  
Dan McDonald, Ecology  
Mike Barnes, Ecology  
Doug Hildebrand, RL  
Jason Young, ORP  
Jeff Luke, WRPS  
Dan Knight, ORP  
Robbie Biyani, Ecology  
Shelly Cimon, ODOE**

**Terry Noland, MSA  
Kathy Knox, Knox Reporting  
Susan Eberlein, WRPS  
Tracy Gao, Ecology  
Joni Grindstaff, ORP  
Wahed Abdul, ORP  
Jeff Bruggeman (by phone), ORP  
Joe Caggiano, Ecology  
Steve Pfaff, ORP  
Janet Diediker, ORP  
Woody Russell, ORP**

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**Attachment C: Presentation Materials**

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

**And**

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

**And**

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

**(46 pages including this coversheet)**

**FINAL**

Office of River Protection  
Tri-Party Agreement  
Monthly Summary Report  
October 2012



Office of River Protection  
Tri-Party Agreement Milestone Review  
October 2012

<b>Page</b>	<b>Topic</b>	<b>Leads</b>
1	Administrative Items / Milestone Status	James Lynch / Dan McDonald / Jeff Lyon
2	Single-Shell Tank Corrective Action; M-45, -50, -60	Chris Kemp / Jeff Lyon
4	Single-Shell Retrieval and Closure Program TPA Milestones Status; M-45-00 series, - Tank in Appendix H Status - Tank Retrievals with Individual Milestones	Chris Kemp / Jeff Lyon
5	Tank Waste Retrieval Work Plan Status	Chris Kemp / Jeff Lyon
6	Tank in Appendix H Status Tank Retrievals with Individual Milestones	Chris Kemp / Jeff Lyon
7	242-A Evaporator Status	Ron Koll / Jeff Lyon
8	SST Integrity Assurance; M-45-91	Jeremy Johnson/ Michelle Hendrickson
9	In Tank Characterization and Summary	Billie Mauss / Michael Barnes
11	Tank Operations Contract (TOC) Overview	Dan Knight / Jeff Lyon
16	Acquisition of New Facilities; M-90-00; M-47-00	Janet Diediker / Jeff Lyon / Dan McDonald
17	Supplemental Treatment and Part B Permit Applications; M-62-00, -20, -30, -45	Steve Pfaff / Jeff Lyon / Dan McDonald
18	System Plan; M-62-40	Dabrisha Smith / Jeff Lyon / Dan McDonald
19	WTP Overall TPA Summary and Milestone Status; M-62-01	Delmar Noyes / Dan McDonald

Milestone	Title	Due Date	Completion Date	Status
<b>Fiscal Year 2012</b>				
M-062-40B	Submit System Plan	10/31/2011	10/21/2011	Completed
M-062-49	Sub. Report to ECY Demonstrating WTP Design Meets Vit. Criteria	10/31/2011	10/27/2011	Completed
M-045-91B	DOE Submit a Sampling and Analysis Plan to Ecology	12/30/2011	9/20/2011	Completed
M-045-92F	Meet Yearly on Performance of Barrier	12/31/2011	11/30/2011	Completed
M-045-91G-T02	Provide AOR Final Doc. for SSTs on 750,000 Gallon Tanks	1/31/2012	11/18/2011	Completed
M-062-01X	Submit Semi-Annual Project Compliance Report	1/31/2012	1/27/2012	Completed
M-045-91D	Submit Analytical Test Plan for Cores Removed from C-107 Plug	3/31/2012	6/27/2011	Completed
M-045-91G-T06	Provide Report of the Visual Inspection of 12 SSTs M-045-91G-T05	3/31/2012	03/12/2012	Completed
M-045-92M	Barrier 2 Design/Monitoring Submittal to Ecology	6/30/2012	5/19/2011	Completed
M-047-06	Comp. Neg's of No More Than 2 Interim Milestones	6/30/2012	Missed	Missed
M-062-01Y	Submit Semi-Annual Project Compliance Report	7/31/2012	7/27/2012	Completed
M-045-56H	Meet Yearly to Discuss Interim Measures	7/31/2012	6/21/2012	Completed
<b>Fiscal Year 2013</b>				
M-045-20	Submit Interim Measures Investigation Work Plan and TPA Chg Pckgs for M-045-22 Target Dates	12/31/2012		On Schedule
M-090-11	Comp. Neg's No More Than 2 Canister Storage Fac. Const. Int. M/S	12/31/2012		To Be Missed
M-062-01Z	Submit Semi-Annual Project Compliance Report	1/31/2013		On Schedule
M-045-91F-T01	Provide Report of the Liquid Leak Rate Assessments	1/31/2013		To Be Missed
M-045-21	Submit Sampling and Analysis Plan for 241-TX Tank Farm	3/31/2013		On Schedule
M-045-91D-T01	Provide Report on the Concrete Dome Samples from Tank C-107 Plug	5/31/2013		On Schedule
M-045-91F-T03	Provide Report on Testing for Ionic Conductivity of SSTs	5/31/2013	05/02/2012	Completed
M-045-91F-T02	Provide Report of Liner Failures for SSTs	7/31/2013		To Be Missed
M-045-91F-T04	Provide Report on 100-Series SSTs as having Leaked in RPP-32681	7/31/2013		To Be Missed
M-045-91E	Provide SST Farms Dome Deflection Surveys Every Two Years	9/30/2013		On Schedule
M-045-91G-T03	Provide AOR Final Doc. for SSTs on 1,000,000 Gallon Tanks	9/30/2013		On Schedule

## **WBS 5.2 Retrieve and Close Single Shell Tanks**

**M-045-20, Submit Interim Measure Investigation Work Plan to Ecology, Due: 12/31/12, Status: On Schedule.** ORP will submit to Ecology for review and approval an interim measures investigation work plan for to vadose zone characterization at 241-TX Farm and 241-U Farm, and soil desiccation/contaminant removal proof-of-principal test at 241-SX Farm. The work plan will also be submitted with a TPA Change Package to establish milestone due date for M-045-22 and target dates for submittal of three secondary documents, see M-045-22-T01, -T02, and -T03. Added per TPA change package M-45-12-04.

**M-045-21, Submit for Review and Approval a Sampling and Analysis Plan to Ecology for Soil Samples for 241-TX Tank Farm Investigation, Due: 03/31/2013, Status: On Schedule.** Further description of this SAP will be provided in the Work Plan submitted under M-045-20. Added per TPA change package M-45-12-04.

**M-045-22-T01, Submit Results of Vadose Zone Characterization of 241-TX to Ecology, Due: TBD based on M-045-20 TPA Change Package Submittal, Status: On Schedule.** Added per TPA change package M-45-12-04.

**M-045-22-T02, Submit Results of Vadose Zone Characterization of 241-U to Ecology, Due: TBD based on M-045-20 TPA Change Package Submittal, Status: On Schedule.** Added per TPA change package M-45-12-04.

**M-045-22-T03, Submit SX Soil Desiccation/Contaminate Removal Tech Results to Ecology, Due: TBD based on M-045-20 TPA Change Package Submittal, Status: On Schedule.** Added per TPA change package M-45-12-04.

**M-045-22, Review M-045-22-T03 Report and Determine Path Forward, Due: TBD based on M-045-20 TPA Change Package Submittal, Status: On Schedule.** This ORP/Ecology decision point will determine whether to continue with soil desiccation/contaminant removal testing and other interim measures, and if remaining work in Milestone M-045-92 should be modified. Added per TPA change package M-45-12-04.

**M-045-58, Submit to Ecology for Review and Approval as an Agreement primary document, a phase 2 CMS Master Work Plan, Due: 12/31/2008 Status: Complete.** The outstanding issues involved integration of RCRA and CERCLA requirements, and the definition of a schedule for future RFI/CMS Work Plan development and implementation. With the development of the RCRA/CERCLA Integration White Paper (under M-045-80), DOE believes that the path to soil corrective measures implementation involves a modification to the RCRA Permit for SST Closure, and a ROD to address the CERCLA requirements. In addition, modifications to milestone M-045-84 and M-045-85 have now been made to explicitly define the requirements for schedule development for future RFI/CMS Work Plans, RFI/CMSs and Corrective Measures Implementation Plans. Thus all outstanding issues for the M-045-58 deliverable have been addressed, and this milestone may be considered closed. Ecology is preparing a letter on this milestone. After this deliverable is closed via Ecology's letter, future updates will be tracked on the ORP Key Documents List.

**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 WMAS (pending the CMS report, milestone M-45-58, and implementation of other interim corrective measures), Due: TBD, Status: On Schedule**

**M-045-61, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 RFI/CMS Report for WMA C, Due: 12/31/2014, Status: On Schedule**

**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: 06/30/2015, Status: On Schedule**

**M-045-92, DOE and Ecology will establish selection criteria for installation of additional interim barriers at additional WMAs (beyond the T-106 and TY barriers), Due: 09/30/2017, Status: On Schedule.** This milestone date has been modified according to M-45-12-04 and the decision to move forward with construction/design of additional barriers dependent on discussions per M-045-22.

**M-045-92N, Construct Barriers 1 and 2 in 241-SX Farm Due: 10/31/15, Status: On Schedule.** The decision to move forward with construction/design of additional barriers is dependent on discussions per M-045-22.

**M-045-92O, Submit a Final Design and Monitoring Plan for Interim Barrier 3 Due: 06/30/15, Status: On Schedule.** The decision to move forward with construction/design of additional barriers is dependent on discussions per M-045-22.

#### **Significant Past Accomplishments:**

- Automated data collection system for T-Farm interim barrier monitoring continues gathering data.
- Automated data collection system for TY Interim Barrier monitoring continues gathering data.
- TPA change notice 2012-09 was provided to Ecology, documenting proposed changes to the TY Interim Surface Barrier Monitoring Plan.

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

- Perform planning for Fiscal Year 2013 Interim Measures activities.
- Publish results of evaluation of barrier monitoring data, and revise the TY Interim Surface Barrier Monitoring Plan, once TPA change notice 2012-09 is approved.
- Perform verification and validation of the laboratory analysis of direct push soil samples previously obtained in C farm.
- Provide the interim measures investigation Work Plan for M-045-20.
- Provide the Sample Analysis Plan for 241-TX Farm for M-045-21.
- Initiate field work under the M-045-20 work plan.

**Issues:**

Initial planning for FY2013 shows that continued constraints may affect out-year milestones, including M-45-61, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 RFI/CMS Report for WMA C, Due: 12/31/2014. If completion of M-045-61 is delayed, it has the potential to affect M-045-62 as well. Possible recovery actions are being evaluated.

## **SST Retrieval and Closure Program**

**M-045-82, Submit complete permit mod requests for Tiers 1, 2, & 3 of the SST, Due: 9/30/2015 Status: On Schedule**

**M-045-84, Complete negotiations of TPA interim MS for closure of second WMA, Due: 1/31/2017, Status: On Schedule**

**M-045-83, Complete the closure of WMA C, Due: 6/30/2019, Status: On Schedule**

**M-045-85, Complete negotiations of TPA interim MS for closure of remaining WMAs, Due: 1/31/2022, Status: On Schedule**

**M-045-70, Complete waste retrieval from all remaining SSTs, Due: 12/31/2040, Status: On Schedule**

**M-045-00, Complete Closure of all Single Shell Tank Farms, Due: 1/31/2043, Status: On Schedule**

**M-045-86, Submit retrieval data report to Ecology for 19 tanks retrieved, Due: TBD (12 months after retrieval certification), Status: On Schedule**

**Significant Past Accomplishments:**

- See discussions above and related discussions in Consent Decree report.

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

- See discussions above and related discussions in Consent Decree report.

**Issues:**

USDOE is deferring the final numeric modeling supporting the WMA C performance assessment to 2013 due to budget constraints in 2012. Impacts of this delay are being incorporated into the critical path schedules. Initial budget guidance for FY2013 will not support continuing the WMA C-PA in 2013. Impacts on individual milestones will be evaluated and presented through the TPA Paragraphs 148/149 process. ORP intends to meet and discuss the path forward with Ecology.

## Tank Waste Retrieval Work Plan (TWRWP) Status

Tank	TWRWP	Expected Revisions	Retrieval Technology	Second Technology	Third Technology
C-101	RPP-22520, Rev. 7	In process	MRS (per 10/7/10 agreement, to be Modified Sluicing)	Chemical Dissolution	-
C-102	RPP-22393, Rev. 6A	Complete	Modified Sluicing	Chemical Dissolution	-
C-104	RPP-22393, Rev. 6A	Complete	Modified Sluicing	Chemical Dissolution	-
C-105	RPP-22520, Rev. 7	In process	MARS-V	High pressure water spray/M A RS platform	-
C-107	RPP-22393, Rev. 6A	Complete	MARS-S	MARS-High Pressure	-
C-108	RPP-22393, Rev. 6A	Complete	Modified Sluicing	Chemical Dissolution	-
C-109	RPP-21895, Rev. 5	Complete	Modified Sluicing	Chemical Dissolution	-
C-110	RPP-33116, Rev. 2	In process	Modified Sluicing	None (to be revised to In-Tank Vehicle)	-
C-111	RPP-37739, Rev. 1	In process	Modified Sluicing	None (to be revised to In-Tank Vehicle)	-
C-112	RPP-22393, Rev. 6A	In process	Modified Sluicing	Chemical Dissolution	-

### Significant Accomplishments

None.

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

Work with Ecology on updates to TWRWPs RPP-22520, RPP-22393, RPP-33116, and RPP-37739 for tanks C-101, C-105, C-110, C-111, and C-112.

### 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 Six Months:**

Continue U.S. Nuclear Regulatory Commission (NRC) review of the C-106 exception request. A Request for Additional Information (RAI) 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 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: 9/30/22 Status: On schedule. Change package M-45-11-04 replaced tank S-102 with tank A-103 and changed to milestone completion date for M-045-15 to 09/30/2022.

**M-045-15A, Embedded Milestone, Submit a Retrieval Data Report Pursuant to Agreement Appendix I**, Due: 9/30/22, Status: On schedule. Updated with tank A-103 and due date of 9/30/22 per M-45-11-04 Change Package.

**M-045-15D, Embedded Milestone, if appropriate, DOE will request an exception to waste retrieval criteria pursuant to Agreement Appendix H**, Due: 9/30/22, Status: On Schedule. Updated with A-103 tank and due date of 9/30/22 per M-45-11-04 Change Package.

#### **Significant Past Accomplishments:**

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

#### **Significant Planned Activities in the Next Six Months and Issues:**

None

### **Tank 241-S-112**

**M-045-13, Interim Completion of Tank S-112 SST Waste Retrieval and Closure Demonstration Project**, Due: TBD (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: TBD 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.

