

ORP Project Managers Meeting  
October 25, 2011  
2440 Stevens Ctr.  
Richland, Washington  
**Meeting Minutes Transmittal**

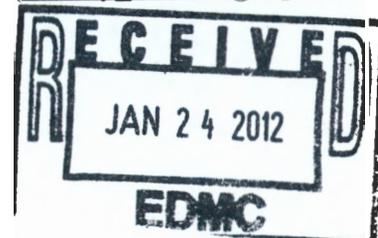
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**Distribution:**

W. Abdul	ORP	H6-60
S. L. Charboneau	ORP	H6-60
F. B. Hidden	ORP	H6-60
L. A. Huffman	ORP	H6-60
J. M. Johnson	ORP	H6-60
C. J. Kemp	ORP	H6-60
D.P. Knight	ORP	H6-60
R. W. Lober	ORP	H6-60
J. J. Lynch	ORP	H6-60
J. F. Norton	ORP	H6-60
D. L. Noyes	ORP	H6-60
G. B. Olsen	ORP	H6-60
R. W. Russell	ORP	H6-60
S. C. Stubblebine	ORP	H6-60
W. J. Taylor	ORP	H6-60
G. D. Trenchard	ORP	H6-60
J. S. Trent	ORP	H6-60
J.D. Young	ORP	H6-60
D. Becker	Ecology	H0-57
R.K. Biyani	Ecology	H0-57
A.S. Carlson	Ecology	H0-57
T.Z. Gao	Ecology	H0-57
J. J. Lyon	Ecology	H0-57
J. D. McDonald	Ecology	H0-57
J. Price	Ecology	H0-57
H.M. Bowers	WRPS	R1-51
J.W. Donnelly	WRPS	R1-51
J. J. Luke	WRPS	R1-51
S. E. Killoy	WRPS	E6-20
R. J. Skwarek	WRPS	R2-50
R. A. Kaldor	MSA	A5-11
R. E. Piippo	MSA	H7-28

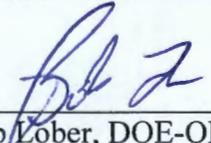
ADMINISTRATIVE RECORD – Heather Childers: H6-08

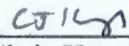
Please send comments on distribution list to Woody Russell ([Woody\\_Russell@orp.doe.gov](mailto:Woody_Russell@orp.doe.gov)).

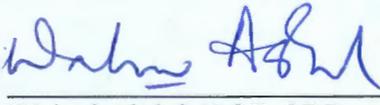


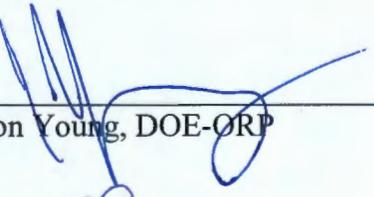
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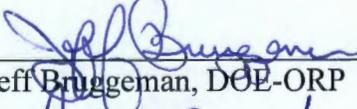
The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above dated Project Managers Meeting.

  
\_\_\_\_\_  
Bob Lober, DOE-ORP  
Date: 1-24-2012

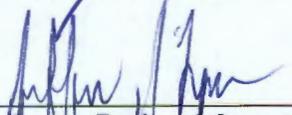
  
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Chris Kemp, DOE-ORP  
Date: 1-24-12

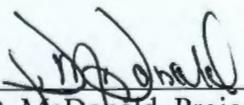
  
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Wahed Abdul, DOE-ORP  
Date: 1/24/12

  
\_\_\_\_\_  
Jason Young, DOE-ORP  
Date: 1/24/12

  
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Jeff Bruggeman, DOE-ORP  
Date: 1/24/12

  
\_\_\_\_\_  
Gary Olsen, DOE-ORP  
Date: 1/24/12

  
\_\_\_\_\_  
J. Lyon, Project Manager,  
Washington State Department of Ecology  
Date: 1/24/12

  
\_\_\_\_\_  
J. D. McDonald, Project Manager,  
Washington State Department of Ecology  
Date: 1-24-12

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Purpose: ORP Project Managers Meeting

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## **1.0 Administrative Items**

- Previous meeting minutes approval: The September 27, 2011 Project Managers Meeting (PMM) minutes were approved.
- Discussion of Meeting Minutes: Ecology initiated a discussion regarding the process for reaching agreements during the PMMs and comments on the draft meeting minutes. Ecology stated that the process was relatively inefficient, and suggested options for improving the efficiency. There was some discussion regarding the length of time for the PMM to allow for discussion. ORP suggested the possibility of holding specific discussions during the bi-weekly meetings. Ecology noted that the bi-weekly meetings do not generate minutes that are entered into the Administrative Record. The parties agreed to document any issues, actions or agreements on a white board during today's PMM. ORP assigned a WRPS staff member to facilitate a discussion if an issue, action or agreement was noted so it could be written on the white board for all the parties' agreement (See attached agreements, issues and actions list).

Ecology brought up as an issue the request for the integrator function for tank farms and waste treatment plant (WTP) to be present and participate in the PMM. Ecology requested the integrator in an effort to provide an understanding of how the tank farms and WTP lifecycles will start working together. Ecology noted that feedback would be expected on what actions ORP intends to take on the issue. An ORP representative was assigned the action to follow up with Ecology at the next PMM on the steps taken to provide the integrator function. ORP suggested that the status could be provided at the bi-weekly meeting. The Ecology Project Managers stated that they are not currently invited to the bi-weekly meetings. ORP noted that it is up to Ecology to designate its attendees at the bi-weekly. It was agreed that the ORP actionee will contact Ecology regarding the status of the action taken; i.e., whether further discussion is needed or if an integrator will be present at future PMMs. If more discussion is needed, ORP will schedule a meeting with Ecology.

There was a brief discussion regarding the schedule for the bi-weekly meetings. An action was taken by ORP to establish the calendar and the attendance for the bi-weekly meetings.

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ORP provided a status on the draft baseline change request (BCR) that the contractor submitted to ORP. The BCR contains a proposal that aligns with the new funding profile of 395 million dollars for the first six months of FY12 and 445 million dollars for the last six months of FY12. The BCR has been reviewed by ORP, and ORP discussed issues with the contractor last week. Approval of the BCR is under way, and a letter approving the BCR is expected to be delivered to the contractor next week. ORP noted that the BCR is considered to be an interim BCR, given that it does not reflect the long-term lifecycle baseline impacts, and that certain work scope has been deferred from FY12 to FY13. ORP stated that once it receives Congressional appropriation for FY12, a more detailed BCR with lifecycle impacts will be provided, and a more thorough review and approval cycle will be done. ORP will follow the TPA process to notify Ecology of the changes that need to be made to reflect the new plan.

Ecology responded that the process ORP should follow is to notify Ecology before the BCR is for approved. ORP explained that it is an internal BCR and not a Congressional reappropriation. Ecology asked if there will be any impacts to milestones. ORP responded that there will be some milestone impacts, which will be provided during today's summary reports. Ecology summarized its understanding of ORP's update on the BCR is that ORP has negotiated milestone changes with the contractor, and then ORP will inform Ecology what the milestone changes are. Ecology stated that the process should be reversed, and that Ecology should be consulted before milestone changes are agreed to with the contractor. ORP responded that the contractor has not been informed of any milestone changes, and that a TPA change request will have to be done. ORP suggested that the parties continue with today's summary reports, which provide the milestone status, and then the parties could determine whether there is an issue regarding milestones.

## **2.0 Review of the ORP Project Summary**

- Action Item List

Twelve new actions were established during today's PMM. (See attached Agreements, Issues and Actions list.)

- Key Documents List

An updated ORP key documents list was provided.

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**Tank Farms**

Tri-Party Agreement and Consent Decree (TPA and CD) Statistics/Status - ORP noted the one milestone that is currently at risk, M-045-91F-T01, which is due January 31, 2012 to provide a report on the liquid leak rate assessments. The remaining milestones are on schedule, pending the final budget appropriation.

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

M-045-60 - ORP reported that sampling is under way with an angle push under C-203. Monthly meetings are held with ORP and Ecology to discuss the work plan. The September 22, 2011 meeting minutes that summarize the status of the remedial field investigation (RFI) work and proposed changes through the investigation process are ready for Ecology approval. An action was established for ORP to set up a meeting with Ecology to review the September 22 meeting minutes and obtain Ecology approval of the minutes.

M-045-56 and M-045-92 - ORP noted that these two milestones are on schedule, conditional on the Congressional final budget for FY12 coming in.

M-045-92B - ORP noted that this milestone was a 2010 primary document deliverable which identified the TY barrier design as well as the monitoring plan, and a change request on the TY barrier monitoring plan, scope and schedule needs to be submitted. Submittal of the change request was identified as an ORP action. Ecology asked if ORP has discussed the change request with Ecology, and ORP responded that it has not.

Significant Planned Actions in the Next Six Months - Ecology asked about the construction of the SX interim surface barrier, noting that it was not included in the planned actions for the next six months. ORP responded that the new milestone date for the SX interim surface barrier is October 2012.

Response to Ecology Questions - ORP provided a review of questions that were received from Ecology and ORP's responses. The first question asked was how and when will the results of the S Farm interim barrier analysis be presented to Ecology. ORP stated that quick turnaround analyses have been received on technetium and nitrate, and a briefing on the results and recommendations regarding the S Farm barrier can be provided to Ecology. ORP took an action to set up a briefing with Ecology on the S Farm barrier work done to date and the recommendations

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for the barrier. ORP added that in the response provided to Ecology, it was noted that the sample analysis and data validation will be completed in spring 2012. Ecology asked if the spring 2012 date is a delay from the original plan of September 2011. ORP responded that there have been delays with the lab. The second question Ecology asked was when the analytical results will be available to Ecology for the recent C-101 and C-104 pushes. Ecology also asked for a brief summary of holding time and chain of custody issues with the lab changes associated with these and other samples. ORP's response was that completion of sample analysis validation and verification of these samples is expected in May 2012, and a briefing will be provided on the detailed information when the data comes forward. ORP took an action to set up a meeting with Ecology on the sample analysis validation and verification work associated with C-101 and C-104 post May 2012. Ecology asked if this action was originally anticipated in September 2011. ORP stated that it did not know what the schedule was and could not respond. Ecology asked if there will be an issue associated with approving work plan changes. ORP responded that the work plans won't be affected. ORP added that the only issue would be with the C-101 tank waste retrieval work plan (TWRWP), since the results of the C-101 pushes should be included in the TWRWP to confirm that modified sluicing is still an acceptable approach. Ecology noted that the point of the question is that there will not be validated data for the TWRWP and that quick turn results will have to be used, and the quick turns are referenced in the latest C farm leak assessment. WRPS added as a clarification that a white paper was developed that included the quick turn analysis and the logging data, and work is under way to incorporate the information in the white paper into the C-101 TWRWP. ORP stated that further discussion could be had during the TWRWP summary today.

The third question Ecology asked was about receipt of the summary report from the December 2010 quarterly groundwater report on suspected organic detections in groundwater samples. Ecology understands the suspected contamination has occurred in subsequent groundwater sampling at Waste Management Area C (WMA-C) and in other areas, and asked when resolution of the issue could be expected. ORP stated that Ecology was provided the groundwater organic assessment evaluation around WMA-C that's under way by DOE-RL and CHPRC. Through that evaluation, a number of organics (between 8-12) have been looked at, and for the most part it has been determined that these contaminants have been as a result of the old blank contamination in the lab analysis artifacts, with the exception of chloroform. ORP stated that the information was provided to Ecology yesterday, and once Ecology has a chance to review, ORP is open to scheduling a meeting to answer additional questions. Ecology stated that the information

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provided closes the suspect contamination, and other information will need to be reviewed. An action was set for Ecology to schedule a meeting with ORP if Ecology has questions on the groundwater assessment evaluation.

The fourth question Ecology asked was about ORP's plans for the WMA-C RFI. ORP stated that samples are still being taken at C-203. ORP has maintained the format and template for the RFI/CMS that was received prior to agreements with Ecology, and ORP is now collecting and compiling the technical aspects of what the RFI is. As ORP pursues that effort through FY12, meetings will be held with Ecology to document the development of the RFI. ORP has an action to continue meetings on the RFI development on the technical aspect.

Ecology referred to the ORP key documents list, page 2, and asked about the ongoing bi-weekly meetings for the liquid leak rate assessments and the liner failures for SSTs. ORP stated that those bi-weekly meetings are no longer being held due to funding constraints and the re-evaluation of work scope for FY12.

TPA-SST Retrieval and Closure Program:

M-045-100 - ORP noted that this milestone and the associated Notice of Violation (NOV) have been closed.

M-045-101 - An agreement was reached between ORP and Ecology for an extension to December 5, 2011 to facilitate verification of the outstanding actions on the closure language and SST Part A revisions.

M-045-80 - Ecology agreed to take an action to provide a date to submit comments on the WIR process description document. The WIR document is one of four deliverables under this milestone. ORP requested an extension to December 5, 2011 to provide comment resolution on the other three deliverables, which are the tank removal study, the C-301 catch tank feasibility study, and the RCRA/CERCLA integration paper. Ecology agreed to the extension.

M-045-81 - ORP stated that it is still working through the review, comment, record (RCRs) with Ecology on the pipeline feasibility study. A tentative meeting is scheduled November 1, 2011 for ORP and Ecology to discuss the RCRs. ORP requested an extension to December 5, 2011 for submittal and response to Ecology's RCRs. Ecology agreed to the extension.

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Tank in Appendix H. Status - ORP reported there was no change in status.

C-Farm Critical Path - Schedules for C-101 and C-102 have been aligned to support the reallocation of resources for future projects in both tanks. There were slips in schedule to hard heel removal (HHR) activities for C-104, which reflected the changes to the FY12 BCR. An additional activity was added in FY12 to perform caustic dissolution in C-104. Minor slips in schedule for HHR in C-108 were due to resources assigned to higher priority projects in C-107 and C-112 at the end of FY11. The schedule is expected to be recovered in C-108 by the end of December 2011. Adjustments were made in other HHR activities as part of FY12 planning. C-109 will now be retrieved before C-110. Both C-109 and C-110 retrieve to tank A-106. For C-112 operations, there was an error on the September 2011 month end status. The error will be corrected in next month's critical path schedule. Changes to DST receiver tanks for C-102 and C-105 have a major effect on the scope of DST receiver tank 4. AZ-101 will no longer be used as a C Farm receiver tank, based on FY12 planning. Scope under DST-4 is to improve upgrades to AN-101 supernatant pumps and jumpers, which supports C Farm tanks being retrieved to AN-101. Current expiration of the useful life for AN-101 hose-in-hose transfer lines (HIHTL) is August 2012, and a possible replacement of the HIHTL may be done if efforts to extend the useful life of the hoses is not successful. C-105 retrieval operations are scheduled to occur in 2014 and it is planned to go in AN-106.

Ecology asked about the ability to recover schedules on any of the tanks, or if the schedules will stay the same or get worse. ORP responded that there are several activities that will be moved out to the right due to FY12 replanning, and that most of the schedules will be recoverable based on the interim BCR and after the appropriations come through.

Ecology inquired about the status of the questions on the baseline review that were submitted to ORP. ORP took an action to provide a response to Ecology's questions that were submitted in a handout. Ecology noted that the questions are related to ORP's original baseline budget, and were submitted in an effort to understand the baseline before ORP started making changes.

Tanks with Individual Milestones - ORP reported there was no change in status.

Double-Shell Tank Closure - No change in status.

242-A Evaporator Status - No change in status.

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CD-SST Retrieval and Closure:

D-00B-01A - ORP stated that as retrieval is completed, a retrieval completion certification will be submitted to Ecology. ORP noted that retrieval completion certification for C-107 and C-108 is anticipated in the near future. Ecology noted that WRPS and ORP have indicated that discussions are held before tank retrieval is completed, and asked if ORP is still planning to hold those discussions. ORP responded that a discussion will be held with Ecology before tank retrieval is completed, and that the discussions regularly occur in meetings. Ecology requested clarification on how ORP plans to make decisions on tanks for retrieval technologies in advance of getting near the end of completion in a tank. ORP responded that discussions on limits of technology have not been established, other than modified sluicing, because the other technologies are very new. As further retrieval in tanks is achieved, there will be an opportunity to discuss how the new technologies are performing.

WRPS noted that after the revisions to TWRWP 22393 were made, Ecology, ORP and WRPS agreed that discussions would be held on the practicability evaluation language in the Consent Decree. Ecology stated that there are two different meetings needed to address retrieval completion. The first meeting would be towards the end of retrieval, and as the limit of technology is assessed, it would be determined what data would be needed to satisfy the parties that retrieval is complete. The second meeting would address the retrieval certification under the Consent Decree, and the parties would need to reach agreement on what the certification will look like before it is generated. An issue was identified that agreement is needed on the content and format of the tank completion certification under the Consent Decree. Ecology stated that there could be an issue for tank C-108, speculating that after the caustic is added, the chemistry and dissolution would not be what is anticipated; however, the data would indicate that the tank is close to being retrieved, so how would the decision be made that retrieval is complete. Ecology expressed the concern that ORP will not achieve the required 360,000 gallons in all the tanks, but that ORP will persist in trying to reach 360 at the risk of schedule, placing Ecology in the position of being compelled to accept information or a lack of information in making a decision or agreement. Ecology also expressed concern with the budget uncertainty and that ORP will not have the funding to address in advance any tank retrieval problems. ORP responded that it does not make decisions based on dollars, and it has a baseline schedule that it follows. ORP added that with the current budget constraints, some of the work scope was moved from FY12 to FY13

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without a full understanding of what the lifecycle impacts are, and a lot of changes can't be made until the Congressional appropriations are received.

Ecology requested constructive participation with ORP in an effort to understand how ORP plans to determine practicability of retrieving tanks. ORP agreed that it would be constructive to hold meetings to discuss limits of technology and the interpretation of practicability. ORP also suggested that Ecology attend the bi-weekly operations meetings where discussion is held about the progress being made in tanks and how technology is performing. An action was taken for ORP and Ecology to schedule meetings to discuss the interpretation of practicability under the Consent Decree and how those opportunities can potentially be used in operations.

Retrieval Engineering Questions - ORP handed out written questions from Ecology and the responses from WRPS.

CD-Tank Waste Retrieval Work Plan (TWRWP) Status - ORP stated that a revision to the TWRWP for C-101 is being drafted since the extended reach sluicers are being used instead of the mobile retrieval system (MRS). ORP will share the revised TWRWP with Ecology following an internal review. ORP noted that with respect to the vadose zone pushes around C-101, the quick turnaround results will be included in the TWRWP, per agreement with Ecology.

M-045-91, SST Integrity Assurance:

ORP noted that the first four milestones listed (M-045-91G-T05, M-045-91C, M-045-91G-T01, M-045-91B) have all been completed and are awaiting concurrence from Ecology. A change package is being prepared for M-045-91F-T01, which is currently at risk. ORP is working with the contractor to determine a target date. Due to limited time remaining for today's PMM, Ecology requested a meeting to discuss several questions regarding the SST integrity assessment. ORP took an action to schedule a meeting to discuss Ecology's questions. Ecology stated that if there are any items of note that result from the meeting, it will be documented and attached to the ORP PMM minutes.

In Tank Characterization and Summary:

Due to time constraints today, an overview was not given by ORP.

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Tank Operations Contract (TOC) Overview - ORP provided a brief overview of the cost and schedule variances. Ecology asked about the probability of the pretreatment alternative studies moving forward. ORP responded that supplemental pretreatment would probably not proceed under a continuing resolution.

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

ORP stated that the first three milestones (M-090-11, M-090-00, M-047-06) are on schedule; however, negotiations are not yet under way. Ecology noted that ORP and Ecology are engaged in informal technical discussions relative to M-047-06, and Ecology expressed appreciation for receipt of the initial schedules from ORP. ORP reported that relative to secondary waste, value engineering sessions are ongoing to select the solidification technology.

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

ORP reported that WRPS has submitted all the documents necessary for a critical decision 1 (CD-1) approval associated with M-062-40ZZ. ORP is reviewing the documents, and once the comments are documented and reconciled, the CD-1 work will be shelved until a sufficient amount of appropriation is received to move forward with CD-1. ORP stated that the Interim Hanford Storage facility conceptual design has been initiated, and a process hazard analysis workshop will be held next week, which Ecology has been invited to attend. ORP has met with Ecology, the contractor and the project managers to go over the regulatory permitting schedules and the critical decision milestone schedules for both interim Hanford storage and secondary waste. ORP acknowledged that Ecology has limited time constraints regarding attending the value engineering sessions or the process hazard analysis, so a briefing is planned at the end of the two sessions to provide Ecology with the results of the discussions and any decisions that were made.

