

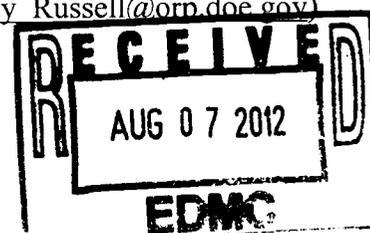
ORP Project Managers Meeting  
 June 26, 2012  
 2440 Stevens Ctr.  
 Richland, Washington  
**Meeting Minutes Transmittal**

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ADMINISTRATIVE RECORD – Heather Childers: H6-08

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

Chris Kemp  
Chris Kemp, DOE-ORP Date: 7-24-12

Wahed Abdul  
Wahed Abdul, DOE-ORP Date: 7/20/12

Jason Young  
Jason Young, DOE-ORP Date: 7/24/12

Jeff Bruggeman  
Jeff Bruggeman, DOE-ORP Date: 7/24/12

Gary Olsen  
for Gary Olsen, DOE-ORP Date: 7-24-12

J. Lyon  
J. Lyon, Project Manager,  
Washington State Department of Ecology Date: 8-7-12

J. D. McDonald  
for J. D. McDonald, Project Manager,  
Washington State Department of Ecology Date: 7-25-12

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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

(See list on today's agenda)

Meeting Minutes - The April 24, 2012 ORP Project Managers Meeting (PMM) minutes were approved.

**2.0 Review of the ORP Project Summary**

**Tank Farms**

Tri-Party Agreement and Consent Decree (TPA and CD) Milestone Status - ORP stated that change packages for milestones M-047-06 and M-090-11 were submitted to Ecology on June 13, 2012, and letters were received from Ecology yesterday (6/25/12) disapproving the two change packages. ORP is preparing a response to Ecology, and requested deferring discussion on the issue until a response to Ecology is completed.. Ecology referred to the text in the issues section on page 20 of the TPA monthly summary report that states "ORP and Ecology cannot reasonably expect to conduct..." Ecology noted that the change package states Ecology is not in agreement with ORP's position, and requested that the text in the issues section be revised to remove the word Ecology. ORP agreed to strike Ecology from that sentence in the issues, and to rephrase it to read "ORP cannot reasonably expect..." Ecology noted that ORP has listed the status of M-090-11 as at risk, and based on ORP's position in the change package, the status of the milestone should now be listed as to be missed. ORP stated that when the response to Ecology's disapproval of the change packages is completed, a discussion on the issue will follow and be reflected in the TPA summary report.

ORP reported that the yearly meeting associated with milestone M-045-56H was held June 21, 2012. Meeting minutes were generated and are circulating for review and comment. ORP noted that Ecology approved the change package for M-045-92L and M-045-92O. ORP stated that all of the Consent Decree milestones are ongoing.

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

M-045-92 - ORP reported that the change package approved by Ecology last week will allow the SX farm barrier will be swapped for a contaminant capture demonstration in SX farms.

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Issues - Ecology referred to the issue associated with initial planning for FY13, and asked if ORP is not planning to do any work on Phase 2 for WMA-C in FY13. ORP responded that the only work planned for FY13 is the push sampling and surface geophysical exploration (SGE) by C-200. ORP stated that it is on schedule for delivery of the RFI/CMS report for WMA-C, which is due 12/31/14. Ecology noted that there was additional work approved in the work plan, but due to funding constraints, it is up to ORP to decide what work will be done.

TPA-SST Retrieval and Closure Program:

M-045-101 - ORP stated that the document for this milestone is tied up with the SST Part A for the draft Hanford sitewide permit. ORP stated that comment resolution with Ecology is continuing, and a meeting is scheduled tomorrow (6/27/12). ORP suggested that the parties discuss an extension for comment resolution during the meeting tomorrow.

M-045-80 - ORP noted that three of the four documents associated with this milestone have been completed (RCRA/CERCLA white paper, tank removal study, and C-301 catch tank study). The remaining document to be completed is the Waste Incidental to Reprocessing (WIR) paper. ORP stated that WRPS transmitted a redline strikeout of all the comments that were received from Ecology on the WIR paper in May 2012. ORP requested closeout of the WIR paper if all of Ecology's concerns and issues have been addressed. Ecology stated that the WIR paper is approved and agreed that it can be closed out. WRPS will release the WIR paper. Ecology referred to the yearly breakdown in the schedule which implies that development of the WIR basis document will be started in September 2012, and that the schedule in the WIR document doesn't reflect that activity. ORP responded that the activity is included in the schedule and in the current baseline. ORP added that if there is a change to the baseline through a baseline change request (BCR), Ecology will be provided notification that the WIR document will be updated, and the information will be included in the Consent Decree semi-annual report.

M-045-81 - ORP stated that a meeting is scheduled tomorrow (6/27/12) with Ecology, and the SST draft permit conditions specific to the pipelines will be discussed. ORP suggested a holding discussion with Ecology after the meeting tomorrow in an effort to determine a path forward for this milestone. Ecology agreed to have a discussion. Currently an extension is in place to the end of June 2012 for comment resolution. WRPS stated that the remaining comments are close to resolution on the pipeline, and the document is anticipated for release in early July 2012. ORP

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will provide Ecology a status on the document on Thursday (6/28/12) and whether another extension is needed.

Issues - ORP stated that there were no changes to the C farm performance assessment (PA). The current baseline reflects startup on the PA in FY13; however, there may be a BCR to defer that work activity.

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

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

C-Farm Critical Path - ORP reported that the eight-day slip in May for C-101 was due to field work delays caused by weather and a difficult job that required a thermal weld to be pulled out. C-102 and C-104 had no changes from the previous month. C-105 had a one- to two-day slip due to procurement issues. The slips in May for C-107 retrievals were due to issues with the exhauster and slower than anticipated retrievals. C-108 was completed in May, and the seven-day slip was due to retrieval taking longer than planned. Ecology noted that the certification report and the RDR sampling are not included on the schedule for C-108. ORP responded that those activities are further out, but it would be appropriate to include the RDR sampling on the schedule. Ecology inquired about the status of the revision to the tank stability certification report. ORP responded that the draft report is in internal review. Discussions are under way with ORP and Ecology regarding the process for Ecology to conduct its review since the document is considered for Official Use Only (OUO) and cannot be released without ORP oversight. Ecology noted that ORP's process for the EIS OUO review was professional and transparent. ORP stated that once the review process is determined, the appropriate review time needs to be agreed to. Ecology indicated that the review time should be short-term.

The 33- and 27-day slips for C-109 retrievals were due to a failed pump. The pump is being tested and should be ready for installation this Friday. The 31-day slip in C-110 was due to a modification to the FoldTrak and resources not available to support the work because of other issues. The 66-day slip in May for C-111 hard heel removal (HRR) decision was due to waiting for the PNNL final results on matching up that waste to the Ramen spectrometer results. ORP noted that 1970 samples were found in the 222-S lab archive, and auger samples are being shipped to PNNL as a comparison. There were no changes in C-112 from last month. The delays in C

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farm infrastructure were due to other priorities and additional pump tests required to select the correct pump to install in tank AN-101. ORP noted that a new pump assembly will need to be built.

CD-SST Retrieval and Closure:

D-00B-03 - Ecology asked when the new technology development to retrieve A farm will be initiated. ORP responded that air lift circulators will be used for A and AX farms, and the system will be similar to the enhanced reached sluicer with telescoping arms. ORP noted that the standard sluicers or mobile arm retrieval system cannot be used. As the enhanced reach sluicers are deployed in tanks C-101, C-102 and C-112, lessons learned will be incorporated into technology development for A farm.

Significant Past Accomplishments - ORP noted that the caustic dissolution in tank C-104 was started, and recirculation is in process. The second of the hard heel process samples will be pulled out of C-104 tomorrow (6/27/12). ORP reported that the dissolution in the metathesis of the C-108 hard heel has been completed, which is the second retrieval technology for C-108.

Significant Planned Activities in the Next Six Months - Ecology inquired about the schedule for the retrieval certification process. ORP responded that after an internal discussion this week, ORP will provide a response to Ecology. Ecology asked when discussions could take place regarding the Appendix H process. ORP clarified that Ecology is specifically speaking to the Appendix H applicability to the Consent Decree tanks, and Ecology concurred. ORP did not indicate when discussions could be initiated on Appendix H. Ecology noted that completion of the C farm PA is holding up the discussions, and when ORP provides the schedule for the retrieval certification process, Ecology will be asking again about Appendix H.

CD-Tank Waste Retrieval Work Plan (TWRWP) Status - ORP stated that the enhanced reach sluicer with high pressure water will be used in C-101 instead of the mobile retrieval system, and a revision to the C-101 TWRWP is being submitted to Ecology. Ecology asked if all the tanks have TWRWPs. WRPS responded that all of the tanks have approved TWRWPs. Ecology asked which TWRWPs need to be revised to add a second technology. WRPS will double-check on Ecology's inquiry and provide a response.

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242-A Evaporator Status - ORP stated that no campaigns are scheduled in FY12. The next campaign is scheduled for spring of FY13 with another one to follow in summer FY13. Ecology requested an estimated volume for the campaigns.

M-045-91, SST Integrity Assurance:

ORP reported that M-045-91G-TO6 has been completed to provide a report on the visual inspection of 12 single-shell tanks (SSTs). ORP noted that the milestone also requires a discussion between ORP and Ecology about continuing with more tank inspections. ORP added that a meeting is scheduled this Thursday (6/28/12) with Ecology to discuss conducting visual inspection of subtanks for signs of water intrusion and to evaluate the structural integrity of the dome. ORP indicated that the time frame for the inspections would be in FY13 or as soon as possible.

Issues - ORP noted that funding constraints have impacted FY12 M-045-91 scheduled work; however, work has been initiated on the planning for both the sidewall coring in A-106 (M-045-91B-TO1) and the C-107 dome plug core sampling (M-045-91D-TO1). The intent is to complete the rebar samples from the dome plug by the end of FY12. ORP also noted that the leak integrity assessment work (M-045-91F) and the structural analysis of record (M-045-91G) will be restarted.

Ecology requested a history of the process for determining that tanks have been isolated, noting that it would be useful for Ecology and ORP to have common knowledge as the parties move forward on the integrity and intrusion investigation work. ORP responded that the information is being gathered and a presentation could be given to Ecology. ORP suggested scheduling a meeting with Ecology to provide the information and keeping meeting minutes.

In Tank Characterization and Summary - Ecology inquired about the causes for doing best basis inventory (BBI) tank updates. ORP responded that an update could be done based on sampling results or if a certain percentage of evaporated volume is exceeded. It was noted that ORP regularly sends BBI updates to Ecology.

Tank Operations Contract (TOC) Overview - ORP reported that the TOC team has worked 4 million hours without a lost time workday injury. Overall the schedule performance index (SPI) and cost performance index (CPI) are improving, with a favorable cost and schedule variance for April 2012. The fiscal year to date SPI is slightly behind, and the CPI is reflecting a favorable

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cost variance. Base operations had a negative schedule variance of 2.1 million for April 2012, with a favorable cost variance of 246K. ORP reported good progress in retrievals, with a positive cost and schedule variance for April 2012. Ecology inquired about the additional soil analysis that allowed more soil to be removed at one time at C-105. WRPS responded that the soil work was associated with the weight and density of the soil on top of the tank; i.e., how much soil is allowed without affecting the integrity of the dome. Ecology asked whether the soil was contaminated. ORP indicated it was not, but will double-check.

The primary driver for the positive cost variance in April for waste feed delivery was associated with the Pretreatment Engineering Platform (PEP). An advance work authorization and contract modification allowed the work to complete dismantling, relocating and storing the PEP. Ecology asked when discussion could be held relative to the ongoing WTP baseline and the potential impact on waste feed delivery on the tank farms side. ORP responded that discussion cannot occur at this time since it is unknown what the status is.

Ecology noted that the supplemental treatment technologies report is due in roughly 27 months, and requested a schedule with float time and the path forward toward accomplishing the milestone. ORP responded that it will comply with Ecology's request in the sense that schedules will be developed and provided to Ecology as soon as possible. ORP noted that no funding is budgeted for supplemental treatment for the rest of FY12; however, funding has been set aside to pursue the development of the report in FY13 and FY14. ORP stated that discussions will be held with Ecology before the start of FY13 (October 2012), and then work on developing the plan and schedule will be initiated in October.

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

ORP noted that a discussion was held earlier during the tank farms portion of today's meeting regarding the status of milestones M-090-11 and M-047-06 (see TPA and CD milestone status).

Significant Past Accomplishments - ORP reported that the critical decision 1 (CD-1) package for the Interim Hanford Storage Facility is anticipated to be received from WRPS at the end of this week (6/29/12). The safety design strategy and process hazard analysis report have been completed for the Interim Hanford Storage CD-1 package. The Secondary Liquid Waste Treatment CD-1 package is on schedule to be delivered by the end of August 2012. The acquisition plans for Secondary Liquid Waste Treatment have been completed.

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Ecology inquired about the status of interim pretreatment. ORP responded that the 2020 vision for a one-system proposal has been in internal review for several months, and a final decision has not been reached. The proposal involves an interim pretreatment system as well as startup of the Low Activity Waste (LAW) facility before the rest of the Waste Treatment Plant (WTP) is ready. Ecology referred to what appears to be contractor direction from WTP that indicates a high priority of LAW starting first in terms of rebaselining, and stated that the priority implies a need for tank farms to somehow align with WTP so that interim pretreatment will be a part of that process. ORP agreed with Ecology's assessment.

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

ORP noted that the supplemental treatment technologies report associated with milestone M-062-40ZZ was already discussed, and that ORP intends to engage Ecology in the process all the way through. ORP added that for the process to be successful, the stakeholders will also be engaged, and a process will be developed to include the stakeholders. Ecology asked if meetings will be initiated between now and October to discuss supplemental treatment technologies, and ORP concurred.

System Plan - ORP reported that there have been no updates to the system plan since the May 2012 TPA milestone quarterly review, and no changes have been made to system plan 6A draft scenarios. The modeling for system plan 6A will be completed in the March/April 2013 time frame. System plan 7 will start up in May 2013 and be completed by October 2014. Ecology asked to be kept apprised of modeling updates. ORP stated that Ecology will be notified when updates are made to system plan 6A, and that Ecology will have some involvement with 6A. ORP stated that for system plan 7, Ecology will be engaged in early 2013, and will choose three of the six modeling scenarios. ORP noted that to gain maximum benefit out of the system plan in the supplemental treatment technologies report, the two activities need to tie together in the development process. ORP will be looking to integrate those activities in an effort to have two reports by the end of October 2014 that work well together.

**Waste Treatment Plant**

ORP reported that the negative cost and schedule variances are in part due to the rebaselining effort that is under way, and the current baseline does not adequately reflect the work in progress.

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Significant Planned Actions in the Next Six Months - ORP reported that RLD vessel 8 (RLD-8) has been received, but there are issues with the vessel and it has not been accepted from the vendor yet (see discussion under HLW).

Issues - ORP asked if Ecology had any questions regarding the margin issue or other issues. Ecology stated that ORP has tentatively scheduled a meeting with Ecology tomorrow (6/27/12) to discuss the erosion/corrosion issue. Ecology noted a concern regarding the number of erosion/corrosion issues in Bechtel's action plan, which contains over 31 line items in addition to the Defense Nuclear Facilities Safety Board (DNFSB) 2010-2 recommendation implementation plan. Ecology stated that the erosion/corrosion issue is snow-balling, and expressed concern that the parties do not have a good handle on the issue.