#### **Significant Planned Activities in the Next Six Months or Issues:**

None

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

### 242-A Campaign strategy:

No campaigns were conducted in FY2011 due to ongoing 242-A and Tank Farm Life Extension and ARRA funded facility upgrades. The 242-A Campaign Strategy for FY2010 through FY2015 depicted below has been updated based on ORP-11242, River Protection Project Plan, Revision 6, and ongoing schedule integration efforts.

Fiscal Year	Campaign No.	Feed Source	Slurry Tank	Comments
FY10	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.
FY10	10-02	AW-106	AW-106	
FY11	NA	NA	NA	No campaign conducted in FY11 due to ongoing 242-A and Tank Farm facility life extension and ARRA funded upgrades.
FY12	NA	NA	NA	No campaign conducted in FY12 due to ongoing 242-A and Tank Farm facility upgrades and revision to the 242-A Documented Safety Analysis (DSA).
FY13	13-01	AP-107	AP-107	Estimated start May 2013. May require two (2) passes to achieve waste volume reduction.
FY13	13-02-	AW-106	AW-106	Estimated start July 2013.
FY14	14-01	AN-106 AZ-102 AW-106	AP-107	Estimated start March 2014. Two (2) passes required.
FY15	15-01	AY-101 AZ-102	AP-107	Estimated start March 2015. Three (3) passes required.
FY15	15-02	AY-101	AP-107	Estimated start August 2015. Four (4) passes required.

## **SST Integrity Assurance**

**M-045-91F-T01, Provide to Ecology as a HFFACO secondary document a report evaluating the applicability to Hanford SSTs of the liquid leak rate assessments of sludge and salt-cake from the Savannah River Site, Due: 1/31/2013, Status: To Be Missed. TPA change package M-45-12-01, moving M-45-91F-T01 and G-T03 out one year was signed by ORP and Ecology on 01/23/12.**

**M-045-91D-T01, Provide Ecology a report containing the results and interpretation of testing, and analysis performed on the concrete dome samples obtained from the Tank C-107 plug, Due: 5/31/2013, Status: On schedule.**

**M-045-91F-T03, Provide to Ecology, as a HFFACO secondary document a report assessing the feasibility of testing for ionic conductivity between the inside and outside of SSTs, Due: 5/31/2013, Status: Complete 05/02/2012. (ORP letter 12-TF-0009)**

**M-045-91F-T02, Provide to Ecology as a HFFACO 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: 7/31/2013, Status: To Be Missed.**

**M-045-91F-T04, provide to Ecology, as a HFFACO secondary document, a report on the 100-series single-shell tanks which have been or will be identified as having leaked in RPP-32681, Rev 0, Due: 7/31/2013, Status: To Be Missed.**

**M-045-91G-T03, Provide to Ecology the Structural Analyses of Record final documentation for SSTs for 1,000,000 gallon tanks (A, AX and SX Farms), Due: 9/30/2013, Status: On Schedule. TPA change package M-45-12-01, moving M-45-91F-T01 and G-T03 out one year was signed by ORP and Ecology on 1/23/2012.**

**M-045-91E, Provide to Ecology a compilation of the Single-Shell Tank farms dome deflection surveys every two years, beginning 9/30/2013, Due: 9/30/2013, Status: On schedule.**

**M-045-91G-T04, provide to Ecology the Structural Analyses of Record final documentation for SSTs for 55,000 gallon tanks (B, C, T and U Farms), Due: 10/31/2013, Status: To Be Missed.**

**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 -T04, Due: 12/31/2013, Status: To Be Missed.**

**M-045-91G, Provide a Summary Conclusions Report of Structural Analysis of Record (AOR) for SSTs, Due: 4/30/2014, Status: To Be Missed.**

**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 alternate tank, Due: 9/30/2014, 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 milestones to date, Due: 7/31/2015, Status: On schedule.**

**M-045-91I, Provide to Ecology an 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: 9/30/2018, Status: On schedule.**

**Significant Past Accomplishments:**

- None.

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

- Meet with Ecology to discuss “To Be Missed” target dates and interim milestone impacts.

**Issues:**

- FY2012 and FY2013 funding constraints have impacted M-045-91 scheduled work. ORP intends to meet and discuss impacts on individual milestones and targets dates for FY2013 and beyond with Ecology and work towards a path forward per the TPA Section 12.0 Change Process.

## **In Tank Characterization and Summary**

For the period from September 1 – September 30, 2012:

**Accomplishments:**

- Completed RPP-PLAN-53352, Rev. 0, *Tank 241-AY-102 Annulus Sampling and Analysis Plan.*
- Completed RPP-PLAN-53006, Rev. 0, *Tank 241-AW-106 Grab Sampling and Analysis Plan in Support of Evaporator Campaign for Fiscal Year 2013.*
- Completed RPP-PLAN-51719, Rev. 2, *Tank Sampling and Analysis Plan for 241-C-109 Hard Heel Dissolution.*
- Completed RPP-26781, Rev. 8, *Tank Operations Contractor Sampling Projections for FY2013 through FY2017.*
- Completed liquid grab sampling of tank 241-SY-102 for chemistry control on September 12, 2012. A total of 12 samples and a field blank were collected from various depths.
- Completed liquid grab sampling of tank 241-AY-102 leak detector pit (LDP) on September 5, 2012.
- Completed initial solids sampling of the 241-AY-102 annulus through Riser 91 on September 27, 2012.

- Completed 2 liquid grab sampling events during the hard heel retrieval of C-109. Liquid grab samples were collected on September 10, and 11, 2012 during sodium aluminate dissolution.
- RPP-RPT-53117, Rev. 0, *Final Report for Tank 241-AZ-102 Grab Liquid Samplings in Support of Corrosion Mitigation, Waste Compatibility and Strategic Planning for Fiscal Year 2012* was released on September 13, 2012.

**Planned Action within the next Six Months:**

- Tank Sampling
  - Additional Tank 241-AY-102 annulus sampling is currently scheduled for October 2012.
  - Tank 241-C-104 ORSS sampling for closure is currently scheduled for October 2012.
  - Tank 241-AN-106 grab sampling for chemistry control is currently scheduled for November 2012.
  - Tank 241-AW-106 grab sampling for the evaporator is currently scheduled for November 2012.
  - Tank 241-AN-102 grab sampling for chemistry control is currently scheduled for December 2012.

- BBI Updates

The following tanks have been identified for updates in FY12 Quarter 4. The BBI updates will be released in October 2012.

- 241-AN-101
- 241-AN-102
- 241-AN-106
- 241-AP-104
- 241-AY-101
- 241-AY-102
- 241-AZ-101
- 241-AZ-102
- 241-C-104
- 241-C-107
- 241-C-109

## TANK OPERATIONS CONTRACT (TOC) OVERVIEW

### Project Performance

The earned value performance reporting reflects the format, Work Breakdown Structure (WBS) reporting levels, and variance thresholds as agreed to with the Tank Farms Operations Contractor (TOC) for monthly performance reporting. The earned value analysis is not intended to be a measurement of performance against existing Tri-Party Agreement Milestones.

As of August 31, 2012, Washington River Protection Solutions LLC (WRPS) worked 4,912,187 hours (508 days) without a Lost Time Workday Injury and 486,402 hours (50 days) without a Recordable case. There were no Days Away, Restricted, or Transferred (DART) cases or Recordable cases in August.

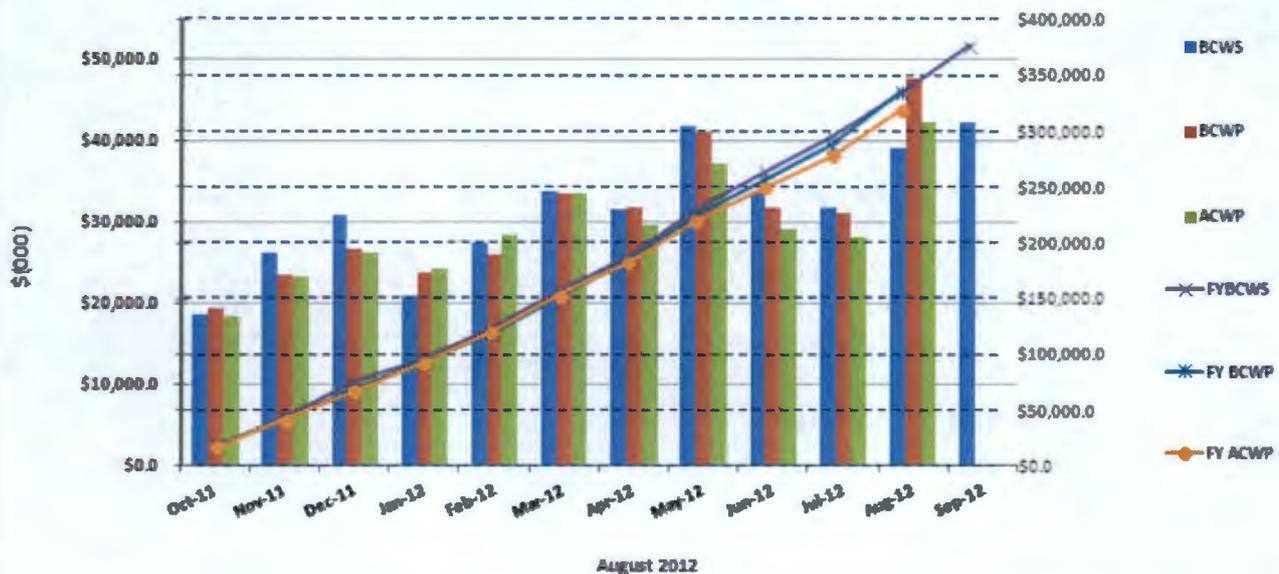
### August EVMS Data

WRPS Project Performance - (\$k)										
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC
CM	44,037.3	43,768.2	41,765.8	(269.1)	2,002.4	0.99	1.05			
FYTD	339,886.0	332,183.1	319,759.9	(7,702.9)	12,423.2	0.98	1.04	379,262.9	361,962.7	17,300.2
CTD	1,565,053.5	1,551,232.9	1,482,890.2	(13,820.6)	68,342.7	0.99	1.05	2,158,846.1	2,084,549.1	74,297.0

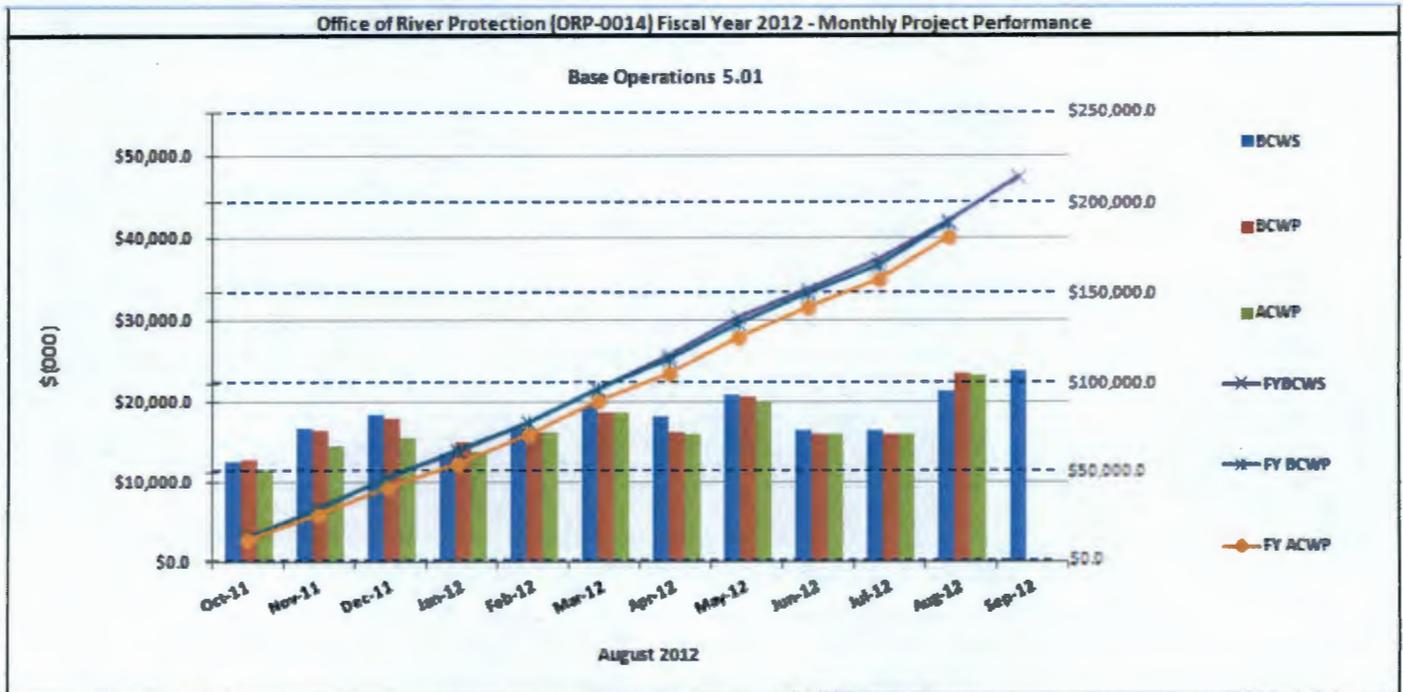
Red shaded cells indicates a SPI/CPI less than .90;  
 Green shaded cells indicate a SPI/CPI between .90 and .99; and  
 Blue shaded indicates a SPI/CPI greater than or equal to 1.0

Office of River Protection [ORP-0014] Fiscal Year 2012 - Monthly Project Performance

EVMS Monthly and Fiscal Year Values - ORP-0014



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-11	\$18,559.4	\$19,444.2	\$18,408.0	1.05	1.06	\$18,559.4	\$19,444.2	\$18,408.0	1.05	1.06
Nov-11	\$26,121.7	\$23,436.0	\$23,336.0	0.90	1.00	\$44,681.1	\$42,880.2	\$41,744.0	0.96	1.03
Dec-11	\$30,678.0	\$26,611.0	\$26,115.0	0.87	1.02	\$75,359.1	\$69,491.2	\$67,859.0	0.92	1.02
Jan-12	\$20,716.5	\$23,741.2	\$24,148.4	1.15	0.98	\$96,075.6	\$93,232.4	\$92,007.4	0.97	1.01
Feb-12	\$27,334.7	\$26,007.7	\$28,261.8	0.95	0.92	\$123,410.3	\$119,240.1	\$120,269.2	0.97	0.99
Mar-12	\$33,615.5	\$33,405.7	\$33,466.4	0.99	1.00	\$157,025.8	\$152,645.8	\$153,735.6	0.97	0.99
Apr-12	\$31,512.7	\$31,843.8	\$29,637.5	1.01	1.07	\$188,538.5	\$184,489.6	\$183,373.1	0.98	1.01
May-12	\$41,772.6	\$41,107.6	\$37,244.1	0.98	1.10	\$230,311.1	\$225,597.2	\$220,617.2	0.98	1.02
Jun-12	\$33,827.2	\$31,750.9	\$29,176.7	0.94	1.09	\$264,138.3	\$257,348.1	\$249,793.9	0.97	1.03
Jul-12	\$31,710.0	\$31,066.6	\$28,200.6	0.98	1.10	\$295,848.3	\$288,414.7	\$277,994.5	0.97	1.04
Aug-12	\$39,046.5	\$47,643.2	\$42,255.5	1.22	1.13	\$334,894.8	\$336,057.9	\$320,250.0	1.00	1.05
Sep-12	\$42,144.6	\$0.0	\$0.0	0.00	0.00	\$377,039.4			0.00	0.00
CTD	\$1,565,053.5	\$1,551,232.9	\$1,482,890.2	0.99	1.05					