System Plan - ORP reported that System Plan Rev. 6 was approved by ORP and Ecology and released by WRPS on October 5, 2011. The remaining milestones are on schedule.

**Waste Treatment Plant**

ORP reported on the discussion that was held during the tank farm portion of today's PMM, noting Ecology's request for a member from the integration team to be a participant in the PMM. Ecology acknowledged that the integration function is still evolving, but it is becoming more of a need and a function that should be represented during the PMMs. ORP stated that related to

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integration are the one system proposals that were received yesterday from the two contractors. Ecology asked if ORP would share any information possible during the PMMs so that Ecology could keep up with the progress and activities associated with integration and the one system proposal. ORP agreed, noting that the TPA requirements may set out a different meeting for the information to be provided. ORP reported that the deliverable for M-062-49 is on schedule for submittal to Ecology by October 31, 2011, and ORP is preparing the certification statements that will accompany the document. Ecology asked if the certification document that is to be submitted will certify that the WTP design can accommodate what it's supposed to do towards the mission. ORP responded that it is not a mission certification, noting that it is a very important distinction to understand. The wording in the milestone acknowledges supplemental treatment does exist, and the certification covers what is in the WTP project.

ORP reported that the current funding profiles are an unknown at this time. The funding profile that was submitted for FY12 is 840 million dollars. The Congressional markup is at 740 million, which has not yet been approved. ORP is not expecting the 740 number to change, and efforts are being made to assess what the impacts will be. ORP is working with Headquarters and Congress in an attempt to gain some understanding of what the long-term funding profile will be. ORP noted that it can't plan on a year-to-year basis, but needs to have an understanding of the whole profile to be able to achieve its goal as effectively as possible. Ecology asked if the profile includes supplemental technology. ORP responded that it does not, and that the profile is aligned with the WTP project that's currently identified; i.e., the line item, Congressionally-approved construction project. That scope includes the HLW glass facility, Pretreatment facility, the LAW facility as it is currently configured, and all the supporting facilities under the capital line item project. Anything in tank farms is not included in the line item project scope, including supplemental treatment. ORP stated that in terms of the baseline with the anticipated profile, it is consistent with all the commitments and milestones, and the project is moving forward positively with performance.

Cost and Schedule Performance - The overall negative cost and schedule variances for August 2011 are expected to be recovered in the November-December time frame with the delivery of equipment.

Significant Planned Actions in the Next Six Months - ORP noted that the siding of the High Level Waste (HLW) facility was completed, which will allow electrical and other components to be placed inside the facility during the winter.

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**Pretreatment (PT) Facility**

ORP reported on the technical issue with the process vessel vent (PVV). Due to the entrainment coefficient, one of the key actions is to conduct more testing. Parson's has been awarded the contract for the testing, and they are building the equipment system and procuring simulants. There was an issue with the simulant, and another option for simulant is being procured. The testing was scheduled for December 2011, but because of the simulant issue the testing is expected to be completed in January 2012. However, an attempt is being made to move the testing back to December 2011.

Informational testing is under way by Bechtel to validate that the non-Newtonian mixing is bounding. The validation testing uses a computational fluid dynamics (CFD) model. ORP stated that the information will be used to help formulate what is tested during the NQA-1 test protocols. Ecology asked what Bechtel's plans are if the initial testing proves that non-Newtonian is not bounding. ORP responded that Bechtel has prepared a draft strategy document that identifies a simultaneous path forward for testing with an option to scale up with additional four-foot, eight-foot and 14-foot models. The document is in external review and is expected to be issued sometime in November 2011. Ecology asked if the CFD model disproves a point, are there other factors in the CFD model that can be perturbed in order to rerun it to try to accommodate the non-Newtonian characteristics. ORP responded that the experts have advised that it would be almost impossible due to the amount of validation work that would be needed. ORP noted that whether or not the testing fails, the data will be used for the scaling option. Ecology asked if this activity would be in jeopardy due to the constrained funding profile. ORP responded that the activity is top priority. ORP reiterated that the information will not be used to validate the design, but provide information to define what changes might be needed, and that the design meets all the safety requirements.

Issues - ORP reported that the issue with a revised design for the HLP-22 vessel has been resolved, and the vendor has been given the approval to move forward with the design change. Ecology asked about the impact to critical path. ORP stated that the vendor schedule is about six weeks behind the critical path. There are two fabrication vendors, and a meeting is planned for sometime in November 2011 to discuss the final schedule with the vendors.

Ecology inquired about the status of the CXP-1, noting that the status was asked about last month. Ecology noted that the crane that was to be used is broken down, and asked about the impact on

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schedule. Ecology also asked about the retrofitting of the CXP-4 and other associated components, and where that all fits into the design queue. ORP responded that the CXP-1 vessel removal is delayed due to breakdown of the crane, which is expected to take about six to eight weeks for repair. There will also be some delay with other crane activities, such as pipe installation in the same space, but none of the activities are critical path. ORP stated that the detailed design of the CXP-4 is expected to be transmitted to Ecology in the March to May 2012 time frame. Ecology requested that the status of the CXP be included in the significant planned actions.

### **High Level Waste**

ORP reported that the milestone for completion of structural steel to 37 feet is on schedule. Ecology requested discussions well in advance of completion of the milestone in an effort to be prepared for validation of the 37-foot level. ORP stated that the build-out of the filter cave remains the critical path, which involves installation of the filter housings and the dampers for three different filter systems. Nine of the 11 filter housings have been set.

Issues - ORP reported on an emerging issue associated with the filter housings. During installation last week, it was discovered that the assembly of some of the components on the effluent side of the filter housings had been reversed. A stop work has been issued with the vendor, and an assessment is being done to determine a solution. The units came from fabricator assembled incorrectly, and the error was not caught during receipt and inspection of the units, which is another issue that is being investigated. A noncompliance report (NCR) has been written, and the vendor will be required to submit a corrective action plan. ORP stated that the critical path in HLW can be maintained, and the work to correct the housings can be done at a later time. ORP provided an update on the issue with the siding material for the HLW annex. The vendor replaced the defective material, and most of the siding has been completed.

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

ORP reported that the critical path in LAW is the thermal catalytic oxidizer (TCO). Delivery of the TCO is expected next summer. Ecology asked if the scheduling profile for the TCO will remain critical path or if any margin will be recovered. ORP indicated that the TCO will remain critical path.

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The current emphasis in LAW is a reanalysis of some of the components for the offgas system, which is a result of some increases in temperature. The reanalysis is to ensure all of the correct specifications are given to the vendors. Oregon Department of Energy (ODOE) asked about the design changes to the offgas system due to the increased in temperatures. ORP explained the vendor for the Thermal Catalytic Oxidizer (TCO) was provided with an outlet temperature requirement and a footprint requirement. To meet the outlet temperature requirement the heat exchanger size increased the TCO footprint greater than the allowable footprint requirement. Since the increase in temperature was within the Caustic Scrubber design requirements, the outlet temperature on the TCO was increased.

Another focus on the offgas system is the carbon bed adsorber, which is on track for delivery in the November-December 2011 time frame. ORP noted that installation of the inert fill drop lines was completed last month, an activity that was slated for completion in the next six months.

Cost and Schedule Performance - ORP reported that the cost performance is slightly less than a 1.0, and is primarily due to electrical and pipe installation. The negative schedule variance is primarily due to plant equipment work that was completed early. Procurement of the transmitters for temperature pressure, etc. has been delayed due to final verification of specifications.

### **Analytical Laboratory (LAB)**

ORP reported that one of the efforts in LAB is focused on the completion of the mechanical installation of the autosampler system (ASX). Another effort is working through evaluation of methods that will be required in LAB. ORP stated that good progress is being made in the feed prequalification area. ORP reported that the substantial complete milestone is due by December 31, 2012, and early completion is anticipated in July 2012. Ecology inquired about a generally accepted definition of substantially complete. ORP responded that a presentation has been drafted, and suggested scheduling a meeting with Ecology to provide a briefing and go over the Consent Decree and existing milestone definitions. Ecology suggested starting discussions on substantially complete early in an effort to move forward without holding anything up, and also to set a precedent for how to proceed with these types of activities in the future. ORP added as a caution that the TPA milestone is already defined, so discussions will center around clarifying the definition and not redefining the milestone or negotiating different criteria. Ecology concurred with ORP's statement.

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Ecology inquired about the discrepancy between the completion level for LAB of 66 percent and the LAB overall at 47 percent. ORP explained that a large portion of percent complete in LAB is in methods development and instrumentation, and the methods development comes at a later stage in the schedule than the physical construction.

Ecology brought up an issue of the contractor requesting an expedited review of the drawings for the drip pans that go under the sinks. At the time of the request Ecology learned that the drip pans had not yet been fabricated. Now that the drip pans have been fabricated, Ecology has been requested by the contractor permitting group to do an expedited approval on the design and modifications. ORP responded that it was aware of the issue and will be discussing it with the contractor to ensure there is a consistent priority list.

Cost and Schedule Performance - ORP noted that the poor schedule performance for the period was primarily driven by some equipment that did not arrive on time, which will be recovered in the following month.

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

ORP stated that turnover of the switch gear building is the current focus. The emergency turbine generator (ETG) contract was awarded to Rolls Royce, and an integration plan is being prepared to ensure the proper codes and requirements are implemented. Ecology asked about the startup time for the ETG to accept power. ORP stated that the startup is being designed for uninterrupted power supply (UPS), which will consist of batteries. ORP stated that the delay in startup is in the range of 45 seconds to a minute and a half, which is not an issue for the ventilation systems in HLW and Pretreatment. ODOE inquired about the concern that the Defense Nuclear Facilities Safety Board (DNFSB) had with the ammonia system. ORP stated that a response letter from Bechtel was just received that addressed the issue. A hazards analysis has been conducted and the information will be used in the design.

### **3.0 Agreements**

There were five agreements reached today (See attached agreements, issues and actions list).

### **4.0 Recent Items Entered into the Administrative Record**

See list of recent items on the agenda.

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**5.0 Upcoming Meetings**

The next ORP dry run was scheduled for November 15, 2011, and the TPA Quarterly is scheduled for November 17, 2011.

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

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

## **ORP/Ecology TPA and CD Agreements, Issues, and Actions per October 25, 2011 ORP PMM Meeting**

### **Agreements:**

1. November Dry-Run for the Quarterly meeting will be held on Tuesday, November 15<sup>th</sup>, 2011.
2. Resolution of M-045-101 is extended to December 5, 2011.
3. M-045-80 (Items 2,3, and 4) – Ecology and ORP agree to extend submittal and response to Ecology comments to December 5, 2011.
4. M-045-81 – Ecology and ORP agree to extend submittal and response to Ecology to December 5, 2011 contingent on disposition of RCRs.
5. Quick turnaround results from vadoze zone data will be discussed in C-101 TWRWP.

### **Issues:**

1. Ecology requests a TOC/WTP Integrator be a participant in both TOC and WTP sections of the ORP PMM Meetings.
2. Agreement on content/format of CD Tank Completion Certification is needed.

### **Actions:**

1. Discuss Issue #1 [Ecology requests a TOC/WTP Integrator be a participant in both TOC and WTP sections of the ORP PMM Meetings] with ORP Assistant Manager to resolve issue by November PMM. Actionee: Glyn Trenchard
2. Establish calendar event (day/time) for bi-weekly and Parties determine attendance.
3. Schedule meeting between ORP and Ecology on September 22, 2011 RFI Meeting Minutes. Actionee: Bob Lober.
4. ORP will submit change notice for M-045-92B specific to monitoring plan, scope, and schedule for TY Barrier. Actionee: Bob Lober.
5. Briefing on S-Farm work to date. Actionee: Bob Lober.
6. Brief Ecology on Sample Analysis/Validate C-101 and C-104 post May 2012. Actionee: Bob Lober.
7. ORP/RL set up meetings on GW assessment evaluation based on Ecology questions on provided information. Actionee: Ecology
8. Continue meetings on RFI/CMS between ORP and Ecology. Actionee: Bob Lober.
9. Ecology provide a date to submit comments on WIR Process Description for M-045-80 Item 1. Actionee: Jeff Lyon.
10. ORP will provide response to Lyon's (Ecology) questions on Baseline clarification [Handout given by Jeff Lyon]. Actionee: Joni Norton
11. Ecology and ORP will meet to discuss meaning/interpretation of CD definition of practicability.
12. Meet with Jeff Lyon (Ecology) on questions regarding SST Integrity and will put forth meeting minutes to next PMM. Actionee: J. Johnson.

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**Attachment B: List of Attendees**

**(3 pages including this coversheet)**





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**Attachment C: Presentation Materials**

**ORP TPA Project Summary and Handouts  
(41 pages)**

**And**

**ORP Consent Decree Project Summary and Handouts  
(24 pages)**

**And**

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

**And**

**Ecology Request for Schedule Information  
(2 pages)**

**(73 pages including this coversheet)**

**FINAL**

Office of River Protection  
Tri-Party Agreement  
Project Summary Report  
October 25, 2011



Office of River Protection  
Tri-Party Agreement Milestone Review Meeting  
October 25, 2011

Page	Topic	Leads	Time
TPA 1 / CD 1	Statistics / Status / Minutes Discussion	Woody Russell / Dan McDonald / Jeff Lyon	9:00
TPA 6	Single-Shell Tank Corrective Action; M-45, -50, -60	Bob Lober / Jeff Lyon	9:20
TPA 8 / CD 5	Single-Shell Retrieval and Closure Program TPA Milestones Status; M-45-00 series, <ul style="list-style-type: none"> <li>- Tank in Appendix H Status</li> <li>- C-Farm Critical Path</li> <li>- Tanks with Individual Milestones</li> <li>- Double-Shell Tank Closure</li> <li>- 242-A Evaporator Status</li> </ul> SST Retrieval and Closure CD Milestones and TWRWP Status; D-00B series	Chris Kemp / Dan Knight / Jeff Lyon	9:35
TPA 18	SST Integrity Assurance; M-45-91	Jeremy Johnson / Michelle Hendrickson	9:55
TPA 21	In Tank Characterization and Summary	Jeremy Johnson / Michael Barnes	10:00
TPA 22	Tank Operations Contract (TOC) Overview	Dan Knight / Jeff Lyon	10:05
TPA 27	Acquisition of New Facilities; M-90-00; M-47-00	Janet Diediker / Jeff Lyon / Dan McDonald	10:20
TPA 28	Supplemental Treatment and Part B Permit Applications; M-62-00, -20, -30, -45	Steve Pfaff / Jeff Lyon / Dan McDonald	10:25
TPA 29	System Plan; M-62-40	Dabrisha Smith / Jeff Lyon / Dan McDonald	10:30
<b>BREAK</b>			
TPA 30 / CD 8	WTP Overall TPA and CD Summary and Milestones Status; M-62-01; M-62-49; D-00A-01, -06, -17	Delmar Noyes / Dan McDonald	10:45
TPA 32 / CD 10	WTP Pretreatment (PT) Facility; D-00A-13, -14, -15, -16, -19	Wahed Abdul / Dan McDonald	10:55
TPA 34 / CD 13	WTP High-Level Waste (HLW) Facility; D-00A-02, -03, -04, -21	Gary Olsen / Dan McDonald	11:05
TPA 35 / CD 15	WTP Low-Activity Waste (LAW) Facility; D-00A-07, -08, -09	Jeff Bruggeman / Dan McDonald	11:15
TPA 37 / CD 18	WTP Analytical Laboratory (LAB); D-00A-05	Jason Young / Dan McDonald	11:20
TPA 38 / CD 20	WTP Balance of Facilities (BOF); D-00A-12		11:25

Fiscal Year 2011 Tri-Party Agreement Milestone Status													
Milestone No.	Description	Due Date	Date Completed	On Schedule	At Risk	Recoverable	To Be Missed	Missed	In Litigation	Deleted	In Program Planning	In Abeyance	Dispute Resolution
M-062-40A	Select a Minimum of 3 scenarios	10/31/10	10/27/10										
D-001-00-R46	Quarterly Report	10/31/10	10/28/10										
M-045-100	Submit to Ecology an Agreement Primary Document a Catch Tank "Assumed Leak" Response Plan.	12/28/10	12/28/10										X - CLOSED, Resolved 10/05/11
M-045-101	Submit to Ecology as an Agreement Primary Document a Report on all Catch Tanks and Pipelines Used for SST Operations	12/28/10	12/28/10										
M-045-91A	Submit an Agreement Change Package with Interim Milestones to Implement the Panel's Recommendations M-045-91	12/27/10	09/27/10										
M-045-92D	Complete Negotiations to Schedule Remaining 4 Additional Barriers	12/31/10	12/07/10										
M-045-92E	Meet Yearly on Performance of Barrier	12/31/10	12/07/10										

### Fiscal Year 2011 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Date Completed	On Schedule	At Risk	Recoverable	To Be Missed	Missed	In Litigation	Deleted	In Program Planning	In Abeyance	Dispute Resolution
M-062-20	Complete All 28 Issues in Independent WTP Flowsheet & Throughput Assessment	12/31/10	08/20/10										
M-045-80	Complete those Portions of C-200 Closure Demonstration Plan Necessary to Complete Closure Plan Development for SST System	01/31/11	12/28/10										
M-062-01V	Submit Semi-Annual Project Compliance Report	01/31/11	01/27/11										
D-001-00-R47	Quarterly Report	01/31/11	01/28/11										
M-045-91G-T05	Provide Report of the Visual Inspections of 12 SSTs in Table 3.3	03/31/11	03/11/11										
M-045-92K	Barrier 1 Design/Monitoring Approval from Ecology	06/30/11	05/19/11										
M-036-01A	Submit to EPA & Ecology Lifecycle, Scope, Schedule & Cost for Hanford Site (RL is DOE Lead)	07/25/11	07/21/11										

### Fiscal Year 2011 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Date Completed	On Schedule	At Risk	Recoverable	To Be Missed	Missed	In Litigation	Deleted	In Program Planning	In Abeyance	Dispute Resolution
M-045-56G	Ecology and DOE Agree to Meet, at a Minimum, Yearly (by July)	07/31/11	07/13/11										
M-062-01W	Submit Semi-Annual Project Compliance Report	07/31/11	07/28/11										
M-045-91C	Implement DQO Process, Test Plan to Evaluate the Chemistries	09/30/11	09/15/11										
M-045-91G-T01	Provide AOR Final Doc. For SSTs on 530,000 Gallon Tanks	09/30/11	09/15/11										
M-045-13	Interim Completion of Tank S-112 SST Waste Retrieval and Closure	TBD [In accordance with M-045-84 or -85]		X									
M-045-13E	Complete Negotiations for Interim Milestones for Closure of S-112	TBD [In accordance with M-045-84 or -85]		X									

### Fiscal Year 2012 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Date Completed	On Schedule	At Risk	Recoverable	To Be Missed	Missed	In Litigation	Deleted	In Program Planning	In Abeyance	Dispute Resolution
M-062-30	Complete Negotiations Establishing Milestones for Near-Term Actions	10/25/11								X 07/18/11			
M-062-40B	Submit System Plan	10/31/11		X									
M-062-49	Submit Report to Ecology Demonstrating WTP Design Meets Vit. Criteria	10/31/11		X									
M-045-91B	Submit a Sampling and Analysis Plan to Ecology	12/30/11	09/20/11										
M-045-92F	Meet Yearly on Performance of Barrier	12/31/11		X									
M-045-91G-T02	Provide AOR Final Doc. For SSTs on 750,000 Gallon Tanks	01/31/12		X									
M-045-91F-T01	Provide Report of the Liquid Leak Rate Assessments	01/31/12			X								
M-062-01X	Submit Semi-Annual Project Compliance Report	01/31/12		X									
M-045-91D	Submit Analytical Test Plan for Cores Removed from C-107 Plug	03/31/12	06/27/11										

Fiscal Year 2012 Tri-Party Agreement Milestone Status													
Milestone No.	Description	Due Date	Date Completed	On Schedule	At Risk	Recoverable	To Be Missed	Missed	In Litigation	Deleted	In Program Planning	In Abeyance	Dispute Resolution
M-045-91G-T06	Provide Report of the Visual Inspection of 12 SSTs per criteria in M-045-91G-T05	03/31/12		X									
M-045-92M	Barrier 2 Design/Monitoring Approval from Ecology	06/30/12	05/19/11										
M-047-06	Complete Negotiation of No More Than 2 Interim Milestones	06/30/12		X									
M-062-01Y	Submit Semi-Annual Project Compliance Report	07/31/12		X									
M-045-91G-T03	Provide AOR Final Doc for SSTs on 1,000,000 Gallon Tanks	09/30/12		X									

## 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.**

Master Work Plan is in the Primary document revision process. ORP transmitted its response to Ecology on August 18, 2010. Ecology extended review of comment responses to October 29, 2010. Ecology requested at the October PMM a two week extension from October 27, 2010. ORP acknowledged that Ecology's comment response will be considered in abeyance until DOE-ORP, Ecology, and EPA complete their negotiation of the AIP applicable to Appendix I. Ecology assumed that negotiations would be done December 24, 2010. They have been extended.