ORP stated that in mid-March 2012, an issues and findings was done. ORP conducted a surveillance on the erosion/corrosion issue, and ORP is now calling for a root cause analysis. Following those actions, ORP conducted another surveillance that identified issues with margin management. Ecology requested a copy of the margin management surveillance report, and ORP agreed to provide a copy. ORP noted that one finding in the margin management identified a cumulative management performance concern with BNI. BNI provided a briefing to ORP last week on all of the issues that were identified, and ORP has received all of BNI's reports and corrective actions. ORP is reviewing BNI's responses to the findings in draft format. Ecology asked about the extent of the issues and what ORP's direction will be. ORP responded that erosion/corrosion and margin are technical issues that can be identified and targeted. The cumulative management performance concern is broader than the technical issues, and the goal is to identify the causes that create challenges to meeting all the quality requirements and then be able to move forward in a positive manner. ORP stated that some of the concerns are cultural or organizational-related, which pose more of a challenge than an outright engineering deficiency.

Ecology expressed appreciation that a cumulative management assessment was done. Ecology noted that there are many issues being identified, but pointed out there may be issues that are not being identified that the parties aren't aware of. Ecology stated that there is a need to ensure that the parties know what the system at large looks like and to identify the root causes, reiterating that the more issues that are identified, the larger the problem becomes. ORP responded that it shares the same concerns. Ecology stated that as the concerns continue to multiply, it will not be a position to pass PCNs and will continue to push back to get substantive answers. Ecology added that it will not be receptive to being told that it is holding things up. Ecology noted that there have

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been several times that its questions on PCNs have not been addressed satisfactorily, and the responses lacked detail and substance. Ecology pointed out that PCNs are a public document, and the public should be able to clearly understand what changes are being made and the reason for the change.

ORP stated that the main objective of the root cause analysis is to identify the underlying problems and the corrective actions. ORP added that BNI has been requested to step back and do a review and extent of condition of the issues that Ecology is pointing out. Ecology asked if ORP would agree that schedule will not take precedence, and that if Ecology is getting any pressure about holding up the schedule, the issue could be turned back to ORP. ORP agreed with Ecology's request.

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

Ecology opened the discussion by noting that it has been a long time since a schedule of events for vessels in PT has been provided, and asked if PT would be able to recover within a reasonable time frame of two or three years, given the current funding constraints. Ecology referred to the rebaselining effort in WTP and the contractor direction for LAW to start up first. Ecology expressed concern with the discontinuity between WTP and tank farms; i.e., if LAW starts first, how will the waste get from tank farms to LAW. ORP responded by clarifying that the concept is not necessarily LAW start first, but since the technical issues are not as challenging to resolve in LAW as they are in PT, that LAW can continue on its path without totally rebaselining. ORP added that since there are ~~so~~ many technical issues in PT, until they are resolved PT cannot move forward with a full baseline and start working on construction.

Ecology stated that the integration function between tank farms and WTP will need to start managing at a higher level regarding how the alignment between the two projects will take place. Ecology noted that the current understanding is that tank farms is 18 to 24 months behind the ability of direct feed to LAW. ORP responded that there are internal discussions relative to the questions and comments posed by Ecology that ORP is not prepared to discuss at this time. ORP added that there is a cost benefit analysis under way to justify the extra effort to feed LAW early.

Ecology raised the issue of erosion/corrosion, and asked when a status of all the vessels and the components of concern in PT will be available so that a path forward can be identified. ORP responded that it will be some time before a status is available. Bechtel has established an

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external review team that is reviewing its plan of action for erosion/corrosion, and the team has indicated that some testing will be needed. Ecology requested a copy of the erosion/corrosion report by the external review team. ORP responded that a report has not been completed, but the presentation that was given by the team could be provided to Ecology.

Ecology noted that the DNFSB 2010-2 is to be resequenced and realigned, which will not be out until October or November 2012. Ecology also noted that a viable schedule for the action plan for erosion/corrosion will not be available until July or August 2012 at the earliest, and asked when these activities will start to come together. Ecology pointed out that 2010-2 has milestones from now until 2016, and stated the possibility that the activities relative to the erosion/corrosion action plan and the 2010-2 milestones could carry on for four years. ORP acknowledged Ecology's concern, and concurred that activities are moving to the right on the schedule. ORP noted that during recent Large Scale Integrated Testing (LSIT) workshops, progress was difficult due to many of the activities being interrelated. Many of the activities are dependent on the safety requirements, and during the workshop it was identified that the safety planning needed to be improved. Another component is the determination that Computational Fluid Design (CFD) will not resolve the scaling for non-Newtonian vessels.

Ecology asked if ORP would be able to assess the impact on schedule from an integration aspect. ORP responded that a meeting is scheduled today regarding the erosion/corrosion and design margin issues, and the integration point of contact will be present and is involved. Ecology stated that after listening to today's conversation, what appears to be lacking is a risk management plan. ORP responded that there is planning under way for a plan B or plan C, but the challenge to planning is due the number of comments and comment resolution on the issues. Ecology concluded by stating there are many aspects to the whole picture, and there are impacts and risks that need to be managed. Ecology added that its position is it will be cautiously optimistic about the quality of the design media. ORP noted that the common cause analysis and the corrective action report are associated with the risk management program.

### **High Level Waste**

ORP stated that a walk-down of the 37-foot structural steel will be scheduled in July 2012 with Ecology, and the Consent Decree milestone is on schedule to be completed by October 2012. There is one more vessel to be placed in the rinse tunnel, and then the four pieces of structural steel

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can be placed over the rinse tunnel. A 100-foot-long by 20-inch diameter line was placed in the filter cave, and now the steel beams can be placed over the filter cave.

ORP reported on the welding issue with RLD-8. The vessel is currently at Mid-Columbia Engineering (MCE), and is under the vendor's control until the issue is resolved. ORP stated that three weeks were spent with a certified weld inspector, who inspected the vessel inside and out. ORP noted that there are 53 different penetrations on the head of the vessel and several more on the inside, and the inspector looked at every weld on the vessel. The inspector wrote a report that was sent to the vendor, and the vendor has agreed the welds need to be fixed. Ecology noted that this weld issue has been ongoing for about three months. ORP responded that there were contractual issues and an issue with distance since the vendor is located in England. Ecology asked if the inspection was a visual inspection. ORP stated that there was RT testing, but the issue with the welds (size of welds) was identified by visual inspection. A root cause analysis is being done, and the vendor has to submit a corrective action plan. ORP noted that corrective actions have already been instituted on other vessel procurements that include a more rigorous inspection process before shipping the vessel, and a second barrier analysis, which is done for all NQA-1 vessels. ORP stated that when the root cause analysis is completed, more actions will be identified.

Ecology asked if any retrofitting is anticipated on vessels already on site. ORP indicated that there could be some retrofitting, noting that an extent of condition is being done on some vessels that have been placed on PT. ORP added that seven vessels in PT were inspected, and there were welds in each vessel that had undercuts or undersizes. The weld expert has stated that the welds are within code, which is set for a 40-year life. Ecology questioned whether the undercut welds could compromise the robustness of a vessel. ORP responded that there will be a 100 percent review of the vessels in place, and a determination will be made on a case-by-case basis on what needs to be fixed. ORP added that as part of the structural peer review team, a peer review over the weld quality will be instituted, specifically in the black cell areas.

Ecology asked who was responsible for the inspection of the welds before they were shipped. ORP responded that the vendor is responsible, and the vendor was certified in accordance with ASME requirements, but didn't meet those requirements. Ecology asked if there was on-site QA surveillance at the vendor. ORP stated that there was QA surveillance, but it is ORP's opinion that due diligence wasn't conducted before the vessel was shipped. ORP noted that RLD-8 is the only vessel fabricated by this vendor, and there are no other procurements with the vendor. The other vessel in HLW is RLD-7, and it is being manufactured in New Jersey. The weld inspector

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has also inspected RLD-7, and it will not ship until after the second barrier review. Ecology requested the total inventory of vessels that are potentially subject to the weld issue.

Ecology asked if there is a hold on installation of any vessel. ORP stated that there is a hold on the pulse jet mixers (PJM), and none of them will be placed until the technical issue with the design verification is resolved. The verification and confirmation of the design is being done through the LSIT. RLD-7 and RLD-8 were the first vessels to be tested before being placed. Prototypical designs of mixers will be tested to ensure adequate mixing. The test facility is under construction and is located near the Hanford site.

Ecology inquired about the significant increases in the HLW budgeted cost of work scheduled for May, June and July 2012. ORP responded the funding is not available to meet the targets, and the numbers have not been addressed based on the new funding levels.

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

Significant Planned Actions in the Next Six Months - ORP reported that all of the planned actions are on schedule with the exception of receipt of the thermal catalytic oxidizer (TCO) for the secondary offgas systems. ORP noted that the slippage in receipt of the TCO is a contract issue between the vendor and its manufacturer. Bechtel is sending a cure notice letter to the vendor, and the vendor CEO will be notified directly that it is not working a schedule to meet the original commitment. ORP stated that there is a six-month float in the schedule, but the issue is eroding the float time. The initial TCO data has been received from the vendor for the permit packages. Ecology asked when ORP will know about the impact to the schedule float time. ORP responded that the status will be understood and provided by the next PMM.

ORP acknowledged receipt of Ecology's agreement via e-mail to proceed with the offgas permit packages that resolved the corrosion issues. Ecology asked if the modifications to LAW for direct feed are proceeding. ORP responded that the direct feed modifications are still within the replanning and are actively being pursued.

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

ORP stated that weekly meetings are being held to review the schedules for turning over systems and facilities next year. Ecology added that during the past several months there have been discussions with ORP to define substantially complete and facility turnover so that both parties

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understand what it means and that it is being done appropriately. Ecology noted that some BOF facilities will be ready for turnover within five to six months. ORP stated that walk-downs for those BOF facilities will be scheduled and also for the LAB substantially complete milestones.

**Analytical Laboratory (LAB)**

ORP stated that the focus in LAB continues to be defining substantially complete and meeting the substantially complete milestone. A draft substantially complete write-up is in internal review. Ecology asked if there will be a plan in place for methods analysis of LAB instruments. ORP deferred an answer to the main point of contact for LAB, and an answer will be provided at a later time to Ecology. Ecology inquired about the status of the turbine generator procurement. ORP responded that the procurement is on schedule.

Ecology inquired about the issue with the radial HEPA filters. ORP responded that there are radial HEPA filters located in LAB, LAW, HLW and PT. Several years ago the decision was made to design the filters to nuclear quality requirements, the reasoning being that the requirement would be adequate to meet the standards and code. The standards and code requires testing for temperature, humidity and loading, or differential pressure, but not all at the same time. The filters meet code, but they failed during testing last year when some of the pleats in the filters collapsed. The collapsed pleats cause a decrease in effective surface area. Oregon Department of Energy (ODOE) asked what caused the pleats to collapse. ORP responded that humidity appears to be the main driver. ORP noted that when the filters were tested independently for temperature, humidity and differential pressure, the filters worked as designed, but when the filters were tested with all the components, the filters did not test out. Ecology asked if the issue with these filters is common to all of the facilities. ORP responded that it is; however, there are differences in the process conditions in the different facilities.

Ecology asked if the filters were tested to meet AG-1 criteria. ORP responded that the filters meet AG-1 and NQA-1 criteria, but they don't meet the process conditions. Ecology asked if the process conditions were bounded sufficiently to test at all levels. ORP responded that the first step of the corrective action plan is to ensure the bounding conditions are sufficient. Ecology stated that from its perspective, any of the kinds of component tests would not be considered sufficient, and that a system-level test is needed to test for cumulative impacts along the treatment train. Ecology added that it will be very critical of the testing protocols to ensure that system level tests will exercise a cumulative impact on the systems and components.

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ORP stated that there is a technical path forward for the filter issue, and a letter is being sent to Bechtel to proceed with correcting the issue. ORP added that the resolution to the issue is not difficult, but the cost presents an issue that is being evaluated. The different process conditions are being considered, and a solution may be to design a filter to accommodate extreme conditions and another filter for basic processing. Ecology noted the erosion/corrosion issue may require a change in process to the code, and the mixing and filter issues may require a change in process throughput. ORP responded that that is the basis for issuing a cumulative management performance concern to Bechtel.

### **3.0 Agreements, Issues, Actions**

ORP stated that the agreements, issues and actions list was updated from the last PMM and sent out to all the parties via e-mail. ORP noted Ecology's request to provide a listing of the process control times and waste compatibility assessment for SST retrievals, and will provide those after today's meeting.

### **4.0 Key Documents List**

A revised key documents list was provided today.

### **5.0 Upcoming Meetings**

The next ORP PMM is scheduled for July 24, 2012.

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**Attachment A: Agreements, Issues and Actions**

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

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

### Agreements:

1. Meetings for resolution of comments for M-45-101(Component ID and Closure Strategy) and M-045-81 (Pipeline Feasibility Evaluation) documents are on-going. ORP and ECY aim to reach final resolution and release the revised documents in July.
2. M-045-80 Item 1 (Description of Radioactive Waste Determination Process) – ORP will provide a final production of the WIR document after ECY approves the final updates.
3. ORP will continue to meet with ECY to discuss funding and work priorities.
4. 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).
5. 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.

### Actions:

1. ECY will begin comment review process for the change notice for M-045-92B specific to monitoring plan, scope, and schedule for TY Barrier on 04/01/12. Actionee: Michelle Hendrickson. **Open.**
2. 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. Actionee: Chris Kemp/Susan Eberlein. **Open.**
3. ECY will provide approval or other action on the M-045-58 workplan. Actionee: Jeff Lyon. **Open.**
4. ORP is working on an ECY request to improve future IQRPE reports for DST, SST, and 242-A Evaporator retrieval/transfer projects. Actionee: Chris Kemp/Jeremy Johnson/Michelle Hendrickson. **Open.** 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.
5. ORP will provide information to ECY (Lyon) on Mixer Pump work for Waste Feed Delivery. Actionee: Glyn Trenchard. **Open.**
6. A change package for M-045-92 Barrier Milestones is under final review for signature. Actionees: Jeff Lyon/Chris Kemp/Susan Eberlein. **Closed.** TPA Change Package M-45-12-04 was signed by ORP and ECY on 06/21/12. See ECY approval letter 12-NWP-098.
7. ORP and WRPS will develop and provide to ECY a C-108 Lessons Learned for use in future caustic dissolution activities. Actionees: Chris Kemp/Jeff Luke/Susan Eberlein. **Open.**

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

8. 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)

Actionee: Chris Kemp. **Open.**

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**Attachment B: List of Attendees**

**(3 pages including this coversheet)**

**Sign In Sheet**  
**ORP TPA PMM Meeting**  
**June 26, 2012**

NAME	ORG	MSIN	PHONE
Reed Kaldor	MSA		372-1992
Sydney Nachbaur	WTP		
KATE Woody	WTP		376-4099
Chris Harrington	ORP		376-1239
Felix Miera	WRPS		376-7034
Woody Russell	ORP		373-5227
DeBrisha Smith	ORP		376-4300
Jeff Lyan	Ecology		337-710
Dan McDonald	Ecology		372-7988
Shirley Simon	ODOB		(414) 240-0161
GLYN TRENCHARD	ORP		373-4016
Tanet Diediker	ORP		372-3043
Ellen Mattlin	ORP		376-1900
Jeremy Johnson	ORP		376-1866
JAMES LYNCH	ORP		376-4170
Gary Olsen	ORP		438-0407
Peg Donato	ORP		373-7211
Jeff Bruggena	DOE		438-0444
ROB PIRRO	MSA		373-3235
Kathy Kray	KAY Reporting		946-5535
WAHED ABDOUL	WTP		438-0455