Earned Value Month	BCWS	BCVP	ACVP	SPI	CPI	FYBCWS	FY BCVP	FY ACVP	FY SPI	FY CPI
Oct-11	\$12,392.2	\$12,786.7	\$11,613.8	1.03	1.10	\$12,392.2	\$12,786.7	\$11,613.8	1.03	1.10
Nov-11	\$16,611.9	\$16,361.1	\$14,369.5	0.98	1.14	\$29,004.1	\$29,147.8	\$25,983.3	1.00	1.12
Dec-11	\$18,475.0	\$17,939.2	\$15,354.0	0.97	1.17	\$47,479.1	\$47,087.0	\$41,337.3	0.99	1.14
Jan-12	\$13,582.4	\$14,954.3	\$13,803.4	1.10	1.08	\$61,061.5	\$62,041.3	\$55,140.7	1.02	1.13
Feb-12	\$16,737.0	\$16,169.5	\$16,105.1	0.97	1.00	\$77,798.5	\$78,210.8	\$71,245.8	1.01	1.10
Mar-12	\$19,272.8	\$18,703.5	\$18,623.5	0.97	1.00	\$97,071.3	\$96,914.3	\$89,869.3	1.00	1.08
Apr-12	\$18,206.1	\$16,155.1	\$15,909.1	0.89	1.02	\$115,277.4	\$113,069.4	\$105,778.4	0.98	1.07
May-12	\$20,828.7	\$20,643.6	\$20,118.7	0.99	1.03	\$136,106.1	\$133,713.0	\$125,897.1	0.98	1.06
Jun-12	\$16,312.2	\$15,867.6	\$15,822.5	0.97	1.00	\$152,418.3	\$149,580.6	\$141,719.6	0.98	1.06
Jul-12	\$16,314.9	\$16,034.9	\$15,959.0	0.98	1.00	\$168,733.2	\$165,615.5	\$157,678.6	0.98	1.05
Aug-12	\$21,208.3	\$23,485.3	\$23,275.1	1.11	1.01	\$189,941.5	\$189,100.8	\$180,953.7	1.00	1.05
Sep-12	\$23,752.6	\$0.0	\$0.0	0.00	0.00	\$213,694.1			0.00	0.00
<b>CTD</b>	<b>\$1,035,344.0</b>	<b>\$1,032,864.1</b>	<b>\$1,000,690.6</b>	<b>1.00</b>	<b>1.03</b>					

**Base Operations**

Schedule Variance 25.4K:

The favorable schedule variance is primarily due to:

- Acceleration of DST to DST transfers
- Schedule recovery on installation of the AP Farm ventilation flow test ports
- Schedule recovery on Base Ops Engineering Initiatives taking performance of the variable frequency drives (VFDs) workscope.

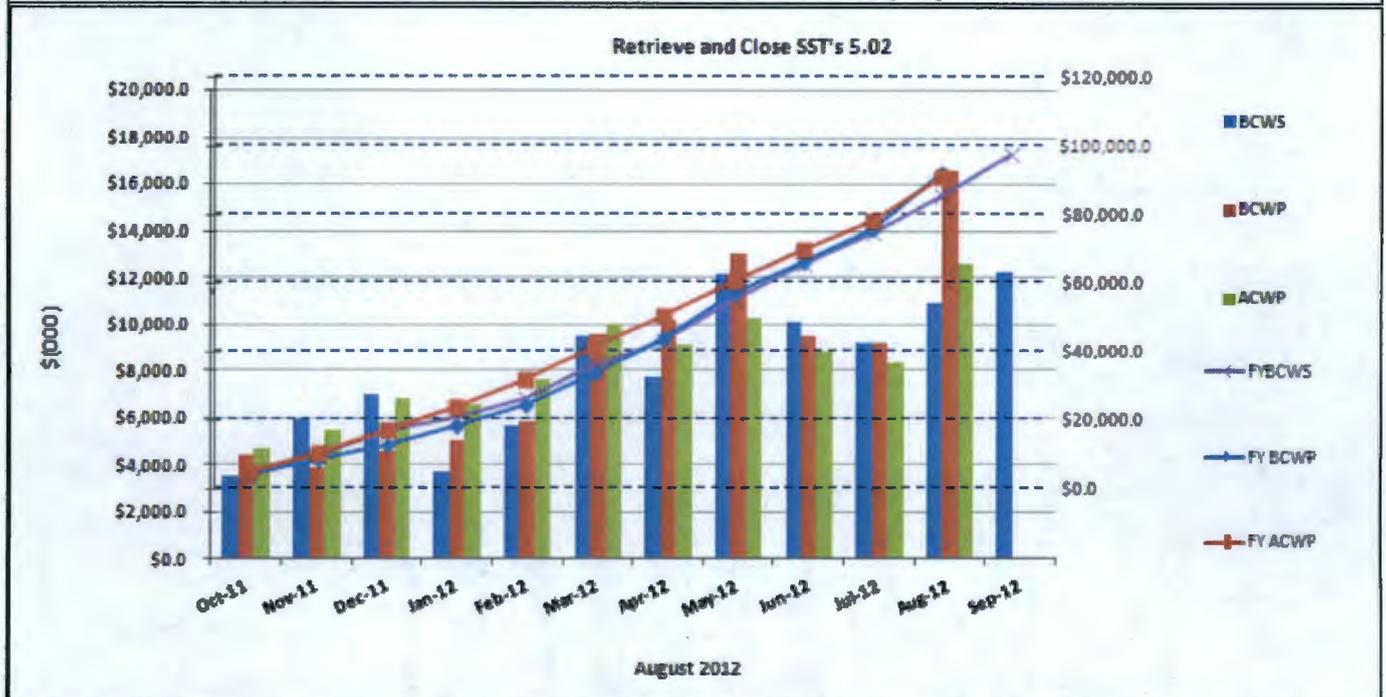
Cost Variance 703.4K:

The favorable cost variance is primarily due to:

- 242-A Evaporator Jumper Modifications and Maintenance
- Reduced need for 222-S sample analysis and the associated waste handling oversight and storage for analytical production

- Leak checks were not required to support five waste transfers in the month because no pit entry work was performed since the last leak checks

Office of River Protection (DRP-0014) Fiscal Year 2012 - Monthly Project Performance



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-11	\$3,580.0	\$4,402.2	\$4,709.1	1.23	0.93	\$3,580.0	\$4,402.2	\$4,709.1	1.23	0.93
Nov-11	\$5,940.2	\$3,864.7	\$5,462.1	0.65	0.71	\$9,520.2	\$8,266.9	\$10,171.2	0.87	0.81
Dec-11	\$7,038.0	\$4,650.9	\$6,844.4	0.66	0.68	\$16,558.2	\$12,917.8	\$17,015.6	0.78	0.76
Jan-12	\$3,732.7	\$5,070.3	\$6,601.7	1.36	0.77	\$20,290.9	\$17,988.1	\$23,617.3	0.89	0.76
Feb-12	\$5,629.0	\$5,885.6	\$7,633.1	1.05	0.77	\$25,919.9	\$23,873.7	\$31,250.4	0.92	0.76
Mar-12	\$9,484.6	\$9,596.9	\$9,999.9	1.01	0.96	\$35,404.5	\$33,470.6	\$41,250.3	0.95	0.81
Apr-12	\$7,717.2	\$10,237.2	\$9,151.0	1.33	1.12	\$43,121.7	\$43,707.8	\$50,401.3	1.01	0.87
May-12	\$12,189.8	\$13,026.7	\$10,318.8	1.07	1.26	\$55,311.5	\$56,734.5	\$60,720.1	1.03	0.93
Jun-12	\$10,070.2	\$9,493.6	\$8,872.0	0.94	1.07	\$65,381.7	\$66,228.1	\$69,592.1	1.01	0.95
Jul-12	\$9,234.0	\$9,191.1	\$8,374.3	1.00	1.10	\$74,615.7	\$75,419.2	\$77,966.4	1.01	0.97
Aug-12	\$10,876.4	\$16,566.2	\$12,596.6	1.52	1.32	\$85,492.1	\$91,985.4	\$90,563.0	1.08	1.02
Sep-12	\$12,201.8	\$0.0	\$0.0	0.00	0.00	\$97,693.9			0.00	0.00
<b>CTD</b>	<b>\$339,699.0</b>	<b>\$340,909.1</b>	<b>\$333,995.8</b>	<b>1.00</b>	<b>1.02</b>					

Single-Shell Tanks

Cost Variance 2,014.2K:

The favorable cost variance is primarily due to:

- Efficiencies achieved in C-107 operations using the new MARS and performance earned for completing this activity early
- Efficiencies achieved in C-104 hard heel removal activities.
- Efficiencies and progress earned for completing several activities (i.e., installation of transfer pump, two ERSS containment boxes, and splitter box

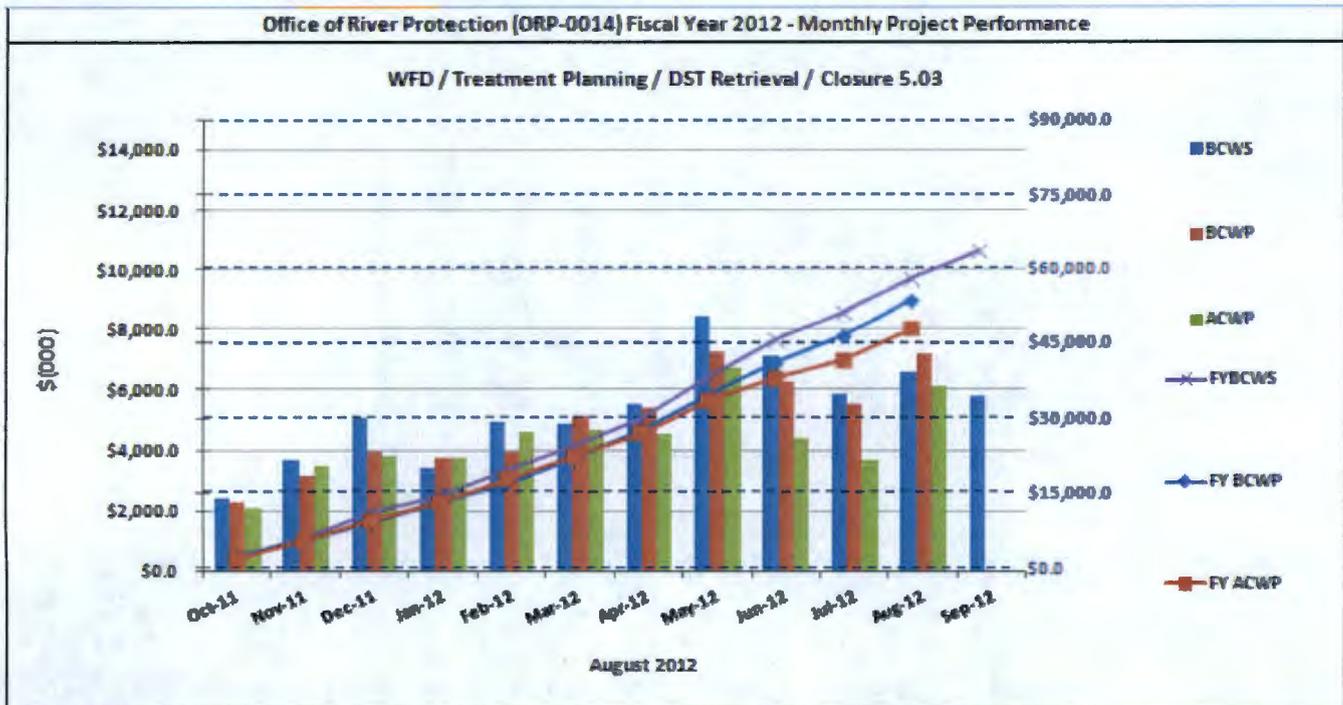
The favorable CV was partially offset by:

- Increased attention given to the AN-101 pump replacement has driven increased engineering reviews

**Schedule Variance (\$1,238.6K):**

The unfavorable schedule variance is primarily due to:

- Delay of the C-105 Retrieval System Installation



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-11	\$2,399.7	\$2,255.3	\$2,062.4	0.94	1.09	\$2,399.7	\$2,255.3	\$2,062.4	0.94	1.09
Nov-11	\$3,657.3	\$3,110.4	\$3,461.2	0.85	0.90	\$6,057.0	\$5,365.7	\$5,523.6	0.89	0.97
Dec-11	\$5,080.5	\$3,936.3	\$3,833.1	0.77	1.03	\$11,137.5	\$9,302.0	\$9,356.7	0.84	0.99
Jan-12	\$3,401.5	\$3,716.7	\$3,770.3	1.09	0.99	\$14,539.0	\$13,018.7	\$13,127.0	0.90	0.99
Feb-12	\$4,968.7	\$3,952.6	\$4,632.5	0.80	0.85	\$19,507.7	\$16,971.3	\$17,759.5	0.87	0.96
Mar-12	\$4,858.0	\$5,105.4	\$4,692.0	1.05	1.09	\$24,365.7	\$22,076.7	\$22,451.5	0.91	0.98
Apr-12	\$5,556.4	\$5,404.5	\$4,531.6	0.97	1.19	\$29,922.1	\$27,481.2	\$26,983.1	0.92	1.02
May-12	\$8,445.0	\$7,287.9	\$6,700.7	0.86	1.09	\$38,367.1	\$34,769.1	\$33,683.8	0.91	1.03
Jun-12	\$7,161.6	\$6,283.3	\$4,371.8	0.88	1.44	\$45,528.7	\$41,052.4	\$38,055.6	0.90	1.08
Jul-12	\$5,877.8	\$5,563.2	\$3,676.8	0.95	1.51	\$51,406.5	\$46,615.6	\$41,732.4	0.91	1.12
Aug-12	\$6,604.1	\$7,197.4	\$6,103.9	1.09	1.18	\$58,010.6	\$53,813.0	\$47,836.3	0.93	1.12
Sep-12	\$5,832.4	\$0.0	\$0.0	0.00	0.00	\$63,843.0			0.00	0.00

CTD	\$213,877.0	\$210,049.6	\$177,827.5	0.98	1.18
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**Waste Feed Delivery/Treatment/DST Retrieval Closure**