**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.**

ORP and Ecology continue to meet monthly to identify and manage changes in the work plan. The last meeting was held September 22, 2011. Meeting minutes for the July 29 and August 25, 2011 sessions have been signed by the parties and have been entered into the TPA administrative record.

**M-045-56, Complete Implementation of Agreed to Interim Measures, Due: TBD, Status: On schedule.** Annual DOE/Ecology meeting to discuss interim measures for 2011 was held on July 13, 2011, completing milestone M-045-56G. Meeting minutes have been signed by the parties and entered into the TPA administrative record.

**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-045-92K, Barrier 1 Design/Monitoring Approval from Ecology, Due: 6/30/2011, Status: Complete.**

**M-045-92M, Barrier 2 Design/Monitoring Approval from Ecology, Due: 6/30/2012, Status: Complete.** If negotiated, complete installation of 4 additional interim barriers at a rate of one per year, with the first being completed by October 31, 2012. Prior to beginning construction and at least sixteen months before construction is to be complete, DOE will submit to Ecology a final

design and monitoring plan for each interim barrier. The barrier design and monitoring plans will be consistent with those developed for WMA T and TY unless DOE and Ecology agree otherwise. Ecology will authorize construction upon approval of these submittals. Ecology letter, 11-NWP-044, dated May 19, 2011, approved the actions associated with these milestones. ORP sent letter 11-TF-064 to ECY on June 15, 2011 to formally close these milestones.

**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: On Schedule for meeting to status barrier monitoring, performance observations and any changes to monitoring as budget or results to date suggest.

**Significant Past Accomplishments:**

1. T-Farm interim barrier monitoring continued through September.
2. TY Interim Barrier monitoring continued through September.
3. Continued direct push characterization in C Farm at various planned locations and completed the angled direct push campaign beneath tank C-101
4. Completed direct push campaign in S farm in support of a potential future interim barrier.
5. Continued the joint process with Ecology and other regulatory agencies and stakeholders to define the inputs, approaches, assumptions and methods that will be used for development of a performance assessment for Waste Management Area C.
6. Continued remediation technology assessments in support of a Corrective Measures Study for WMA C.
7. Electrical resistivity data was collected from surface and deep electrodes in eastern BY farm and analysis was completed.
8. Continued direct push campaign in S-farm in support of a future interim barrier.

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

1. Complete direct push campaign near C-200 tanks in C Farm.
2. Complete reporting of 3-D SGE data analysis in eastern BY farm.
3. Perform additional updates to WMA C RFI/CMS workplan based on requested changes from Ecology.

**Issues:**

- FY2012 funding constraints may impact FY2012 scheduled work.

## SST Retrieval and Closure Program

**M-045-100, Submit as a primary document a Catch Tank "assumed leak response plan,** Due: 12/27/10, Status: Complete. Transmitted from ORP to ECY via letter 10-TPD-176 on 12/28/10. Ecology issued a Notice of Violation on May 24, 2011, via letter 11-NWP-038, indicating that the deliverable did not fulfill the milestone. The ORP initiated dispute resolution on June 1, 2011 via letter 11-TF-065. ORP also requested an extension of the comment resolution period via letter 11-TF-067. Ecology letter 11-NWP-099 to DOE, dated August 25, 2011, highlighted an ECY/DOE Agreement In Principle for a path forward and extended the due date to October 31, 2011. A revision to the M-45-100 milestone deliverable document was developed collaboratively between ECY and ORP, and was formally transmitted from ORP to ECY on August 29, 2011, via letter 11-TF-090. ECY provided notification that the plan had been approved and the milestone completed on September 26, 2011 via 11-NWP-110. ORP submitted a Motion and Order of Dismissal to the Pollution Control Hearings Board dismissing its appeal on September 29, 2011. The PCHB issued a Motion and Order of Dismissal on October 5, 2011. The milestone and NOV are officially closed out and removed from the issues.

**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. 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 an extension, to August 31, 2011, of the comment resolution period, via letter 11-TF-067. ORP requested an additional extension to the comment resolution period in the September TPA managers meeting to October 31, 2011. Resolutions have been identified for all comments, awaiting concurrence from Ecology on closure language and verification that SST part A revisions are consistent with document. ORP requests extension until December 5<sup>th</sup> to facilitate verification of those outstanding actions.

**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 September 25, 2011, of the comment resolution period for those three documents via letter 11-TF-067. Ecology requested additional time to review *Radioactive Waste Determination Process Plan for Waste Management Area C Tank Waste Residual* via 11-NWP-049. ORP requests Ecology identify submittal date of WIR comments. ORP is processing submittal of final Tank Removal Study with approved Ecology RCRs, Response to Ecology comments on Catch Tank C-301 Feasibility Study and RCRA/CERCLA Integration deliverables prior to December 5<sup>th</sup>.

**M-045-81, Implement & complete all remaining activities in C-200 Closure Demonstration Plan and provide a report of the results of those activities,** Due: 9/30/2014, Status: On Schedule. The first 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 September 25, 2011, of the comment resolution period for those three documents via letter 11-

TF-067. ORP and Ecology have established a meeting on November 1, 2011 to discuss Ecology comments. ORP has requested an extension until December 5 for disposition of comments.

**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:**

- The WMA-C PA is suspended based on limited funding becomes available to resume and finish the task supporting both RCRA/CERCLA/DOE 435.1 closure plans.

## **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:**

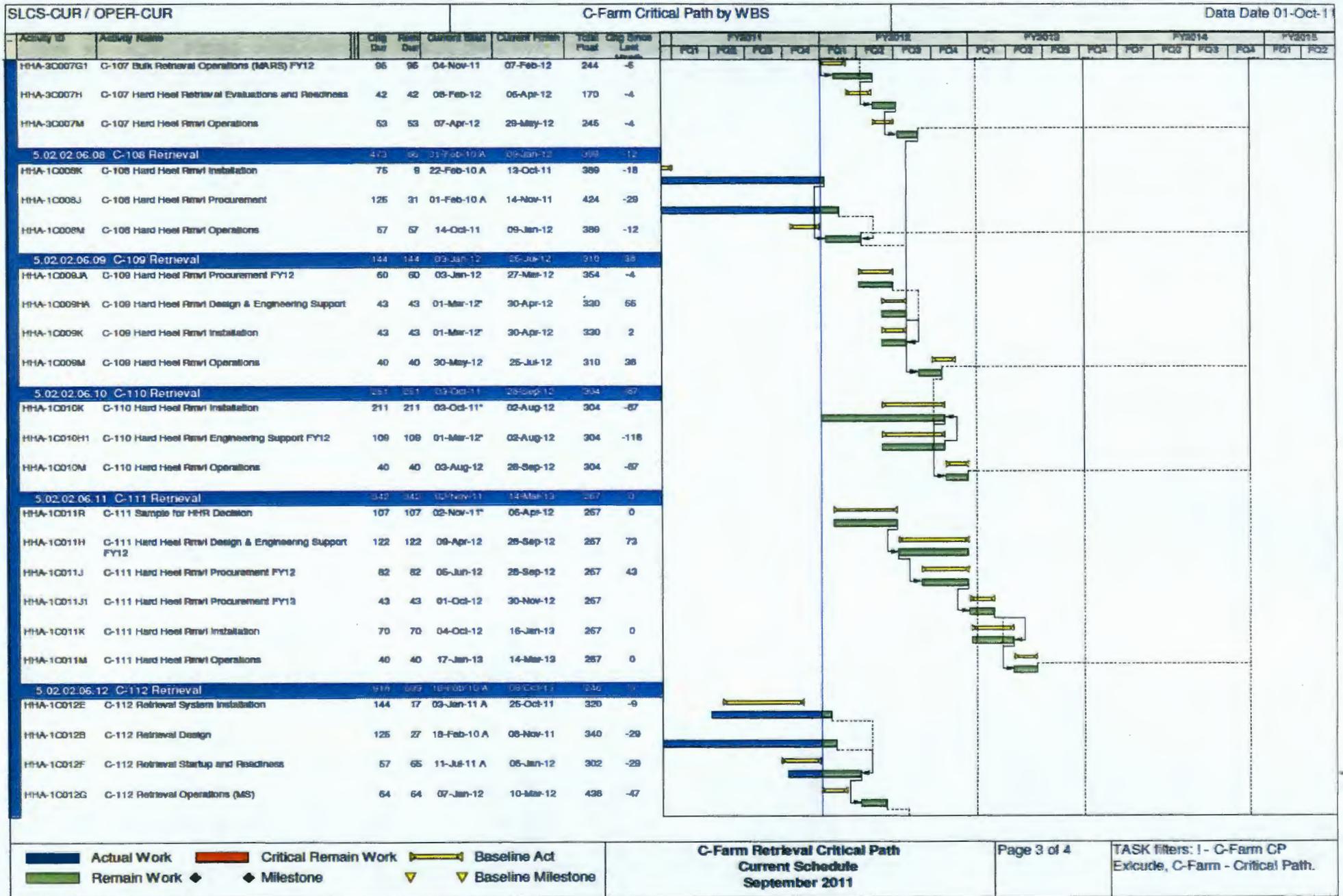
- Continue U.S. Nuclear Regulatory Commission (NRC) review of the C-106 exception request. A Request for Additional Information (RAI) was received from the NRC in February 2009. (It has been discussed with the NRC that much of the additional information requested is dependent upon development of C-Farm residual waste PA and, therefore, cannot be provided until the PA is published.)

#### **Issues:**

None









## 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 switched tank S-102 to A-103 with a completion date of 09/30/2022 for M-045-15.

**M-045-15A, Embedded Milestone, Submit a Retrieval Data Report Pursuant to Agreement Appendix I**, 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.

**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 and 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

## **Complete Closure of Double Shell Tanks**

**M-042-00A, Complete closure of all double shell tank farms, Due: TBD, based upon completion of retrieval under M-62-45 plus 5 yrs but no later than 9/30/2052 Status: On Schedule**

**Significant Past Accomplishments:**

None

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

None

**Issues:**

None

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

### 242-A Campaign strategy:

No campaigns were conducted in FY2011 due to ongoing 242-A and Tank Farm Life Extension and ARRA funded facility upgrades. The 242-A Campaign Strategy for FY2010 through FY2015 depicted below has been updated based on ORP-11242, River Protection Project Plan, Revision 5, 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	12-01	AP-107	AP-107	Estimated start June 2012. May require two (2) passes to achieve waste volume reduction.
FY13	13-01	AP-104	AP-107	Estimated start March 2013.
FY13	13-02-	AW-106	AP-107	Estimated start September 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-T05, Provide to Ecology a report documenting and evaluating the visual inspection of 12 SSTs per the criteria listed in Table 3.3 in RPP-PLAN-46847, Rev.0, Due: 3/31/2011, Status: Complete 03/11/11 (Letter 11-TF-039). Ecology completed review and sent an approval letter stating ORP had met this milestone on 5/12/2011. (Letter 11-NWP-041)**

**M-045-91C, implement the DQO process to develop and provide Ecology a Test Plan to evaluate the chemistries as specified in RPP-RPT-43 116. Rev 0, Due: 9/30/2011, Status: Complete 09/15/11 (Letter 11-TPD-057).**

**M-045-91G-T01, Provide to Ecology the Structural Analyses of Record final documentation for SSTs for 530, 000 gallon tanks (B, BX. C, T and U Farms), Due: 9/30/2011, Status: Complete 09/15/11 (Letter 11-TPD-064).**

**M-045-91B, Submit a Sampling and Analysis Plan to Ecology for the sampling of sidewall cores from tank 241-A-106 or alternate tank approved by Ecology, Due: 12/30/2011, Status: Complete 09/20/11 (Letter 11-TPD-069).**

**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: 1/31/2012, Status: At risk.**

**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: On Schedule**

**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 transmitted the test plan to Ecology on June 27, 2011. (Letter 11-NWP-077)**

**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: On schedule pending final appropriations.**

**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: 9/30/2012, Status: On schedule pending final appropriations.**

**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 pending final appropriations.**

**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: On schedule pending final appropriations.**

**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 pending final appropriations.**

**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 pending final appropriations.**

**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 pending final appropriations.**

**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 pending final appropriations.**

**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 pending final appropriations.**

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

**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 pending final appropriations.**

**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 pending final appropriations.**

**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 pending final appropriations.**

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

- Specimens for the M-045-91D milestone have been tested for mechanical properties by CTL in Skokie, Illinois. Vendor test report has been prepared.
- Completed M-045-91G-T02, TYPE II AOR (RPP-RPT-49989), Ecology briefed of the results on 8/23/11, and the report was transmitted to Ecology on 9/15/11 by ORP letter 11-TPD-064.
- Completed milestone M-045-91C, transmit to Ecology the Test Plan to evaluate the chemistries as specified in RPP-RPT-43 116. Rev 0 via letter 11-TPD-057 on 09/15/2011.
- Completed milestone M-045-91G-T01, Provide to Ecology the Structural Analyses of

Record final documentation for SSTs for 530, 000 gallon tanks (B, BX, C, T and U Farms), sent via letter 11-TPD-064 on 09/15/2011.

- Completed milestone M-045-91B, Submit a Sampling and Analysis Plan to Ecology for the sampling of sidewall cores from tank 241-A-106 or alternate tank approved by Ecology, sent via letter 11-TPD-069 on 09/20/11.
- Completed a draft of 241-TY/BY leak assessment report segment for the M-045-91F-T04 milestone.

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

- Complete milestone M-045-91F-T03, plan to provide Ecology, Ionic Conductivity Feasibility Report in September 2011. Due: 5/31/2013.
- Complete milestone 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), planned submittal to Ecology in November 2011. Due: 1/31/2012.
- Prepare and issue demonstration test report for the sidewall coring demonstration to support M-045-91B-T01.

**Issues:**

- FY12 funding constraints have placed FY12 work supporting SST Integrity Assurance program in question.

## In Tank Characterization and Summary

For the period from September 1 – September 30, 2011:

### Accomplishments:

- Completed revision 0 of RPP-PLAN-50151, *Sampling and Analysis Plan for the 244-CR Vault Tanks*, on September 9.
- Completed revision 0 of RPP-PLAN-50310, *Tank 241-AN-106 Grab Sampling and Analysis Plan in Support of Corrosion Mitigation during Tank 241-C-107 Retrieval*, on September 23.
- Completed revision 3 of RPP-RPT-47795, *Water Activity Data Assessment to be Used in Hanford Waste Solubility Calculations*, on September 28
- Completed revision 1 of RPP-PLAN-49885, *Tank Sampling and Analysis Plan for 241-C-108 Hard Heel Dissolution*, on September 15.
- Completed revision 7 of RPP-26781, *Tank Farm Contractor Process Sampling Requirements for FY2012 through FY2015*, on September 29.
- Completed BBI updates for tanks 241-AP-101, 241-AP-104, 241-AP-105, 241-AY-101, 241-AY-102, and 241-SY-101.

### Planned Action within the next Six Months:

- Tank Sampling
  - Tank 241-C-108 hard heel dissolution samples scheduled for October - November 2011.
  - Tank 204-AR-TK-1 compatibility samples scheduled for November 2011.
  - Tank 241-AN-106 grab samples for chemistry control taken at 50% of the retrieval of tank 241-C-107 scheduled for December 2011.
  - Tank 241-AN-101 grab samples for chemistry control taken at 50% of the retrieval of tank 241-C-112 scheduled for December 2011.
  - Tank 241-AZ-102 grab samples for chemistry control scheduled for December 2011.
  - Tank 241-C-108 off riser sampling scheduled for January 2012.
  - Tank 241-AP-104 evaporator samples scheduled for March 2012.
  - Tank 241-C-107 off riser sampling scheduled for March 2012.
- BBI Updates
  - Ten tanks have been identified for updates in FY12 Quarter1.
- Data Quality Objectives (DQO)
  - Complete revision of the PCB Management DQO (RPP-7614) and the Compatibility DQO (HNF-SD-WM-DQO-001) in December 2011.
  - Complete revision of the Strategic Planning DQO (RPP-44057) in November 2011.

### Issues:

None

## TANK OPERATIONS CONTRACT (TOC) OVERVIEW

### Project Performance

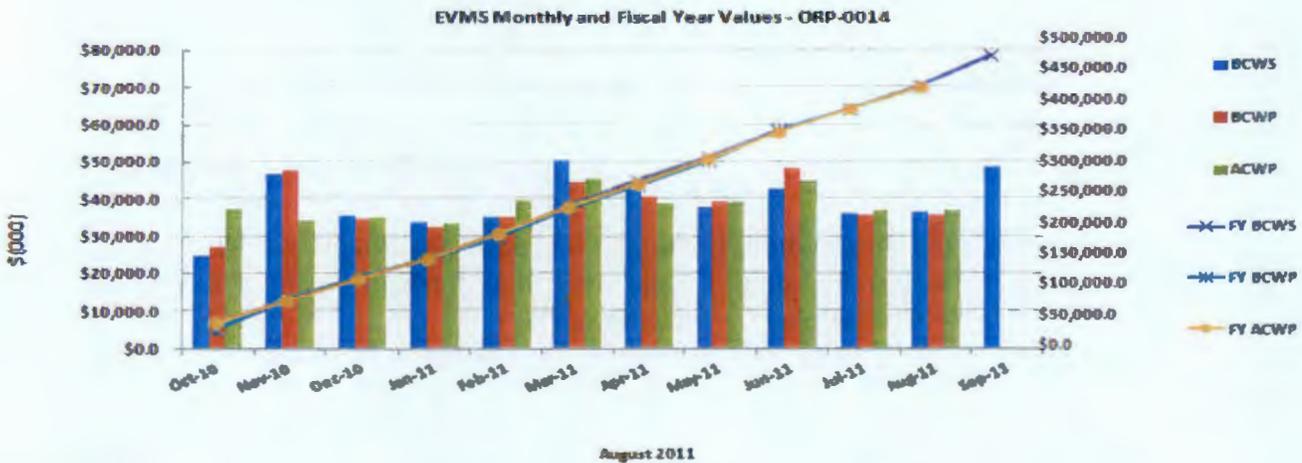
The earned value analysis is a comparison of cost and schedule contract-to-date performance. The earned value performance reporting reflects the format, Work Breakdown Structure (WBS) reporting levels, and variance thresholds as agreed to with the Tank Farms Operations Contractor (TOC) for monthly performance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

WRPS August Project Performance (\$k)

	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC
CTD	36109.5	35353.3	32364.3	(640.2)	2969.0	0.98	1.09			
FYTD	420733.9	418477.6	415915.6	22563.3	2362.0	0.99	1.01	468,839.6	468,270.7	568.9
CTD	1,180,789.5	1,171,711.3	1,108,098.5	9078.3	62,672.7	0.99	1.06	2,107,738.9	2,048,590.4	59,148.5