**Sign In Sheet**  
**ORP TPA PMM Meeting**  
**June 26, 2012**

NAME	ORG	MSIN	PHONE
MICHAEL PELLOQUIN	WRPS		539-5357
Carol Stech	WRPS		373-7241
Joni Grindstaff	DOE-ORP		376-6222
Susan Eberlein	WRPS		372-1689
Mike Barnes	Ecology		372-7927
Jeff Luke	WRPS		
Jocelyn Grindstaff	DOE-ORP		
Courtney Perez	DOE-ORP		
Nancy Uzemblo	Ecology		
Steve Pfaff	DOE-ORP		376-2188
Chris Kemp	DOE-ORP		373-0649
Kathy Di gazio	DOE-ORP		
DAVID BECKER	ECY		372-7990
Wang Gao	ECY		372-7901
R. Biyani	ECY		372-7884
William Riker	DOE-ORP		376-3302
Nitya Chandran	ECY		372-7931
Arlene Tortoso	Ecology		372-7956
Greg Gauck	Ecology		946-1281

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**Attachment C: Presentation Materials**

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

**And**

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

**And**

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

**(53 pages including this coversheet)**

**FINAL**

Office of River Protection

Tri-Party Agreement

Monthly Summary Report

June 2012



Office of River Protection  
Tri-Party Agreement Milestone Review  
June 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
7	C-Farm Critical Path	Kathy Higgins / Jeff Lyon
10	242-A Evaporator Status	Glyn Trenchard / Jeff Lyon
11	SST Integrity Assurance; M-45-91	Jeremy Johnson/ Michelle Hendrickson
13	In Tank Characterization and Summary	Jeremy Johnson / Michael Barnes
14	Tank Operations Contract (TOC) Overview	Janet Diediker / Jeff Lyon
20	Acquisition of New Facilities; M-90-00; M-47-00	Janet Diediker / Jeff Lyon / Dan McDonald
21	Supplemental Treatment and Part B Permit Applications; M-62-00, -20, -30, -45	Steve Pfaff / Jeff Lyon / Dan McDonald
22	System Plan; M-62-40	Dabrisha Smith / Jeff Lyon / Dan McDonald
23	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		To Be Missed
M-062-01Y	Submit Semi-Annual Project Compliance Report	7/31/2012		On Schedule
M-045-56H	Meet Yearly to Discuss Interim Measures	7/31/2012		On Schedule
<b>Fiscal Year 2013</b>				
*M-045-92L	Barrier 1 Construction Complete	10/31/2012		To Be Missed
M-045-92G	Meet Yearly on Performance of Barrier	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		At Risk
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	1/31/2012		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-045-92O	Barrier 3 Design/Monitoring Submittal to Ecology	6/30/2013		At Risk
M-045-91F-T02	Provide Report of Liner Failures for SSTs	7/31/2013		On Schedule
M-045-91F-T04	Provide Report on 100-Series SSTs as having Leaked in RPP-32681	7/31/2013		On Schedule
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

\*ORP/Ecology Approved Change Package M-45-12-04 changes will be reflected in next month's report.

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

**M-045-58, Submit to Ecology for Review and Approval as an Agreement primary document, a phase 2 CMS Master Work Plan, Due: 12/31/08 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), it is now understood 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.

**M-045-60, Submit to Ecology for review and approval as an Agreement primary document DOE's Phase 2 RFI/CMS Work Plan and Sampling and Analysis Plan (SAP) for WMA C, Due: 12/31/08, Status: Complete.** Continue field sampling with decommissioning of angle push under C203 underway. ORP and Ecology met for review of sampling results and draft work plan modifications and sampling optimization strategy on 09/22/11. September meeting minutes, which document efforts, were signed 11/09/11 by parties and were subsequently entered into the administrative record. A draft Work Plan/SAP Modification and TPA Change Notice was formally submitted to Ecology on 1/05/12 with a requested response by 2/10/12. Ecology provided response letter 12-NWP-071 on 05/08/12, approving proposed changes in both the Work Plan/SAP documents. The updated documents have been released, and a formal response to Ecology's letter is being prepared.

**M-045-56H, Complete Implementation of Agreed to Interim Measures (Meet Yearly to Discuss Interim Measures), Due: 07/31/12, Status: On Schedule.** The annual M-45-56 meeting has been scheduled for June 21, 2012.

**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: 12/31/14, Status: On Schedule**

**M-045-62, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 Corrective Measures Study Report 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: 9/30/2016, Status: On Schedule.**

**M-45-92B, DOE shall submit to Ecology for approval, a final design and monitoring plan for TY farm interim barrier,** Due: 03/31/2010, Status: Complete. A revision will be made to the monitoring plan and submitted to Ecology with a TPA Change Notice, based on current evaluation of data as documented in meeting minutes signed by the parties as part of M-045-92F. A draft Interim Barrier monitoring technical evaluation and draft change notice was provided to Ecology for comment as per Approved Meeting Minutes.

**M-045-92F, DOE and Ecology will meet yearly to review the monitoring data, agree to changes in monitoring (if needed) and assess the performance of the demonstration barrier,** Due: 12/31/2011, Status: Complete. Meeting was held 11/30/11. Meeting notes have been prepared, signed on 12/19/11, and have been entered into the TPA Administrative Record.

**M-045-92L, Construct Barrier 1** Due: 10/31/12, Status: To Be Missed. Change Package is being developed. See issues below.

**M-045-92O, Submit a Final Design and Monitoring Plan for Interim Barrier 3** Due: 06/30/13, Status: At risk. Being addressed in conjunction with M-045-92L change package.

**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.
- Continued laboratory analysis of direct push soil samples previously obtained in C farm
- Finalized updates to WMA C RFI/CMS work plan and SAP based on Ecology's approval of the TPA change notice

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

- Publish results of evaluation of barrier monitoring data, and recommend changes to future monitoring plan for TY barrier.
- Continue laboratory analysis of direct push soil samples previously obtained in C farm.
- Finalize the TPA Change Package for M-045-92, based on Ecology's review of the draft TPA Change Package.
- Hold the annual meeting for M-45-56. Perform planning for Fiscal Year 2013 Interim Measures activities.

**Issues:**

FY2012 funding constraints will impact M-045-92 barriers work. TPA Change Package M-45-12-04 was signed by ORP and Ecology on 06/21/12; this revises the M-045-92 milestone to defer construction of proposed interim barriers in lieu of initiating vadose zone sampling and treatment testing. Changed/additional milestones will be reflected in next month's report (see Ecology approval letter 12-NWP-098).

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: 12/31/14.

## SST Retrieval and Closure Program

**M-045-101, Submit to Ecology as a primary document a report on all catch tanks and associated pipelines in the SST System Part A, Due: 12/27/10, Status: Complete.** Document transmitted from ORP to Ecology via letter 10-TPD-176 on 12/28/10. Comments were transmitted from Ecology to ORP on May 27, 2011, via letter 11-NWP-048. ORP requested one extension to the comment resolution period to December 5, 2011. Resolutions have been identified for all comments and the RCRs and redline provided to Ecology on 11/14/2011 with an extension date for Ecology response of March 15, 2012. Ecology and ORP met in May and are continuing to meeting in June to discuss comment resolution.

**M-045-80, Complete those portions of C-200 Closure Demonstration Plan, Due: 1/31/2011 Status: Complete.** Four primary documents transmitted from ORP to Ecology via letter 10-TPD-166 on 12/28/10. Comments on three of the four documents were transmitted from Ecology to ORP on May 27, 2011, via letters 11-NWP-045, 11-NWP-047, and 11-NWP-051. ORP requested an extension, to December 5, 2011. Ecology requested additional time to review *Radioactive Waste Determination Process Plan for Waste Management Area C Tank Waste Residual* via 11-NWP-049. ORP transmitted responses on the C-301 Catch Tank Retrieval Feasibility Study (RPP-RPT-45723) to Ecology on November 8, 2011, via 11-TDP-085. ORP transmitted responses on the 241-C Tank Removal Study (RPP-RPT-47167) on November 9, 2011, via 11-TPD-084. ORP received Ecology comments on the *Radioactive Waste Determination Process Plan for Waste Management Area C Tank Waste Residuals* on December 7, 2011 and is evaluating comments. ORP transmitted responses for *The Waste Management Area C RCRA/CERCLA Integration White Paper* (RPP-PLAN-46459) on January 17, 2012 via 11-TF-151. ORP provided updated Draft WIR process paper with RCRs to Ecology on March 15<sup>th</sup>. Ecology and ORP agree to meet to discuss comment resolution and extend the final resolution to the end of May. Ecology's comments were incorporated and the revised document has been provided to Ecology for final review.

**M-045-81, Implement & complete all remaining activities in C-200 Closure Demonstration Plan, with any revisions agreed to by Ecology and DOE, and provide a report of the results of those activities, Due: 9/30/2014, Status: Complete.** The original C-200 Closure Demonstration Plan was revised and released as *Waste Management Area C Closure Demonstration Project Plan* (RPP-PLAN-46484, Revision 3). Ecology and DOE agreed to the changes in this revision of the plan in December 2011 Project Managers Meeting. The remaining deliverable specified in the closure demonstration plan was formally transmitted from ORP to ECY via letter 10-TPD-166 on 12/28/10. Comments were transmitted from Ecology to ORP on June 1, 2011, via letter 11-NWP-052. ORP requested an extension, to December 5, 2011. Ecology and ORP met on 11/1, 11/14, and 11/17/2011 to resolve comments. ORP requested an extension to March 15, 2012 to incorporate comment resolutions. ORP provided updated Draft Pipeline Feasibility Report and RCRs to Ecology on March 15<sup>th</sup>. Ecology and ORP met in May and are continuing to meeting in June to discuss comment resolution.

**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.
- Work to discuss and resolve issues and comments associated with deliverables for M-45-101, 80, and 81.

**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 will be evaluated.

## **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:**

None

#### **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:**

None

#### **Issues:**

None



SLCS-CUR / OPER-CUR		C-Farm Critical Path by WBS												Data Date 28-May-12															
Activity ID	Activity Name	Orig Dur	Perm Dur	Current Start	Current Finish	Total Float	Chg Since Last Month	FY2010 F01	FY2010 F02	FY2010 F03	FY2010 F04	FY2011 F01	FY2011 F02	FY2011 F03	FY2011 F04	FY2012 F01	FY2012 F02	FY2012 F03	FY2012 F04	FY2013 F01	FY2013 F02	FY2013 F03	FY2013 F04	FY2014 F01	FY2014 F02	FY2014 F03	FY2014 F04	FY2015 F01	FY2015 F02
HHA-3C005B2	C-105 Retrieval Installation Design - MARS Eductor	148	80	15-Jan-12 A	19-Sep-12	228	33																						
HHA-3C005C	C-105 Procurement of Phase 1 Components - FY11	72	0	15-Jul-11 A	04-May-12 A		-2																						
HHA-3C005E	C-105 Retrieval System Installation - Phase 1	198	88	01-Dec-11 A	01-Oct-12	220	-1																						
HHA-3C005E3	C-105 Retrieval System Installation - MARS	227	227	24-Jul-12*	17-Jun-13	42	0																						
HHA-3C005F	C-105 Retrieval Startup and Readiness	235	235	04-Sep-12	08-Aug-13	42	0																						
HHA-3C005G	C-105 Retrieval Operations (MARS)	227	227	09-Aug-13*	23-Mar-14	61	0																						
HHA-3C005M2	C-105 Hard Heal Rmvl Evaluations & Readiness	40	40	24-Mar-14	02-May-14	61	0																						
HHA-3C005M	C-105 Hard Heal Rmvl Operations	90	90	03-May-14	31-Jul-14	61	0																						
HHC-3C005R	Complete C-Farm Retrieval - Consent Decree D-00B-01	0	0		05-Sep-14	17	0																						
M-B-1	M-B-1, Complete C-Farm Retrieval (D-00B-01 Due Date)	0	0		30-Sep-14*	0	0																						
<b>5.02.02.06.07 C-107 Retrieval</b>		<b>604</b>	<b>60</b>	<b>01-Apr-10 A</b>	<b>21-Aug-12</b>	<b>219</b>	<b>0</b>																						
HHA-3C007E	C-107 Retrieval System Installation	379	0	01-Apr-10 A	30-Sep-11 A		0																						
HHA-3C007F1	C-107 Retrieval Startup and Readiness for MARS	132	0	21-Mar-11 A	25-Sep-11 A		0																						
HHA-3C007G	C-107 Bulk Retrieval Operations (MARS) FY11	50	0	11-Oct-11 A	28-Oct-11 A		0																						
HHA-3C007G1	C-107 Bulk Retrieval Operations (MARS) FY12	96	50	28-Oct-11 A	16-Jul-12	324	-19																						
HHA-3C007H1	C-107 Hard Heal Retrieval Evaluations and Readiness	15	15	25-Jun-12*	16-Jul-12	245	-27																						
HHA-3C007M	C-107 Hard Heal Rmvl Operations	41	41	25-Jun-12*	21-Aug-12	219	0																						
<b>5.02.02.06.08 C-108 Retrieval</b>		<b>473</b>	<b>0</b>	<b>22-Feb-10 A</b>	<b>04-May-12 A</b>	<b>-7</b>	<b>0</b>																						
HHA-1C006K	C-108 Hard Heal Rmvl Installation	75	0	22-Feb-10 A	10-Nov-11 A		0																						
HHA-1C006M	C-108 Hard Heal Rmvl Operations	57	0	13-Oct-11 A	04-May-12 A		-7																						
<b>5.02.02.06.09 C-109 Retrieval</b>		<b>192</b>	<b>98</b>	<b>28-Nov-11 A</b>	<b>15-Oct-12</b>	<b>241</b>	<b>1</b>																						
HHA-1C009HA	C-109 Hard Heal Rmvl Design & Engineering Support	41	16	28-Nov-11 A	19-Jun-12	323	-33																						
HHA-1C009K	C-109 Hard Heal Rmvl Installation	49	1	21-Dec-11 A	19-Jun-12	323	-27																						
HHA-1C009M	C-109 Hard Heal Rmvl Operations	96	98	30-Apr-12 A	15-Oct-12	241	1																						
<b>5.02.02.06.10 C-110 Retrieval</b>		<b>293</b>	<b>214</b>	<b>13-Feb-12 A</b>	<b>03-Apr-13</b>	<b>125</b>	<b>0</b>																						
HHA-1C010K1	C-110 Hard Heal Foldtrack Modifications	49	58	13-Feb-12 A	17-Aug-12	221	-31																						
HHA-1C010K	C-110 Hard Heal Rmvl Installation	42	110	22-Mar-12 A	31-Oct-12	169	0																						
HHA-1C010K2	C-110 Hard Heal Rmvl Installation	67	67	01-Oct-12	08-Jan-13	125	0																						
HHA-1C010M	C-110 Hard Heal Rmvl Operations	60	60	09-Jan-13	03-Apr-13	125	0																						

Page 2 of 3

C-Farm Retrieval Critical Path Current Schedule May 2012

TASK filters: 1 - C-Farm CP Exclude, C-Farm - Critical Path.