**Schedule Variance 778.6K:**

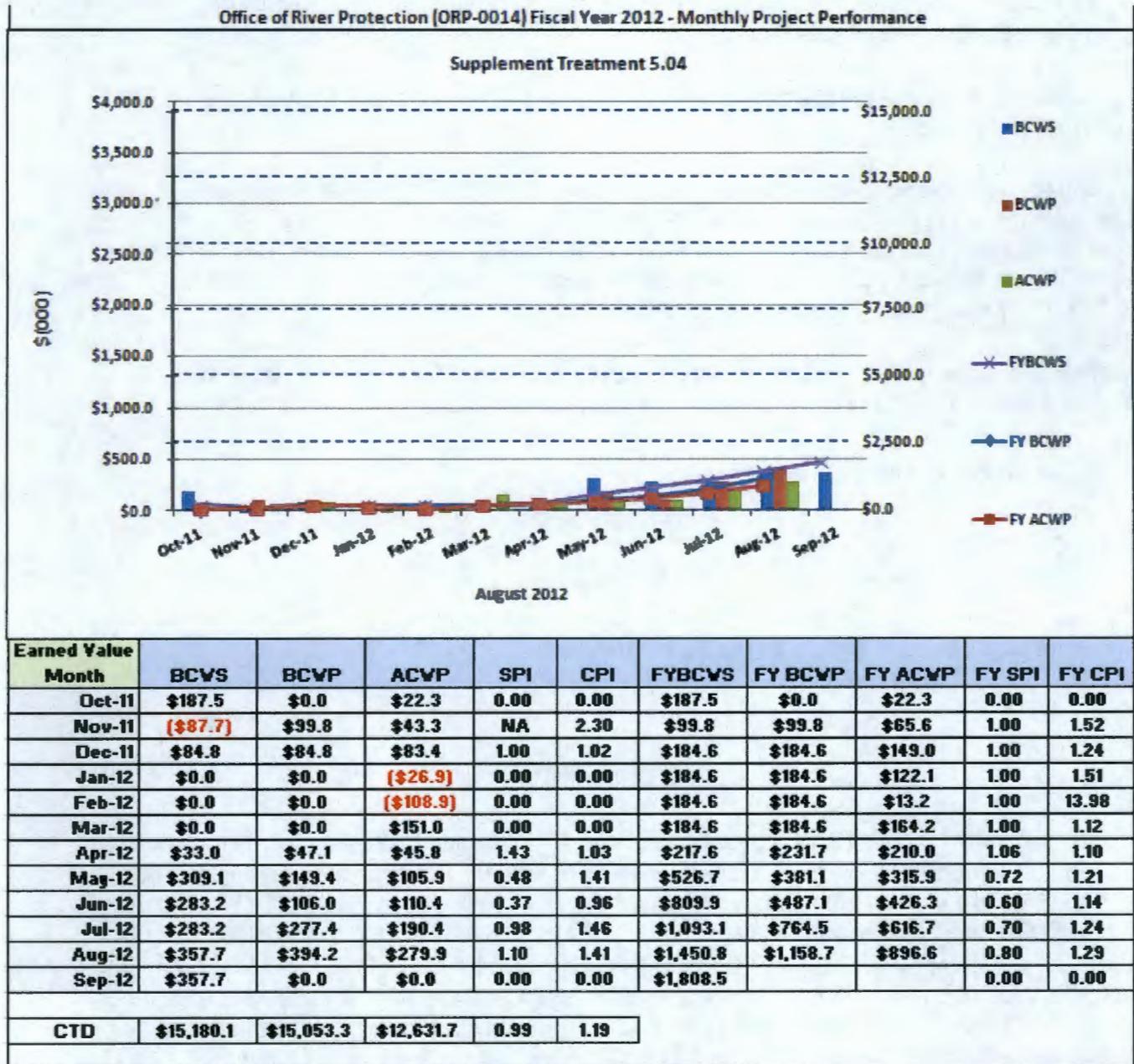
The favorable schedule variance is primarily due to:

- Schedule recovery in August for Limits of Performance Testing and Scaled Performance

**Cost Variance (\$866.6K):**

The unfavorable cost variance is primarily due to:

- Increased costs for the procurement of the simulant for the scaled performance tests and vendor accruals for analytical and waste disposal activities



**Supplemental Treatment**

None.

## Acquisition of New Facilities

**M-090-11, Complete the Negotiation of No More Than Two Canister Storage Facility Construction Interim Milestones, Due: 12/31/12, Status: To Be Missed.** Formal notification to miss this milestone was provided to Ecology via ORP Letter 12-ECD-0024 on 06/27/12. ORP and Ecology held a negotiation meeting on 08/21/12 to discuss the M-047-06 and M-090-11 milestones. Please see issues below.

**M-090-00, Acquire/modify facilities for storage of IHLW, Due: 12/31/2019, Status: On Schedule**

**M-047-06, Complete negotiation of no more than two interim milestones governing work necessary to support completion of M-047-00, Due: 06/30/12, Status: Missed.** Formal notification to miss this milestone was provided to Ecology via ORP Letter 12-ECD-0024 on 06/27/12. ORP and Ecology held a negotiation meeting on 08/21/12 to discuss the M-047-06 and M-090-11 milestones. Please see issues below.

**M-047-00, Complete Work Necessary to provide facilities for management of secondary waste from the WTP, Due: 12/31/2022, Status: On Schedule**

### Significant Past Accomplishments:

Interim Hanford Storage: Nothing to report.

Secondary Liquid Waste Treatment Project: Nothing to report.

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

None.

### Issues:

ORP submitted signed TPA Change Packages M-47-12-01 and M-90-12-01 to Ecology on 06/13/12 to defer negotiation of these milestones to a To Be Determined (TBD) date to be established 12 months following completion of the River Protection Plan (RPP) Waste Treatment Plant (WTP) re-baseline/re-planning efforts. Ecology provided letters 12-NWP-101 and 12-NWP-100 disapproving M-47-12-01 and M-90-12-01 TPA Change Packages to ORP on 06/25/12. Formal notification to miss milestones M-047-06 and M-090-11 provide to Ecology via ORP Letter 12-ECD-0024 on 06/27/12. Ecology issued a Notice of Violation (NOV) for M-047-06 on 07/12/12 per letter 12-NWP-118. ORP received Ecology letter 12-NWP-122, Docket Number 9402, stipulating a penalty of \$5,000 for missing M-047-06 on 07/19/12. ORP paid this penalty on 07/27/12. ORP and Ecology held a negotiation meeting on 08/21/12 to discuss the M-047-06 and M-090-11 milestones.

## Supplemental Treatment and Part B Permit Applications

**M-062-40ZZ, Submit a one-time Tank Waste Supplemental Treatment Technologies report if a supplemental treatment technology is proposed other than a 2nd LAW, Due: 10/31/2014, Status: On Schedule.**

**M-062-45ZZ, Negotiate a one-time supplemental treatment selection, Due: 4/30/2015, Status: On schedule. Negotiations are not yet underway.**

**M-062-45ZZ-A, Convert M-062-31-T01 through M-062-34-T01 to Interim Milestones, Due: 4/30/2015, Status: On Schedule.**

**M-062-31-T01, Complete final design and submit RCRA Part B permit mod request, Due: 4/30/2016, Status: On schedule**

**M-062-32-T01, Start construction of supplemental vitrification treatment facility and/or WTP enhancements, Due: 4/30/2018, Status: On schedule**

**M-062-33-T01, Complete construction of supplemental vitrification treatment facility and/or WTP enhancements, Due: 4/30/2021, Status: On schedule**

**M-062-45XX, No later than 12/31/2021, 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: 12/31/2021, Status: On Schedule**

**M-062-34-T01, Complete hot commissioning of supplemental vitrification treatment facility and/or WTP enhancements, Due: 12/30/2022, Status: On schedule**

**M-062-21, Annually, submit data that demonstrates operation of the WTP, Due: 2/28/2023, Status: On Schedule**

**M-062-00, Complete Pretreatment Processing and Vitrification of HLW and LAW Tank Wastes, Due: 12/31/2047, Status: On Schedule**

### Significant Past Accomplishments:

None

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

None

### Issues:

None

## System Plan

**M-062-40B, Submit a system plan describing the disposition of all tank waste managed by ORP, Due: 10/31/2011, Status: Completed 10/24/2011 via DOE-ORP/ECY joint signature letter 11-TPD-087.**

**M-062-40C, Select a minimum of three scenarios that will be analyzed in the system plan, Due: 10/31/2013, Status: On Schedule**

**M-062-40D, Submit a system plan describing the disposition of all tank waste managed by ORP, Due: 10/31/2014, Status: On Schedule**

**M-062-45-T01, Every six years, within six-months after last revision of the System Plan, negotiate tank waste retrieval sequencing, Due: 4/30/2015, Status: On Schedule**

### **Significant Past Accomplishments:**

DOE/ORP submitted the River Protection Project System Plan, Revision 6, with a joint Ecology signature to EPA on October 24, 2011.

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

None

### **Status:**

During the May 2012 ORP/Ecology TPA Quarterly Meeting, it was stated that five proposed/draft scenarios/cases were submitted to Washington River Protection Solutions LLC (WRPS) for System Plan 6 Addendum (SP6A). No verbal or written direction has been provided to WRPS to begin simulation/modeling of the proposed/draft scenarios.

Since then, various circumstances have occurred, in which the five proposed/draft scenarios are no longer considered scenarios. No new scenarios have been proposed for SP6A. System Plan 7 is still on schedule to begin in the May-August 2013 time frame.

### **Issues:**

None

**WASTE TREATMENT AND IMMOBILIZATION PLANT (WTP) PROJECT**

<b>Number</b>	<b>Title</b>	<b>Due Date</b>	<b>Status</b>
M-062-01Y	Submit Semi-Annual TPA Project Compliance Report	07/31/2012	Completed – Report hand-delivered on 07/27/2012
M-062-01Z	Submit Semi-Annual TPA Project Compliance Report	01/31/2013	On Schedule

**\*SEE THE OCTOBER 2012 ORP CONSENT DECREE 08-5085-FVS MONTHLY SUMMARY REPORT FOR WTP FACILITY-SPECIFIC INFORMATION**

**FINAL**

**Office of River Protection  
Consent Decree 08-5085-FVS  
Monthly Summary Report  
October 2012**

Office of River Protection  
 Consent Decree 08-5085-FVS  
 Monthly Summary Report  
 October 2012

Page	Topic	Leads
3	Statistics / Status	James Lynch / Dan McDonald / Jeff Lyon
5	SST Retrieval and Closure – D-00B-01, -02, -03, -04	Chris Kemp / Jeff Lyon
6	Tank Waste Retrieval Work Plan (TWRWP) Status – Consent Decree Appendix C	Chris Kemp / Jeff Lyon
7	SST Retrieval Monthly and Fiscal Year EVMS Data	Dan Knight / Jeff Lyon
8	WTP - Immobilization Plant Project – D-00A-06, D-00A-17, D-00A-01	Delmar Noyes / Dan McDonald
10	WTP Pretreatment (PT) Facility – D-00A-18, -19, -13, -14, -15, 16	Wahed Abdul / Dan McDonald
13	High-Level Waste (HLW) Facility – D-00A-20, -21, 02, 03	Wahed Abdul / Dan McDonald
16	Low-Activity Waste (LAW) Facility – D-00A-07, -08, -09	Jeff Bruggeman / Dan McDonald
19	Balance of Facilities (BOF) – D-00A-12	Jason Young / Dan McDonald
21	Analytical Laboratory (LAB) – D-00A-005	

Milestone	Title	Due Date	Completion Date	Status
<b>Fiscal Year 2012</b>				
D-00C-02L	Submit to Ecology and Oregon Monthly Summary Reports	10/31/11	10/25/11	Completed
D-00C-02M	Submit to Ecology and Oregon Monthly Summary Reports	11/30/11	11/21/11	Completed
D-00C-02N	Submit to Ecology and Oregon Monthly Summary Reports	12/31/11	12/27/11	Completed
D-00C-02O	Submit to Ecology and Oregon Monthly Summary Reports	01/31/12	01/25/12	Completed
D-00C-01D	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	01/31/12	01/27/12	Completed
D-00C-02P	Submit to Ecology and Oregon Monthly Summary Reports	02/29/12	02/22/12	Completed
D-00C-02Q	Submit to Ecology and Oregon Monthly Summary Reports	03/31/12	03/31/12	Completed
D-00C-02R	Submit to Ecology and Oregon Monthly Summary Reports	04/30/12	04/26/12	Completed
D-00C-02S	Submit to Ecology and Oregon Monthly Summary Reports	05/31/12	05/29/12	Completed
D-00C-02T	Submit to Ecology and Oregon Monthly Summary Reports	06/30/12	06/29/12	Completed
D-00C-02U	Submit to Ecology and Oregon Monthly Summary Reports	07/31/12	07/26/12	Completed
D-00C-01E	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	07/31/12	07/27/12	Completed
D-00C-02V	Submit to Ecology and Oregon Monthly Summary Reports	08/31/12	08/22/12	Completed
D-00C-02W	Submit to Ecology and Oregon Monthly Summary Reports	09/30/12	09/29/12	Completed
<b>Fiscal Year 2013</b>				
D-00C-02X	Submit to Ecology & State of Oregon Monthly Summary Report	10/31/2012		On-going
**D-00C-02Y	Submit to Ecology & State of Oregon Monthly Summary Report	11/30/2012		On-going
** Future Monthly Reports will be added as necessary to maintain a two-months ahead activity.				
D-00A-05	LAB Construction Substantially Complete	12/31/2012		On-going
D-00A-12	Steam Plant Construction Complete	12/31/2012		On-going
D-00A-21	Complete Construction of Structural Steel to EL. 37' in HLW Fac.	12/31/2012		On-going

Milestone	Title	Due Date	Completion Date	Status
<b>Fiscal Year 2013 Continued</b>				
D-00C-01F	Submit to Ecology & State of Oregon Semi-Annual Report	01/31/2013		On-going
D-00C-01G	Submit to Ecology & State of Oregon Semi-Annual Report	07/31/2013		On-going
D-006-00-A1	Provide State of Oregon Notice of Meetings	09/25/2013		On-going

## Reports

**D-00C-01 series, Submit to Ecology & State of Oregon Semi-Annual Report, Due: Semi-Annually – January 31<sup>st</sup> and July 31<sup>st</sup> of each year. Status: On-going**

**D-00C-02 series, Submit to Ecology & State of Oregon Monthly Summary Report Documenting Progress During Previous Month, Due: End of Each Month, Status: On-going**

**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, Due: 9/25/2013, Status: On-going**

**D-006-00-A, Meet Approximately Every Three Years After Entry of Decree to review requirements of the Consent Decree, Due: 10/25/2013, Status: On-going**

## SST Retrieval Program

**D-00B-01, Complete Retrieval of Tank Wastes from 10 Remaining SSTs in WMA-C, Due: 9/30/2014, Status: On-going**

**D-00B-01A thru J, Submit Tank Retrieval Complete Certification, Due: TBD**

Pursuant to the requirement in Section IV-B-5 of the Consent Decree (CD) DOE must submit to Ecology a written certification that DOE has completed retrieval of a tank in accordance with the requirements of Appendix "C", Part 1, of the CD.