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

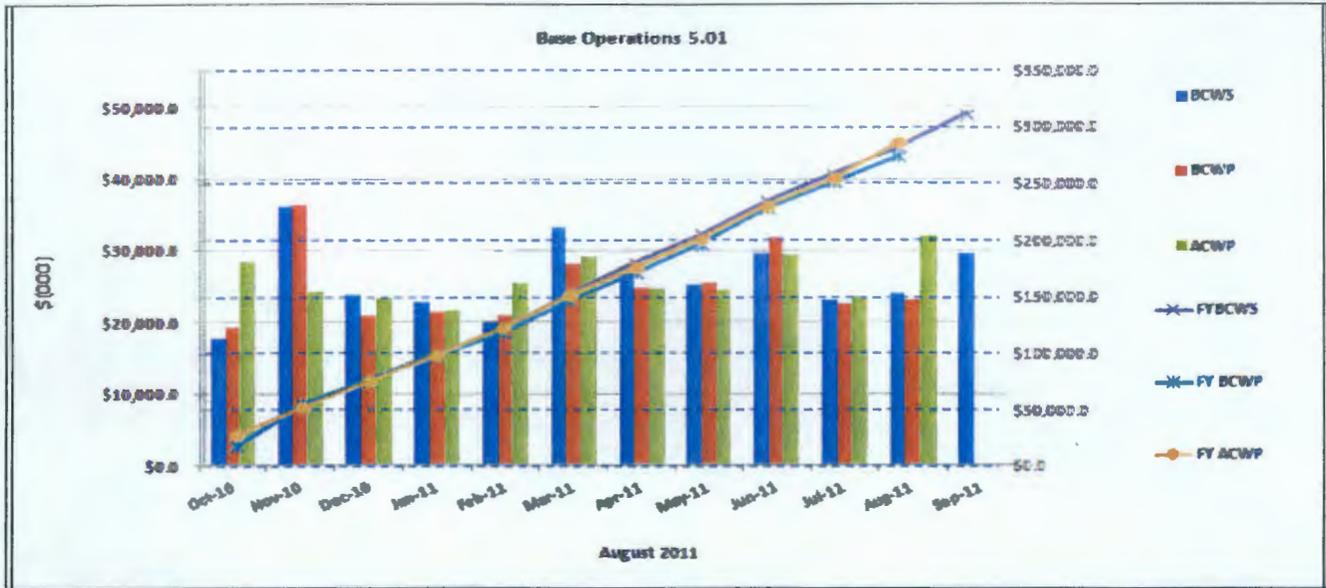
### Current Month Significant Variance Contributors



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-10	\$24,918.8	\$26,782.0	\$37,083.6	1.07	0.72	\$24,918.8	\$26,782.0	\$37,083.6	1.07	0.72
Nov-10	\$46,528.0	\$47,510.9	\$34,301.0	1.02	1.39	\$71,446.8	\$74,292.9	\$71,384.5	1.04	1.04
Dec-10	\$35,469.5	\$34,558.3	\$35,056.5	0.97	0.99	\$106,916.3	\$108,851.1	\$106,441.0	1.02	1.02
Jan-11	\$33,862.5	\$32,115.2	\$33,376.8	0.95	0.96	\$140,778.8	\$140,366.4	\$139,817.8	1.00	1.01
Feb-11	\$35,157.1	\$34,800.5	\$39,288.6	0.99	0.89	\$175,935.9	\$175,766.8	\$179,106.4	1.00	0.98
Mar-11	\$50,219.3	\$44,202.5	\$45,098.7	0.88	0.98	\$226,155.2	\$219,969.3	\$224,205.1	0.97	0.98
Apr-11	\$42,344.0	\$40,218.8	\$38,772.0	0.95	1.04	\$268,499.2	\$260,188.1	\$262,977.1	0.97	0.99
May-11	\$37,492.6	\$39,240.0	\$38,843.5	1.05	1.01	\$305,991.8	\$299,428.1	\$301,820.6	0.98	0.99
Jun-11	\$42,816.6	\$48,027.1	\$44,871.5	1.12	1.07	\$348,808.4	\$347,455.2	\$346,692.1	1.00	1.00
Jul-11	\$35,958.2	\$35,669.0	\$36,839.3	0.99	0.97	\$384,766.6	\$383,124.2	\$383,531.4	1.00	1.00
Aug-11	\$36,193.5	\$35,353.3	\$36,839.3	0.98	0.96	\$420,960.1	\$418,477.5	\$420,370.7	0.99	1.00
Sep-11	\$48,559.2					\$469,519.3				
CTD	\$1,225,167.5	\$1,219,049.8	\$1,163,130.2	1.00	1.05					

- Effective through August 30, 2011 – The overall project performance is going very well; SPI is 1.00 with a CPI of 1.05; thus – ORP 0014 is on schedule and under budget.

Office of River Protection (ORP-0014) Fiscal Year 2011 - Monthly EVMS



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-10	\$17,777.2	\$19,285.1	\$20,549.6	1.08	0.68	\$17,777.2	\$19,285.1	\$20,549.6	1.08	0.68
Nov-10	\$36,143.1	\$36,366.3	\$24,452.2	1.01	1.49	\$53,920.3	\$55,651.4	\$53,001.8	1.03	1.05
Dec-10	\$23,775.6	\$20,995.7	\$23,448.8	0.88	0.90	\$77,695.9	\$76,647.1	\$76,450.6	0.99	1.00
Jan-11	\$22,876.6	\$21,370.0	\$21,705.1	0.93	0.98	\$100,572.5	\$98,017.1	\$98,155.7	0.97	1.00
Feb-11	\$20,031.0	\$21,023.0	\$25,607.6	1.05	0.82	\$120,603.5	\$119,040.1	\$123,763.3	0.99	0.96
Mar-11	\$33,329.2	\$28,292.6	\$29,059.6	0.85	0.97	\$153,932.7	\$147,332.7	\$152,822.9	0.96	0.96
Apr-11	\$26,817.9	\$24,728.9	\$24,769.1	0.92	1.00	\$180,750.6	\$172,061.6	\$177,592.0	0.95	0.97
May-11	\$25,422.8	\$25,669.7	\$24,548.6	1.01	1.05	\$206,173.4	\$197,731.3	\$202,140.6	0.96	0.98
Jun-11	\$29,540.0	\$31,789.1	\$29,306.5	1.08	1.08	\$235,713.4	\$229,520.4	\$231,447.1	0.97	0.99
Jul-11	\$23,168.0	\$22,540.5	\$23,499.9	0.97	0.96	\$258,881.4	\$252,060.9	\$254,947.0	0.97	0.99
Aug-11	\$24,131.4	\$23,132.4	\$31,992.7	0.96	0.72	\$283,012.8	\$275,193.3	\$286,939.7	0.97	0.96
Sep-11	\$29,554.9					\$312,567.7				

CTD	\$823,183.9	\$821,519.3	\$798,196.2	1.00	1.03
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- **242-A Evaporator Operation and Maintenance, (\$275k):** CM (SV) is behind schedule on the evaporator simulator, is driven by the type of earned value method activity code within P6 (0/100). The earned value method has been changed to percent complete, which will correct the SV next month.
- **RA-DST Valve Assembly Upgrades, (\$200k):** CM (SV) performance “give-back” on installation of replacement piping jumpers in the AN-A and AN-B valve pits (work completed early).
- **RPP [River Protection Project] System Plan, \$178k:** cost efficiencies due to less modeler and subject matter expert labor than planned resulting from performing the Hanford Tank Waste Operations Simulator work and system plan reporting activities in parallel, efficiencies gained through G2 training, and not fully staffing engineers due to FY 2012 budget constraints.
- **RA-Exhauster Upgrades, \$946k:** CM (SV) schedule recovery on installation and operational testing of the 242-A Evaporator exhauster upgrades, \$820k, and early start on installation of the manual flush valve, \$107k.

Office of River Protection (ORP-0014) Fiscal Year 2011 - Monthly EVMS

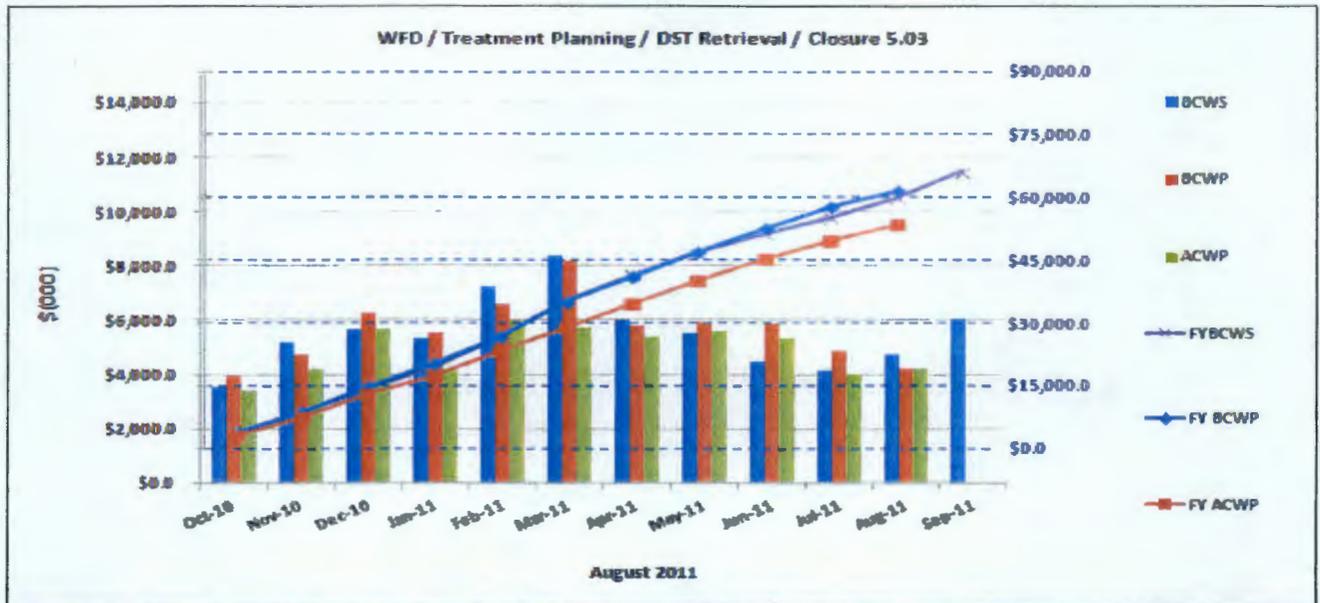


Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-10	\$2,991.6	\$2,932.6	\$4,707.6	0.98	0.62	\$2,991.6	\$2,932.6	\$4,707.6	0.98	0.62
Nov-10	\$4,412.7	\$5,622.7	\$5,006.7	1.27	1.12	\$7,404.3	\$8,555.3	\$9,714.3	1.16	0.88
Dec-10	\$5,209.7	\$6,682.7	\$5,494.0	1.28	1.22	\$12,614.0	\$15,238.0	\$15,208.3	1.21	1.00
Jan-11	\$5,310.0	\$4,820.2	\$6,975.6	0.91	0.69	\$17,924.0	\$20,058.2	\$22,183.9	1.12	0.90
Feb-11	\$6,670.0	\$6,253.2	\$7,006.6	0.94	0.89	\$24,594.0	\$26,311.4	\$29,190.5	1.07	0.90
Mar-11	\$7,513.3	\$6,825.3	\$9,447.6	0.91	0.72	\$32,107.3	\$33,136.7	\$38,638.1	1.03	0.86
Apr-11	\$8,613.5	\$8,766.1	\$7,914.2	1.02	1.11	\$40,720.8	\$41,902.8	\$46,552.3	1.03	0.90
May-11	\$5,638.9	\$6,687.7	\$7,937.1	1.19	0.84	\$46,359.7	\$48,590.5	\$54,489.4	1.05	0.89
Jun-11	\$7,638.7	\$8,905.0	\$9,080.1	1.17	0.98	\$53,998.4	\$57,495.5	\$63,569.5	1.06	0.90
Jul-11	\$7,729.6	\$7,211.9	\$8,335.0	0.93	0.87	\$61,728.0	\$64,707.4	\$71,904.5	1.05	0.90
Aug-11	\$6,480.9	\$7,117.4	\$6,587.0	1.10	1.08	\$68,208.9	\$71,824.8	\$78,491.5	1.05	0.92
Sep-11	\$11,951.1					\$80,160.0				

CTD	\$239,346.8	\$235,302.2	\$231,825.8	0.98	1.01
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- C-112 Retrieval, (\$267k):** CM (SV) behind schedule on SST C-112 retrieval system installation, (\$181k), and startup and readiness, (\$174k), due to resource constraints (assigned to higher-priority work) and weather delays (heat). Unfavorable SV partially offset by schedule recovery on procurement, \$97k.
- C-107 Retrieval, (\$923k):** CM (CV) is driven by two root causes: (1) cost overruns for installation of the MARS related to unplanned repair of the constant tension hoist, adverse weather conditions, and wiring repairs during construction acceptance testing, (\$744k); and (2) cost overruns for fabrication and installation of the demister ductwork for the exhauster refurbishment, (\$299k).
- C-112 Retrieval, \$197k:** CM (CV) this CV is driven by three root causes: (1) fabrication and receipt of procured equipment including the Extended Reach Sluicer System where BCWP was taken but costs were not accrued pending quality acceptance (expect costs in September), \$141k, (2) efficiency in installation for removal of the R7 riser using less overtime than planned, \$169k, and (3) offsetting cost overrun for design and engineering,

Office of River Protection (ORP-0014) Fiscal Year 2011 - Monthly EVMS

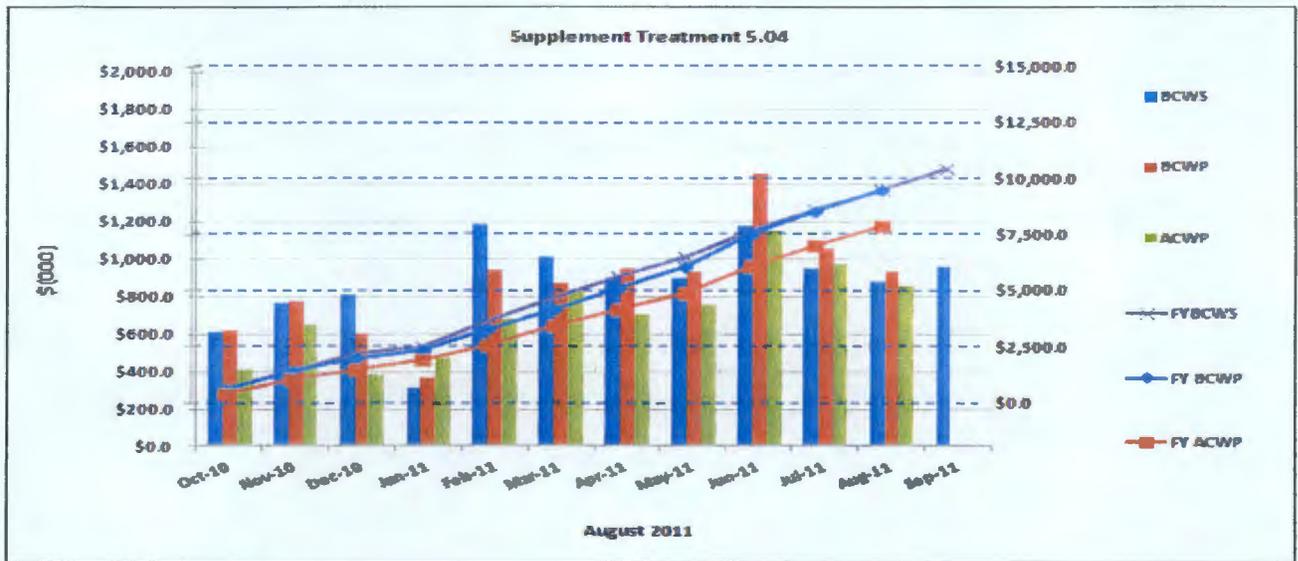


Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-10	\$3,540.0	\$3,944.3	\$3,413.8	1.11	1.16	\$3,540.0	\$3,944.3	\$3,413.8	1.11	1.16
Nov-10	\$5,203.6	\$4,748.8	\$4,184.7	0.91	1.13	\$8,743.6	\$8,693.1	\$7,598.5	0.99	1.14
Dec-10	\$5,677.1	\$6,277.7	\$5,689.4	1.11	1.10	\$14,420.7	\$14,970.8	\$13,287.9	1.04	1.13
Jan-11	\$5,366.1	\$5,557.1	\$4,225.6	1.04	1.32	\$19,786.8	\$20,527.9	\$17,513.5	1.04	1.17
Feb-11	\$7,269.3	\$6,582.6	\$5,993.5	0.91	1.10	\$27,056.1	\$27,110.5	\$23,507.0	1.00	1.15
Mar-11	\$8,362.9	\$8,213.8	\$5,757.0	0.98	1.43	\$35,419.0	\$35,324.3	\$29,264.0	1.00	1.21
Apr-11	\$6,011.0	\$5,778.2	\$5,384.6	0.96	1.07	\$41,430.0	\$41,102.5	\$34,648.6	0.99	1.19
May-11	\$5,533.4	\$5,946.3	\$5,595.9	1.07	1.06	\$46,963.4	\$47,048.8	\$40,244.5	1.00	1.17
Jun-11	\$4,456.7	\$5,875.8	\$5,335.3	1.32	1.10	\$51,420.1	\$52,924.6	\$45,579.8	1.03	1.16
Jul-11	\$4,110.8	\$4,859.5	\$4,024.3	1.18	1.21	\$55,530.9	\$57,784.1	\$49,604.1	1.04	1.16
Aug-11	\$4,703.9	\$4,173.4	\$4,181.9	0.89	1.00	\$60,234.8	\$61,957.5	\$53,786.0	1.03	1.15
Sep-11	\$6,091.6					\$66,326.4				

CTD	\$149,280.3	\$148,871.8	\$121,759.7	1.00	1.22
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- **RA-Exhauster Upgrades, \$946k:** CM (SV) schedule recovery on installation and operational testing of the 242-A Evaporator exhauster upgrades, \$820k, and early start on installation of the manual flush valve, \$107k.
- **RA-Electrical Upgrades, (\$735k):** CM (SV) related to SST and SY Farm electrical upgrades and is driven by four root causes:
  - Performance give-back for work completed earlier than planned (budget in the CM for work completed in previous months) in design and fabrication of the SY Farm POC, (\$550k),
  - Delays in completion of the SST electrical upgrades in the TX/TY Farms due to site priorities for release of design documentation, (\$170k),
  - Performance give-back for early procurement of waste boxes, (\$160k), and
  - Schedule recovery on the C Farm electrical upgrades, \$140k. Note that schedule recovery on this account is expected in September 2011 (next month).

Office of River Protection (ORP-0014) Fiscal Year 2011 - Monthly EVMS



Earned Value Month	BCVS	BCVP	ACVP	SPI	CPI	FYBCVS	FY BCVP	FY ACVP	FY SPI	FY CPI
Oct-10	\$610.0	\$619.9	\$412.6	1.02	1.50	\$610.0	\$619.9	\$412.6	1.02	1.50
Nov-10	\$768.6	\$773.1	\$657.3	1.01	1.18	\$1,378.6	\$1,393.0	\$1,069.9	1.01	1.30
Dec-10	\$807.0	\$602.2	\$384.2	0.75	1.57	\$2,185.6	\$1,995.2	\$1,454.1	0.91	1.37
Jan-11	\$309.8	\$368.0	\$470.6	1.19	0.78	\$2,495.4	\$2,363.2	\$1,924.7	0.95	1.23
Feb-11	\$1,186.8	\$941.8	\$680.9	0.79	1.38	\$3,682.2	\$3,305.0	\$2,605.6	0.90	1.27
Mar-11	\$1,013.9	\$870.9	\$834.5	0.86	1.04	\$4,696.1	\$4,175.9	\$3,440.1	0.89	1.21
Apr-11	\$901.6	\$945.5	\$704.0	1.05	1.34	\$5,597.7	\$5,121.4	\$4,144.1	0.91	1.24
May-11	\$897.5	\$936.3	\$761.9	1.04	1.23	\$6,495.2	\$6,057.7	\$4,906.0	0.93	1.23
Jun-11	\$1,180.7	\$1,457.2	\$1,149.5	1.23	1.27	\$7,675.9	\$7,514.9	\$6,055.5	0.98	1.24
Jul-11	\$949.9	\$1,057.1	\$979.8	1.11	1.08	\$8,625.8	\$8,572.0	\$7,035.3	0.99	1.22
Aug-11	\$877.3	\$930.1	\$850.5	1.06	1.09	\$9,503.1	\$9,502.1	\$7,885.8	1.00	1.20
Sep-11	\$961.7					\$10,464.8				

CTD	\$13,356.5	\$13,356.5	\$11,348.5	1.00	1.18
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- **WTP Pre-Treatment Alternative Studies, \$50k:** CM (CV) The FY-10 contract to date favorable cost variance is the result of realizing efficiencies in the initiation of development of the WTP Technology Development Baseline studies.
  - Two FY 2010 studies required further detailed analysis and evaluation of previously developed technologies, coupled with utilization of technologies demonstrated at SRNL, resulting in less labor usage to perform the research than normally required to initiate new studies.
  - The project is similarly realizing FY11 efficiencies by self performing technology evaluations, where appropriate, when there are appropriate expertise or subject matter experts available and by utilizing existing data for some of the studies, rather than subcontracting the effort. These steps have resulted in saving subcontract costs normally required to research and compile baseline data coupled with realizing fewer actual labor costs than budgeted rates resulting from newly hired junior engineering staff.
  - The FY-10 studies performed in the second quarter of FY10 were continuations or further refinements of the studies performed in the first quarter of FY10 and related to potential development and implementation of RMF, SCIX and FBSR for supplemental treatment. This included gathering information from SRNL where work on developing, testing and designing the RMF, SCIX and FBSR technologies was being performed and outlining potential path forward for Hanford.