SLCS-CUR / OPER-CUR		C-Farm Critical Path by WBS																		
Activity ID	Activity Name	Chg Dur	Herm Dur	Current Start	Current Finish	Total Float	Chg Since Last Month	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015							
								FO1	FO2	FO3	FO4	FO1	FO2	FO3	FO4	FO1	FO2	FO3	FO4	
<b>5.02.02.06.11 C-111 Retrieval</b>		485	327	11-Oct-11 A	12-Sep-13	140	0													
HHA-1C011R	C-111 Sample for HHR Decision	107	67	11-Oct-11 A	26-Sep-12	262	-66													
HHA-1C011H	C-111 Hard Heel Rmvl Design & Engineering Support FY12	122	122	01-Oct-12*	27-Mar-13	140	0													
HHA-1C011H1	C-111 Hard Heel Rmvl Design & Engineering Support FY13	73	73	28-Mar-13	10-Jul-13	140	0													
HHA-1C011J	C-111 Hard Heel Rmvl Procurement FY13	43	43	28-Mar-13	28-May-13	140	0													
HHA-1C011K	C-111 Hard Heel Rmvl Installation	73	73	28-Mar-13	10-Jul-13	140	0													
HHA-1C011M	C-111 Hard Heel Rmvl Operations	45	45	11-Jul-13	12-Sep-13	140	0													
<b>5.02.02.06.12 C-112 Retrieval</b>		941	364	18-Feb-10 A	07-Nov-13	164	0													
HHA-1C012B	C-112 Retrieval Design	125	0	18-Feb-10 A	16-Dec-11 A	0	0													
HHA-1C012E	C-112 Retrieval System Installation	144	0	03-Jan-11 A	22-Dec-11 A	0	0													
HHA-1C012F	C-112 Retrieval Startup and Readiness	57	0	11-Jul-11 A	21-Dec-11 A	0	0													
HHA-1C012G	C-112 Retrieval Operations (MS)	56	0	28-Dec-11 A	25-May-12 A	1	1													
HHA-1C012R	C-112 Sample for HHR Decision FY12	64	64	01-Jun-12*	26-Sep-12	186	0													
HHA-1C012R1	C-112 Sample for HHR Decision FY13	23	23	01-Oct-12	31-Oct-12	186	0													
HHA-1C012H	C-112 Hard Heel Rmvl Design & Engineering Support	195	195	01-Nov-12	12-Aug-13	186	0													
HHA-1C012J	C-112 Hard Heel Rmvl Procurement	125	125	03-Jan-13	28-Jun-13	186	0													
HHA-1C012K	C-112 Hard Heel Rmvl Installation	70	70	03-May-13	12-Aug-13	186	0													
HHA-1C012M	C-112 Hard Heel Rmvl Operations	40	40	13-Sep-13	07-Nov-13	164	0													
<b>5.02.02.06.20 C-Farm Infrastructure DST Receiver Tank 4</b>		464	88	07-Dec-10 A	01-Oct-12	9572	-2													
HNA-2NFC0B	C-Farm Infrastructure DST Receiver Tank 4 Design	100	0	07-Dec-10 A	22-Feb-12 A	0	0													
HNA-2NFC0BA	C-Farm Infrastructure DST Receiver Tank 4 Design	20	31	17-Nov-11 A	11-Jul-12	9629	-11													
HNA-2NFC0D	C-Farm Infrastructure AN-101 Upgrades - Construction	66	79	30-Apr-12 A	18-Sep-12	37	-1													
HNA-2NFC0E	C-Farm Infrastructure AN-101 Upgrades Startup/Readiness	75	75	15-Jun-12	01-Oct-12	37	-2													
HNA-2NFC0CS	C-Farm Infrastructure AN-106 HIHTL Procurement	67	41	16-Apr-12 A	25-Jul-12	300	-19													
HNA-2NFC0D3	C-Farm Infrastructure AN-106 HIHTL Replacement	93	55	28-Mar-12 A	28-Aug-12	276	9													
HNA-2NFC0E1	C-Farm Infrastructure AN-106 HIHTL Replacement Startup/Readiness	19	19	08-Aug-12	04-Sep-12	276	1													

Actual Work
  Remain Work
  Critical Remain Work
  Milestone
  Baseline Act
  Baseline Milestone

C-Farm Retrieval Critical Path  
Current Schedule  
May 2012

Page 3 of 3

TASK filters: 1 - C-Farm CP  
Exclude, C-Farm - Critical Path.

Data Date 28-May-12

## 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-045-91G-T02, provide to Ecology the Structural Analyses of Record final documentation for SSTs for 750,000 gallon tanks (BY, S, TX and TY Farms), Due: 1/31/2012, Status: Complete 11/18/11. (ORP letter 11-TPD-091)**

**M-045-91D, Submit to Ecology an analytical test plan for the cores removed from the C-107 plug, Due: 3/31/2012, Status: Complete 06/27/11. (ORP letter 11-TPD-043)**

**M-045-91G-T06, Provide to Ecology a report documenting and evaluating the visual inspection of 12 SSTs per the criteria in M-045-91G-T05, Due: 3/31/2012, Status: Complete 03/12/12. (ORP Letter 12-TF-0007)**

**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: 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 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-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: On schedule.**

**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: On schedule.**

**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: On schedule.**

**M-045-91F, Provide to Ecology a report (Summary Conclusions Report on Leak Integrity) summarizing and evaluating the information submitted under M-045-91F-T01 through - T04, Due: 12/31/2013, Status: On schedule.**

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

**M-045-91B-T01, Provide Ecology a report containing the results and interpretation of testing, and analysis, performed on the concrete core obtained from Tank A- 106 or 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:**

- Completed target M-045-91F-T03, provide Ecology the Ionic Conductivity Feasibility Report. (ORP letter 12-TF-0009, dated 05/02/12)

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

- Planning for FY2013.

**Issues:**

- FY2012 funding constraints will impact FY2012 M-045-91 scheduled work. TPA Change Packages will be developed as needed.

## In Tank Characterization and Summary

For the period from May 1 – May 31, 2012:

### Accomplishments:

- Completed two liquid grab sampling events during the hard heel retrieval of tank 241-C-109. Liquid grab samples were collected on May 8 and 9, 2012, during sodium fluoride phosphate (natrophosphate) dissolution.
- RPP-RPT-52202, Rev. 0, *Final Report for Tank 241-AN-101 Mid-Retrieval Grab Samples in Support of Corrosion Mitigation During Tank 241-C-112 Retrieval* was released.
- RPP-RPT-52203, Rev. 0, *Final Analytical Report in Support of 241-C-108 Hard Heel Dissolution* was released.

### Planned Action within the next Six Months:

- Tank Sampling
  - Tank SY-102 grab samples for chemistry control – currently scheduled for June 2012
  - Tank C-107 stack gas samples to evaluate emissions of potential Toxic Air Pollutants at the middle of retrieval – currently scheduled for June 2012
  - Tank C-104 grab samples to support heel retrieval – currently scheduled to start in June 2012
  - Additional tank C-109 grab samples to support heel retrieval – currently scheduled to re-start in June 2012
  - Tank AN-106 grab samples for chemistry control after completion of C-107 sluicing - currently scheduled for July 2012
  - Tank C-108 off- riser samples for tank component closure – currently scheduled for June 2012
  - Tank AZ-102 grab samples for chemistry control – currently scheduled for July 2012
  - Tank AN-101 grab samples for chemistry control after completion of C-112 sluicing, caustic addition, and C-104 hard heel dissolution - currently scheduled for August 2012.
  - Tank C-112 off- riser samples to evaluate waste characteristics for heel dissolution may occur during June –September 2012 depending on the progress of retrieval. This sampling event may be replaced by in-tank analysis with a Raman probe.
- BBI Updates
  - Five tanks have been identified for updates in FY12 Quarter 3. The BBI updates will be issued in July 2012.
- Data Quality Objectives (DQO)
  - Revision of the DST Chemistry Control DQO (RPP-8532), PCB Management DQO (RPP-7614) and the Compatibility DQO (HNF-SD-WM-DQO-001) in May 2012
  - Revision of the Strategic Planning DQO (RPP-44057) in May 2012

### Issues:

None.

## TANK OPERATIONS CONTRACT (TOC) OVERVIEW

### Project Performance

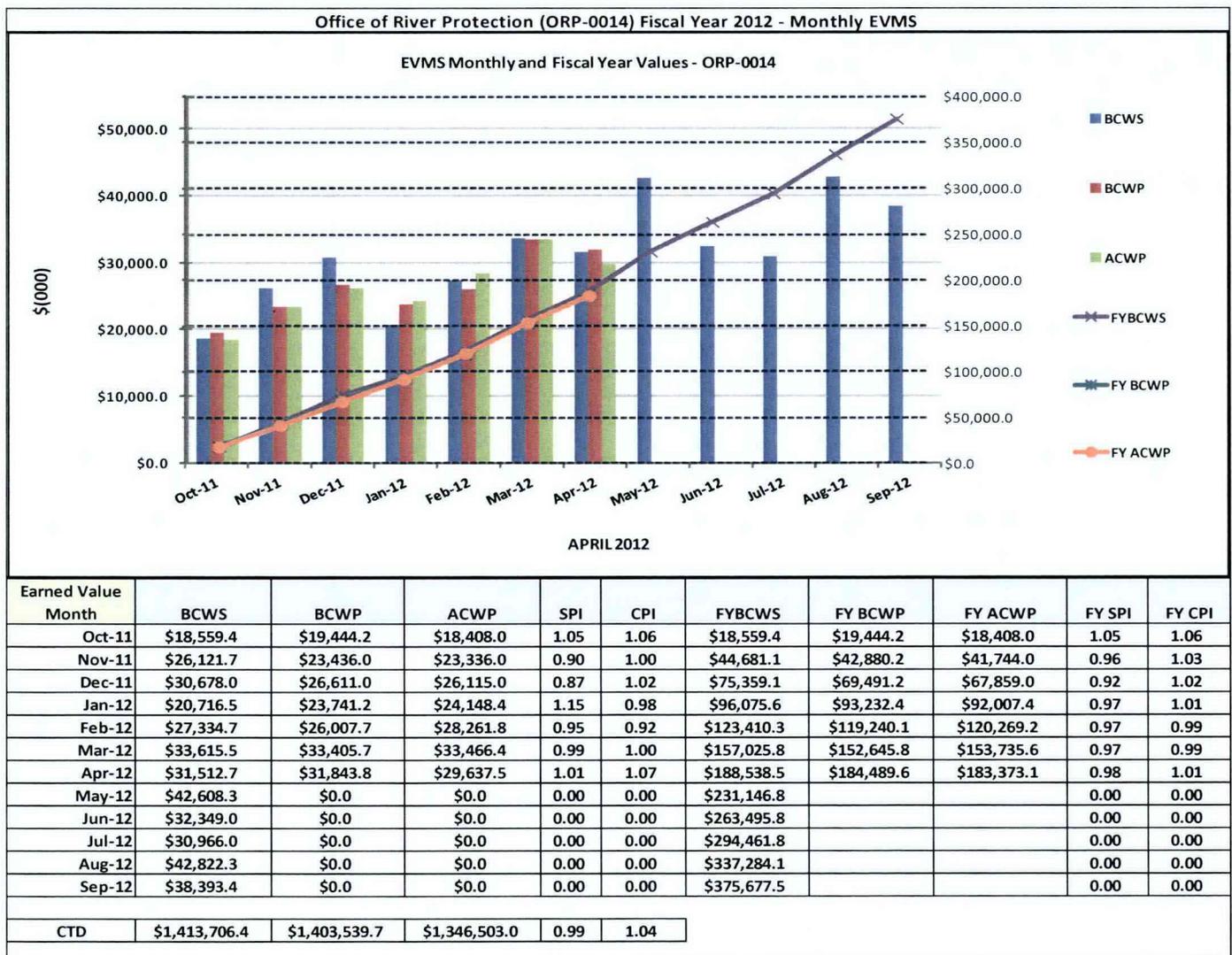
The earned value performance reporting reflects the format, Work Breakdown Structure (WBS) reporting levels, and variance thresholds as agreed to with the Tank Farms Operations Contractor (TOC) for monthly performance reporting. The earned value analysis is not intended to be a measurement of performance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

As of April 30, 2012, Washington River Protection Solutions LLC (WRPS) worked 3,721,163 hours (385 days) without a Lost Time Workday Injury and 2,329,391 hours (257 days) without a Recordable case.

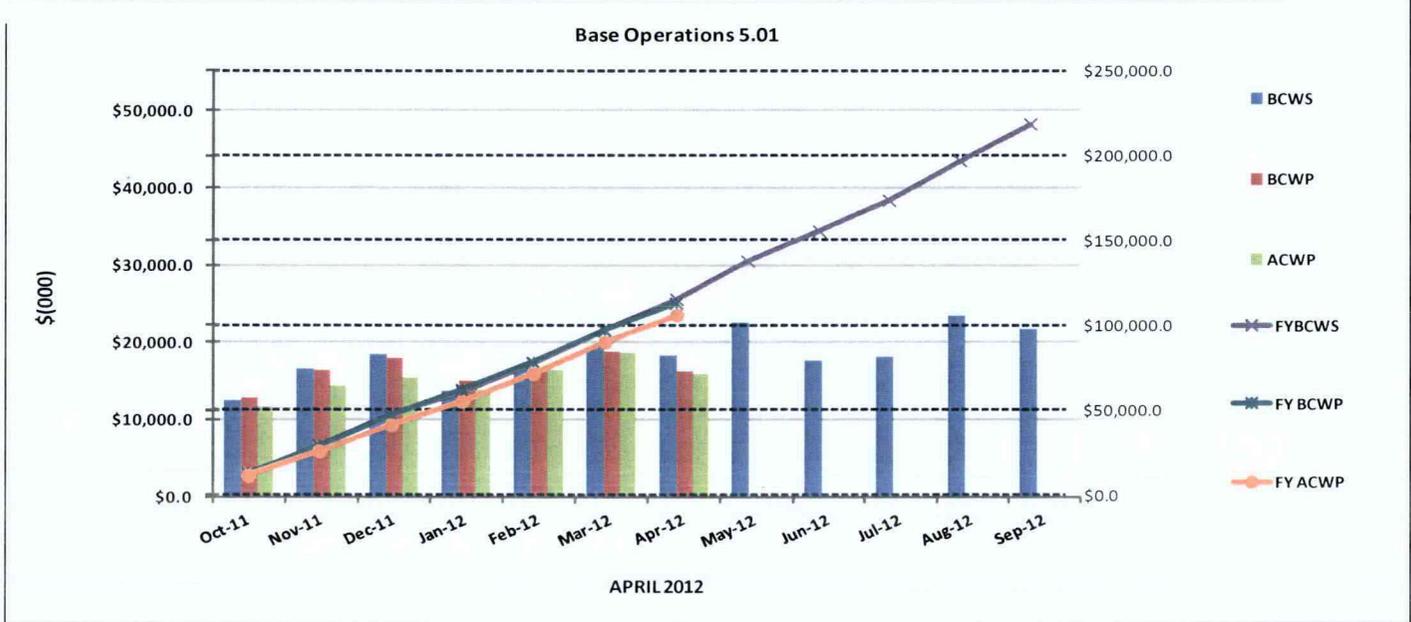
### April EVMS Data

WRPS Project Performance - (\$k)										
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC
CM	31,512.7	31,843.8	29,637.5	331.1	2,206.3	1.01	1.07			
FYTD	188,538.9	184,489.9	183,372.7	(4,049.0)	1,117.2	0.98	1.01	370,217.9	369,115.8	1,102.1
CTD	1,413,706.4	1,403,539.7	1,346,503.0	(10,166.7)	57,036.7	0.99	1.04	2,147,968.6	2,094,083.3	53,885.3

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.