**D-00B-02, Advise Ecology of the 9 SSTs from which Waste Will Be Retrieved by 2022, Due: 9/30/2014, Status: Completed on 08/24/2011.**

**D-00B-03, Initiate Startup of Retrieval in At Least 5 of 9 SSTs in D-00B-02, Due: 12/31/2017, Status: On-going**

**D-00B-04, Complete Retrieval of Tank Wastes from the 9 SSTs in D-00B-02, Due: 9/30/2022, Status: On-going**

**D-00B-04A thru I, Submit Tank Retrieval Complete Certification, Due: TBD**

### Significant Past Accomplishments:

1. Completed removal of legacy (long length) equipment in C-102.
2. Completed installation of the Modified Sluicing retrieval equipment including, slurry pumps and Extended Reach Sluicing Systems (ERSS) at both C-101 and C-102.
3. Continued construction activities for removal of equipment at C-105 to support large riser installation.
4. Completed hard heel retrieval of waste at C-109.
5. Completed installation of new HIHTLs between AN06A pit and POR014 valve box.

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

1. Complete start up of the modified sluicing system in C-101.
2. Complete start up of the modified sluicing system in C-102.
3. Complete removal of equipment/pit at C-105.
4. Complete installation of the large riser in C-105.
5. Complete C-107 hard heel retrieval.
6. Submit retrieval certificates of completion for C-104, C-108, and C-109 to Ecology.

### Issues:

None.

### Tank Waste Retrieval Work Plan (TWRWP) Status

Tank	TWRWP	Expected Revisions	Retrieval Technology	Second Technology	Third Technology
C-101	RPP-22520, Rev. 7	In process	MRS (per 10/7/10 agreement, to be Modified Sluicing)	Chemical Dissolution	-
C-102	RPP-22393, Rev. 6A	Complete	Modified Sluicing	Chemical Dissolution	-
C-104	RPP-22393, Rev. 6A	Complete	Modified Sluicing	Chemical Dissolution	-
C-105	RPP-22520, Rev. 7	In process	MARS-V	High pressure water spray/M A RS platform	-
C-107	RPP-22393, Rev. 6A	Complete	MARS-S	MARS-High Pressure	-
C-108	RPP-22393, Rev. 6A	Complete	Modified Sluicing	Chemical Dissolution	-
C-109	RPP-21895, Rev. 5	Complete	Modified Sluicing	Chemical Dissolution	-
C-110	RPP-33116, Rev. 2	In process	Modified Sluicing	None (to be revised to In-Tank Vehicle)	-
C-111	RPP-37739, Rev. 1	In process	Modified Sluicing	None (to be revised to In-Tank Vehicle)	-
C-112	RPP-22393, Rev. 6A	In process	Modified Sluicing	Chemical Dissolution	-

#### Significant Accomplishments

None.

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

Work with Ecology on updates to TWRWPs RPP-22520, RPP-22393, RPP-33116, and RPP-37739 for tanks C-101, C-105, C-110, C-111, and C-112.

#### Issues:

None.

### SST Retrieval Monthly and Fiscal Year EVMS Data

Office of River Protection (ORP-0014) Fiscal Year 2012 - Monthly Project Performance



Earned Value Month	BCWS	BCVP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-11	\$3,580.0	\$4,402.2	\$4,709.1	1.23	0.93	\$3,580.0	\$4,402.2	\$4,709.1	1.23	0.93
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Sep-12	\$12,201.8	\$0.0	\$0.0	0.00	0.00	\$97,693.9			0.00	0.00

<b>CTD</b>	<b>\$339,699.0</b>	<b>\$340,909.1</b>	<b>\$333,995.8</b>	<b>1.00</b>	<b>1.02</b>
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#### Single-Shell Tanks

##### Cost Variance (\$816.8K):

The favorable cost variance is primarily due to:

- Efficiencies achieved in C-104 hard heel removal activities
- Efficiencies in material procurements and HIHTL installation
- C-102 containment boxes cost efficiencies in the procurement and system installation
- C-107 cost efficient retrieval operations using the new MARS

The favorable CV was partially offset by:

- Additional replacement pump testing and labor for pump removal at C-109

**WASTE TREATMENT AND IMMOBILIZATION PLANT (WTP) PROJECT**

<b>Number</b>	<b>Title</b>	<b>Due Date</b>	<b>Status</b>
D-00A-06	Complete Methods Validations	12/31/2017	On-going* (see issues below)
D-00A-17	Hot Start of Waste Treatment Plant	12/31/2019	On-going* (see issues below)
D-00A-01	Achieve Initial Plant Operations for WTP	12/31/2022	On-going* (see issues below)

The WTP Project currently employs approximately 2391 Full-Time Equivalent (FTE) contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel, including 594 craft, 431 non-manual, and 118 subcontractor personnel FTEs working at the WTP construction site (all facilities). As of August 2012, the project was 66 percent complete overall, design and engineering was 87 percent complete, procurement was 71 percent complete, construction was 63 percent complete, and startup and commissioning was 16 percent complete.

The overall WTP Project schedule variance in August was a negative \$110 M; the cost variance was a negative \$55.5 M. The schedule variance was primarily related to Engineering Design, Plant Equipment; and the cost variance was primarily related to Engineering Design, Construction Crafts, Engineering Equipment and Bulk Material.

The following is the status of project matters through the end of August:

**Significant Past Accomplishments:**

- Released the initial long lead procurements for the UFP-2 array, 14' test vessel & steel heads and structural steel test stand/skid. (PT)
- Bechtel completed the Consent Decree Milestone (D-00A-21) "Complete Construction of Structural Steel to 37' in HLW Facility." (HLW)
- Issued mechanical handling conduit layout plan at elevation +3'. (LAW)
- Completed installation of the cathodic protection jumpers in the Steam Plant. (BOF)
- Completed RLD Vessel weld inspections (3 vessels), 2 require minor repairs, 1 requires more extensive weld repair and retest. (LAB)

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

- Issue the final report documenting the results from the entrainment coefficient testing for the PVV system. (PT)
- Submit 37' Structural Steel milestone completion notification to Ecology. (HLW)
- Complete installation of melter power supplies. (LAW)
- Complete installation of Auto Sampling (ASX system). (LAW)
- Complete construction of the cooling tower. (BOF)
- Complete construction of the Steam Plant. (BOF)
- Complete mechanical installation of autosampling system (LAB)

**Issues:**

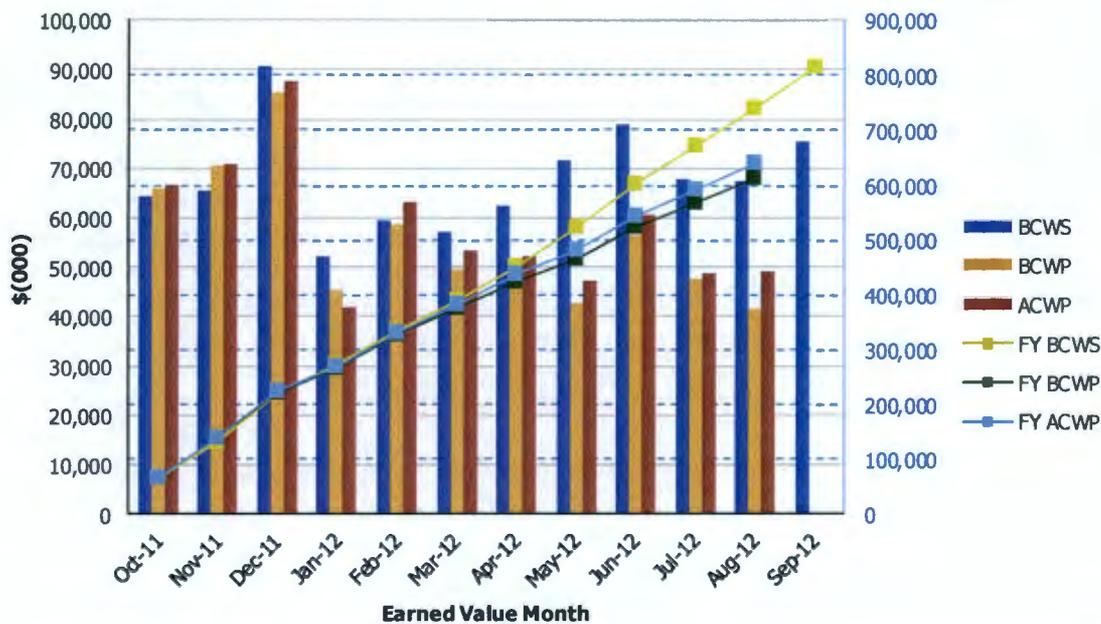
- Technical issues relevant to the PTF and HLW facilities include, among others, pulse jet mixers, corrosion/erosion in piping and vessels, hydrogen accumulation, and waste feed issues.
- Various issues may have potential impacts on the HLW schedule. This includes risks that the project has already realized and the plans for addressing the remaining risks in the HLW.
- There are no significant technical issues in LAW, LAB or BOF at this time.

Data Set: FY 2012 Earned Value Data

Data as of: August 2012

**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 2011	\$64,411	\$65,869	\$66,670	1.02	0.99	\$64,411	\$65,869	\$66,670	1.02	0.99
Nov 2011	\$65,647	\$70,625	\$70,879	1.08	1.00	\$130,058	\$136,494	\$137,549	1.05	0.99
Dec 2011	\$90,699	\$85,246	\$87,845	0.94	0.97	\$220,757	\$221,740	\$225,394	1.00	0.98
Jan 2012	\$52,248	\$45,149	\$41,816	0.86	1.08	\$273,005	\$266,889	\$267,210	0.98	1.00
Feb 2012	\$59,271	\$58,579	\$63,201	0.99	0.93	\$332,276	\$325,468	\$330,411	0.98	0.99
Mar 2012	\$57,285	\$49,398	\$53,161	0.86	0.93	\$389,561	\$374,866	\$383,572	0.96	0.98
Apr 2012	\$62,378	\$47,517	\$52,149	0.76	0.91	\$451,939	\$422,383	\$435,721	0.93	0.97
May 2012	\$71,778	\$42,759	\$47,365	0.60	0.90	\$523,717	\$465,142	\$483,086	0.89	0.96
Jun 2012	\$78,891	\$56,530	\$60,446	0.72	0.94	\$602,608	\$521,672	\$543,532	0.87	0.96
Jul 2012	\$67,735	\$47,504	\$48,727	0.70	0.97	\$670,343	\$569,176	\$592,259	0.85	0.96
Aug 2012	\$67,589	\$41,568	\$48,946	0.62	0.85	\$737,932	\$610,744	\$641,205	0.83	0.95
Sep 2012	\$75,468			0.00		\$813,399			0.00	
PTD	\$7,201,680	\$7,091,698	\$7,147,230	0.98	0.99					

**PRETREATMENT (PT) FACILITY**

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

The Pretreatment (PT) Facility will separate radioactive tank waste into High Level Waste (HLW) and Low-Activity Waste (LAW) fractions and transfer each waste type to the respective vitrification facility for immobilization. As of August 2012, the PT Facility was 54 percent complete overall, with engineering design 81 percent complete, procurement 53 percent complete, construction 42 percent complete, and startup and commissioning 4 percent complete.

**Significant Past Accomplishments:**

The key on-going activities in Pretreatment are related to the resolution of the Pretreatment Vessel Vent Process (PVP) system design, Hydrogen in Piping and Ancillary Vessels (HPAV), erosion/corrosion and vessel mixing technical issues.

The medium scale testing for the Process Vessel Vent (PVV) system design entrainment coefficient was completed and the report documenting the results was issued in September 2012. The preliminary results for both the small scale and medium scale tests resulted in an entrainment coefficient smaller than expected, which supports less extensive modification to the PVV system design. Dismantling of the test facility has begun.

The Hydrogen Generation Rate (HGR) calculations for HLP-17, HLP-12, HLP-09 and HFP-06 have been completed and will be issued after validation and verification (V&V) of the software. The remaining calculations in support of resolving the HPAV issue are currently planned to be completed in November 2012.

The implementation plan for the Preliminary Design Safety Analysis (PDSA) update, which will integrate the nuclear safety activities with the vessel design confirmation activities, is scheduled to be issued in September 2012.

The initial long lead procurements for the UFP-2 array, 14' test vessel & steel heads and structural steel test stand/skid have been released in support of the construction of the facility for the 14 foot vessel testing.

A revision to the 2010-2 Implementation Plan (IP) is in progress and will address the changes in strategy, approach and expectations. The plan is expected to be issued to the DNFSB in the last quarter of calendar year 2012.

The revised erosion/corrosion action plan was issued in August 2012, and a preliminary schedule to complete the items in the action plan will be issued in September 2012. A corrosion test scoping document is expected to be issued in December 2012 to address the material selection issue.

The NQA-1 Computational Fluid Dynamics (CFD) Verification and Validation (V&V) tests will start after the resolution of DOE/NETL comments on the test plan. DOE and BNI have met with the NETL team and have established bi-weekly calls to review comments. Cloud height informational testing has been completed and user defined function (UDF) informational testing has been initiated.