## 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: On Schedule.** Negotiations are not yet underway.

**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: Negotiations are not yet underway.**

**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:

Conceptual Design has been initiated on the Interim Hanford Storage and Secondary Waste Treatment Projects.

The Interim Hanford Storage selected alternative is to construct a new storage facility which employs a below-grade storage module consisting of two vaults to store where IHLW canisters are double-stacked in an open rack, which is similar to the storage bay in the WTP's high level vitrification building. The canisters are double-stacked in an open rack. Canisters are stored upright in the racks, which provide space for air to flow in contact with each canister.

The Secondary Waste Treatment Project's selected alternative is to upgrade the existing Effluent Treatment Facility, as necessary to support processing of ERDF/IDF leachate, 242-A Evaporator condensate, and WTP secondary liquid waste. A solidification treatment unit will be added to the updated ETF to produce a low-temperature solid waste form for immobilization of the separated contaminants.

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

Continue Conceptual Design for both the Interim Hanford Storage and Secondary Waste Treatment Project.

### Issues:

None

## Supplemental Treatment and Part B Permit Applications

**M-062-40ZZ, Submit a one-time Tank Waste Supplemental Treatment Technologies report if a supplemental treatment technology is proposed other than a 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:

- ORP and Ecology signed change package M-62-11-01 on 7/18/11, deleting milestone M-62-30.

### 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: On Schedule**

**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 completed the River Protection Project System Plan, Revision 6, contract review in September 2011. System Plan, Rev. 6 was approved by DOE/ORP and electronically released by WRPS on October 5, 2011.

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

TPA milestone closure package/letter is being prepared to be transmitted to Ecology in time to meet the October 31, 2011 milestone due date.

### **Issues:**

None

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

<b>Number</b>	<b>Title</b>	<b>Due Date</b>	<b>Status</b>
M-062-01W	Submit Semi-Annual Project Compliance Report	07/28/2011	Complete, CD – 7/28/2011 TPA – 7/27/2011
M-062-49	Submit a report to Ecology demonstrating that the WTP is designed to accomplish, pretreat 100% of retrievable waste, vitrify 100% of separated high level waste, WTP LAW with supplemental treatment can vitrify 100% of separated low level waste stream	10/31/2011	BNI has submitted the document to DOE and it has been reviewed. The report is ready for transmittal to Ecology and the transmittal letter is being drafted 10/17/11.

The WTP Project currently employs about 3,300 Full-Time Equivalent (FTE) contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel, including 1,300 craft, 570 non-manual, and about 205 subcontractor personnel FTEs working at the WTP construction site (all facilities). As of August 2011, the project is 61 percent complete, design and engineering is 83 percent complete, procurement is 64 percent complete, construction is 57 percent complete, and startup and commissioning is 13 percent complete.

The overall WTP Project schedule variance in August was a negative \$6.9M, the cost variance was a negative \$1.4M. The negative cost variance was due to Construction Piping and Engineering Design control accounts and the schedule variances came primarily from Plant Equipment.

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

**Significant Past Accomplishments:**

- Completed informational tests for the adequacy of Pulse Jet Mixers (PJM) mixing with various configurations to understand the impacts of these changes
- Mechanical systems design for the LAW facility is substantially complete.

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

- Complete erection of 4<sup>th</sup>-tier structural steel (77ft to 98ft elevation).
- Perform Large Scale Integrated Testing (LSIT) in 4ft and 8ft vessels for resolving mixing issues.
- Complete fabrication and delivery of C5 Ventilation System (C5V) dampers.
- Complete siding of High-Level Waste (HLW) Facility Annex.
- Complete installation of the Low-Activity Waste (LAW) Facility and LAB Autosampler systems.
- LAB Construction Complete.
- Complete construction of the Balance of Facilities (BOF) cooling tower.
- Complete construction of BOF switchgear building.

**Issues:**

No significant issues at this time.

## PRETREATMENT (PT) FACILITY

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. The PT Facility is 49 percent complete overall, with engineering design 79 percent complete, procurement 46 percent complete, and construction 38 percent complete.

### Significant Past Accomplishments:

Rebar and embed installation and fabrication of rebar wall curtains continues to support additional slab and wall placements at the 56ft to 98ft elevations. Construction completions for September include placement of four 5<sup>th</sup> lift (77ft to 98ft elevation) walls (total of 427 CY), and placement of the sanitary sewer encasement for the Control Building (50 CY).

On-going work includes fabrication of piping modules, installation of drain piping, service air piping, cable trays and supports, ductwork, conduit, wall liner plates, and sparge tubing in the hot cell, and structural steel at the 77ft elevation.

Engineering continues to implement changes from the technical issue resolutions into Piping and Instrumentation Design (P&ID) and piping isometric drawings (issued 236). Issued re-committed design packages for the Radioactive Liquid Waste Disposal (RLD) and Steam Condensate Water (SCW) systems. Awards were made for the Resin and Aerosol Testing, and the High Efficiency Mist Eliminator (HEME). Bechtel National Inc., (BNI) report for TPA Milestone M-62-49 (due October 31, 2011) was completed and delivered to DOE on September 28, 2011.

An updated detailed execution plan for the design, procurement and installation of liner plates, jumper frames and equipment pads has been developed for the hot cell. Informational tests for the adequacy of Pulse Jet Mixers (PJM) with various configurations have been completed to understand the impacts of those changes. A number of tests have yielded positive results for mixing. These tests will be further validated by NQA-1 tests in the 4ft, 8ft and 14ft vessels. A new Integrated Project team (IPT) has been formed to support the resolution of the vessel mixing issue, and installation of vessels in the plant.

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

- Fabrication and delivery of initial hot cell equipment frames.
- Development of the PJM design and control strategy for resolving open issues with mixing and completion of vessel design.
- Perform Large Scale Integrated Testing (LSIT) in 4ft and 8ft vessels for resolving mixing issues.
- Complete 5<sup>th</sup> lift wall placements, eight 98ft slab placements, two 6<sup>th</sup> lift wall placements, and placements of the Control Building basemat.
- Set Hot Cell Vertical door drive mechanism replacement gearbox and switch.
- Complete Verification and Validation (V&V) of quantitative risk analysis for Hydrogen in Piping and Ancillary Vessels (HPAV).
- Install hot cell piping pulse jet ventilation header.
- Complete hazardous operations review for the Cesium Ion Exchange, Waste Feed Evaporator, and the HLW Lag Storage and Feed Blend Process systems.

- Complete nineteen mechanical systems re-committed design packages.
- Complete erection of 4<sup>th</sup> tier structural steel (77ft to 98ft elevation).
- Obtain Ecology approval of the permit packages to proceed with the alteration of the on-site vessels FRP -2A/B/C/D and UFP-62A/B/C in December 2011. These packages are scheduled to begin a public comment period in October 2011.

**Issues:**

- Vessel Critical Path: Fabrication of vessel HLP-22 continues to be the primary critical path for the PT Facility. Recently, a developing issue has prompted a redesign of PJM mounting hardware and a rework of the seismic analysis, which impacts critical path. BNI is applying focused management attention to meet the schedule.

## HIGH-LEVEL WASTE (HLW) FACILITY

The High Level Waste (HLW) Facility will receive the separated HLW from the Pretreatment (PT) Facility. The concentrate is 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 are sealed and decontaminated prior to shipment to interim storage. The HLW Facility is 55 percent complete overall, with engineering design 86 percent complete, procurement 70 percent complete, and construction 36 percent complete.

### Significant Past Accomplishments:

The build-out of the Filter Cave remains critical path for HLW. The five C5V filter housings were set in September, with two of the twenty dampers installed and two staged. Fabrication and installation of the transition spool pieces began in October. Sixteen of the twenty C5V dampers have completed fabrication at the vendor in Switzerland and have either been received or are in transit. The last four C5V dampers are in the final stages of fabrication. With the completion of the C5V dampers, the same vendor will immediately begin fabrication of the Pulse Jet Ventilation (PJV) System and later the HLW Melter Offgas (HOP) System remote-operated dampers. The two south HOP HEPA housings will be the next units installed in mid-October. The schedule for equipment installations and deliveries is being maintained and will support a completion of the Filter Cave build-out in May 2012.

Five concrete placements (for a sum of 333 cubic yards) were completed in September. The subcontractor has completed the roof and the insulated siding on the north face of the HLW Annex and is continuing the installation of siding of the west and south walls. It is expected the siding will be completed in November, a month ahead of plan. Electrical and piping commodities are progressing throughout the 21ft elevation and 0ft, including cooling water, cable trays and supports, and fire protection piping. Sub-Contractors are also continuing with applying special coatings, installing Heating, Ventilation, and Air Conditioning (HVAC) and fire protection piping, and liner plate installations.

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

- Complete fabrication and delivery of C5V dampers.
- Complete siding of HLW Annex.
- C5V housing and remote-operated damper installations.
- Receive Melter Feed Preparation vessel.
- Receive Plant Wash and Drains vessel (RLD-VSL-8).

### Issues:

No significant issues at this time.

## LOW-ACTIVITY WASTE (LAW) FACILITY

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 will be disposed on the Hanford Site in the Integrated Disposal Facility. The LAW Facility is 66 percent complete, with engineering design 88 percent complete, procurement 85 percent complete, and construction 65 percent complete.

### Significant Past Accomplishments:

Mechanical systems design for the LAW facility is substantially complete. Electrical systems design continues in support of all equipment, controls, and lighting throughout the facility. A major emphasis currently for engineering is the review of vendor calculations and interactions for procurement of Secondary Offgas/Vessel Vent Process (LVP) system components. For example, this month Bechtel National Inc., (BNI) Engineering issued several control logic diagrams and functional diagrams for the LAW Container Receipt Handling (LRH), Primary Offgas Process (LOP), and Melter Equipment Support Handling (LSH) systems. Piping isometric drawings were issued for the Plant Cooling Water (PCW) and Carbon Dioxide Gas (CDG) systems. The east transformer concrete foundation plan and details drawing was issued. The 208/120-volt electrical distribution panel block diagram, termination/cable schedule, and power supply panel schedule was issued for the Uninterruptible Power Electrical (UPE) system.

Procurement activities for the LAW facility are currently focused on the LVP system components. The BNI/vendor interactions progressed well through the month. The first of these secondary offgas treatment system components to be delivered will be the Carbon Bed Adsorber (CBA).

The primary areas of construction focus currently are facility partition wall installation and equipment installation for the Container Finishing Handling (LFH) system. Other normal construction activities this month included installation of pipe and pipe hangers, sprinklers, electrical panels and grounding, scheduled cable tray and conduit, hatches and hatch covers, instrument enclosures, and lighting fixtures. For example, installation was completed on a hatch for the Melter Equipment Support Handling (LSH) system; construction continued with installation of the fire alarm system, Low-Voltage Electrical (LVE) equipment, air-handling units, humidifiers for the C2V ventilation system, bogie recovery equipment for the Container Finishing Handling (LPH) system, cranes for the LSH system, and inert fill hoppers, mono-rail hoist, and dual-rail hoist for the LFH system.

Integrated Control Network (ICN) development continued with software design and testing for the following systems:

- Melter Feed Process (LFP)
- Container Receipt Handling (LRH)
- Melter Equipment Support Handling (LSH)
- Melter Process (LMP)
- Container Export Handling (LEH)
- Primary Offgas Process (LOP)
- Secondary Offgas/Vessel Vent Process (LVP)

Plant-installed-software (PISW) system design documents were issued for the LOP and LMP systems.

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

- Complete vendor fabrication of the carbon bed adsorber.
- Install inert fill drop line.
- Install melter power supplies.
- Complete installation of the ASX system.

**Issues:**

No major issues at this time.

## ANALYTICAL LABORATORY

The Analytical Laboratory (LAB) will support the Hanford Tank Waste Treatment and Immobilization (WTP) operations by analyzing feed, vitrified waste, and effluent streams. The LAB is 47 percent complete overall, with engineering design 78 percent complete, procurement 74 percent complete, and construction 66 percent complete.

### Significant Past Accomplishments:

Efforts at the LAB are focused on the successful completion of the LAB Construction Complete Milestone in December 2012. Installation of partition walls is currently in progress and installation of the autosampling system continues.

As the LAB is being constructed progress continues to be made in how the LAB will function during operations, and what capabilities are required. To further this knowledge Savannah River National Laboratory (SRNL) proposed some potential streamlining opportunities from reviews performed during feed qualification studies. Currently the baseline analytical methods for waste pre-qualification are being established. Identification of existing methods for analyses required by the Waste Feed Acceptance Criteria (WAC) Data Quality Objectives (DQO) document is complete. The identified methods and gaps are being reviewed by SRNL staff for applicability and methods development needs. The LAB team provided Operations' input to the *Laboratory Development of LAW-PTF Feed Base Simulant for Cold Commissioning* document. Specifically requesting an additional Objective and Criteria be added establishing the stability of the simulant. This is important because of the extended period that the simulant may be stored while the total volume needed is prepared.

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

- Install Autosampler HEPA filter housings frames.
- Complete installation of Autosampler System.
- Install can crusher
- Set pumps in C5 pit
- Install Hot Cell import/export motors

### Issues:

No major issues.

### **BALANCE OF FACILITIES (BOF)**

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 47 percent complete overall, with engineering design 73 percent complete, procurement 47 percent complete, and construction 62 percent complete.

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

Construction efforts for the BOF facilities are focused on supporting turnover of the first facility in CY-2012, and numerous other facilities in 2013. This goal was progressed by commencing placement of the base slab for anhydrous ammonia storage and continued commodity installation in the Glass Former Storage Facility, Chiller Compressor Plant, and Diesel Fuel Oil facility. The framework and precedence for facility turnover will be established following completion of the Switchgear Building (B87). Meetings are being held bimonthly to facilitate an efficient completion, testing, and turnover plan.

Bechtel National Inc., (BNI) continues to work closely with the Emergency Turbine Generator (ETG) vendor. The first steps in the process, which clarify the contract scope and identify safety functions and age related failure mechanisms, have been completed. Over the next several months the BNI engineering team will continue working with the vendor to identify code, standard, and specification requirements.

The Defense Nuclear Facilities Safety Board (DNFSB) recently issued a letter concerning the hazards and controls associated with the anhydrous ammonia system. Responses to the Board's questions are currently being generated by BNI. The ammonia vessel and vaporizer skid are currently being manufactured and are scheduled to be on site before the end of December 2011.

#### **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.
- Receive anhydrous ammonia system.

#### **Issues:**

No major issues.

**Waste Treatment Plant Project - Percent Complete Status  
Through August 2011**

(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	955.2	630.2	66%	229.8	203.1	88%	235.0	199.6	85%	342.5	221.1	65%	148.1	6.4	4%
Analytical Lab	351.2	166.4	47%	55.0	43.0	78%	56.1	41.8	74%	104.9	69.5	66%	135.2	12.1	9%
Balance of Facilities	530.2	250.5	47%	84.3	61.2	73%	80.9	37.7	47%	229.0	141.6	62%	136.1	10.0	7%
High-Level Waste	1,488.6	820.8	55%	342.5	294.6	86%	454.5	317.5	70%	573.8	204.3	36%	117.8	4.4	4%
Pretreatment	2,495.0	1,233.4	49%	698.0	549.3	79%	715.7	332.2	46%	898.7	345.8	38%	182.6	6.0	3%
Shared Services	4,747.0	3,317.4	70%	1,052.2	895.9	85%	467.7	365.6	78%	1,421.6	1,046.7	74%	455.8	116.8	26%
<b>Total WTP w/o UB</b>	<b>10,567.2</b>	<b>6,418.9</b>	<b>61%</b>	<b>2,461.6</b>	<b>2,047.2</b>	<b>83%</b>	<b>2,009.8</b>	<b>1,294.3</b>	<b>64%</b>	<b>3,570.5</b>	<b>2,029.1</b>	<b>57%</b>	<b>1,175.6</b>	<b>155.8</b>	<b>13%</b>
Undistributed Budget	0.0	n/a	n/a	n/a	n/a	n/a									
<b>Total WTP</b>	<b>10,567.2</b>	<b>6,418.9</b>	<b>61%</b>	<b>2,461.6</b>	<b>2,047.2</b>	<b>83%</b>	<b>2,009.8</b>	<b>1,294.3</b>	<b>64%</b>	<b>3,570.5</b>	<b>2,029.1</b>	<b>57%</b>	<b>1,175.6</b>	<b>155.8</b>	<b>13%</b>

Source: WTP Contract Performance Report - Format 1, Data for August 2011

*Note: Starting with the June 2009 report, facility Construction percent complete values decreased significantly, and a couple of Design/Engineering facility percent complete values went down as well. The decrease in values was tied to Phase I of BNI's elimination of WBS 1.08, Plant Wide EPCC; scope from WBS 1.08 was moved to facilities as appropriate or to WBS 1.90, Shared Services. This resulted in an increase in the facility construction budgets, which has correspondingly reduced the to-date percent complete values. In July 2010 the allocation of 1.90 to the facilities was removed to show true facility percent complete.*

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**FINAL**

Office of River Protection  
Consent Decree 08-5085-FVS

Project Summary Report

October 25, 2011

## Office of River Protection

Consent Decree 08-5085-FVS

Project Summary Report

October 25, 2011

9:00 a.m. – 11:30 a.m.

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

**Fiscal Year 2011 Consent Decree Milestone Status**

Milestone No.	Description	Due Date	Date Completed	On Schedule	At Risk	Recoverable	To Be Missed	Missed	In Litigation	Deleted	In Program Planning	In Abeyance	Dispute Resolution
D-00A-20	Complete Construction of Structural Steel to Elevation 14' in HLW Facility	12/31/10	01/31/10										
D-00C-01B	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	01/31/11	01/25/11										
D-00C-02D	Submit to Ecology and Oregon Monthly Summary Reports	02/28/11	2/25/11										
D-00C-02E	Submit to Ecology and Oregon Monthly Summary Reports	03/31/11	03/24/11										
D-00C-02F	Submit to Ecology and Oregon Monthly Summary Reports	04/30/11	04/29/11										
D-00C-02G	Submit to Ecology and Oregon Monthly Summary Reports	05/31/11	05/25/11										
D-00C-02H	Submit to Ecology and Oregon Monthly Summary Reports	06/30/11	06/30/11										
D-00C-02I	Submit to Ecology and Oregon Monthly Summary Reports	07/31/11	07/26/11										

**Fiscal Year 2011 Consent Decree Milestone Status**

Milestone No.	Description	Due Date	Date Completed	On Schedule	At Risk	Recoverable	To Be Missed	Missed	In Litigation	Deleted	In Program Planning	In Abeyance	Dispute Resolution
D-00C-02J	Submit to Ecology and Oregon Monthly Summary Reports	08/31/11	08/24/11										
D-00C-02K	Submit to Ecology and Oregon Monthly Summary Reports	09/31/11	09/27/11										
D-00C-01C	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	07/31/11	07/27/11										

**Fiscal Year 2012 Consent Decree Milestone Status**

Milestone No.	Description	Due Date	Date Completed	On Schedule	At Risk	Recoverable	To Be Missed	Missed	In Litigation	Deleted	In Program Planning	In Abeyance	Dispute Resolution
D-00C-02L	Submit to Ecology and Oregon Monthly Summary Reports	10/31/11		X									
**D-00C-02M	Submit to Ecology and Oregon Monthly Summary Reports	11/30/11		X									
<b>** Future Monthly Reports will be added as necessary to maintain a two-months ahead activity.</b>													
D-00C-01D	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	01/31/12		X									
D-00C-01E	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	07/31/12		X									

## 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 Schedule**

**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 Schedule**

**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 Schedule**

**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 Schedule**

## SST Retrieval and Closure Program

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

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

Pursuant to the requirement at 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, and C-111.