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



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	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	\$16,405.1	0.97	0.99	\$77,798.5	\$78,210.8	\$71,545.8	1.01	1.09
Mar-12	\$19,272.8	\$18,703.5	\$18,623.5	0.97	1.00	\$97,071.3	\$96,914.3	\$90,169.3	1.00	1.07
Apr-12	\$18,206.1	\$16,155.1	\$15,909.1	0.89	2.00	\$115,277.4	\$113,069.4	\$106,078.4	0.98	1.07
May-12	\$22,579.2	\$0.0	\$0.0	0.00	0.00	\$137,856.6			0.00	0.00
Jun-12	\$17,625.9	\$0.0	\$0.0	0.00	0.00	\$155,482.5			0.00	0.00
Jul-12	\$18,100.3	\$0.0	\$0.0	0.00	0.00	\$173,582.8			0.00	0.00
Aug-12	\$23,312.8	\$0.0	\$0.0	0.00	0.00	\$196,895.6			0.00	0.00
Sep-12	\$21,739.2	\$0.0	\$0.0	0.00	0.00	\$218,634.8			0.00	0.00
CTD	\$938,461.4	\$934,588.6	\$903,974.7	1.00	1.03					

**Base Operations**

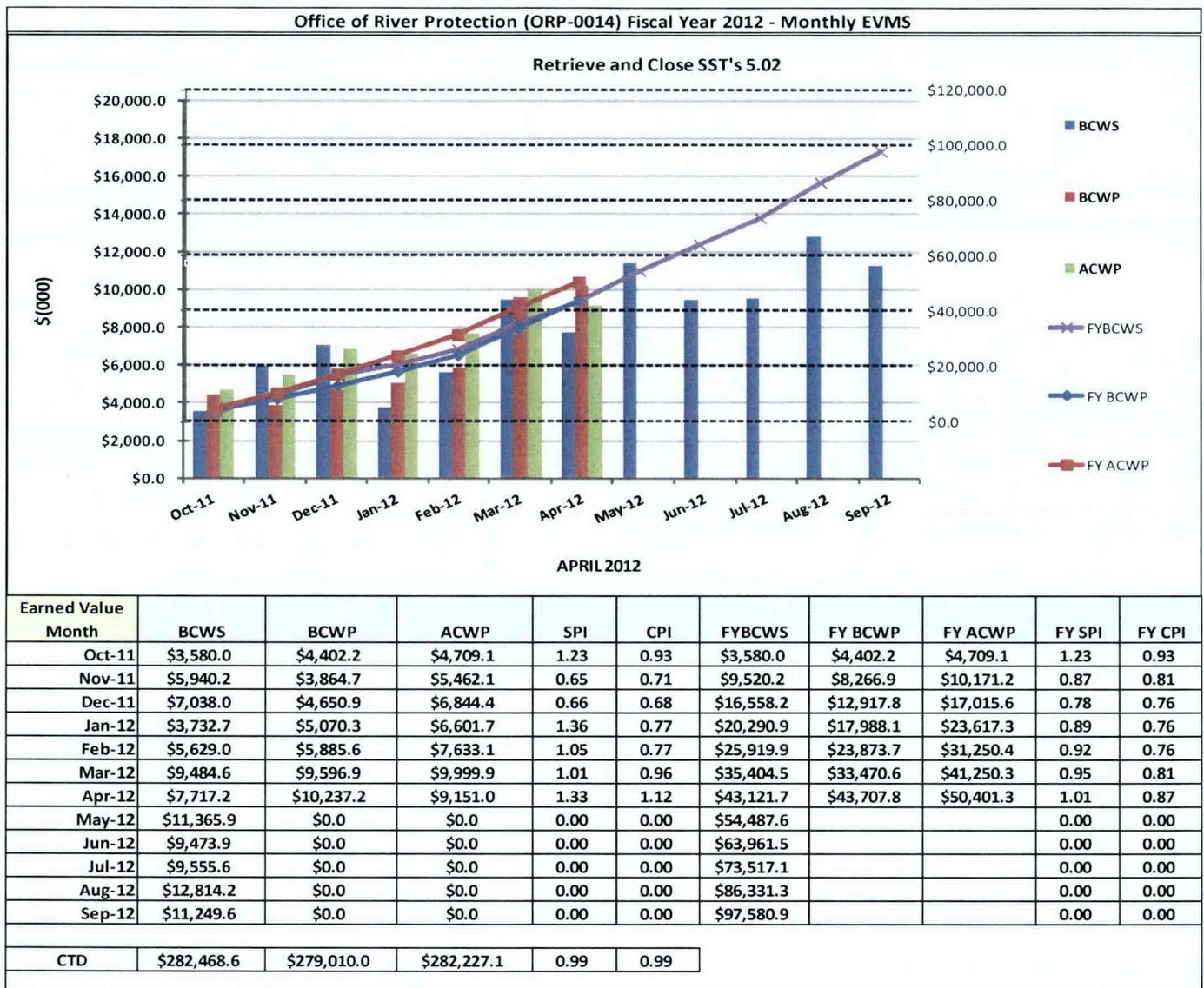
Schedule Variance:

The unfavorable schedule variance is primarily due to:

- Corrective and preventive maintenance work was performed and earned ahead of schedule. Budget for these previously performed activities is reflected in the current month creating a negative variance. This work is on schedule.
- Delay and suspension of fabrication and installation activities for AW-105 corrosion probe which was originally planned to start in February 2012. Suspension is driven by development of a new corrosion probe design that will not complete until September. A baseline change request has been submitted to reflect this new approach was been submitted to defer the fabrication and installation activities to FY 2013.
- Delay to the field and shipping activities for the AY-101 coupon array scheduled to start in March 2012. Management decisions on work priorities and the use of critical resources deferred this work to the May through July 2012 timeframe

Cost Variance:

The variance is negligible



**Single-Shell Tanks**

Schedule Variance:

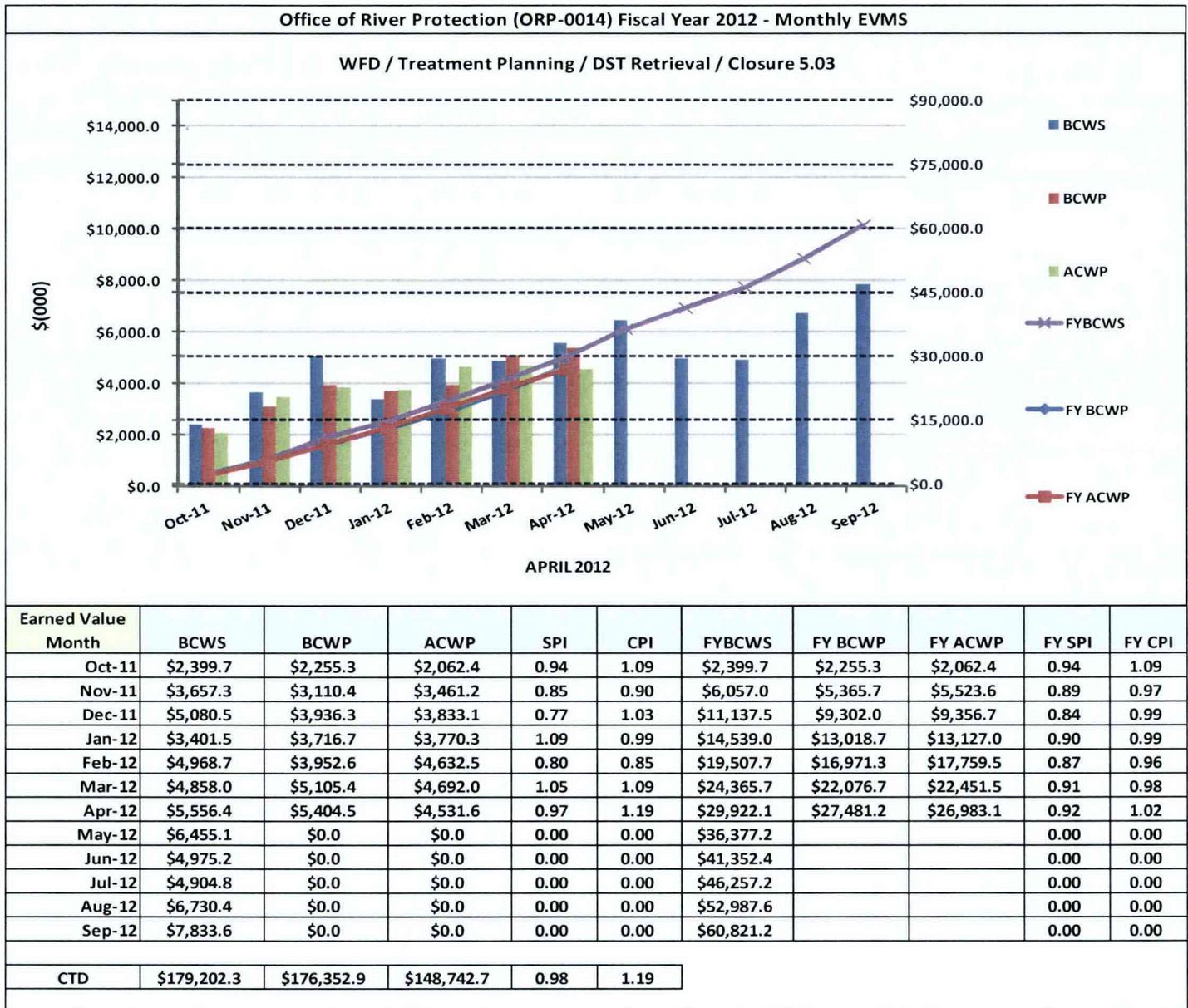
The favorable schedule variance is primarily due to:

- Schedule recovery on C-112 retrieval operations. Bulk retrieval to the limits of technology was completed in May (original Date December 2011), and included use of the new Extended Reach Sluicing System.
- Initiated the Phase 3 acceptance testing of the MARS-V educator system one month early. Component fabrication and installation was completed much sooner than first expected which allowed the testing to start early.
- Accelerated C-105 retrieval system installation resulting from work process improvements realized in the pit removal mockup. The mockup was constructed by a separate construction contractor at an offsite location. This allowed the dedicated C-105 construction crew to work in parallel with the construction of the mockup on the removal of abandoned C-105 equipment around the central pit and fabrication of ventilation ducting during the construction of the pit mockup. Also, additional soil analysis increased the allowable amount of soil that could be removed at one time and the absence of a saltwell pump in the central riser allowed the equipment to be removed with one excavation instead of having to excavate and backfill each piece of removed equipment.

Cost Variance:

The favorable cost variance is primarily due to:

- C-105 retrieval system installation efficiencies resulted as some planned labor resources, including staff augmentation, engineers, and industrial hygienists were not required during the month. Use of a dedicated, experienced construction crew reduced the amount of and need for internal labor support and field oversight activities. In addition, additional soil analysis was performed resulting in an increase in the allowable volume of soil that may be removed at one time. This resulted in one excavation for equipment removal instead of excavating and backfilling each piece of removed equipment as was originally planned.
- C-101 retrieval system installation activities including the ventilation header test and demister installation were completed in April 2012. Favorable weather conditions allowed these activities to be completed with minimal delays.
- The deployment of on-riser, non-tank-intrusive Raman technology utilizing a combination of PNNL and WRPS labor resources resulted in efficiencies. The technology was selected to provide analytical data to support the C-111 hard heel strategy decision-making process. Fieldwork and preliminary analysis of waste tank contents required less resources and materials than traditional off-riser or other in-tank sampling methods which were originally planned. Additional in-tank confirmatory sampling to validate the Raman results and to provide material for additional analysis and dissolution testing is anticipated in late FY 2012 or early FY 2013 to support final selection of the hard heel retrieval methodology.



**Waste Feed Delivery/Treatment/DST Retrieval Closure**

Schedule Variance:

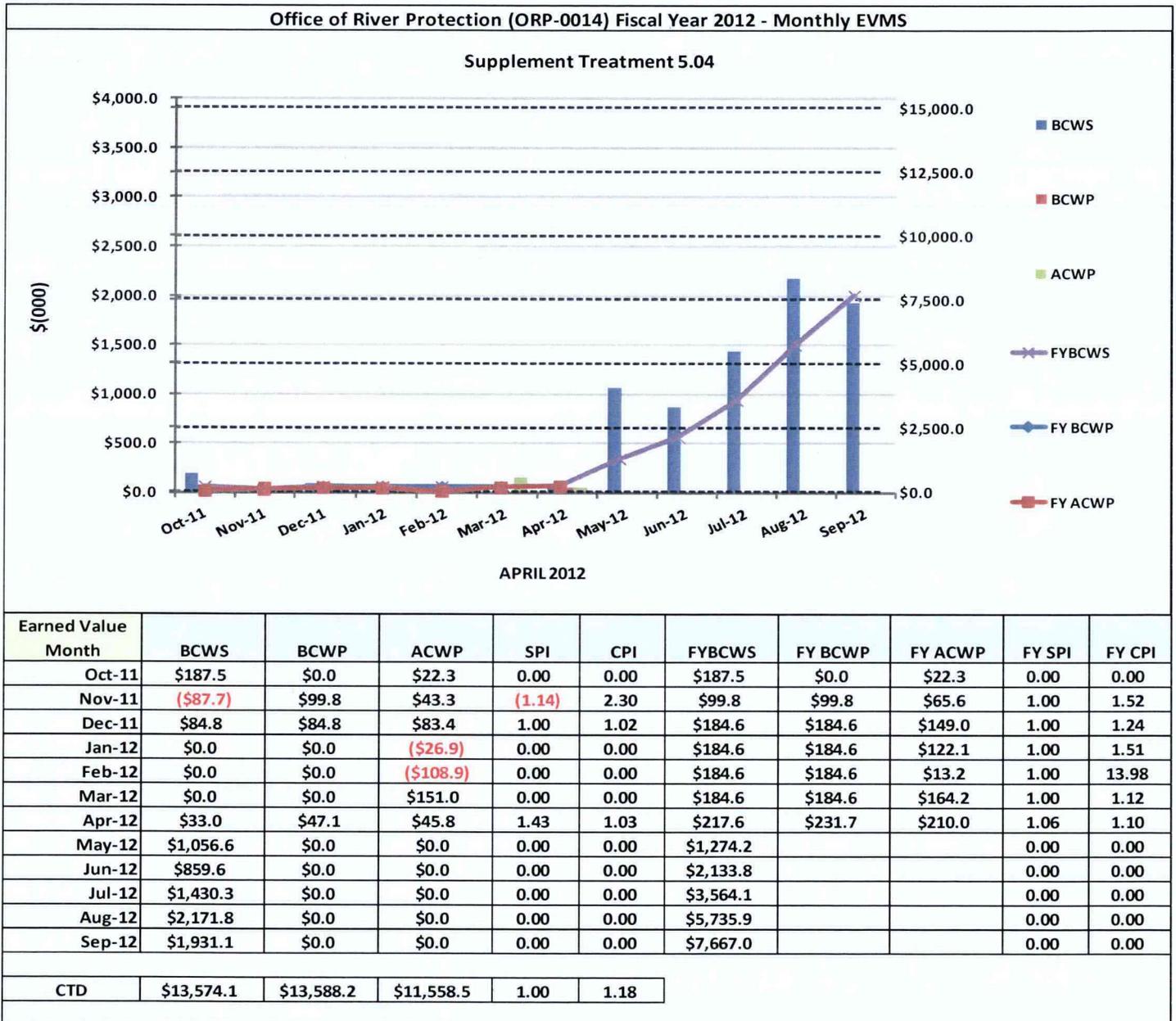
Variances are negligible

Cost Variance:

The favorable schedule variance is primarily due to:

- Implementation of BCR RPP-12-117, “AWA - PEP Contract Modification 157” and Contract Modification 157 provided additional funding for continued work to dismantle, relocate, and store the Pretreatment Engineering Platform. The BCR added baseline budget for the PNNL support to move gas and fiber optic lines in the PNNL PDL-W facility, WRPS project support to oversee activities and monthly storage costs at the CEES facility. The additional baseline budget allowed progress taken in April on completed work that could not be taken before the BCR was implemented. All relocation work is complete, with budget remaining only for storage and maintenance.