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

- Issue the final report documenting the results from the entrainment coefficient testing for the PVV system
- Complete Hazards and Operability Analysis (HAZOP) for (PVP) system
- Issue the implementation plan for the PDSA update
- Complete the HPAV HGR rate calculations
- Issue the technical scaling selection basis document
- Submit the 2010-2 Implementation Plan revision
- Issue the corrosion test scoping document

**Issues:**

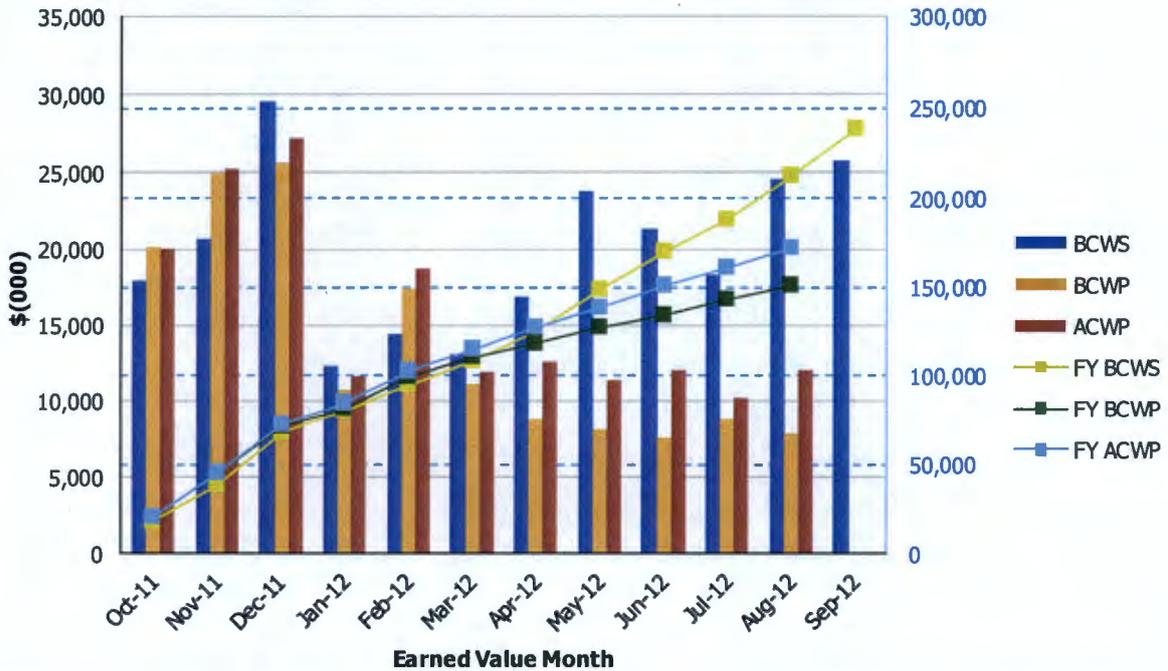
\* Technical issues relevant to the PTF and HLW facilities include, among others, pulse jet mixers, corrosion/erosion in piping and vessels, hydrogen accumulation, and waste feed issues.

Data Set: FY 2012 Earned Value Data

Data as of: August 2012

**River Protection Project  
Pretreatment Facility**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$17,935	\$20,110	\$20,000	1.12	1.01	\$17,935	\$20,110	\$20,000	1.12	1.01
Nov 2011	\$20,616	\$24,945	\$25,222	1.21	0.99	\$38,551	\$45,055	\$45,222	1.17	1.00
Dec 2011	\$29,580	\$25,673	\$27,175	0.87	0.94	\$68,131	\$70,728	\$72,397	1.04	0.98
Jan 2012	\$12,292	\$10,751	\$11,583	0.87	0.93	\$80,423	\$81,479	\$83,980	1.01	0.97
Feb 2012	\$14,371	\$17,367	\$18,675	1.21	0.93	\$94,794	\$98,846	\$102,655	1.04	0.96
Mar 2012	\$13,101	\$11,054	\$11,874	0.84	0.93	\$107,895	\$109,900	\$114,529	1.02	0.96
Apr 2012	\$16,877	\$8,730	\$12,488	0.52	0.70	\$124,772	\$118,630	\$127,017	0.95	0.93
May 2012	\$23,773	\$8,080	\$11,320	0.34	0.71	\$148,545	\$126,710	\$138,337	0.85	0.92
Jun 2012	\$21,271	\$7,567	\$12,061	0.36	0.63	\$169,816	\$134,277	\$150,398	0.79	0.89
Jul 2012	\$18,275	\$8,767	\$10,178	0.48	0.86	\$188,091	\$143,044	\$160,576	0.76	0.89
Aug 2012	\$24,563	\$7,773	\$12,063	0.32	0.64	\$212,654	\$150,817	\$172,639	0.71	0.87
Sep 2012	\$25,838			0.00		\$238,491			0.00	

PTD	\$1,455,827	\$1,400,315	\$1,393,252	0.96	1.01
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**HIGH-LEVEL WASTE (HLW) FACILITY**

<b>Number</b>	<b>Title</b>	<b>Due Date</b>	<b>Status</b>
D-00A-21	Complete Construction of Structural Steel to 37' in HLW Facility	12/31/2012	On-going
D-00A-02	HLW Facility Construction Substantially Complete	12/31/2016	On-going* (see issues below)
D-00A-03	Start HLW Facility Cold Commissioning	6/30/2018	On-going* (see issues below)
D-00A-04	HLW Facility Hot Commissioning Complete	12/31/2019	On-going* (see issues below)

The High Level Waste (HLW) Facility will receive the separated high-level waste concentrate from the Pretreatment (PT) Facility. This concentrate will be blended with glass formers and converted into molten glass in one of the two HLW melters and then poured into cylindrical stainless steel canisters. After cooling, the canisters will be sealed and decontaminated prior to shipment to interim storage. As of August 2012, the HLW Facility is 60 percent complete overall, with engineering design 87 percent complete, procurement 77 percent complete, construction 43 percent complete, and startup and commissioning is 4 percent complete.

**Significant Past Accomplishments:**

Bechtel has completed the Consent Decree Milestone (D-00A-21) "Complete Construction of Structural Steel to 37' in HLW Facility." They are currently compiling the required documentation. The consent decree compliance date is December 31, 2012. ORP is currently conducting a surveillance to ensure that the milestone is complete and will submit a formal notification to Ecology when complete.

Testing was performed to determine the performance of the radial HEPA filter media when exposed to combined conditions of filter loading, temperature and humidity. The testing showed failure under combined conditions. A strategy for resolving the HEPA filter requirements has been developed. Bechtel is working with potential vendors to gain interest in producing prototype filters that will meet operating conditions. Once the vendors are selected, the redesigned filters will be tested and the best option selected. The selected design will go through qualifying testing for use in WTP.

75% of the concrete has been poured in the facility with 58ft elevation walls continuing and a majority of the 37ft slabs complete. Two walls and one slab were placed in August.

Fabrication of Plant Wash and Drain Vessel (RLD-VSL-08) in England was completed, and it was delivered to the Mid-Columbia Engineering Facility in April. Further inspection by Bechtel noted a number of weld deficiencies. Bechtel and DOE met to discuss a path forward and Bechtel and the vendor are working to develop a detailed repair plan.

Bechtel is performing a Reliability Validation Process (RVP) to address the DOE level 1 finding on Systemic Integrated Management Performance Concerns. During the RVP, Bechtel will be conducting in-depth system reviews on critical systems. The systems under review for HLW are Radioactive Liquid Waste Disposal (RLD), Melter Offgas Treatment Process (HOP), and Melter Feed Process (HFP). Most work is on hold for these systems. The project completed factory

acceptance testing on Thermal Catalytic Oxidizers (TCO) which are being fabricated in Colorado and are scheduled for delivery to the site in April 2013. Delivery is delayed due to the RVP review of the HOP system.

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

- Submit 37' Structural Steel milestone completion notification to Ecology
- Review supplier prequalification packages to determine bidder list for HEPA filter redesign
- Award contract(s) for prototype design/fabrication for HEPA filter redesign
- Complete RVP reviews
- Complete the first of the two Authorization Basis Amendment Requests (ABARs) to support Preliminary Documented Safety Analysis (PDSA) upgrade – focus of the first ABAR is to incorporate changes in the facility and control descriptions.

**Issues:**

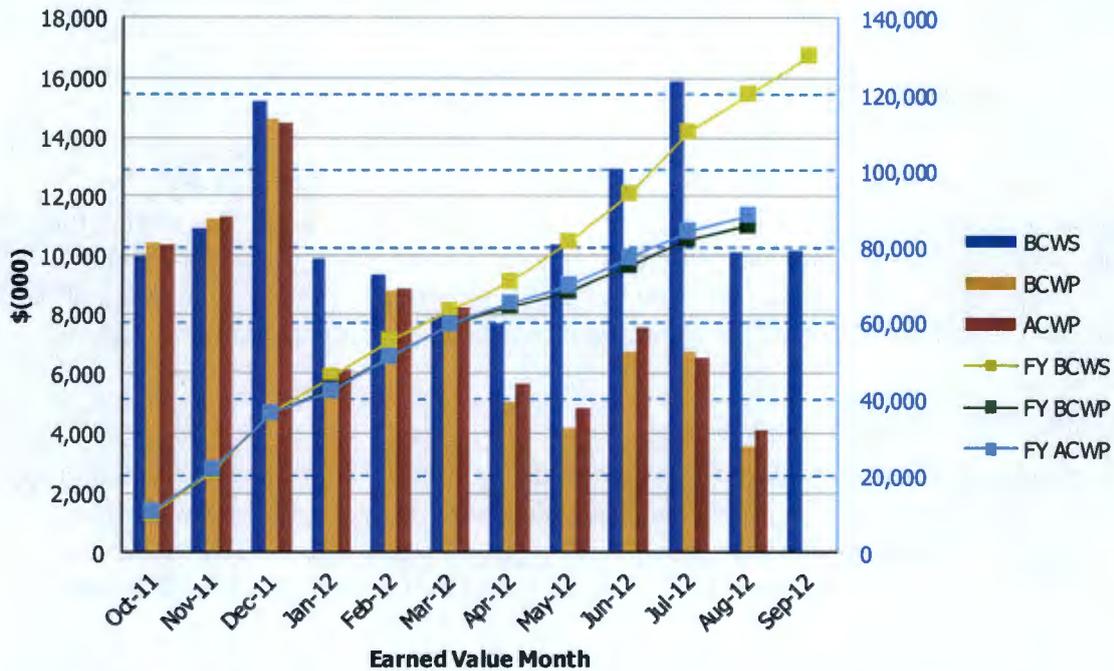
\* Various issues may have potential impacts on the HLW schedule. This includes risks that the project has already realized and the plans for addressing the remaining risks in the HLW.

Data Set: FY 2012 Earned Value Data

Data as of: August 2012

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

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$9,953	\$10,437	\$10,368	1.05	1.01	\$9,953	\$10,437	\$10,368	1.05	1.01
Nov 2011	\$10,920	\$11,224	\$11,295	1.03	0.99	\$20,873	\$21,661	\$21,663	1.04	1.00
Dec 2011	\$15,209	\$14,578	\$14,472	0.96	1.01	\$36,082	\$36,239	\$36,135	1.00	1.00
Jan 2012	\$9,878	\$6,187	\$6,142	0.63	1.01	\$45,960	\$42,426	\$42,277	0.92	1.00
Feb 2012	\$9,383	\$8,807	\$8,891	0.94	0.99	\$55,343	\$51,233	\$51,168	0.93	1.00
Mar 2012	\$7,900	\$7,901	\$8,221	1.00	0.96	\$63,243	\$59,134	\$59,389	0.94	1.00
Apr 2012	\$7,652	\$5,055	\$5,676	0.66	0.89	\$70,895	\$64,189	\$65,065	0.91	0.99
May 2012	\$10,364	\$4,150	\$4,849	0.40	0.86	\$81,259	\$68,339	\$69,914	0.84	0.98
Jun 2012	\$12,929	\$6,691	\$7,502	0.52	0.89	\$94,188	\$75,030	\$77,416	0.80	0.97
Jul 2012	\$15,888	\$6,709	\$6,541	0.42	1.03	\$110,076	\$81,739	\$83,957	0.74	0.97
Aug 2012	\$10,113	\$3,578	\$4,092	0.35	0.87	\$120,189	\$85,317	\$88,049	0.71	0.97
Sep 2012	\$10,133			0.00		\$130,321			0.00	

PTD	\$949,681	\$916,943	\$913,107	0.97	1.00
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**LOW-ACTIVITY WASTE (LAW) FACILITY**

<b>Number</b>	<b>Title</b>	<b>Due Date</b>	<b>Status</b>
D-00A-07	LAW Facility Construction Substantially Complete	12/31/2014	On-going
D-00A-08	Start LAW Facility Cold Commissioning	12/31/2018	On-going
D-00A-09	LAW Facility Hot Commissioning Complete	12/31/2019	On-going

The Low-Activity Waste (LAW) Facility will vitrify LAW from the Pretreatment (PT) Facility. Waste will be mixed with glass formers, vitrified into glass at a design capacity of 30 metric tons per day, and placed in stainless steel containers that are anticipated to be disposed on the Hanford Site in the Integrated Disposal Facility. As of August 2012, the LAW Facility is 70 percent complete overall, with engineering design 85 percent complete, procurement 89 percent complete, construction 73 percent complete, and startup and commissioning is 5 percent complete.

**Significant Past Accomplishments:**

Electrical systems design continues in support of all equipment, controls, and lighting throughout the facility. The system design document and system software acceptance test for the Autosampling (ASX), Low-Pressure Steam (LPS), High-Pressure Steam (HPS) and Steam Condensate Water (SCW), C1 Ventilation (C1V), C2 Ventilation (C2V) and C5 Ventilation (C5V) systems were issued.

Updated system design documents for the LAW Container Export Handling (LEH) and LAW Container Pour Handling (LPH) were issued. New configuration data indices were issued for the LPS and Process Service Water (PSW) systems. Confirmed calculation was issued for the Erosion/Corrosion Evaluation for High and Low Pressure LAW Steam Lines. Piping isometric drawings for the LAW Melter Feed Process (LFP) system, LAW Secondary Offgas/Vessel Vent Process System (LVP) system, the ASX system, and the Radioactive Liquid Waste Disposal (RLD) system were issued. Piping support drawings were issued for the Plant Service Air (PSA), RLD system, the Plant Cooling Water (PCW) systems and the LVP system.

Procurement activities for the LAW facility are currently focused on the LVP system components. Engineering review of vendor calculations and vendor interactions continued as a major emphasis during the ongoing procurement of LVP system components. The first of two shipments for the utility crane was received which will be used to support upcoming refractory installations. Temperature transmitter for the LPS system and fabricated pipe stools were received.

The primary areas of construction focus continued to be LAW facility partition wall installation and equipment installation for the Container Finishing Handling (LFH) system. Installation of the decontamination manipulators, finishing line dual-rail hoists, and the trolley/bogie cars for the LFH system continued.

Construction activities were initiated to install instrument tubing at elevation -21' for the Atmospheric Reference Ventilation (AVR) system and subcontractor crews began applying coatings to Chilled Water (CHW) system piping at elevation -21'. Installed duct to Multiple Overblow (MOB) units to support environmental control for upcoming melter refractory

installations. Other on-going construction activities included installation of instrument tubing, scheduled conduit in various planning areas along with unscheduled lighting conduit at elevation +48'. Electrical work activities continued on LAW Container Pour Handling (LPH) system crane in the buffer storage room and LAW Container Finishing Handling (LFH) system hoist at elevation +28'.

Installation activities were completed for sealing melter bay #3 floor openings leading to elevation -21' with steel plate shielding and framing structural steel in the fire riser room.

Issued mechanical handling conduit layout plan at elevation +3'.

Received 18 tons of structural steel.