**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 to 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 Schedule**

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

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

### Significant Past Accomplishments:

1. Initiated retrieval activities in C-107 using the MARS retrieval system.
2. Completed startup of POR107 exhauster in support of C-107 MARS operation.
3. Completed construction and plant forces activities for C-108 equipment installation for Hard Heel Removal.
4. Continued design and procurement for C-109 Hard Heel Removal equipment.
5. Completed construction activities for the installation of the C-112 Modified Sluicing system.

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

1. Complete the installation of the C-101 ventilation system and removal of legacy equipment.
2. Complete the installation of the C-102 ventilation system and removal of legacy equipment.
3. Continue with C-101 design development for installation of Modified Sluicing System.
4. Continue with C-102 design development for installation of Modified Sluicing System.
5. Complete C-107 bulk retrieval.

6. Start up of retrieval activities for C-108 hard heel.
7. Complete hard heel retrieval of C-108.
8. Start up of C-112 Modified Sluicing Retrieval System.
9. Complete C-112 bulk retrieval.

**Issues:**

None.

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

Tank	TWRWP	Expected Revisions	Retrieval Technology	Second Technology	Third Technology
C-101	RPP-22520	Projected revision early fall	MRS (per 10/7/10 agreement, to be Modified Sluicing)	-	-
C-102	RPP-22393	In Process	Modified Sluicing	MS-ITV	-
C-103	RPP-21895	Retrieval Completed			
C-104	RPP-22393	In Process	Modified Sluicing	MS-ITV	-
C-105	RPP-22520	Projected revision early fall	MRS	-	-
C-106		Retrieval Completed			
C-107	RPP-22393	In Process	MARS-S		
C-108	RPP-22393	In Process	Modified Sluicing	Chemical Dissolution	MS-ITV
C-109	RPP-21895	Following RPP-22393	Modified Sluicing	MS-ITV	-
C-110	RPP-33116	Following RPP-22393	Modified Sluicing	-	-
C-111	RPP-37739	Following RPP-22393	Modified Sluicing	-	-
C-112	RPP-22393	In Process	Modified Sluicing	MS-ITV	-

#### Significant Accomplishments:

- TWRWP Modification Notice 2011-3 for RPP-22393 was approved on 08/24/11.
- TWRWP Modification Notice 2011-2 for RPP-22393 was approved on 09/20/11.
- TWRWP Modification Notice 2011-5 for RPP-22393 was approved on 10/13/11.

#### Issues:

None

**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 schedule
D-00A-17	Hot Start of Waste Treatment Plant	12/31/2019	On schedule
D-00A-01	Achieve Initial Plant Operations for WTP	12/31/2022	On schedule

The WTP Project currently employs about 3,300 Full-Time Equivalent (FTE) contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel, including 1,300 craft, 570 non-manual, and about 205 subcontractor personnel FTEs working at the WTP construction site (all facilities). As of August 2011, the project is 61 percent complete, design and engineering is 83 percent complete, procurement is 64 percent complete, construction is 57 percent complete, and startup and commissioning is 13 percent complete.

The overall WTP Project schedule variance in August was a negative \$6.9M, the cost variance was a negative \$1.4M. The negative cost variance was due to Construction Piping and Engineering Design control accounts and the schedule variances came primarily from Plant Equipment.

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

**Significant Past Accomplishments:**

- Completed informational tests for the adequacy of Pulse Jet Mixers (PJM) mixing with various configurations to understand the impacts of these changes
- Mechanical systems design for the LAW facility is substantially complete.

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

- Complete erection of 4<sup>th</sup>-tier structural steel (77ft to 98ft elevation).
- Perform Large Scale Integrated Testing (LSIT) in 4ft and 8ft vessels for resolving mixing issues.
- Complete fabrication and delivery of C5 Ventilation System (C5V) dampers.
- Complete siding of High-Level Waste (HLW) Facility Annex.
- Complete installation of the Low-Activity Waste (LAW) Facility and LAB Autosampler systems.
- LAB Construction Complete.
- Complete construction of the Balance of Facilities (BOF) cooling tower.
- Complete construction of BOF switchgear building.

**Issues:**

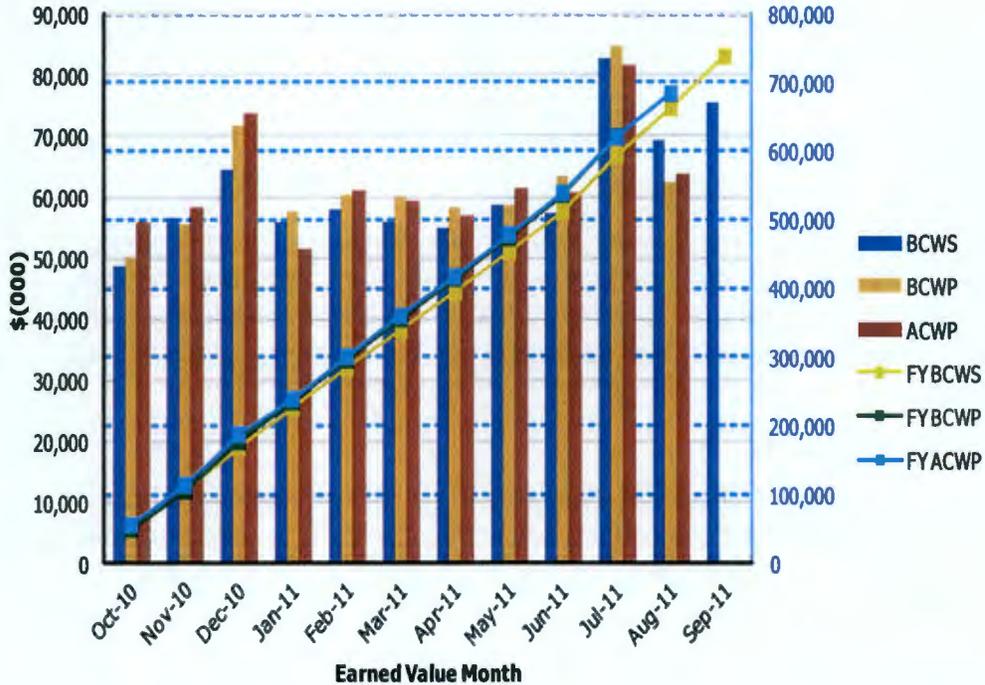
No significant issues at this time.

Data Set: FY 2011 Earned Value Data

Data as of: August 2011

**River Protection**  
**01-D-416 - Waste Treatment Plant (WTP) Project**

Monthly 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 2010	\$48,550	\$49,962	\$55,880	1.03	0.89	\$48,550	\$49,962	\$55,880	1.03	0.89
Nov 2010	\$56,608	\$55,427	\$58,449	0.98	0.95	\$105,158	\$105,389	\$114,329	1.00	0.92
Dec 2010	\$64,533	\$71,852	\$73,610	1.11	0.98	\$169,691	\$177,241	\$187,939	1.04	0.94
Jan 2011	\$55,988	\$57,756	\$51,327	1.03	1.13	\$225,679	\$234,997	\$239,266	1.04	0.98
Feb 2011	\$57,941	\$60,462	\$61,199	1.04	0.99	\$283,620	\$295,459	\$300,465	1.04	0.98
Mar 2011	\$56,009	\$60,032	\$59,335	1.07	1.01	\$339,629	\$355,491	\$359,800	1.05	0.99
Apr 2011	\$54,890	\$58,438	\$56,937	1.06	1.03	\$394,519	\$413,929	\$416,737	1.05	0.99
May 2011	\$58,530	\$58,722	\$61,263	1.00	0.96	\$453,049	\$472,651	\$478,000	1.04	0.99
Jun 2011	\$57,334	\$63,340	\$60,603	1.10	1.05	\$510,383	\$535,991	\$538,603	1.05	1.00
Jul 2011	\$82,643	\$84,827	\$81,479	1.03	1.04	\$593,026	\$620,818	\$620,082	1.05	1.00
Aug 2011	\$69,443	\$62,518	\$63,892	0.90	0.98	\$662,469	\$683,336	\$683,974	1.03	1.00
Sep 2011	\$75,503					\$737,972				
PTD	\$6,391,495	\$6,418,883	\$6,442,003	1.00	1.00					

**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 Schedule
D-00A-13	Complete Installation of Pretreatment Feed Separation Vessels	12/31/2015	On Schedule
D-00A-14	PT Facility Construction Substantially Complete	12/31/2017	On Schedule
D-00A-15	Start PT Facility Cold Commissioning	12/31/2018	On Schedule
D-00A-16	PT Facility Hot Commissioning Complete	12/31/2019	On Schedule

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. The PT Facility is 49 percent complete overall, with engineering design 79 percent complete, procurement 46 percent complete, and construction 38 percent complete.

**Significant Past Accomplishments:**

Rebar and embed installation and fabrication of rebar wall curtains continues to support additional slab and wall placements at the 56ft to 98ft elevations. Construction completions for September include placement of four 5<sup>th</sup> lift (77ft to 98ft elevation) walls (total of 427 CY), and placement of the sanitary sewer encasement for the Control Building (50 CY).

On-going work includes fabrication of piping modules, installation of drain piping, service air piping, cable trays and supports, ductwork, conduit, wall liner plates, and sparge tubing in the hot cell, and structural steel at the 77ft elevation.

Engineering continues to implement changes from the technical issue resolutions into Piping and Instrumentation Design (P&ID) and piping isometric drawings (issued 236). Issued re-committed design packages for the Radioactive Liquid Waste Disposal (RLD) and Steam Condensate Water (SCW) systems. Awards were made for the Resin and Aerosol Testing, and the High Efficiency Mist Eliminator (HEME). Bechtel National Inc., (BNI) report for TPA Milestone M-62-49 (due October 31, 2011) was completed and delivered to DOE on September 28, 2011.

An updated detailed execution plan for the design, procurement and installation of liner plates, jumper frames and equipment pads has been developed for the hot cell. Informational tests for the adequacy of Pulse Jet Mixers (PJM) with various configurations have been completed to understand the impacts of those changes. A number of tests have yielded positive results for mixing. These tests will be further validated by NQA-1 tests in the 4ft, 8ft and 14ft vessels. A new Integrated Project team (IPT) has been formed to support the resolution of the vessel mixing issue, and installation of vessels in the plant.

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

- Fabrication and delivery of initial hot cell equipment frames.

- Development of the PJM design and control strategy for resolving open issues with mixing and completion of vessel design.
- Perform Large Scale Integrated Testing (LSIT) in 4ft and 8ft vessels for resolving mixing issues.
- Complete 5<sup>th</sup> lift wall placements, eight 98ft slab placements, two 6<sup>th</sup> lift wall placements, and placements of the Control Building basemat.
- Set Hot Cell Vertical door drive mechanism replacement gearbox and switch.
- Complete Verification and Validation (V&V) of quantitative risk analysis for Hydrogen in Piping and Ancillary Vessels (HPAV).
- Install hot cell piping pulse jet ventilation header.
- Complete hazardous operations review for the Cesium Ion Exchange, Waste Feed Evaporator, and the HLW Lag Storage and Feed Blend Process systems.
- Complete nineteen mechanical systems re-committed design packages.
- Complete erection of 4<sup>th</sup> tier structural steel (77ft to 98ft elevation).
- Obtain Ecology approval of the permit packages to proceed with the alteration of the on-site vessels FRP -2A/B/C/D and UFP-62A/B/C in December 2011. These packages are scheduled to begin a public comment period in October 2011.

**Issues:**

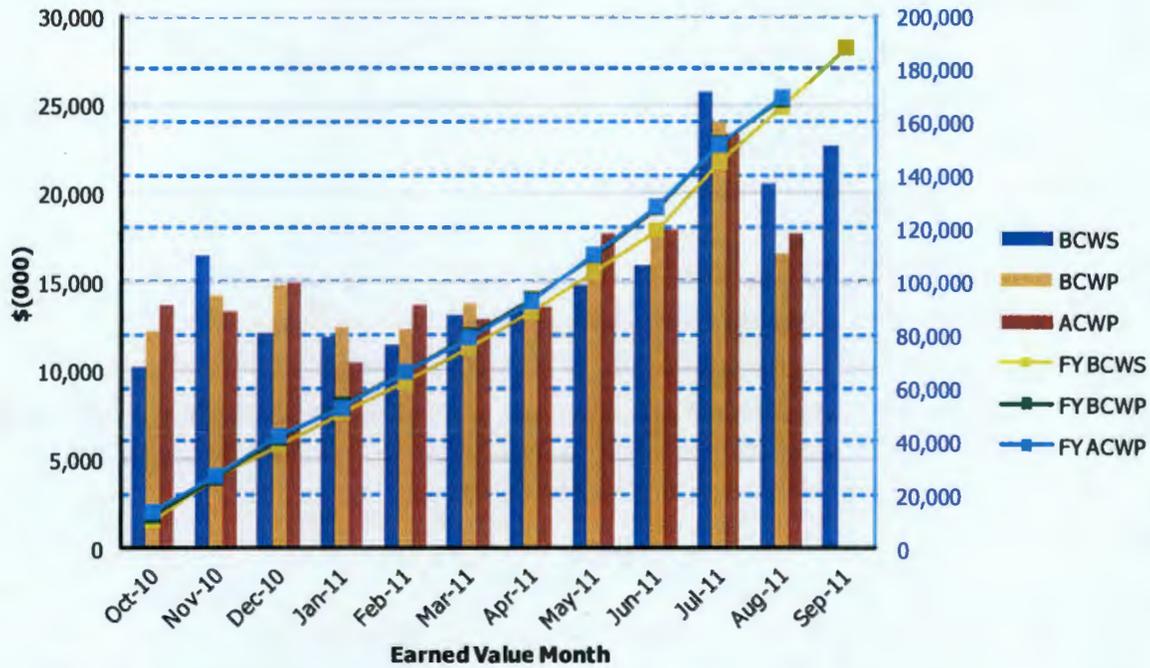
- **Vessel Critical Path:** Fabrication of vessel HLP-22 continues to be the primary critical path for the PT Facility. Recently a developing issue has prompted a redesign of PJM mounting hardware and a rework of the seismic analysis, which impacts critical path. BNI is applying focused management attention to meet the schedule.

Data Set: FY 2011 Earned Value Data

Data as of: August 2011

**River Protection**  
**01-D-16E - Pretreatment Facility**

Facility Specific (unallocated) Monthly and Fiscal-Year-to-Date (FY-TD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$10,196	\$12,179	\$13,730	1.19	0.89	\$10,196	\$12,179	\$13,730	1.19	0.89
Nov 2010	\$16,462	\$14,257	\$13,360	0.87	1.07	\$26,658	\$26,436	\$27,090	0.99	0.98
Dec 2010	\$12,060	\$14,788	\$14,869	1.23	0.99	\$38,718	\$41,224	\$41,959	1.06	0.98
Jan 2011	\$11,902	\$12,449	\$10,403	1.05	1.20	\$50,620	\$53,673	\$52,362	1.06	1.03
Feb 2011	\$11,428	\$12,373	\$13,692	1.08	0.90	\$62,048	\$66,046	\$66,054	1.06	1.00
Mar 2011	\$13,145	\$13,809	\$12,923	1.05	1.07	\$75,193	\$79,855	\$78,977	1.06	1.01
Apr 2011	\$13,444	\$13,497	\$13,533	1.00	1.00	\$88,637	\$93,352	\$92,510	1.05	1.01
May 2011	\$14,789	\$16,506	\$17,668	1.12	0.93	\$103,426	\$109,858	\$110,178	1.06	1.00
Jun 2011	\$15,909	\$17,928	\$17,968	1.13	1.00	\$119,335	\$127,786	\$128,146	1.07	1.00
Jul 2011	\$25,653	\$23,993	\$23,391	0.94	1.03	\$144,988	\$151,779	\$151,537	1.05	1.00
Aug 2011	\$20,509	\$16,619	\$17,678	0.81	0.94	\$165,497	\$168,398	\$169,215	1.02	1.00
Sep 2011	\$22,683					\$188,180				
PTD	\$1,221,689	\$1,233,437	\$1,202,695	1.01	1.03					

**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 Schedule
D-00A-02	HLW Facility Construction Substantially Complete	12/31/2016	On Schedule
D-00A-03	Start HLW Facility Cold Commissioning	6/30/2018	On Schedule
D-00A-04	HLW Facility Hot Commissioning Complete	12/31/2019	On Schedule

The High Level Waste (HLW) Facility will receive the separated HLW from the Pretreatment (PT) Facility. The concentrate is 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 are sealed and decontaminated prior to shipment to interim storage. The HLW Facility is 55 percent complete overall, with engineering design 86 percent complete, procurement 70 percent complete, and construction 36 percent complete.

**Significant Past Accomplishments:**

The build-out of the Filter Cave remains critical path for HLW. The five C5V filter housings were set in September, with two of the twenty dampers installed and two staged. Fabrication and installation of the transition spool pieces began in October. Sixteen of the twenty C5V dampers have completed fabrication at the vendor in Switzerland and have either been received or are in transit. The last four C5V dampers are in the final stages of fabrication. With the completion of the C5V dampers, the same vendor will immediately begin fabrication of the Pulse Jet Ventilation (PJV) System and later the HLW Melter Offgas (HOP) System remote-operated dampers. The two south HOP HEPA housings will be the next units installed in mid-October. The schedule for equipment installations and deliveries is being maintained and will support a completion of the Filter Cave build-out in May 2012.

Five concrete placements (for a sum of 333 cubic yards) were completed in September. The subcontractor has completed the roof and the insulated siding on the north face of the HLW Annex and is continuing the installation of siding of the west and south walls. It is expected the siding will be completed in November, a month ahead of plan. Electrical and piping commodities are progressing throughout the 21ft elevation and 0ft, including cooling water, cable trays and supports, and fire protection piping. Sub-Contractors are also continuing with applying special coatings, installing Heating, Ventilation, and Air Conditioning (HVAC) and fire protection piping, and liner plate installations.

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

- Complete fabrication and delivery of C5V dampers.
- Complete siding of HLW Annex.
- C5V housing and remote-operated damper installations.
- Receive Melter Feed Preparation vessel.
- Receive Plant Wash and Drains vessel (RLD-VSL-8).

**Issues:**

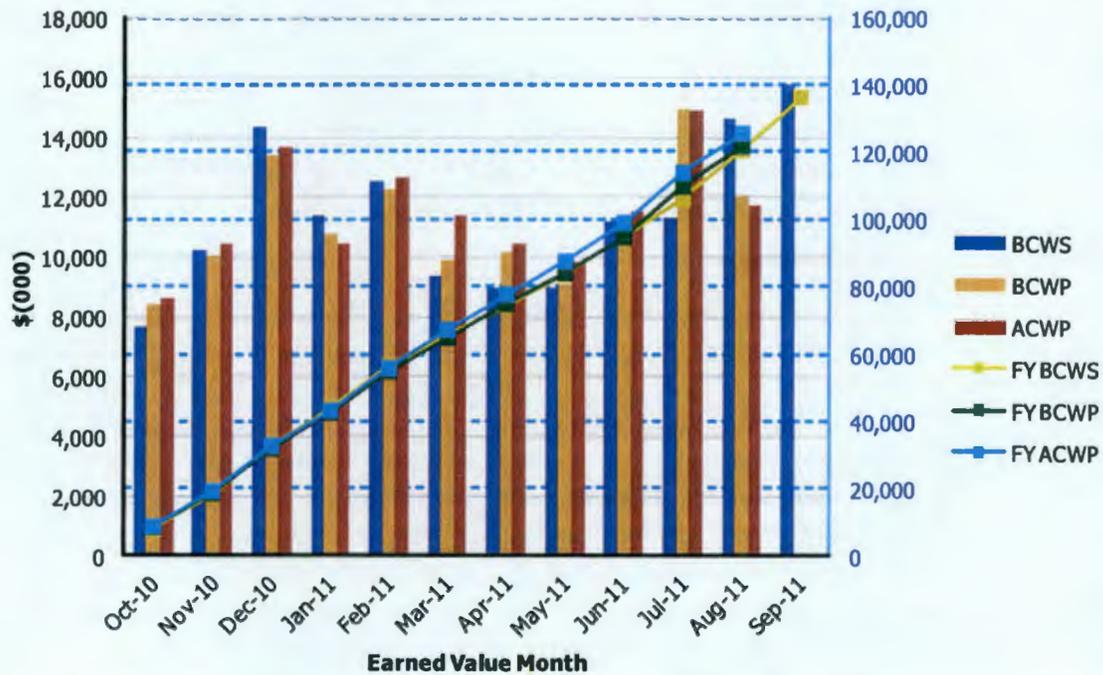
No significant issues at this time.