- Fieldwork was completed on the nozzle 13 complex corrective maintenance packages (AW/AP Farm) in March; however, performance was not taken because the CHAMPS database did not status it as "Field Work Complete," as it was pending completion of the post-review process. The performance was taken this month and the actual costs were reflected in March.



**Supplemental Treatment**

Variations are negligible

## 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: At Risk. Ecology and ORP have begun preliminary discussions. ORP provided signed TPA Change Package M-90-12-01 to Ecology on 06/13/12. 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: To Be Missed. Ecology and ORP have begun preliminary discussions. ORP provided signed TPA Change Package M-47-12-01 to Ecology on 06/13/12. 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:

The Interim Hanford Storage Conceptual Design activities (e.g. Conceptual Design Report [CDR], Preliminary Process Hazards Analysis, Design Basis Accident Analysis, etc.) continue on schedule. The project issued the 90% CDR for internal review and is in the process of comment incorporation. Completed the Risk Management Plan and Acquisition Plan.

The Secondary Liquid Waste Treatment Project conducted a 90% review of the conceptual design drawings, specifications, calculations, design report narrative, and supporting documents. The project completed and issued the Preliminary Hazard Analysis Report (RPP-RPT-52816).

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

- Complete Conceptual Design for both the Interim Hanford Storage and Secondary Liquid Waste Treatment Projects.
- Complete the Risk Management Plan Secondary Liquid Waste Treatment Project.
- Complete the Safety Design Strategy and Process Hazard Analysis Report for the Interim Hanford Storage Project.
- Complete the Conceptual Safety Design Report for the Interim Hanford Storage project.
- Complete Acquisition Plans for Secondary Liquid Waste Treatment Project
- Submit the Interim Hanford Storage Project and Secondary Liquid Waste Treatment Project CD-1 Package to ORP.

### 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. ORP and Ecology cannot reasonably expect to conduct the M-047-06 and M-090-11 milestone negotiations in 2012 in the absence of this information. 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.

## 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

### **Issues:**

None

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

<b>Number</b>	<b>Title</b>	<b>Due Date</b>	<b>Status</b>
M-062-01X	Submit Semi-Annual TPA Project Compliance Report	01/31/2012	Completed - Report Sent 01/27/2012
M-062-01Y	Submit Semi-Annual TPA Project Compliance Report	07/31/2012	On Schedule

**\*SEE THE JUNE 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

June 2012

Office of River Protection  
Consent Decree 08-5085-FVS  
Monthly Summary Report  
June 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	Janet Diediker / Jeff Lyon
9	WTP - Immobilization Plant Project – D-00A-06, D-00A-17, D-00A-01	Delmar Noyes / Dan McDonald
12	WTP Pretreatment (PT) Facility – D-00A-18, -19, -13, -14, -15, 16	Wahed Abdul / Dan McDonald
15	High-Level Waste (HLW) Facility – D-00A-20, -21, 02, 03	Gary Olsen / Dan McDonald
18	Low-Activity Waste (LAW) Facility – D-00A-07, -08, -09	Jeff Bruggeman / Dan McDonald
21	Balance of Facilities (BOF) – D-00A-12	Jason Young / Dan McDonald
23	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-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		On-going
**D-00C-02U	Submit to Ecology and Oregon Monthly Summary Reports	07/31/12		On-going
** Future Monthly Summary Reports will be added as necessary to maintain a two-months ahead activity.				
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-01E	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	07/31/12		On-going
<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
D-00C-01F	Submit to Ecology & State of Oregon Semi-Annual Report	1/31/2013		On-going

<b>Milestone</b>	<b>Title</b>	<b>Due Date</b>	<b>Completion Date</b>	<b>Status</b>
D-00C-01G	Submit to Ecology & State of Oregon Semi-Annual Report	7/31/2013		On-going
D-006-00-A1	Provide State of Oregon Notice of Meetings	9/25/2013		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. Tanks currently in retrieval status are C-107, C-108, C-109, C-110, C-104, C-111, and C-112. [SDS Note: why is C-104 out of numerical order?]

**D-00B-02, Advise Ecology of the 9 SST's from which Waste Will Be Retrieved by 2022, Due:** 9/30/2014, Status: Complete. ORP and Ecology began meeting in December 2010 to discuss the selection of the next nine tanks from which waste will be retrieved and why ORP believes those nine tanks should be in A/AX Farms. The last meeting was held on August 24, 2011. At this meeting, Ecology provided ORP with the guidance that Ecology believes the requirements of Project B-2 of the Consent Decree have been met.

**D-00B-03, Initiate Startup 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. Continued design and procurement for C-101 & 102 bulk retrieval systems.
2. Completed field activities for installation of ventilation system on C-101 and C-102.
3. Continued removal of legacy equipment in C-101 and C-102.
4. Completed installation of cameras and platforms for sampling activities associated with C-104 Hard Heel Removal.
5. Completed readiness assessment for C-104 Hard Heel Activities.
6. Continued construction activities for removal of equipment at C-105 to support Large Riser installation.
7. Restarted C-107 retrieval utilizing the MARS system.
8. Initiated planning for removal of failed C-109 Slurry Pump to support Hard Heel Removal.
9. Completed C-112 bulk retrieval operations.

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

1. Complete construction/installation of the modified sluicing system in C-101.
2. Complete installation of the C-102 ventilation system and removal of legacy equipment.
3. Initiate start up of Hard Heel Removal system for C-104.
4. Complete installation of the C-105 ventilation system and removal of equipment.

5. Complete installation of the Large Riser in C-105.
6. Complete C-107 bulk retrieval.
7. Initiate hard heel retrieval of C-109.
8. Complete discussions with Ecology on the retrieval certificate of completion.

**Issues:**

None.

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

<b>Tank</b>	<b>TWRWP</b>	<b>Expected Revisions</b>	<b>Retrieval Technology</b>	<b>Second Technology</b>	<b>Third Technology</b>
C-101	RPP-22520	Complete	MRS (per 10/7/10 agreement, to be Modified Sluicing)	Chemical Dissolution	-
C-102	RPP-22393	Complete	Modified Sluicing	Chemical Dissolution	-
C-104	RPP-22393	In Process	Modified Sluicing	Chemical Dissolution	-
C-105	RPP-22520	Early Spring 2012	MARS-V	-	-
C-107	RPP-22393	In Process	MARS-S	MARS-High Pressure	-
C-108	RPP-22393	In Process	Modified Sluicing	Chemical Dissolution	-
C-109	RPP-21895	After evaluation of C-108 hard heel retrieval	Modified Sluicing	MS-ITV, to be revised to chemical dissolution	-
C-110	RPP-33116	After evaluation of C-108 hard heel retrieval	Modified Sluicing	To be revised to chemical dissolution	-
C-111	RPP-37739	After evaluation of C-108 hard heel retrieval	Modified Sluicing	To be revised to include water soaking and chemical dissolution for the hard crust on the surface of the waste	-
C-112	RPP-22393	In Process	Modified Sluicing	Chemical Dissolution	-

**Significant Accomplishments**

None.

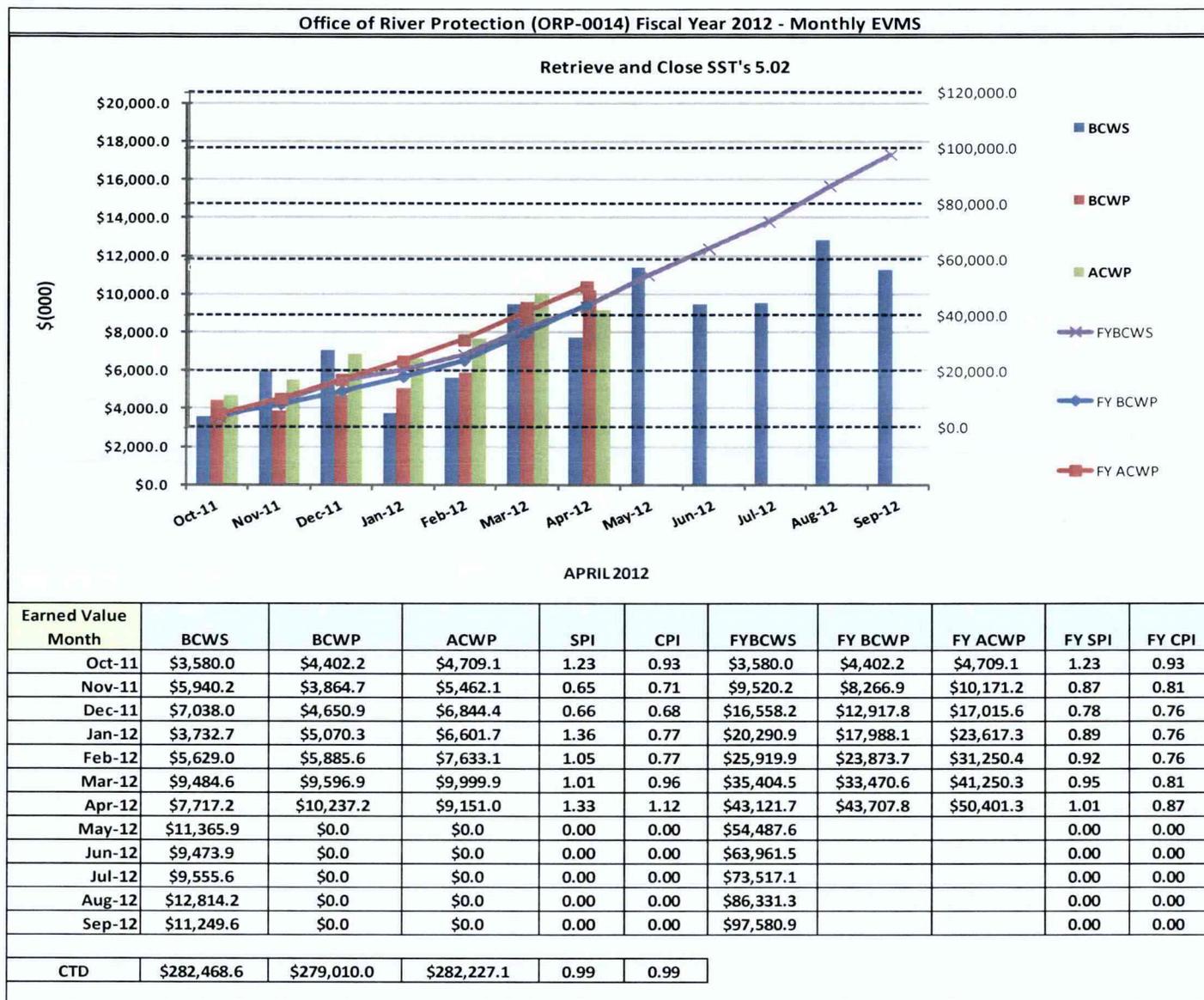
**Significant Planned Activities in the Next 6 Months:**

Work with Ecology on RPP-22520, Rev 7, 241-C-101 and 241-C-105 Tanks Waste Retrieval Work Plan.

**Issues:**

None.

### SST Retrieval Monthly and Fiscal Year EVMS Data



**Single-Shell Tanks**

Schedule Variance:

The favorable schedule variance is primarily due to:

- Schedule recovery on C-112 retrieval operations. Bulk retrieval to the limits of technology was completed in May (original Date December 2011), and included use of the new Extended Reach Sluicing System.
- Initiated the Phase 3 acceptance testing of the MARS-V educator system one month early. Component fabrication and installation was completed much sooner than first expected which allowed the testing to start early.
- Accelerated C-105 retrieval system installation resulting from work process improvements realized in the pit removal mockup. The mockup was constructed by a separate construction contractor at an

offsite location. This allowed the dedicated C-105 construction crew to work in parallel with the construction of the mockup on the removal of abandoned C-105 equipment around the central pit and fabrication of ventilation ducting during the construction of the pit mockup. Also, additional soil analysis increased the allowable amount of soil that could be removed at one time and the absence of a saltwell pump in the central riser allowed the equipment to be removed with one excavation instead of having to excavate and backfill each piece of removed equipment.

Cost Variance:

The favorable cost variance is primarily due to:

- C-105 retrieval system installation efficiencies resulted as some planned labor resources, including staff augmentation, engineers, and industrial hygienists were not required during the month. Use of a dedicated, experienced construction crew reduced the amount of and need for internal labor support and field oversight activities. In addition, additional soil analysis was performed resulting in an increase in the allowable volume of soil that may be removed at one time. This resulted in one excavation for equipment removal instead of excavating and backfilling each piece of removed equipment as was originally planned.
- C-101 retrieval system installation activities including the ventilation header test and demister installation were completed in April 2012. Favorable weather conditions allowed these activities to be completed with minimal delays.
- The deployment of on-riser, non-tank-intrusive Raman technology utilizing a combination of PNNL and WRPS labor resources resulted in efficiencies. The technology was selected to provide analytical data to support the C-111 hard heel strategy decision-making process. Fieldwork and preliminary analysis of waste tank contents required less resources and materials than traditional off-riser or other in-tank sampling methods which were originally planned. Additional in-tank confirmatory sampling to validate the Raman results and to provide material for additional analysis and dissolution testing is anticipated in late FY 2012 or early FY 2013 to support final selection of the hard heel retrieval methodology.

**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 about 2,709 Full-Time Equivalent (FTE) contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel, including 589 craft, 508 non-manual, and about 131 subcontractor personnel FTEs working at the WTP construction site (all facilities). As of April 2012, the project was 64 percent complete overall, design and engineering was 85 percent complete, procurement was 70 percent complete, construction was 61 percent complete, and startup and commissioning was 15 percent complete.

The overall WTP Project schedule variance in April was a negative \$12.3 M; the cost variance was a negative \$38.4M. The cost variance was primarily related to Engineering Design, Construction Crafts, and Engineering Equipment; and the schedule variance was primarily related to Plant Equipment, Engineering Design, and Environmental & Nuclear Safety.

Following is the status through the end of April for current project issues.