Comments were resolved for software functional requirements for the following systems:

- LRH – LAW Container Receipt Handling System
- LVP – LAW Secondary Offgas/Vessel Vent Process System
- MHJ – Mechanical Handling Control System

Comments were resolved for safety software functional requirements for the following system:

- LVP – LAW Secondary Offgas/Vessel Vent Process System

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

- Complete installation of melter power supplies
- Complete installation of Auto Sampling (ASX) system
- Receive HEPA Pre-heaters for LVP system
- Receive HEPA Housings for LVP system
- Receive Thermal Catalytic Oxidizer (TCO) for LVP system

**Issues:**

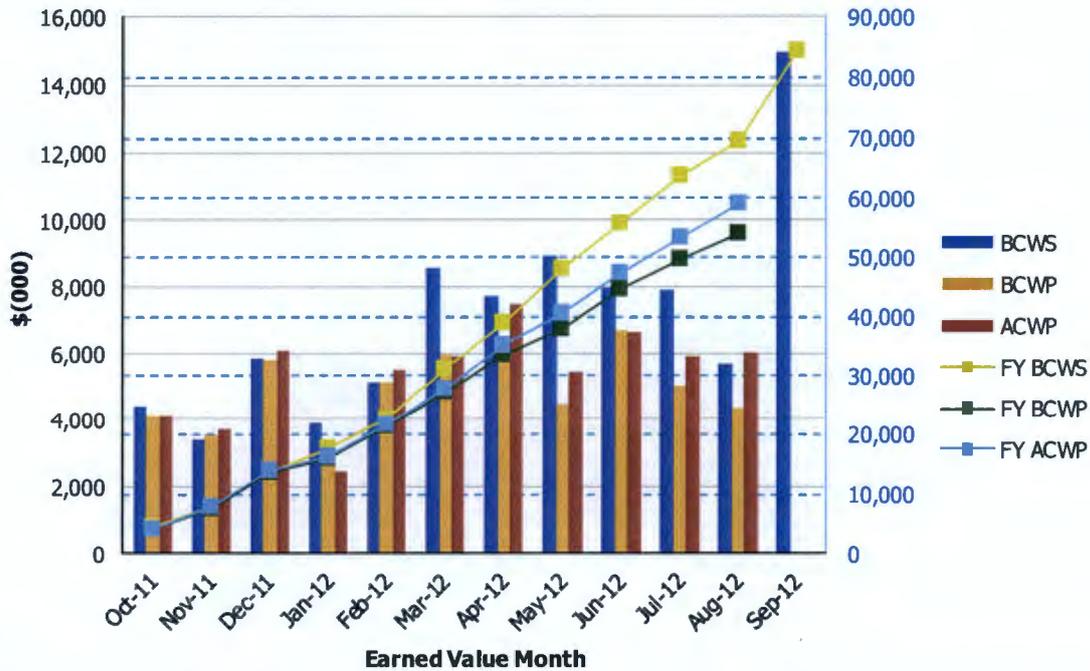
No major issues at this time.

Data Set: FY 2012 Earned Value Data

Data as of: August 2012

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

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$4,415	\$4,115	\$4,104	0.93	1.00	\$4,415	\$4,115	\$4,104	0.93	1.00
Nov 2011	\$3,404	\$3,510	\$3,704	1.03	0.95	\$7,819	\$7,625	\$7,808	0.98	0.98
Dec 2011	\$5,827	\$5,807	\$6,123	1.00	0.95	\$13,646	\$13,432	\$13,931	0.98	0.96
Jan 2012	\$3,886	\$2,617	\$2,412	0.67	1.08	\$17,532	\$16,049	\$16,343	0.92	0.98
Feb 2012	\$5,140	\$5,117	\$5,472	1.00	0.94	\$22,672	\$21,166	\$21,815	0.93	0.97
Mar 2012	\$8,531	\$5,960	\$5,900	0.70	1.01	\$31,203	\$27,126	\$27,715	0.87	0.98
Apr 2012	\$7,735	\$6,351	\$7,469	0.82	0.85	\$38,938	\$33,477	\$35,184	0.86	0.95
May 2012	\$8,906	\$4,481	\$5,425	0.50	0.83	\$47,844	\$37,958	\$40,609	0.79	0.93
Jun 2012	\$7,945	\$6,685	\$6,619	0.84	1.01	\$55,789	\$44,643	\$47,228	0.80	0.95
Jul 2012	\$7,905	\$5,017	\$5,930	0.63	0.85	\$63,694	\$49,660	\$53,158	0.78	0.93
Aug 2012	\$5,690	\$4,374	\$6,017	0.77	0.73	\$69,384	\$54,034	\$59,175	0.78	0.91
Sep 2012	\$14,932			0.00		\$84,317			0.00	

PTD	\$705,968	\$691,295	\$741,711	0.98	0.93					
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**BALANCE OF FACILITIES (BOF)**

<b>Number</b>	<b>Title</b>	<b>Due Date</b>	<b>Status</b>
D-00A-12	Steam Plant Construction Complete	12/31/2012	On-going

The Balance of Facilities (BOF) provides services and utilities to support operation of the main production facilities – PT, HLW, LAW, and LAB. As of August 2012, the BOF is 51 percent complete overall, with engineering design 74 percent complete, procurement 52 percent complete, construction 65 percent complete, and startup and commissioning is 10 percent complete.

**Significant Past Accomplishments:**

Oversight efforts are focused on facility completion and turnover to the startup organization. As necessary to support facility completion, the WTP contractor initiates a weekly or bi-weekly meeting approximately 12 months prior to the scheduled turnover date. The meetings focus on schedule reviews and punch list development for the remaining construction activities. Regular meetings are currently being held for the WTP site switchgear buildings (87 and 91) and the Chiller Compressor Plant (CCP).

**Recent accomplishments for the BOF team are:**

- Began excavation for electrical conduit between WTP switchgear building 87 and the LAB
- Continued installing pipe for the Plant Wash and Disposal (PWD) system south of the PTF
- Completed installation of the cathodic protection jumpers in the Steam Plant
- Continued installing piping and hangers in the Glass Former Storage Facility
- Issued new start-up functional test procedure for Building 87 Water Supply Flush Functional Test

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

- Complete construction of the Steam Plant
- Complete construction of Cooling Tower
- Complete Construction of the Chiller Compressor Plant
- Complete construction of BOF switchgear building 91
- Turnover WTP Switchgear Building 87 from construction to the startup organization

**Issues:**

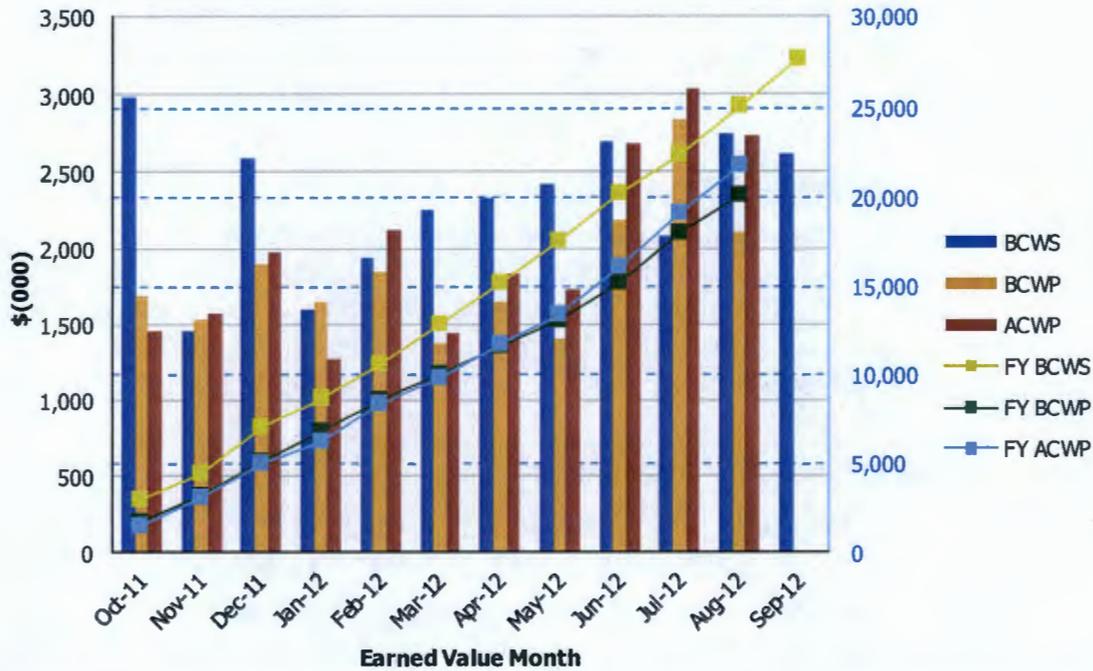
No major issues.

Data Set: FY 2012 Earned Value Data

Data as of: August 2012

**River Protection Project  
Balance of Facilities**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$2,980	\$1,685	\$1,454	0.57	1.16	\$2,980	\$1,685	\$1,454	0.57	1.16
Nov 2011	\$1,455	\$1,524	\$1,564	1.05	0.97	\$4,435	\$3,209	\$3,018	0.72	1.06
Dec 2011	\$2,594	\$1,895	\$1,981	0.73	0.96	\$7,029	\$5,104	\$4,999	0.73	1.02
Jan 2012	\$1,597	\$1,652	\$1,262	1.03	1.31	\$8,626	\$6,756	\$6,261	0.78	1.08
Feb 2012	\$1,939	\$1,841	\$2,123	0.95	0.87	\$10,565	\$8,597	\$8,384	0.81	1.03
Mar 2012	\$2,248	\$1,376	\$1,444	0.61	0.95	\$12,813	\$9,973	\$9,828	0.78	1.01
Apr 2012	\$2,331	\$1,651	\$1,835	0.71	0.90	\$15,144	\$11,624	\$11,663	0.77	1.00
May 2012	\$2,421	\$1,399	\$1,725	0.58	0.81	\$17,565	\$13,023	\$13,388	0.74	0.97
Jun 2012	\$2,698	\$2,188	\$2,685	0.81	0.81	\$20,263	\$15,211	\$16,073	0.75	0.95
Jul 2012	\$2,075	\$2,838	\$3,040	1.37	0.93	\$22,338	\$18,049	\$19,113	0.81	0.94
Aug 2012	\$2,755	\$2,106	\$2,730	0.76	0.77	\$25,093	\$20,155	\$21,843	0.80	0.92
Sep 2012	\$2,615			0.00		\$27,708			0.00	

PTD	\$278,936	\$272,267	\$270,900	0.98	1.01
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**ANALYTICAL LABORATORY**

<b>Number</b>	<b>Title</b>	<b>Due Date</b>	<b>Status</b>
D-00A-05	LAB Construction Substantially Complete	12/31/2012	On-going

The Analytical Laboratory (LAB) will support WTP operations by analyzing feed, vitrified waste, and effluent streams. As of August 2012, the LAB is 56 percent complete overall, with engineering design 83 percent complete, procurement 78 percent complete, construction 88 percent complete, and startup and commissioning is 10 percent complete.

**Significant Past Accomplishments:**

The project team continues to focus on the LAB Construction Substantially Complete milestone. Daily meetings are held to evaluate construction progress and challenges that arise. Major structures of the building are in place, including the interior partition walls which segregate the various analytical stations for LAW sample analysis. Within the individual analytical areas, detail/finishing work continues with emphasis on the installation of commodities to support laboratory cabinets and analytical equipment. Key areas of focus for the LAB team are listed below:

- Completed RLD Vessel weld inspections (3 vessels), 2 require minor repairs, 1 requires more extensive weld repair and retest.
- During BNI review of Intermech Design for Seismic Story Drift, 21 locations were identified as requiring flex joints and possibly some hanger/support modifications.
- Replacement of damaged valve internals has been completed.
- Installing crane #13 electrical for control panels and festoon cables in the south end of the hot cell

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

- Complete mechanical installation of Autosampling System
- Install Hot Cell import/export motors
- Progress Analytical Laboratory Construction to “Substantially Complete”

**Issues:**

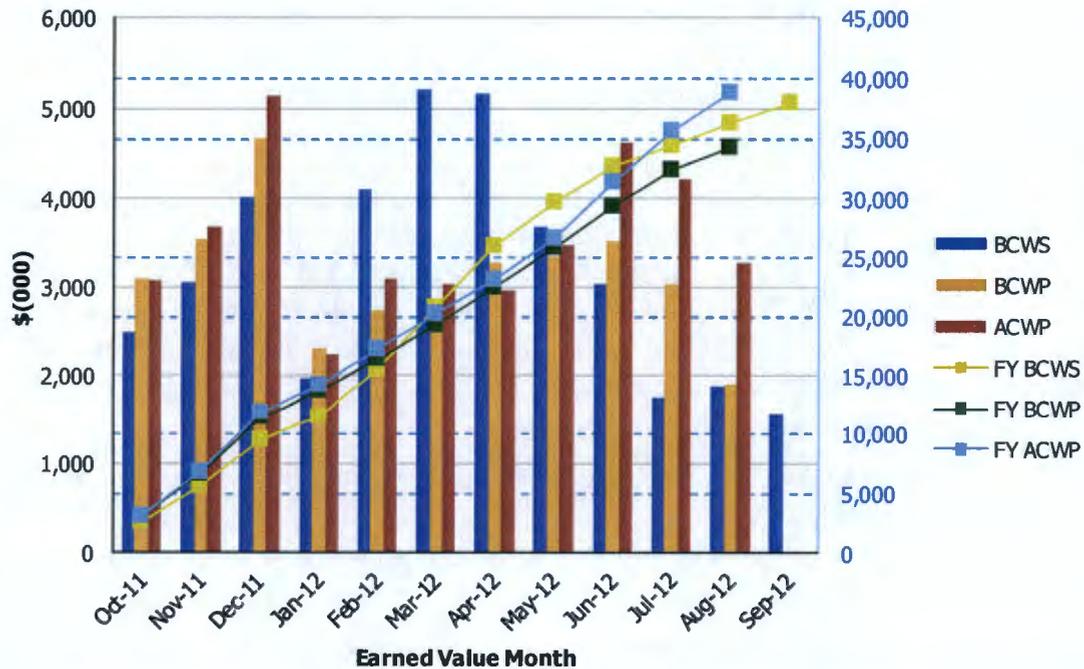
No issues to report.