Data Set: FY 2011 Earned Value Data

Data as of: August 2011

**River Protection  
01-D-16D - High-Level Waste Facility**

Facility Specific (unallocated) Monthly and Fiscal-Year-to-Date (FY-TD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$7,653	\$8,413	\$8,615	1.10	0.98	\$7,653	\$8,413	\$8,615	1.10	0.98
Nov 2010	\$10,239	\$10,032	\$10,434	0.98	0.96	\$17,892	\$18,445	\$19,049	1.03	0.97
Dec 2010	\$14,364	\$13,384	\$13,697	0.93	0.98	\$32,256	\$31,829	\$32,746	0.99	0.97
Jan 2011	\$11,360	\$10,767	\$10,461	0.95	1.03	\$43,616	\$42,596	\$43,207	0.98	0.99
Feb 2011	\$12,550	\$12,224	\$12,651	0.97	0.97	\$56,166	\$54,820	\$55,858	0.98	0.98
Mar 2011	\$9,376	\$9,860	\$11,369	1.05	0.87	\$65,542	\$64,680	\$67,227	0.99	0.96
Apr 2011	\$8,930	\$10,154	\$10,445	1.14	0.97	\$74,472	\$74,834	\$77,672	1.00	0.96
May 2011	\$8,919	\$9,075	\$9,806	1.02	0.93	\$83,391	\$83,909	\$87,478	1.01	0.96
Jun 2011	\$11,189	\$10,734	\$11,504	0.96	0.93	\$94,580	\$94,643	\$98,982	1.00	0.96
Jul 2011	\$11,311	\$14,941	\$14,846	1.32	1.01	\$105,891	\$109,584	\$113,828	1.03	0.96
Aug 2011	\$14,636	\$12,025	\$11,708	0.82	1.03	\$120,527	\$121,609	\$125,536	1.01	0.97
Sep 2011	\$15,743					\$136,270				
PTD	\$815,155	\$820,833	\$814,663	1.01	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 schedule
D-00A-08	Start LAW Facility Cold Commissioning	12/31/2018	On schedule
D-00A-09	LAW Facility Hot Commissioning Complete	12/31/2019	On schedule

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 will be disposed on the Hanford Site in the Integrated Disposal Facility. The LAW Facility is 66 percent complete, with engineering design 88 percent complete, procurement 85 percent complete, and construction 65 percent complete.

**Significant Past Accomplishments:**

Mechanical systems design for the LAW facility is substantially complete. Electrical systems design continues in support of all equipment, controls, and lighting throughout the facility. A major emphasis currently for engineering is the review of vendor calculations and interactions for procurement of Secondary Offgas/Vessel Vent Process (LVP) system components. For example, this month Bechtel National Inc., (BNI) Engineering issued several control logic diagrams and functional diagrams for the LAW Container Receipt Handling (LRH), Primary Offgas Process (LOP), and Melter Equipment Support Handling (LSH) systems. Piping isometric drawings were issued for the Plant Cooling Water (PCW) and Carbon Dioxide Gas (CDG) systems. The east transformer concrete foundation plan and details drawing was issued. The 208/120-volt electrical distribution panel block diagram, termination/cable schedule, and power supply panel schedule was issued for the Uninterruptible Power Electrical (UPE) system.

Procurement activities for the LAW facility are currently focused on the LVP system components. The BNI/vendor interactions progressed well through the month. The first of these secondary offgas treatment system components to be delivered will be the Carbon Bed Adsorber (CBA).

The primary areas of construction focus currently are facility partition wall installation and equipment installation for the Container Finishing Handling (LFH) system. Other normal construction activities this month included installation of pipe and pipe hangers, sprinklers, electrical panels and grounding, scheduled cable tray and conduit, hatches and hatch covers, instrument enclosures, and lighting fixtures. For example, installation was completed on a hatch for the Melter Equipment Support Handling (LSH) system; construction continued with installation of the fire alarm system, Low-Voltage Electrical (LVE) equipment, air-handling units, humidifiers for the C2V ventilation system, bogie recovery equipment for the Container Finishing Handling (LPH) system, cranes for the LSH system, and inert fill hoppers, mono-rail hoist, and dual-rail hoist for the LFH system.

Integrated Control Network (ICN) development continued with software design and testing for the following systems:

- Melter Feed Process (LFP)
- Container Receipt Handling (LRH)
- Melter Equipment Support Handling (LSH)
- Melter Process (LMP)
- Container Export Handling (LEH)
- Primary Offgas Process (LOP)
- Secondary Offgas/Vessel Vent Process (LVP)

Plant-installed-software (PISW) system design documents were issued for the LOP and LMP systems.

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

- Complete vendor fabrication of the carbon bed adsorber.
- Install inert fill drop line.
- Install melter power supplies.
- Complete installation of the ASX system.

**Issues:**

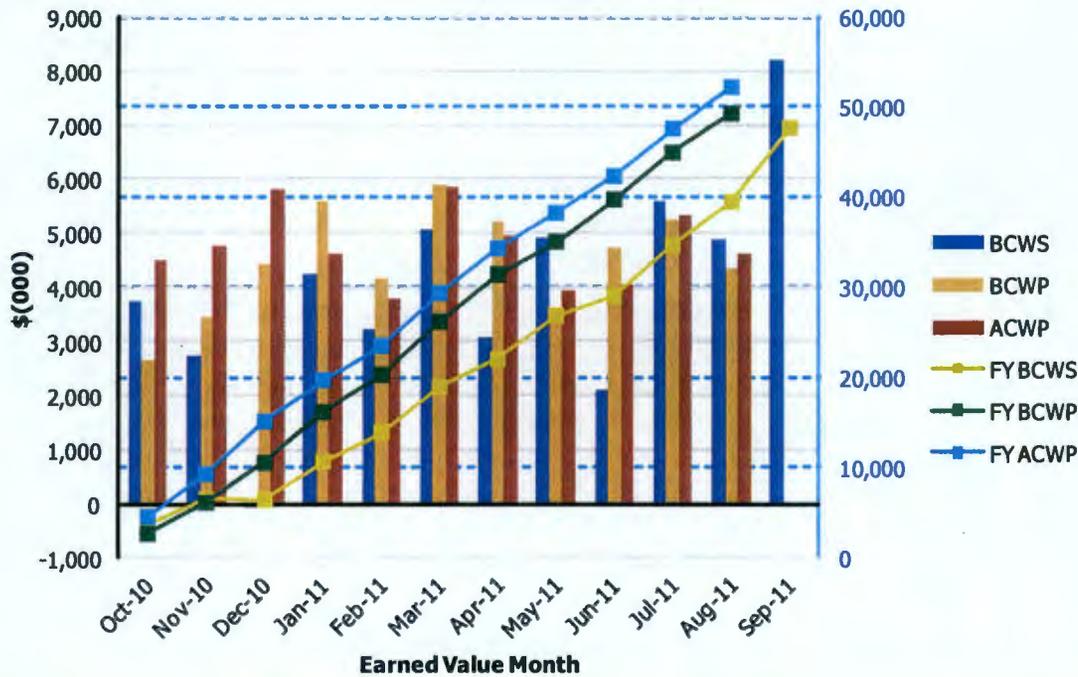
No major issues at this time.

Data Set: FY 2011 Earned Value Data

Data as of: August 2011

**River Protection  
01-D-16A - Low-Activity Waste Facility**

Facility Specific (unallocated) Monthly and Fiscal-Year-to-Date (FY-TD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$3,743	\$2,654	\$4,511	0.71	0.59	\$3,743	\$2,654	\$4,511	0.71	0.59
Nov 2010	\$2,732	\$3,462	\$4,752	1.27	0.73	\$6,475	\$6,116	\$9,263	0.94	0.66
Dec 2010	(\$84)	\$4,424	\$5,823	-52.67	0.76	\$6,391	\$10,540	\$15,086	1.65	0.70
Jan 2011	\$4,232	\$5,597	\$4,606	1.32	1.22	\$10,623	\$16,137	\$19,692	1.52	0.82
Feb 2011	\$3,222	\$4,153	\$3,778	1.29	1.10	\$13,845	\$20,290	\$23,470	1.47	0.86
Mar 2011	\$5,054	\$5,862	\$5,857	1.16	1.00	\$18,899	\$26,152	\$29,327	1.38	0.89
Apr 2011	\$3,062	\$5,210	\$4,930	1.70	1.06	\$21,961	\$31,362	\$34,257	1.43	0.92
May 2011	\$4,895	\$3,600	\$3,919	0.74	0.92	\$26,856	\$34,962	\$38,176	1.30	0.92
Jun 2011	\$2,089	\$4,713	\$4,057	2.26	1.16	\$28,945	\$39,675	\$42,233	1.37	0.94
Jul 2011	\$5,595	\$5,237	\$5,315	0.94	0.99	\$34,540	\$44,912	\$47,548	1.30	0.94
Aug 2011	\$4,870	\$4,353	\$4,615	0.89	0.94	\$39,410	\$49,265	\$52,163	1.25	0.94
Sep 2011	\$8,214					\$47,624				
PTD	\$628,014	\$630,203	\$675,259	1.00	0.93					

**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 Schedule

The Analytical Laboratory (LAB) will support the Hanford Tank Waste Treatment and Immobilization (WTP) operations by analyzing feed, vitrified waste, and effluent streams. The LAB is 47 percent complete overall, with engineering design 78 percent complete, procurement 74 percent complete, and construction 66 percent complete.

**Significant Past Accomplishments:**

Efforts at the LAB are focused on the successful completion of the LAB Construction Complete Milestone in December 2012. Installation of partition walls is currently in progress and installation of the autosampling system continues.

As the LAB is being constructed progress continues to be made in how the LAB will function during operations, and what capabilities are required. To further this knowledge Savannah River National Laboratory (SRNL) proposed some potential streamlining opportunities from reviews performed during feed qualification studies. Currently the baseline analytical methods for waste pre-qualification are being established. Identification of existing methods for analyses required by the Waste Feed Acceptance Criteria (WAC) Data Quality Objectives (DQO) document is complete. The identified methods and gaps are being reviewed by SRNL staff for applicability and methods development needs. The LAB team provided Operations' input to the *Laboratory Development of LAW-PTF Feed Base Simulant for Cold Commissioning* document. Specifically requesting an additional Objective and Criteria be added establishing the stability of the simulant. This is important because of the extended period that the simulant may be stored while the total volume needed is prepared.

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

- Install Autosampler HEPA filter housings frames.
- Complete installation of Autosampler System.
- Install can crusher
- Set pumps in C5 pit
- Install Hot Cell import/export motors

**Issues:**

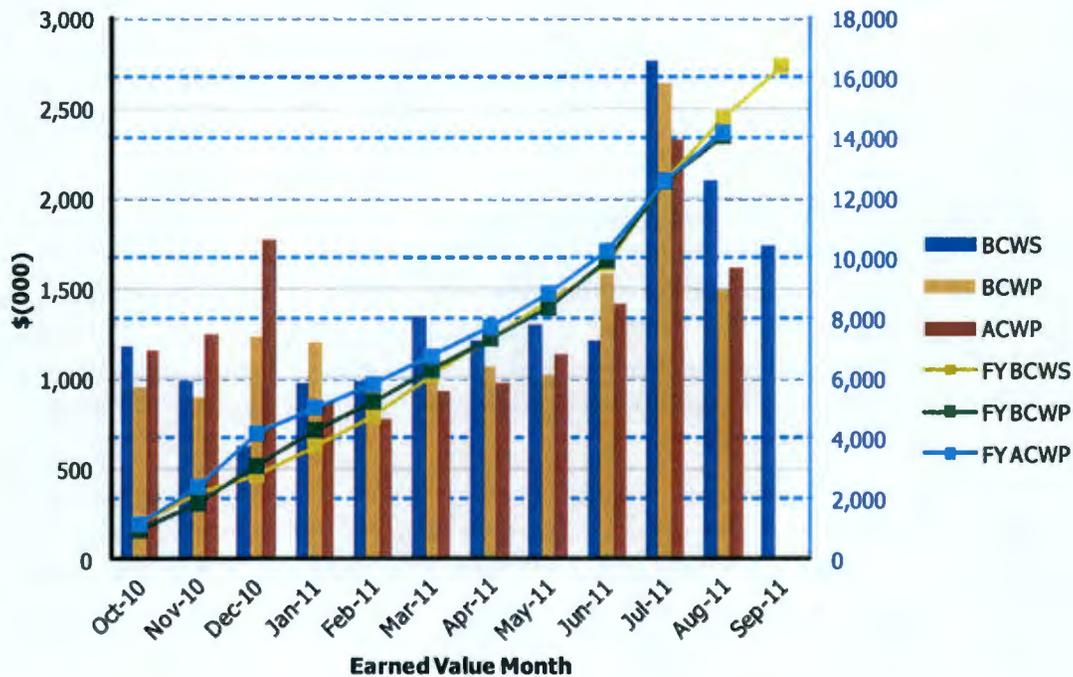
No major issues.

Data Set: FY 2011 Earned Value Data

Data as of: August 2011

**River Protection  
01-D-16B - Analytical Laboratory**

Facility Specific (unallocated) Monthly and Fiscal-Year-to-Date (FY-TD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$1,180	\$954	\$1,152	0.81	0.83	\$1,180	\$954	\$1,152	0.81	0.83
Nov 2010	\$984	\$893	\$1,245	0.91	0.72	\$2,164	\$1,847	\$2,397	0.85	0.77
Dec 2010	\$621	\$1,236	\$1,768	1.99	0.70	\$2,785	\$3,083	\$4,165	1.11	0.74
Jan 2011	\$971	\$1,198	\$869	1.23	1.38	\$3,756	\$4,281	\$5,034	1.14	0.85
Feb 2011	\$982	\$949	\$770	0.97	1.23	\$4,738	\$5,230	\$5,804	1.10	0.90
Mar 2011	\$1,350	\$1,039	\$924	0.77	1.12	\$6,088	\$6,269	\$6,728	1.03	0.93
Apr 2011	\$1,210	\$1,059	\$974	0.88	1.09	\$7,298	\$7,328	\$7,702	1.00	0.95
May 2011	\$1,299	\$1,018	\$1,133	0.78	0.90	\$8,597	\$8,346	\$8,835	0.97	0.94
Jun 2011	\$1,213	\$1,579	\$1,413	1.30	1.12	\$9,810	\$9,925	\$10,248	1.01	0.97
Jul 2011	\$2,755	\$2,634	\$2,325	0.96	1.13	\$12,565	\$12,559	\$12,573	1.00	1.00
Aug 2011	\$2,093	\$1,489	\$1,611	0.71	0.92	\$14,658	\$14,048	\$14,184	0.96	0.99
Sep 2011	\$1,735					\$16,393				
PTD	\$167,935	\$166,434	\$178,862	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 Schedule

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 47 percent complete overall, with engineering design 73 percent complete, procurement 47 percent complete, and construction 62 percent complete.

**Significant Past Accomplishments:**

Construction efforts for the BOF facilities are focused on supporting turnover of the first facility in 2012, and numerous other facilities in 2013. This goal was progressed by commencing placement of the base slab for anhydrous ammonia storage and continued commodity installation in the Glass Former Storage Facility, Chiller Compressor Plant, and Diesel Fuel Oil facility. The framework and precedence for facility turnover will be established following completion of the Switchgear Building (B87). Meetings are being held bimonthly to facilitate an efficient completion, testing, and turnover plan.

Bechtel National Inc., (BNI) continues to work closely with the Emergency Turbine Generator (ETG) vendor. The first steps in the process, which clarify the contract scope and identify safety functions and age related failure mechanisms, have been completed. Over the next several months the BNI engineering team will continue working with the vendor to identify code, standard, and specification requirements.

The Defense Nuclear Facilities Safety Board (DNFSB) recently issued a letter concerning the hazards and controls associated with the anhydrous ammonia system. Responses to the Board's questions are currently being generated by BNI. The ammonia vessel and vaporizer skid are currently being manufactured and are scheduled to be on site before the end of December 2011.

**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.
- Receive anhydrous ammonia system.

**Issues:**

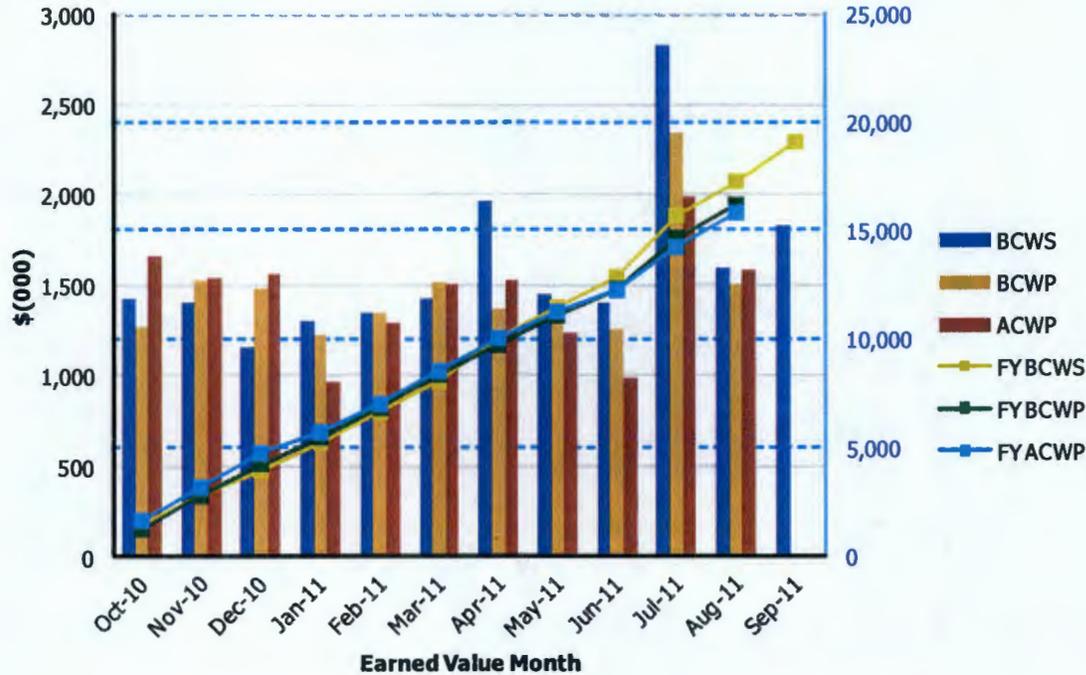
No major issues.

Data Set: FY 2011 Earned Value Data

Data as of: August 2011

**River Protection**  
**01-D-16C - Balance of Facilities**

Facility Specific (unallocated) Monthly and Fiscal-Year-to-Date (FY-TD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$1,428	\$1,272	\$1,660	0.89	0.77	\$1,428	\$1,272	\$1,660	0.89	0.77
Nov 2010	\$1,398	\$1,520	\$1,539	1.09	0.99	\$2,826	\$2,792	\$3,199	0.99	0.87
Dec 2010	\$1,150	\$1,475	\$1,558	1.28	0.95	\$3,976	\$4,267	\$4,757	1.07	0.90
Jan 2011	\$1,302	\$1,224	\$960	0.94	1.28	\$5,278	\$5,491	\$5,717	1.04	0.96
Feb 2011	\$1,347	\$1,346	\$1,288	1.00	1.05	\$6,625	\$6,837	\$7,005	1.03	0.98
Mar 2011	\$1,429	\$1,518	\$1,505	1.06	1.01	\$8,054	\$8,355	\$8,510	1.04	0.98
Apr 2011	\$1,962	\$1,363	\$1,524	0.69	0.89	\$10,016	\$9,718	\$10,034	0.97	0.97
May 2011	\$1,442	\$1,352	\$1,237	0.94	1.09	\$11,458	\$11,070	\$11,271	0.97	0.98
Jun 2011	\$1,400	\$1,253	\$980	0.90	1.28	\$12,858	\$12,323	\$12,251	0.96	1.01
Jul 2011	\$2,824	\$2,347	\$1,984	0.83	1.18	\$15,682	\$14,670	\$14,235	0.94	1.03
Aug 2011	\$1,594	\$1,501	\$1,586	0.94	0.95	\$17,276	\$16,171	\$15,821	0.94	1.02
Sep 2011	\$1,830					\$19,106				
PTD	\$252,543	\$250,537	\$247,736	0.99	1.01					

**Waste Treatment Plant Project - Percent Complete Status  
Through August 2011**

(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
Low-Activity Waste	955.2	630.2	66%	229.6	203.1	88%	235.0	199.6	85%	342.5	221.1	65%	148.1	6.4	4%
Analytical Lab	351.2	166.4	47%	55.0	43.0	78%	56.1	41.8	74%	104.9	69.5	66%	135.2	12.1	9%
Balance of Facilities	530.2	250.5	47%	84.3	61.2	73%	80.9	37.7	47%	229.0	141.6	62%	136.1	10.0	7%
High-Level Waste	1,488.6	820.8	55%	342.5	294.6	86%	454.5	317.5	70%	573.8	204.3	36%	117.8	4.4	4%
Pretreatment	2,495.0	1,233.4	49%	698.0	549.3	79%	715.7	332.2	46%	898.7	345.8	38%	182.6	6.0	3%
Shared Services	4,747.0	3,317.4	70%	1,052.2	895.9	85%	467.7	365.6	78%	1,421.6	1,046.7	74%	455.8	116.8	26%
Total WTP w/o UB	10,567.2	6,418.9	61%	2,461.6	2,047.2	83%	2,009.8	1,294.3	64%	3,570.5	2,029.1	57%	1,175.6	155.8	13%
Undistributed Budget	0.0	n/a	n/a	n/a	n/a	n/a									
Total WTP	10,567.2	6,418.9	61%	2,461.6	2,047.2	83%	2,009.8	1,294.3	64%	3,570.5	2,029.1	57%	1,175.6	155.8	13%

Source: WTP Contract Performance Report - Format 1, Data for August 2011

Note: Starting with the June 2009 report, facility Construction percent complete values decreased significantly, and a couple of Design/Engineering facility percent complete values went down as well. The decrease in values was tied to Phase I of BNI's elimination of WBS 1.08, Plant Wide EPCC; scope from WBS 1.08 was moved to facilities as appropriate or to WBS 1.90, Shared Services. This resulted in an increase in the facility construction budgets, which has correspondingly reduced the to-date percent complete values. In July 2010 the allocation of 1.90 to the facilities was removed to show true facility percent complete.