**Significant Past Accomplishments:**

- Aerosol testing to determine realistic entrainment coefficient for the Process Vessel Vent Exhaust (PVV) system has been completed for Pretreatment (PT)
- Received the last shield door for HLW in April which completed a nine year procurement effort
- Completed 75% of the concrete in HLW with 58ft elevation walls continuing and a majority of the 37ft slabs complete
- Completed the concrete slab above the Container Transfer Room for the Low-Activity Waste (LAW) facility
- Completed the review of software functional requirements for the LAW Secondary Off-Gas/Vessel Vent Process (LVP)
- Installed Chill Water system expansion joints for Balance of Facilities (BOF)
- Completed Hydrostatic testing for the Chill Water and Plant Service Water systems in the Chiller Compressor Plant BOF
- Completed installation of a high-purity gas helium rack in the exterior Hotcell area in the Analytical Lab (LAB)

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

- Perform Large Scale Integrated Testing (LSIT) in 4ft and 8ft vessels for the Verification and Validation (V&V) of the Computational Fluids Dynamics (CFD) program for PT
- Receive Plant Wash and Drains vessel for HLW (RLD-VSL-8)
- Complete 37' structural steel in HLW
- Complete installation of LAW melter power supplies

- Complete installation of the LAW autosampler (ASX system)
- Complete installation of the Analytical Lab (LAB) autosampler System
- Complete construction of the BOF cooling tower
- Complete construction of BOF switchgear building

**Issues:**

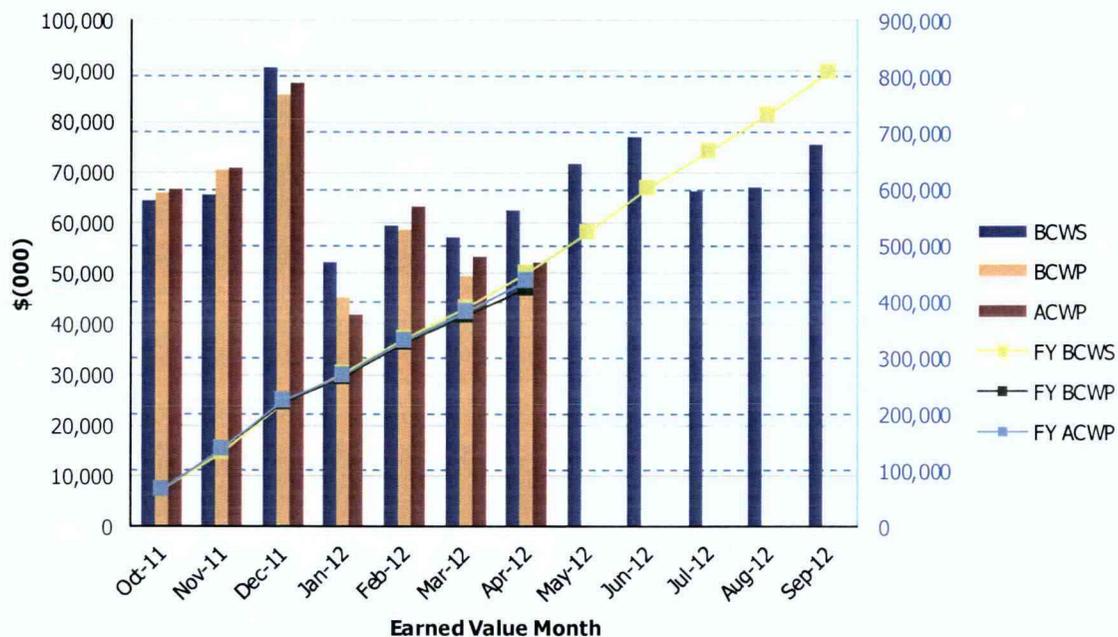
- \*PT and HLW Facilities: Other issues have potential impacts on the PTF and HLW schedule. This includes risks that the project has already realized and the plans for addressing the remaining risks in the PTF and HLW.
- There are no significant technical issues in LAW, LAB or BOF at this time.

Data Set: FY 2012 Earned Value Data

Data as of: April 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	\$71,656			0.00		\$523,594			0.00	
Jun 2012	\$76,835			0.00		\$600,429			0.00	
Jul 2012	\$66,388			0.00		\$666,817			0.00	
Aug 2012	\$66,879			0.00		\$733,696			0.00	
Sep 2012	\$75,468			0.00		\$809,163			0.00	
PTD	\$6,915,686	\$6,903,338	\$6,941,746	1.00	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. Through March 2012, the PT Facility was 53 percent complete overall, with engineering design 78 percent complete, procurement 51 percent complete, construction 42 percent complete, and startup and commissioning was 4 percent complete.

**Significant Past Accomplishments:**

On-going PT construction includes installation of rebar and embedded conduit for the placement of Control Building base mat; structural steel at the 77ft elevation; Heating, Ventilation, and Air Conditioning (HVAC) duct in the hot cell; and roof decking. The first two control building base mat concrete pours have been made.

Aerosol testing to determine realistic entrainment coefficient for the Process Vessel Vent Exhaust (PVV) system has been completed at the Parsons Facility in Pasco. The preliminary results for both the small and medium scale tests are positive. The final report documenting the results will be completed in June 2012.

BNI is actively working to resolve issues regarding vessel material selection and mixing. The steps identified in the erosion/corrosion action plan, issued in April 2012, to address the material selection issue are being implemented. Computational Fluid Dynamics (CFD) Verification and Validation (V&V) simulant tests to evaluate mixing are forecasted to start in June 2012. Planning is ongoing for the path forward for the non-Newtonian vessels that may include additional scaling testing and/or other alternate methods which are still under development.

Prepared and submitted two DNFSB 2010-2 Implementation Plan deliverables. The hydrogen generation rate calculations and development of the route packages in support of resolving the Hydrogen in Piping and Ancillary Vessels (HPAV) issue have started.

**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 placements for the Control Building base mat

- Complete Hazards and Operability Analysis (HAZOP) for the pretreatment Vessel Vent Process (PVP) system
- Issue jumpers phase 2 frame design for hot cell areas 29, 30 and 36
- Complete resolution of the material selection issues with the vessels
- Perform Large Scale Integrated Testing (LSIT) in 4ft and 8ft vessels for the (V&V) of CFD program

**Issues:**

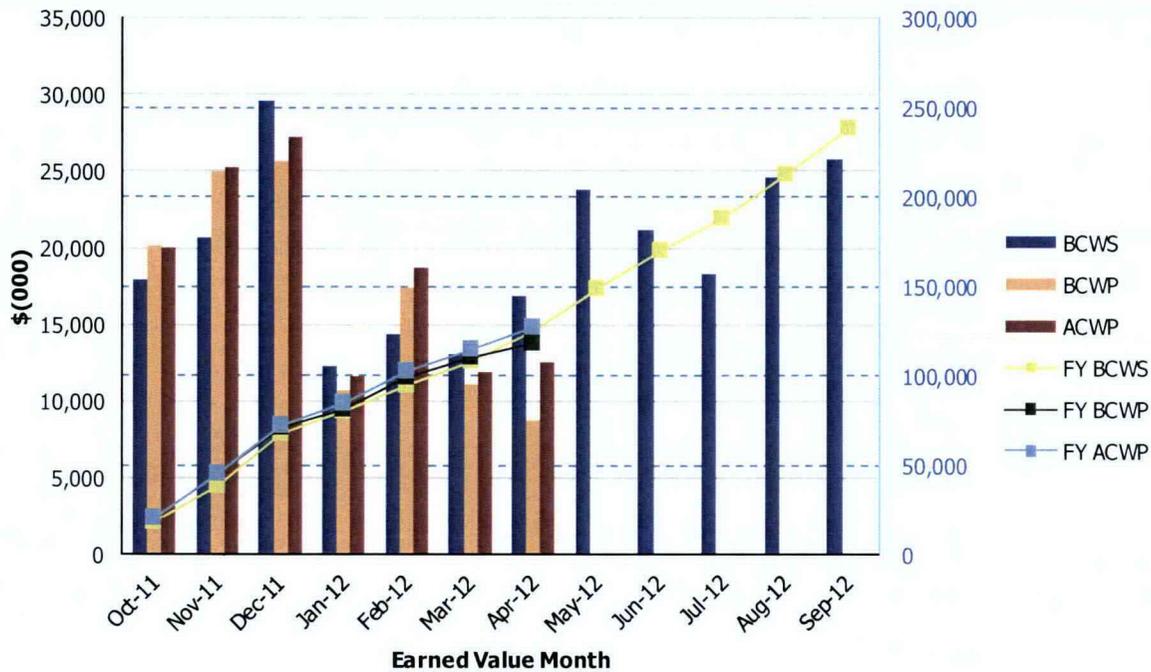
\* Other issues have potential impacts on the PT schedule. This includes risks that the project has already realized and the plans for addressing the remaining risks in the PTF.

Data Set: FY 2012 Earned Value Data

Data as of: April 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	\$23,771			0.00		\$148,542			0.00	
Jun 2012	\$21,257			0.00		\$169,799			0.00	
Jul 2012	\$18,266			0.00		\$188,065			0.00	
Aug 2012	\$24,560			0.00		\$212,625			0.00	
Sep 2012	\$25,838			0.00		\$238,463			0.00	

PTD	\$1,367,945	\$1,368,128	\$1,347,631	1.00	1.02					
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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. The HLW Facility is 59 percent complete overall, with engineering design 86 percent complete, procurement 76 percent complete, construction 41 percent complete, and startup and commissioning is 4 percent complete.

**Significant Past Accomplishments:**

Excellent progress is being made on completion of the Consent Decree Milestone (D-00A-21) "Complete Construction of Structural Steel to 37' in HLW Facility." The current forecasted construction completion date is early October 2012 and the consent decree compliance date is December 31, 2012. All of the materials to complete this milestone have been delivered and are on site. The remaining steel erection consists primarily of 20 beams in the Filter Cave and 4 beams in the Rinse Tunnel. Prior to setting this steel, work at lower elevations is proceeding in order to utilize efficiencies gained by being able to lift materials in through the roof.

The installation of the remote-operated dampers in the filter cave has been completed, and the structural steel which supports the 14ft steel deck is also complete. The steel decking installation has commenced and good progress is being made.

The seismic rails for the decontamination rinse bogie have been set. The Dangerous Waste Permit change notification has been approved so that the rinse bogie can be installed. The rails will be installed following the setting of the decontamination rinse bogie for final alignment.

75% of the concrete has been poured in the facility with 58ft elevation walls continuing and a majority of the 37ft slabs complete.

The melter transport trolley was received by HLW. This trolley will be used to remove and replace the melters.

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 for further inspection prior to being received and accepted by Bechtel. The project completed factory acceptance testing on Thermal Catalytic Oxidizers (TCO) which are being fabricated in Colorado. The TCOs are scheduled for delivery to the site in early July.

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

- Complete 37' structural steel
- Receive Thermal Catalytic Oxidizers
- Receive Plant Wash and Drains Vessel (RLD-VSL-8)
- Receive Acidic Waste Vessel (RLD-VSL-7)
- Receive Primary Off-gas Vessel HEME Vessel
- Stage Rinse Bogie with Rinse Vessel in Canister Rinse Tunnel

**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: April 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	\$10,249			0.00		\$81,143			0.00	
Jun 2012	\$12,635			0.00		\$93,778			0.00	
Jul 2012	\$15,787			0.00		\$109,565			0.00	
Aug 2012	\$9,818			0.00		\$119,384			0.00	
Sep 2012	\$10,133			0.00		\$129,516			0.00	
PTD	\$900,388	\$895,815	\$890,123	0.99	1.01					

**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. The LAW Facility is 68 percent complete overall, with engineering design 85 percent complete, procurement 88 percent complete, construction 70 percent complete, and startup and commissioning is 4 percent complete.

**Significant Past Accomplishments:**

Electrical systems design continues in support of all equipment, controls, and lighting throughout the facility. For example, control logic diagrams were updated for the LAW Primary Off-Gas Processing (LOP), Low Pressure Steam (LPS), and LAW Secondary Off-Gas/Vessel Vent Process (LVP) systems. Also, control logic diagrams were issued for the Auto Sampling (ASX) and Instrument Service Air (ISA) system.

Equipment qualification data sheets for LVP system preheaters were issued. Piping isometric drawings for the LAW Melter Process (LMP), High Pressure Steam (HPS), LOP, LVP, LAW Concentrate Receipt Process (LCP), ISA and Plant Cooling Water (PCW) systems were issued. Piping support drawings were issued for the LAW LVP systems.

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. Engineered hangers were received for the Sodium Hydroxide Reagent (SHR), Radioactive Liquid Waste Disposal (RLD), Ammonia Reagent (AMR), LAW Melter Process (LMP), and LOP systems.

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, installation of the Wet Electrostatic Precipitator (WESP) internals, finishing line dual-rail hoists, and the trolley/bogie cars for the LFH system continued. The concrete slab above the Container Transfer Room was placed.

Construction activities were initiated to install the electrical equipment and plumbing lay out/roughing in the annex. Other on-going construction activities included installation of Low-Voltage Electrical (LVE) non-segmented bus ducts in chases. Piping was installed in the process cells and cable tray/engineered supports in the north finishing line.

Removal of gas barrier lid (internal lid) from melter #1 and #2 was completed in preparation for future installation of refractory materials. Structural/wall coatings on the east end of the melter gallery mezzanine from elevation +22 to +28 were completed.

Resolved comments for software functional requirements for the following systems:

- LAW Secondary Off-Gas/Vessel Vent Process (LVP)
- Low Pressure Steam (LPS)
- Stack Discharge Monitoring (SDJ)

**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
- Begin Melter #1 Refractory Installation

**Issues:**

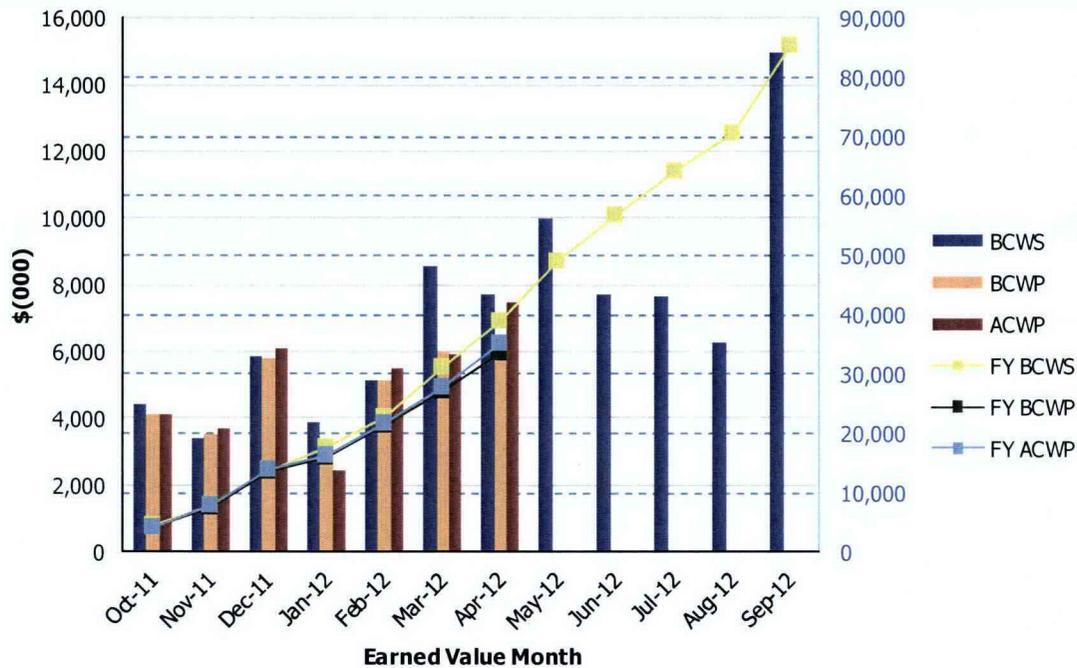
No major issues at this time.

Data Set: FY 2012 Earned Value Data

Data as of: April 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	\$9,977			0.00		\$48,915			0.00	
Jun 2012	\$7,718			0.00		\$56,633			0.00	
Jul 2012	\$7,638			0.00		\$64,271			0.00	
Aug 2012	\$6,263			0.00		\$70,534			0.00	
Sep 2012	\$14,932			0.00		\$85,466			0.00	
PTD	\$675,522	\$670,739	\$717,721	0.99	0.93					

**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. The BOF is 49 percent complete overall, with engineering design 73 percent complete, procurement 48 percent complete, construction 64 percent complete, and startup and commissioning is 9 percent complete.