Data Set: FY 2012 Earned Value Data

Data as of: August 2012

**River Protection Project  
Analytical Laboratory**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$2,489	\$3,092	\$3,063	1.24	1.01	\$2,489	\$3,092	\$3,063	1.24	1.01
Nov 2011	\$3,040	\$3,551	\$3,680	1.17	0.96	\$5,529	\$6,643	\$6,743	1.20	0.99
Dec 2011	\$4,005	\$4,676	\$5,128	1.17	0.91	\$9,534	\$11,319	\$11,871	1.19	0.95
Jan 2012	\$1,970	\$2,318	\$2,242	1.18	1.03	\$11,504	\$13,637	\$14,113	1.19	0.97
Feb 2012	\$4,113	\$2,725	\$3,091	0.66	0.88	\$15,617	\$16,362	\$17,204	1.05	0.95
Mar 2012	\$5,203	\$2,860	\$3,036	0.55	0.94	\$20,820	\$19,222	\$20,240	0.92	0.95
Apr 2012	\$5,167	\$3,265	\$2,954	0.63	1.11	\$25,987	\$22,487	\$23,194	0.87	0.97
May 2012	\$3,685	\$3,349	\$3,486	0.91	0.96	\$29,672	\$25,836	\$26,680	0.87	0.97
Jun 2012	\$3,020	\$3,531	\$4,627	1.17	0.76	\$32,692	\$29,367	\$31,307	0.90	0.94
Jul 2012	\$1,756	\$3,035	\$4,227	1.73	0.72	\$34,448	\$32,402	\$35,534	0.94	0.91
Aug 2012	\$1,887	\$1,915	\$3,278	1.01	0.58	\$36,335	\$34,317	\$38,812	0.94	0.88
Sep 2012	\$1,572			0.00		\$37,906			0.00	
<b>PTD</b>	<b>\$206,137</b>	<b>\$202,786</b>	<b>\$219,581</b>	<b>0.98</b>	<b>0.92</b>					

**Waste Treatment Plant Project - Percent Complete Status**  
Through August 2012

(Dollars - Millions)	Overall Facility Percent Complete Unallocated Dollars			Design/Engineering Unallocated Dollars			Procurement Unallocated Dollars			Construction Unallocated Dollars			Startup & Plant Operations Unallocated Dollars		
	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete
Facilities															
Low-Activity Waste	993.7	691.3	70%	250.8	214.4	85%	242.1	214.2	89%	350.5	255.7	73%	150.3	7.0	5%
Analytical Lab	360.6	202.8	56%	57.9	48.0	83%	56.2	44.1	78%	109.9	96.4	88%	136.6	14.3	10%
Balance of Facilities	538.9	272.3	51%	89.0	66.1	74%	81.4	42.0	52%	231.8	151.0	65%	136.7	13.2	10%
High-Level Waste	1,516.3	916.9	60%	355.9	310.9	87%	458.2	353.4	77%	582.3	247.8	43%	120.0	4.8	4%
Pretreatment	2,588.5	1,400.3	54%	774.0	627.0	81%	713.5	377.6	53%	914.6	388.6	42%	186.4	7.1	4%
Shared Services	4,720.2	3,608.1	76%	1,005.1	925.7	92%	471.7	411.0	87%	1,432.9	1,139.0	79%	455.9	140.4	31%
<b>Total WTP w/o UB</b>	<b>10,718.2</b>	<b>7,091.7</b>	<b>66%</b>	<b>2,532.6</b>	<b>2,192.1</b>	<b>87%</b>	<b>2,023.2</b>	<b>1,442.3</b>	<b>71%</b>	<b>3,621.9</b>	<b>2,278.6</b>	<b>63%</b>	<b>1,185.8</b>	<b>186.7</b>	<b>16%</b>
Undistributed Budget	0.3	n/a	n/a	n/a	n/a	n/a									
<b>Total WTP</b>	<b>10,718.5</b>	<b>7,091.7</b>	<b>66%</b>	<b>2,532.6</b>	<b>2,192.1</b>	<b>87%</b>	<b>2,023.2</b>	<b>1,442.3</b>	<b>71%</b>	<b>3,621.9</b>	<b>2,278.6</b>	<b>63%</b>	<b>1,185.8</b>	<b>186.7</b>	<b>16%</b>

Source: Preliminary WTP Contract Performance Report - Format 1, Data for August 2012

Note: Starting with the June 2009 report, facility Construction percent complete values decreased significantly, and a couple of Design/Engineering facility percent complete values went down as well. The decrease in values was tied to Phase I of BNI's elimination of WBS 1.08, Plant Wide EPCC; scope from WBS 1.08 was moved to facilities as appropriate or to WBS 1.90, Shared Services. This resulted in an increase in the facility construction budgets, which has correspondingly reduced the to-date percent complete values. In July 2010 the allocation of 1.90 to the facilities was removed to show true facility percent complete. This report does not show the LOE budgets that are not associated with a specific EPCC function, these include, Finance, Project Management, etc, but are included in the total Overall Facility Percent Complete for Shared Service.

**WORKING ORP Key Documents List  
For October 2012**

Milestone Title	Milestone Tie	Document	TPA Milestone Due Date (if applicable) <sup>1</sup>	ORP Delivery to Regulators Date <sup>2</sup>	Anticipated Regulatory Review Completion Date <sup>3</sup>	Final Completion Date <sup>4</sup>	DOE-ORP Lead	Contractor Lead	Ecology Lead	Comments/Issues
<b>Submit Interim Measures Investigation Work Plan and TPA Chg Pckgs for M-045-22 Target Dates</b>	<b>M-045-20</b>	<b>Interim measures investigation "other" work plan for to vadose zone characterization at 241-TX Farm and 241-U Farm, and soil desiccation/contaminant removal proof-of-principal test at 241-SX Farm</b>	<b>12/31/12</b>							<b>• Created via Change Package M-45-12-04 on 06/21/12</b>
Submit for Review and Approval a Sampling and Analysis Plan to Ecology for Soil Samples for 241-TX Tank Farm Investigation	M-045-21	Sampling and Analysis Plan for Soil Samples for 241-TX Tank Farm Investigation	03/31/13							• Created via Change Package M-45-12-04 on 06/21/12
Submit to Ecology for Review and Approval as an Agreement Primary Document, a Phase 2 RCRA Facility Investigation/Corrective Measure Study Report for WMA C	Supports M-045-61	WMA C Characterization Summary 2011		TBD			C. Kemp	S. Eberlein	J. Lyon	• Feeds input for M-045-61 and all Closure Plans • ORP met with ECY on 09/22/11 to provide status and setup meeting to discuss path forward.
	Supports M-045-61	WMA C Characterization Summary 2012		TBD			C. Kemp	S. Eberlein	J. Lyon	• Feeds input for M-045-61 and all Closure Plans
		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		09/30/13			C. Kemp	S. Eberlein	J. Lyon	• Feeds input for M-045-61 and all Closure Plans
M-045-61	Phase 2 RFI/CMS Report for WMA C	12/31/14	12/31/14			C. Kemp	S. Eberlein	J. Lyon		
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	06/30/15			C. Kemp	S. Eberlein	J. Lyon	
M-45-91 Interim Milestones and Target Dates for SST Integrity Implementing the Expert Panel's Recommendations	M-045-91F-T01	Provide Report of the Liquid Leak Rate Assessments	01/31/13	01/31/13			J. Johnson	R. Gregory	J. Lyon	• Moved to 01/31/13 per M-45-12-01 TPA Chg Pckg. • Reported as To Be Missed in October 2012 TPA PMM Mtg
	M-045-91D-T01	Provide Report on the Concrete Dome Samples from Tank C-107 Plug	05/31/13	05/31/13			J. Johnson	R. Gregory	J. Lyon	
	M-045-91F-T02	Provide Report of Liner Failures for SSTs	07/31/13	07/31/13			J. Johnson	R. Gregory	J. Lyon	• Reported as To Be Missed in October 2012 TPA PMM Mtg
	M-045-91F-T04	Provide Report on 100-Series SSTs as having Leaked in RPP-32681	07/31/13	07/31/13			J. Johnson	R. Gregory	J. Lyon	• Reported as To Be Missed in October 2012 TPA PMM Mtg
	M-045-91G-T03	Provide AOR Final Doc. for SSTs on 1,000,000 Gallon Tanks	09/31/13	09/31/13			J. Johnson	R. Gregory	J. Lyon	• Moved to 09/31/13 per M-45-12-01 TPA Chg Pckg.
	M-045-91E	Provide SST Farms Dome Deflection Surveys Every Two Years	09/30/13	09/30/13			J. Johnson	R. Gregory	J. Lyon	
	M-045-91G-T04	Provide AOR Final Doc. for SSTs on 55,000 Gallon Tanks	10/31/13	10/31/13			J. Johnson	R. Gregory	J. Lyon	• Reported as To Be Missed in October 2012 TPA PMM Mtg
	M-045-91F	Provide Summary Conclusions Report on Leak Integrity	12/31/13	12/31/13			J. Johnson	R. Gregory	J. Lyon	• Reported as To Be Missed in October 2012 TPA PMM Mtg

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

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

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

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

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

**WORKING ORP Key Documents List  
For October 2012**

Milestone Title	Milestone Tie	Document	TPA Milestone Due Date (if applicable) <sup>1</sup>	ORP Delivery to Regulators Date <sup>2</sup>	Anticipated Regulatory Review Completion Date <sup>3</sup>	Final Completion Date <sup>4</sup>	DOE-ORP Lead	Contractor Lead	Ecology Lead	Comments/Issues
M-45-91 Interim Milestones and Target Dates for SST Integrity (continued)	M-045-91G	Provide Summary Conclusions Report of AOR for SSTs	04/30/14	04/30/14			J. Johnson	R. Gregory	J. Lyon	• Reported as To Be Missed in October 2012 TPA PMM Mtg
	M-045-91B-T01	Provide Ecology report on the Concrete Core from TankA-106 or alt	09/30/14	09/30/14			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	
Prior to beginning construction and at least one year before construction is to be complete, DOE will submit to Ecology a final design and monitoring plan for each interim barrier.	M-045-92O	Future Barrier Design 3	06/30/15	06/30/15			C. Kemp	S. Eberlein	J. Lyon	• ORP/ECY TPA Change Package M-45-12-04 modified this to a due date of 06/30/15 dependent on discussions per M-045-22.
	M-045-92P	Future Barrier Design 4	06/30/16	06/30/16			C. Kemp	S. Eberlein	J. Lyon	• ORP/ECY TPA Change Package M-45-12-04 modified this to a due date of 06/30/16 dependent on discussions per M-045-22.
Waste Supplemental Treatment Report	M-062-40ZZ	Submit One Time Tank Waste Supplemental Treatment Tech. Report	10/31/14	10/31/14			S. Pfaff	C. Burrows	D. McDonald	• ORP and ECY plan to meet to discuss this document in September 2012.
Technology Selection Report	M-062-45-ZZ	Technologies Selection Report	04/30/15	04/30/15			S. Pfaff	C. Burrows	D. McDonald	
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	

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**WORKING ORP Key Documents List  
For October 2012**

Topic Areas	Document	ORP Delivery to Regulators Date <sup>1</sup>	Anticipated Regulatory Review Completion Date <sup>2</sup>	Final Completion Date <sup>3</sup>	DOE-ORP Lead	Contractor Lead	Regulator Lead	Comments/Issues
PERMIT DOCUMENTS	Tier 1 Framework Closure Plan Update	06/30/13			C. Kemp	S. Eberlein	J. Lyon	
	Tier 2 WMA C Closure Plan	06/30/13			C. Kemp	S. Eberlein	J. Lyon	
	All Remaining Closure Plans for WMA C	09/30/15			C. Kemp	S. Eberlein	J. Lyon	
	WMA C Closure Conceptual Design	TBD			C. Kemp	S. Eberlein	J. Lyon	
	Tier 3 Closure Plans for Tanks Already Received	TBD			C. Kemp	S. Eberlein	J. Lyon	• Due 120-day post EIS
	Tier 3 Closure Plans for Additional Tanks	TBD			C. Kemp	S. Eberlein	J. Lyon	• Several Dates in out years
	WMA C Closure Design	TBD			C. Kemp	S. Eberlein	J. Lyon	• Final dates not yet determined
	Supplemental Treatment Technology Notice of Construction	09/30/13			L. Huffman	F. Miera	J. Lyon	
	Submit Part B Permit Application for Selected Supplemental Treatment Technology	09/30/13			L. Huffman	F. Miera	J. Lyon	
	Wiped Film Evaporator Notice of Construction	09/30/14			L. Huffman	F. Miera	J. Lyon	
	Submit Wiped Film Evaporator Class 3 Permit Modification or Part B Permit Application	09/30/14			L. Huffman	F. Miera	J. Lyon	
IDF Performance Assessment (ORP/WRPS has support role to RL/CHPRC)	TBD			T. Fletcher	F. Miera	J. Lyon		
MISCELLANEOUS DOCUMENTS	Submit Categorical TOC HIA	TBD				F. Miera	J. Lyon	
	Quarterly Hose-In-Hose Transfer Lines (HIHTL) Reports	Ongoing Quarterly			J. Johnson		J. Lyon	<ul style="list-style-type: none"> <li>• Back-reports submitted via email to ECY, formal letter 11-TPD-024 transmitted back reports to ECY on 03/29/11</li> <li>• 1<sup>st</sup> HIHTL meeting was 8/29/12. Meeting minutes have been signed by WRPS, Ecology, and delivered to ORP (Jeremy) for Lori's Huffman's signature.</li> <li>• 2<sup>nd</sup> HIHTL meeting was 9/13/12. Meeting minutes are in review.</li> <li>• 3<sup>rd</sup> HIHTL meeting is scheduled for 10/15/2012.</li> </ul>
TWRWP DOCUMENTS	Please see ORP TPA Monthly Summary Report for Tank Waste Retrieval Work Plan Status Table, Accomplishments, and Issues.							

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

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

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ORP Project Managers Meeting  
October 23, 2012  
2440 Stevens Ctr.  
Richland, Washington  
**Meeting Minutes Transmittal**

**Attachment D: Agenda Including Items Submitted to Administrative Record**

**(2 pages including this coversheet)**

**ORP TPA October 2012 PMM Meeting  
Tuesday, October 23, 2012  
2440 Stevens Center Richland, Washington  
Room 1200, 9:00AM-12:00PM**

**AGENDA**

**1.0 Administrative Items**

**Recent Items Entered/To Be Entered into the TPA Administrative Record** (see <http://www5.hanford.gov/arpir/?content=advancedSearch> - search EDMC File Number)

<b>Item Description</b>	<b>TPA/CD Topic Milestone Tie</b>	<b>TPA Admin Record – EDMC File Number</b>
September 2012 ORP CD Monthly Report	All	1217225
September 2012 ORP TPA Monthly Report	All	1217226
Meeting Notes: Future Waste Residual Sampling for Waste Release (Leaching Tests), held on 08/24/12 and signed on 09/25/12	Retrievals	1217158

**2.0 Agreements, Issues, Actions**

**3.0 Review of the ORP Project Summary**

**4.0 Key Documents List**

**Upcoming Meetings**

- The ORP/Ecology PMM Communications Improvements Meeting is scheduled for Wednesday, October 31, 2012 from 2:00PM-3:00PM in ORP Room 1200.
- The dry-run for the ORP TPA Quarterly Meeting is scheduled for Tuesday, November 13, 2012 at ORP from 9:00AM-12:00PM.
- The ORP TPA Quarterly Meeting is scheduled for Thursday, November 15, 2012 at Ecology from 8:30AM-10:15AM.