**WORKING ORP Key Documents List  
For October 25, 2011**

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 PA Ecological Risk Assessment Data Package, RPP-RPT-49425, Rev 0		04/19/11			B. Lober	K. Smith	J. Lyon	<ul style="list-style-type: none"> <li>Feeds input for M-045-61 and all Closure Plans</li> <li>Document was posted on the working group website with email notification on 04/19/11</li> </ul>
	Supports M-045-61	WMA C Characterization Summary 2011		TBD			B. Lober	K. Smith	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 PA Initial Model Run Data Package		05/31/12			C. Kemp	K. Smith	J. Lyon	<ul style="list-style-type: none"> <li>Feeds input for M-045-61 and all Closure Plans</li> </ul>
	Supports M-045-61	WMA C PA Initial Document		08/31/12			C. Kemp	K. Smith	J. Lyon	<ul style="list-style-type: none"> <li>Feeds input for M-045-61 and all Closure Plans</li> </ul>
	Supports M-045-61	WMA C Characterization Summary 2012		09/30/12			B. Lober	K. Smith	J. Lyon	<ul style="list-style-type: none"> <li>Feeds input for M-045-61 and all Closure Plans</li> </ul>
	Supports M-045-61	WMA C Characterization Summary 2013		09/30/13			B. Lober	K. Smith	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 RCRA Facility Investigation/Corrective Measures Study Report for WMA C	12/31/14	12/31/14			B. Lober	K. Smith	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			B. Lober	K. Smith	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	K. Smith	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> </ul>
	M-045-80 (S) <sup>5</sup>	RCRA/CERCLA Integration White Paper	01/31/11	12/28/10	05/27/11		C. Kemp	K. Smith	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>ECY review comment record (RCR) letter 11-NWP-051 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 09/25/11.</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."

<sup>5</sup> (S) = Secondary Document: Interim step in decision making; does not reflect key decisions. (P) = Primary Document: Key data and reflects decisions on how to proceed.

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**WORKING ORP Key Documents List  
For October 25, 2011**

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
Complete portions of the C-200 Closure Demonstration Plan necessary to complete closure plan development for the SST system (continued).	M-045-80 (S)	Tank Removal Engineering Study	01/31/11	12/28/10	05/30/11	09/29/11	C. Kemp	K. Smith	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 letter for review extension to 04/18/11 received by ORP 01/13/2011</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-047 received by ORP on 05/31/11.</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>RCR signed by ECY on 09/29/11 with all issues closed.</li> </ul>
	M-045-80 (S)	Evaluation of Alternatives for Removal of Waste from the C-301 Catch Tank	01/31/11	12/28/10	05/30/11		C. Kemp	K. Smith	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>ECY comments letter 11-NWP-045 received by ORP on 05/27/11.</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> </ul>
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	K. Smith	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> </ul>
	Supports M-045-81	Update C Closure Demonstration Plan		TBD			C. Kemp	K. Smith	J. Lyon	<ul style="list-style-type: none"> <li>Feeds input to M-045-81</li> <li>Awaiting language decision for LDR.</li> </ul>
	M-045-81	Other Closure Demonstration Deliverables	09/30/14				C. Kemp	K. Smith	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-045-91C	Implement DQO Process, Test Plan to Evaluate the Chemistries	09/30/11	09/30/11		09/15/11	J. Johnson	R. Gregory	J. Lyon	<ul style="list-style-type: none"> <li>DQO meeting held 4/27/11. Finalizing DQO report with ECY comment incorporation. Draft Test plan provided to ECY for informal review and comment on 7/12/11.</li> <li>Provided to ECY via DOE Letter 11-TPD-057 on 09/15/11.</li> </ul>
	M-045-91G-T01	Provide AOR Final Doc. for SSTs on 530,000 Gallon Tanks	09/30/11	09/30/11		09/15/11	J. Johnson	R. Gregory	J. Lyon	<ul style="list-style-type: none"> <li>Provided to ECY via DOE Letter 11-TPD-064 on 09/15/11.</li> </ul>
	M-045-91B	DOE Submit a Sampling and Analysis Plan to Ecology	12/30/11	12/30/11		09/20/11	J. Johnson	R. Gregory	J. Lyon	<ul style="list-style-type: none"> <li>SAP has been provided to ECY for informal review.</li> <li>Provided to ECY via DOE Letter 11-TPD-069 on 09/20/11.</li> </ul>
	M-045-91F-T01	Provide Report of the Liquid Leak Rate Assessments	01/31/12	01/31/12			J. Johnson	R. Gregory	J. Lyon	<ul style="list-style-type: none"> <li>On-going bi-weekly meetings.</li> </ul>
	M-045-91F-T02	Provide Report of Liner Failures for SSTs	07/31/13	07/31/13			J. Johnson	R. Gregory	J. Lyon	<ul style="list-style-type: none"> <li>On-going bi-weekly meetings.</li> </ul>
M-045-91G-T02	Provide AOR Final Doc. for SSTs on 750,000 Gallon Tanks	01/31/12	01/31/12			J. Johnson	R. Gregory	J. Lyon	<ul style="list-style-type: none"> <li>Currently on schedule for submittal to ECY in November, 2011.</li> </ul>	

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For October 25, 2011**

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
M-45-91 Interim Milestones and Target Dates (continued)	M-045-91G-T06	Provide Report of the Visual Inspection of 12 SSTs M-045-91G-T05	03/31/12	03/31/12			J. Johnson	R. Gregory	J. Lyon	
	M-045-91G-T03	Provide AOR Final Doc. for SSTS on 1,000,000 Gallon Tanks	09/31/12	09/31/12			J. Johnson	R. Gregory	J. Lyon	• Currently on schedule for submittal to ECY in February, 2012.
	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-T03	Provide Report on Testing for Ionic Conductivity of SSTs	05/31/13	05/31/13			J. Johnson	R. Gregory	J. Lyon	• Currently on schedule for submittal to ECY in September, 2011.
	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	• Ongoing meetings every other week through 2012.
	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	• Currently on schedule for submittal to ECY in September, 2012.
	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	
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			B. Lober	K. Smith	J. Lyon	
	M-045-92	Future Barrier Design 4	06/30/14	06/30/14			B. Lober	K. Smith	J. Lyon	

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For October 25, 2011**

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 as an Agreement Primary Document a Catch Tank "assumed leak" Response Plan.	M-045-100 (P)	Catch Tank "Assumed Leak" Response Plan (RPP-PLAN-48438)	12/28/10	12/28/10	05/30/11	10/05/11	C. Kemp	K. Smith	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 Notice of Violation (NOV) received via letter 11-NWP-038 on 05/25/11. Included 3 criteria, 3 responses, and ECY RCR.</li> <li>ORP initiated dispute of NOV via letter 11-TF-065 on 06/01/11.</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>Agreement to extend dispute at PM level to 08/31/11 delivered by ORP to ECY on 06/22/11. ECY approval on 06/29/11.</li> <li>AIP for path forward transmitted by DOE letter 11-TF-089 on 08/23/11.</li> <li>Signed by DOE and ECY and documented via ECY letter 11-NWP-099 on 08/25/11.</li> <li>Updated document provided to ECY via DOE letter 11-TF-090 on 08/29/11.</li> <li>ECY letter 11-NWP-110 approved milestone and dismissed the NOV on 09/26/11.</li> <li>DOE dismissed the dispute with ECY via letter 11-TF-107 on 09/28/11.</li> <li>DOE filed to dismiss dispute PCHB on 09/29/11, PCHB formally dismissed the dispute on 10/05/11.</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	K. Smith	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> </ul>
Submit a System Plan to Ecology describing the disposition of all tank waste managed by ORP, including retrieval of all tanks not addressed by the Consent Decree, and the completion of the treatment mission	M-062-40B	Submit System Plan	10/31/11	10/31/11			R. Koll / D. Smith	C. Burrows	J. Lyon	<ul style="list-style-type: none"> <li>DOE ORP Letter in concurrence to submit the plan.</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	
System Plan – WTP Report to Demonstrate WTP Design Meets Vitrification Efficiencies	M-062-49	Submit Report to ECY Demonstrating WTP Design Meets Vitrification Criteria	10/31/11	10/31/11			D. Noyes		D. McDonald	<ul style="list-style-type: none"> <li>DOE ORP Letter in concurrence to submit the report.</li> </ul>
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	

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

**WORKING ORP Key Documents List  
For October 25, 2011**

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	05/31/12			C. Kemp	S. Eberlein	J. Lyon	
	Tier 2 WMA C Closure Plan	05/31/12			C. Kemp	S. Eberlein	J. Lyon	
	WMA C Closure Conceptual Design	09/30/12			C. Kemp	S. Eberlein	J. Lyon	
	All Remaining Closure Plans for WMA C	09/30/15			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
	<b>DST Exhausters Notice of Construction and HIA</b>	<b>09/30/11</b>		<b>09/29/11</b>	<b>L. Huffman</b>	<b>F. Miera</b>	<b>J. Lyon</b>	• <b>Received from WDOH, ORP completed action on 09/29/11.</b>
	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	Submit Categorical TOC HIA	TBD				F. Miera	J. Lyon	
	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 set for 05/25/11.
TWRPS DOCUMENTS	Please see ORP Monthly Consent Decree 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."

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

## Baseline clarification and detail requests

wtp	Line item	Name	Additional information	Page
	General	Precursor/ Dependant/Independent	None noted does USDOE have that in the Baseline?	
	General		What is the definition of "Critical (After)"	1
y	5.03.09.05.04.01	Tc-99 recycle LAW	What are the criteria that will be used for the SOW	1
y	5.03.01.07.01.01	Prelim. WFD flow-sheets	Provide deliverable to Ecology (100% complete)	4
	5.02.01.01.02.01	SST Ret, Operator training	Provide detail, is it being impacted by the layoffs	4
	5.02.04.01.01.01	C2.2.2.2-1 integrated SST WMA closure plan	Provide deliverable to Ecology (100% complete), define and provide elements of this WBS	8
	5.02.05.06.*.*	Tier 3 Closure plans (7)	Definition and elements of schedule/costs, @ 160 days per tank and 96 days for comments	9, 10
	5.01.01.04.01.01	Core procedure program	Definition and elements	9
y	5.03.07.03.02.01	Semi-annual ORR	Provide deliverable - WTP ORR annual report	17
y	5.03.01.07.03.01	WFD tank mixing and sampling project management	Definition and elements – just starting	21
y	5.03.07.05.01.01	Coordinate WTP interface Control Program	Definition and elements – started at beginning of FY2011	21
y	5.03.10.01.02.01	CD-0 for Secondary Treatment and Alternatives analysis	Provide both deliverable to Ecology (100% complete)	21
y	5.03.10.01.05.01	Down select alternatives	Provide deliverable to Ecology (100% complete)	22
	5.02.05.06.17(&18).01	CT and CR vault projects	Projects end on 11/3/2017 and 10/6/2017, duration 1285 days provide definition and elements	23
y	5.03.06.06.04.01	Interim Hanford storage conceptual design	Definition and elements – started April 11, 2011, provide alternatives analysis; will work be complete June 29, 2012 for CD-1	23
?	5.02.04.02.05.02	Risk assessment technical activities	Provide laboratory results and waste release testing, one tank (100% complete); Definition and elements of this WBS, with project need and implementation	25
	5.02.01.04.01.02	Interim measures documentation of FY12 plans	Provide deliverable to Ecology (100% complete); Definition and elements	25
	5.02.01.01.01.02	Manage retrieval project controls	Definition and elements – started at beginning of FY2011;	26

wtp	Line item	Name	Additional information	Page
	5.06.01.04.03.02	C vaults & Pits characterization and D&D&D	Definition and elements – 200 day duration; USDOE has identified this as “Critical (After)”, completion 3/23/2017	27
	5.02.02.06.02.02	C-102 Retrieval Design and Engineering	is it being impacted by the layoffs, why is this Critical (After)	28
?	5.03.06.04.05.02	HSF Design (Capital)	Critical (After), preliminary design due 10-30-2019 ; Definition and elements	35
	5.02.04.02.03.03	Draft Tier 2 Closure Plan and Framework Closure Tier 1	Provide both deliverable to Ecology (100% complete); issue plan 5-31-2013 -0 is this on schedule, for final delivery on 9-3-2014	47
	5.02.01.04.03.03	Direct Push	Definition and elements – USDOE has identified elements as “Critical (After)”, what impacts will the layoff have on this WBS	47-48
	<b><u>5.02.05.06.14.03</u></b>	<b><u>C-farm Closure cap</u></b>	<b><u>USDOE has identified elements as “Critical (After)”; This element starts construction on 10-13-2020, Milestone due date (listed on your baseline) is 9/2019; I thought baseline was compliant, this indicates that the baseline is not compliant</u></b>	<b><u>48</u></b>
	5.02.02.06.02.04	C-102 contract award	Due 12-29-2011; USDOE has identified elements as “Critical (After)”; is this affected by any other contractor activities, or USDOE directives	54
	5.01.05.01.03.04	Shop equipment	Definition and elements; USDOE has identified elements as “Critical (After)”	55
		<b><u>Stopped detailed notes and review</u></b>		
		<b><u>No WBS line item for the Technology development needed to retrieve these tanks</u></b>	<b><u>A-101, A-103, AX-101 USDOE self identified these tanks as similar rheology as the S-102 tank. For the S-102 tank there is no well understood technology capable of retrieving this type of “heel”, per change request.</u></b>	
		A-101 retrieval design	Start 9-15-2016	30
		AX-101 procurement	Start 5-26-2015	43
y	5.01.05.01.02.03	Central Scheduling, Project Integration	Definition and elements – started at beginning of FY2011, work products and success criteria	43
		AX-101 installation	Start 11-12-2015	55
		A-101, 103 retrieval	63, and 89 days for retrieval MS, 2016	68
	5.02.02.01.01(&03).08	RDR for A-101, 103	Submitted 2019 – TPA requires within 1 year of completion of retrieval	74
		AX-101 Hard Heel retrieval	2016, 107 day duration; Provide basis for short retrieval duration?	76

ORP Project Managers Meeting  
October 25, 2011  
2440 Stevens Ctr.  
Richland, Washington  
**Meeting Minutes Transmittal**

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

**(3 pages including this coversheet)**

**ORP TPA Project Managers Meeting  
 Tuesday, October 25, 2011  
 2440 Stevens Center Richland, Washington  
 Room 2311, 9:00AM-12:00PM**

**AGENDA**

**1.0 Administrative Items**

- Previous months' minutes approval
- Discussion of meeting minutes (15 minutes)

**2.0 Review of the ORP Project Summary**

- Action Item List – per Project Manager
- Key Documents List – per Project Manager

**3.0 Agreements**

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

Item Description	TPA/CD Topic or Milestone Tie	TPA Admin Record – EDMC File Number
ORP September 2011 TPA Report	All	0099271
ORP September 2011 CD Report	All	0099272
Signed Review Comment Record (RCR) for 241 Tank Farm Tank Removal Study RPP-RPT-47167 Revision 0	M-045-80	0099394
ORP/ECY TWRWP Modification; <u>Notice Number 2011-5</u> : RPP-22393 Rev. 5, 241-C-102, 241-C-104, 241-C-107, 241-C-108, 241-C-112	TWRWP	0099664
ORP/ECY TWRWP Modification; <u>Notice Number 2011-2</u> : RPP-22393 Rev. 5, 241-C-102, 241-C-104, 241-C-107, 241-C-108, 241-C-112	TWRWP	0099771
TOC-ENV-NOT-2011-0009: Submittal of the Installation and Operations Activities Schedule for SST Retrieval Exhausters Approved by ECY Approval Order DE05NWP-002, Revision 2	Retrieval	Handout for October PMM Meeting Minutes

**5.0 Upcoming Meetings**

- The Dry-Run for the November Quarterly is scheduled for Thursday, November 10, 2011. **\*NOTE: This is an in lieu of holiday for Veteran's Day for AWS Schedule.\***
- The November ORP Quarterly is scheduled for Thursday, November 17, 2011.

<b>Page</b>	<b>Topic</b>	<b>Leads</b>	<b>Time</b>
TPA 1 / CD 1	Statistics / Status / Minutes Discussion	Woody Russell / Dan McDonald / Jeff Lyon	9:00
TPA 6	Single-Shell Tank Corrective Action; M-45, -50, -60	Bob Lober / Jeff Lyon	9:20
TPA 8 / CD 5	Single-Shell Retrieval and Closure Program TPA Milestones Status; M-45-00 series, <ul style="list-style-type: none"> <li>- Tank in Appendix H Status</li> <li>- C-Farm Critical Path</li> <li>- Tanks with Individual Milestones</li> <li>- Double-Shell Tank Closure</li> <li>- 242-A Evaporator Status</li> </ul> SST Retrieval and Closure CD Milestones and TWRWP Status; D-00B series	Chris Kemp / Dan Knight / Jeff Lyon	9:35
TPA 18	SST Integrity Assurance; M-45-91	Jeremy Johnson / Michelle Hendrickson	9:55
TPA 21	In Tank Characterization and Summary	Jeremy Johnson / Michael Barnes	10:00
TPA 22	Tank Operations Contract (TOC) Overview	Dan Knight / Jeff Lyon	10:05
TPA 27	Acquisition of New Facilities; M-90-00; M-47-00	Janet Diediker / Jeff Lyon / Dan McDonald	10:20
TPA 28	Supplemental Treatment and Part B Permit Applications; M-62-00, -20, -30, -45	Steve Pfaff / Jeff Lyon / Dan McDonald	10:25
TPA 29	System Plan; M-62-40	Dabrisha Smith / Jeff Lyon / Dan McDonald	10:30
<b>BREAK</b>			
TPA 30 / CD 8	WTP Overall TPA and CD Summary and Milestones Status; M-62-01; M-62-49; D-00A-01, -06, -17	Delmar Noyes / Dan McDonald	10:45
TPA 32 / CD 10	WTP Pretreatment (PT) Facility; D-00A-13, -14, -15, -16, -19	Wahed Abdul / Dan McDonald	10:55
TPA 34 / CD 13	WTP High-Level Waste (HLW) Facility; D-00A-02, -03, -04, -21	Gary Olsen / Dan McDonald	11:05
TPA 35 / CD 15	WTP Low-Activity Waste (LAW) Facility; D-00A-07, -08, -09	Jeff Bruggeman / Dan McDonald	11:15
TPA 37 / CD 18	WTP Analytical Laboratory (LAB); D-00A-05	Jason Young / Dan McDonald	11:20
TPA 38 / CD 21	WTP Balance of Facilities (BOF); D-00A-12	McDonald	11:25