**Significant Past Accomplishments:**

Oversight efforts are focused on identification of individual facility requirements within BOF to support 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), Chiller Compressor Plant (CCP), and a meeting is currently being established for the Non-radioactive non-dangerous Liquid Drains (NLD) facility.

Recent accomplishments for the BOF team are:

- Continued installing conduit at BOF switchgear building 91
- Continued excavation to support structural steel for pipe rack connection from the LAB to the LAW
- Completed backfilling of the Low-Voltage duct bank, north of the Glass Former Storage Facility
- Began installation of pressure safety valves in the Plant Cooling Water and Plant Service Air systems for the CCP

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

- Complete construction of cooling tower
- Complete construction of BOF switchgear building
- Install structural steel for anhydrous ammonia facility
- Turnover WTP Switchgear (Bldg 87) from construction to the startup organization

**Issues:**

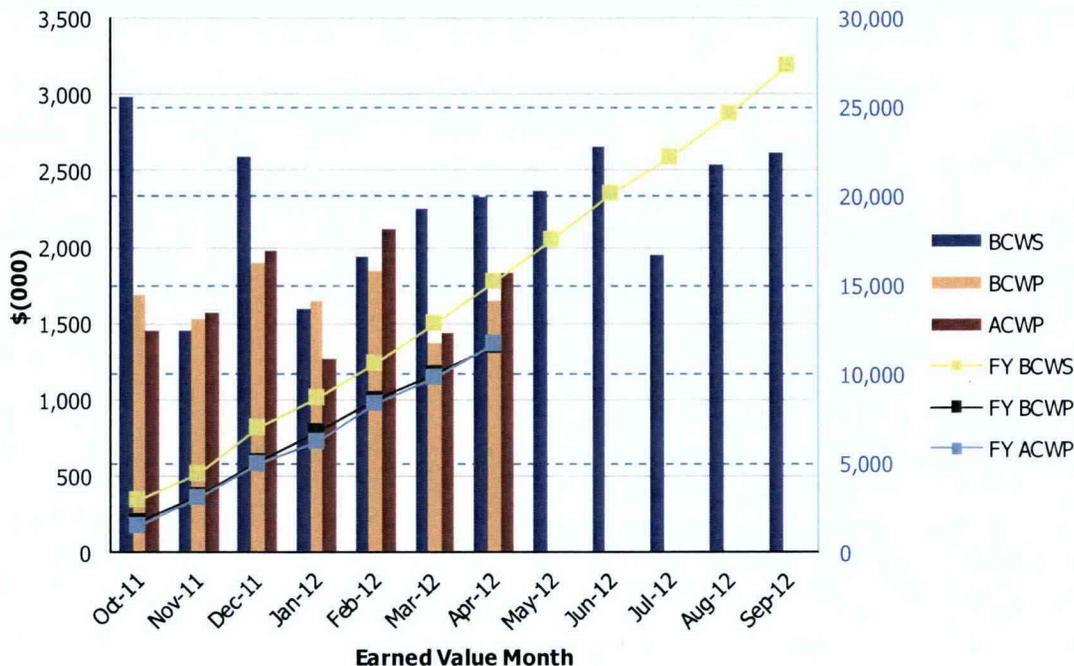
No major issues.

Data Set: FY 2012 Earned Value Data

Data as of: April 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	\$2,374			0.00		\$17,518			0.00	
Jun 2012	\$2,656			0.00		\$20,174			0.00	
Jul 2012	\$1,950			0.00		\$22,124			0.00	
Aug 2012	\$2,533			0.00		\$24,657			0.00	
Sep 2012	\$2,615			0.00		\$27,272			0.00	
PTD	\$268,987	\$263,735	\$260,719	0.98	1.01					

**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. The LAB is 53 percent complete overall, with engineering design 79 percent complete, procurement 76 percent complete, construction 82 percent complete, and startup and commissioning is 10 percent complete.

**Significant Past Accomplishments:**

Efforts of the LAB team continue to focus on the LAB Construction Substantially Complete milestone. Weekly 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.

Recent accomplishments for the LAB team are listed below:

- Completed the installation of Autosampling System (ASX) High-Efficiency Particulate Air (HEPA) filter housing frames
- Began installation of radiological laboratory door
- Issued updated environmental and radiation monitoring system block diagrams
- Continued installing fittings and components in locker room

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

- Complete mechanical installation of Autosampling System
- Set pumps in C5 pit
- Install Hot Cell import/export motors
- Progress Analytical Laboratory Construction to “Substantially Complete”

**Issues:**

No major issues.

Data Set: FY 2012 Earned Value Data

Data as of: April 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	\$3,517			0.00		\$29,504			0.00	
Jun 2012	\$2,292			0.00		\$31,796			0.00	
Jul 2012	\$1,540			0.00		\$33,336			0.00	
Aug 2012	\$1,612			0.00		\$34,947			0.00	
Sep 2012	\$1,572			0.00		\$36,519			0.00	
PTD	\$195,789	\$190,956	\$203,963	0.98	0.94					

Waste Treatment Plant Project - Percent Complete Status

Through April 2012

(Dollars - Millions)	Overall Facility Percent Complete Unallocated Dollars			Design/Engineering Unallocated Dollars			Procurement Unallocated Dollars			Construction Unallocated Dollars			Startup & Commissioning 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 Analytical Lab	984.6	670.7	68%	246.1	209.1	85%	241.1	212.7	88%	347.2	242.3	70%	150.2	6.6	4%
Balance of Facilities	360.0	191.0	53%	57.9	45.1	78%	56.2	42.6	76%	109.2	89.1	82%	136.6	13.4	10%
High-Level Waste	538.2	263.7	49%	88.6	64.7	73%	81.4	39.3	48%	231.5	147.8	64%	136.7	11.9	9%
Pretreatment	1,516.3	895.8	59%	355.9	305.8	86%	458.2	346.2	76%	582.3	239.1	41%	120.0	4.8	4%
Shared Services	2,588.5	1,368.1	53%	774.0	607.9	79%	713.5	369.2	52%	914.6	384.0	42%	186.4	7.0	4%
	4,718.2	3,514.0	74%	1,005.1	918.9	91%	471.7	397.0	84%	1,432.2	1,110.3	78%	455.9	131.8	29%
<b>Total WTP w/o UB</b>	<b>10,705.9</b>	<b>6,903.3</b>	<b>64%</b>	<b>2,527.6</b>	<b>2,151.5</b>	<b>85%</b>	<b>2,022.2</b>	<b>1,407.0</b>	<b>70%</b>	<b>3,617.0</b>	<b>2,212.5</b>	<b>61%</b>	<b>1,185.7</b>	<b>175.6</b>	<b>15%</b>
Undistributed Budget	0.0	n/a	n/a	n/a	n/a	n/a									
<b>Total WTP</b>	<b>10,705.9</b>	<b>6,903.3</b>	<b>64%</b>	<b>2,527.6</b>	<b>2,151.5</b>	<b>85%</b>	<b>2,022.2</b>	<b>1,407.0</b>	<b>70%</b>	<b>3,617.0</b>	<b>2,212.5</b>	<b>61%</b>	<b>1,185.7</b>	<b>175.6</b>	<b>15%</b>

Source: Preliminary Contract Performance Report - Form 1, Data for April 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 1 of BN'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 Services.

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

Milestone Title	Milestone Number	Document	TPA Milestone Due Date (if applicable) <sup>1</sup>	ORP Delivery to Regulators Date <sup>2</sup>	Anticipated Regulatory Review Completion Date <sup>3</sup>	Final Completion Date <sup>4</sup>	DOE-ORP Lead	Contractor Lead	Ecology Lead	Comments/Issues
Submit to Ecology 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	<ul style="list-style-type: none"> <li>Feeds input for M-045-61 and all Closure Plans</li> <li>ORP met with ECY on 09/22/11 to provide status and setup meeting to discuss path forward.</li> </ul>
	Supports M-045-61	WMA C Characterization Summary 2012		09/30/12			C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> <li>Feeds input for M-045-61 and all Closure Plans</li> </ul>
		WMA C PA Initial Model Run Data Package		06/30/13			C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> <li>Feeds input for M-045-61 and all Closure Plans</li> </ul>
		WMA C Characterization Summary 2013		09/30/13			C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> <li>Feeds input for M-045-61 and all Closure Plans</li> </ul>
		WMA C PA Initial Document		09/30/13			C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> <li>Feeds input for M-045-61 and all Closure Plans</li> </ul>
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	
Complete portions of the C-200 Closure Demonstration Plan necessary to complete closure plan development for the SST system.	M-045-80	Description of Radioactive Waste Determination Process	01/31/11	12/28/10	06/30/11		C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> <li>Initial ORP letter, 10-TPD-166 sent to ECY on 12/28/10</li> <li>ECY review extension to 04/18/11 received by ORP on 02/11/11.</li> <li>ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11.</li> <li>2<sup>nd</sup> ECY review extension letter 11-NWP-028 received by ORP on 04/20/11.</li> <li>3<sup>rd</sup> ECY review extension letter 11-NWP-049 received by ORP on 06/02/11.</li> <li>ECY RCR received by ORP on 12/05/11 via letter 11-NWP-146.</li> <li>Extension for comment resolution to 03/15/12 per 01/12 PMM.</li> <li>ORP provided copies of the draft RPP-PLAN-47325 redline/strikeout revision in response to ECY's comments via email on 03/15/12.</li> <li>Per 03/27/12 PMM, ECY has agreed to respond within 30 days (04/27/12).</li> <li>Per the 04/24/12 PMM, ECY has agreed to provide a response to ORP by the end of May.</li> <li>ORP will provide a final production of the WIR document after ECY approves the final updates.</li> </ul>

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

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

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

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

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

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

Milestone Title	Milestone Number	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
Implement and Complete All Remaining Activities in the June 6, 2007 C-200 Closure Demonstration Plan (with any revisions as agreed to by Ecology and DOE).	Supports M-045-81 (S)	Pipeline Feasibility Study, RPP-RPT-45723		12/28/10	06/01/11		C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> <li>• Feeds input to M-045-81.</li> <li>• Initial ORP letter 10-TPD-166 sent to ECY on 12/28/10</li> <li>• ECY review extension to 04/18/11 received by ORP on 02/11/11</li> <li>• ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11</li> <li>• 2<sup>nd</sup> ECY review extension letter 11-NWP-028 received by ORP on 04/20/11.</li> <li>• ECY RCR letter 11-NWP-052 received by ORP on 06/03/11.</li> <li>• ORP sent comment response extension letter 11-TF-067 on 06/16/11 to ECY to extend final response date to 09/25/11.</li> <li>• In October 2011 PMM ECY/ORP agreed to extension to 12/05/11.</li> <li>• Extension for comment resolution to 03/15/12 per 01/12 PMM.</li> <li>• ORP provided a disc containing files for the RCRs, the revised report, and two new cost appendices to ECY via email on 03/15/12.</li> <li>• ECY and ORP agree (per 04/24/12 PMM) to meet in May to discuss comment resolution and extend the final resolution to the end of June.</li> <li>• ORP and ECY aim to reach final resolution and release the revised document in July.</li> </ul>
	M-045-81	Other Closure Demonstration Deliverables	09/30/14				C. Kemp	S. Eberlein	J. Lyon	
M-45-91 Interim Milestones and Target Dates for SSTs Implementing the Expert Panel's Recommendations (created via TPA Change Request CR M-45-10-01, approved on 01/03/2011)	M-045-91F-T01	Provide Report of the Liquid Leak Rate Assessments	01/31/13	01/31/13			J. Johnson	R. Gregory	J. Lyon	<ul style="list-style-type: none"> <li>• Moved to 01/31/13 per M-45-12-01 TPA Chg Pckg.</li> </ul>
	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	
	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	
	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	<ul style="list-style-type: none"> <li>• Moved to 09/31/13 per M-45-12-01 TPA Chg Pckg.</li> </ul>
	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	
	M-045-91F	Provide Summary Conclusions Report on Leak Integrity	12/31/13	12/31/13			J. Johnson	R. Gregory	J. Lyon	
	M-045-91G	Provide Summary Conclusions Report of AOR for SSTs	04/30/14	04/30/14			J. Johnson	R. Gregory	J. Lyon	
	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	

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

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

Milestone Title	Milestone Number	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
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-045-92	Future Barrier Design 3	06/30/13	06/30/13			C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> <li>ORP/ECY TPA Change Package M-45-12-04 modifies these milestones and creates additional milestones, to be reflected next month.</li> </ul>
	M-045-92	Future Barrier Design 4	06/30/14	06/30/14			C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> <li>ORP/ECY TPA Change Package M-45-12-04 modifies these milestones and creates additional milestones, to be reflected next month.</li> </ul>
Submit to Ecology as an Agreement Primary Document a report on all Catch Tanks and associated pipelines that are identified in the SST System Part A, or otherwise used in operations.	M-045-101 (P)	SST System Component Identification and Proposed Closure Strategy (RPP-PLAN-41977)	12/27/10	12/28/10	05/30/11		C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> <li>Initial ORP letter 10-TPD-176 sent to ECY on 12/28/10</li> <li>ECY letter for extension to 04/18/11 received by ORP on 02/11/11</li> <li>ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11</li> <li>2<sup>nd</sup> ECY review extension letter 11-NWP-028 received by ORP on 04/20/11.</li> <li>ECY RCR letter 11-NWP-052 received by ORP on 06/02/11.</li> <li>ORP sent comment response extension letter 11-TF-067 on 06/16/11 to ECY to extend final response date to 08/31/11.</li> <li>In October 2011 PMM ECY/ORP agreed to extension to 12/05/11.</li> <li>Comments to RCR and redline provided to ECY on 11/14/11.</li> <li>Extension for comment resolution to 03/15/12 per 01/12 PMM.</li> <li>ECY and ORP agree (per 04/24/12 PMM) to meet in May 2012 to discuss comment resolution and extend the final resolution to the end of June.</li> <li>ORP and ECY aim to reach final resolution and release the revised document in July.</li> </ul>
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	
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 June 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	
MISCELLANEOUS DOCUMENTS	IDF Performance Assessment (ORP/WRPS has support role to RL/CHPRC)	09/30/12			T. Fletcher	F. Miera	J. Lyon	
	Submit Categorical TOC HIA	TBD				F. Miera	J. Lyon	
TWRWP DOCUMENTS	Quarterly Hose-In-Hose Transfer Lines (HIHTL) Reports	Ongoing Quarterly			J. Johnson		J. Lyon	• Back-reports submitted via email to ECY, formal letter 11-TPD-024 transmitted back reports to ECY on 03/29/11 • Meeting to evaluate extension of 2 HIHTL Reports held 05/25/11.
	Please see ORP Consent Decree 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.

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

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ORP Project Managers Meeting  
June 26, 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 June Project Managers' Monthly Meeting**  
**Tuesday, June 26, 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>
TPA Change Package M-45-12-04, signed by ORP and ECY on 06/21/12 (ECY Approval Letter 12-NWP-098)	M-045-92	1214914
May 2012 ORP CD Monthly Report	All	1214033
May 2012 ORP TPA Monthly Report	All	1214032
Meeting Minutes: C-108 Chemical Retrieval, held 04/20/12	D-00B-01	1214231
Meeting Minutes: C-112 Modified Sluicing, held 04/25/12	D-00B-01	1214232

**2.0 Review of the ORP Project Summary**

**3.0 Agreements, Issues, Actions**

**4.0 Key Documents List**

**Upcoming Meetings**

- The July ORP TPA PMM Meeting is scheduled for Tuesday, July 24, 2012 at ORP in room 1200 from 9:00AM-12:00PM.