

ORP Project Managers Meeting  
March 27, 2012  
2440 Stevens Ctr.  
Richland, Washington  
Meeting Minutes Transmittal

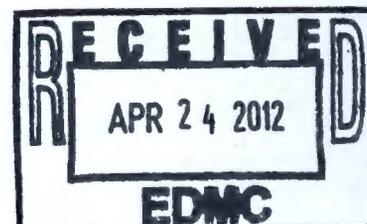
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**Distribution:**

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A.S. Carlson	Ecology	H0-57
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J. J. Lyon	Ecology	H0-57
J. D. McDonald	Ecology	H0-57
J. Price	Ecology	H0-57
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J.W. Donnelly	WRPS	H3-26
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S. E. Killoy	WRPS	H6-14
R. J. Skwarek	WRPS	H3-28
R. A. Kaldor	MSA	H7-28
R. E. Piippo	MSA	H7-28

ADMINISTRATIVE RECORD – Heather Childers: H6-08

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



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

CK Kemp  
Chris Kemp, DOE-ORP Date: 4-24-12

Wahed Abdul  
Wahed Abdul, DOE-ORP Date: 4/24/12

Jason Young  
Jason Young, DOE-ORP Date: 4/24/12

Jeff Bruggeman  
Jeff Bruggeman, DOE-ORP Date: 4/24/12

Gary Olsen  
Gary Olsen, DOE-ORP Date: 4-24-12

Michelle Baine for J. Lyon  
J. Lyon, Project Manager,  
Washington State Department of Ecology Date: 4-24-12

J.D. McDonald  
J.D. McDonald, Project Manager,  
Washington State Department of Ecology Date: 4-24-12

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Purpose: ORP Project Managers Meeting

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## **1.0 Administrative Items**

- Recent Items Entered/To be Entered into the TPA Administrative Record

(See list on today's agenda)

- ORP reported that in accordance with advice from legal counsel, all of the milestones associated with the Waste Treatment Project (WTP), with the exception of M-062-01, will be covered in the Consent Decree (CD) report only. ORP stated that the process for preparing the CD report has a long review time, and a hard copy of the CD will be provided at the time of the PMMs and quarterly TPA milestone meetings. Ecology raised a concern about the process, noting that it does not allow Ecology the opportunity to review the CD report or time for interaction with the technical group prior to the meeting, and it may cause the meeting to be extended or leave some items unfinished. ORP noted Ecology's concern, and will capture it as an issue on the on the agreements, issues and actions list, and will also raise the issue to senior management.
- The January 24, 2012 PMM minutes were circulated for signature. The February 2012 ORP meeting was a TPA quarterly milestone meeting, and the minutes were previously approved.

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

### **Tank Farms**

Tri-Party Agreement and Consent Decree (TPA and CD) Milestone Status - ORP noted that milestone M-045-92L for barrier 1 construction complete is to be missed, and M-045-92O to provide barrier 3 design and monitoring submittal to Ecology is at risk (see discussion under M-45, -50, -60). ORP presented Ecology with a draft change package for review regarding Milestone M-047-06, which is to complete negotiation of two interim milestones associated with the Secondary Liquid Waste project. Following Ecology's review of the draft change package, a meeting will be scheduled to either agree to the draft change package or pursue a different path forward. The draft change package proposes moving the milestone out six months and to combine it with the M-090-11 milestone. The reason for moving the milestone out six months is the parties are going through the Critical Decision reporting process, and when that process is

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completed more data will be available to move forward and create a better set of milestones. Ecology will check with its management's schedules, and suggested that ORP remain in contact over the next ten days and then determine a path forward.

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

M-045-58 - ORP reported on the new developments for this milestone. ORP noted that the disposition of the primary document associated with this milestone has been extended based on two outstanding issues: a RCRA/CERCLA integration construct, and a request from Ecology for additional milestones for remedial field investigations (RFIs). ORP stated that it is still working towards the Corrective Measures Study (CMS) deliverable per the TPA, and has also been working with Ecology to develop concepts for milestones. ORP presented Ecology with signed change packages M-45-12-02 and M-45-12-03 for milestones M-045-84 and M-045-85, respectively. The change packages clarify the efforts to add additional RFI scopes to the closure decision negotiations. The formal submittal of the change packages to Ecology starts the 14-day clock under the TPA process, and a response from Ecology is due by April 10, 2012. ORP noted that the information for the change packages had previously been sent to Ecology, and Ecology had provided positive feedback.

M-045-60 - ORP noted that a modification to the work plan was submitted to Ecology in January 2012. ORP requested approval of the modification by April 15, 2012, in an effort to support the next season's work scope planning. An action was established for Ecology to provide approval or other action on the work plan modification by April 15, 2012.

M-045-92B - ORP reported that it is operating to a reduced monitoring frequency for the TY farm interim barrier per signed meeting minutes. ORP is waiting for Ecology's response regarding the technical evaluation and draft change notice that were submitted. Ecology stated that a review will be initiated at the beginning of April 2012.

M-045-92L (to be missed) M-045-92O (at risk) - ORP reported that the respective work for these milestones is being addressed by ongoing negotiations, and the agencies have come to terms with the scope of the milestones. ORP and Ecology are working through an Ecology proposal on an implementation process that was received last week.

TPA-SST Retrieval and Closure Program:

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M-045-101 - ORP stated that the catch tank closure strategy documentation was delivered to Ecology in November 2011, and a response was not received from Ecology by March 15, 2012. ORP noted that Ecology's response is under the 30-day clock, and Ecology has a choice of requesting another extension or ORP's comment response will be approved. Ecology stated that a meeting has been scheduled in April 2012 to resolve some questions it has (see discussion under M-045-81).

M-045-80 - ORP noted that it has provided responses to three of the four documents associated with this milestone. ORP stated that it met the commitment to provide a response by March 15, 2012 to Ecology's comments on the WIR process description document. ORP left it open for Ecology to request a follow-on meeting. Ecology did not request an extension, and agreed that in 30 days either a response will be provided or the document will be done.

M-045-81 - ORP reported that a comment response on the pipeline removal feasibility study was provided to Ecology on March 15, 2012. Ecology noted that it was not satisfied with some of ORP's proposed resolutions, and a follow-up meeting has been scheduled in April 2012 for further discussion. Ecology stated that it had requested quite some time ago for clarification of the issues so they could be sent to the Inter-Agency Management Integration Team (IAMIT) for resolution, but the issues have not been identified and the process has been prolonged. Ecology added that there have been good reasons to delay the process, but emphasized that the upcoming meeting should identify the issues for management to resolve. ORP summarized the discussion and stated that during the upcoming April meetings, ORP and Ecology will agree on a path forward and whether there are any issues that need to be sent to the IAMIT. Ecology concurred with the plan. An action was established for ORP and Ecology to clarify the issues when they meet in April (Ecology will provide the specific dates to ORP), and to provide them to senior management for resolution.

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

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

C-Farm Critical Path - The design work for C-101 has been completed. The duct work installation is 95 percent complete, and installation of condensate lines and electrical conduit has begun. There were no slips in schedule identified for the month of February 2012 in C-101. The

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final design for C-102 was completed. Procurement of the extended reach sluicer system is in progress and delivery is expected in May 2012. The slips in schedule for C-102 are due to delays in field work that was caused by a riser obstruction. The schedule slip for C-104 is due to the extended caustic dissolution time at C-108. Cameras and lights were installed in March 2012 to view the tank heel contents. C-105 design and procurement activities continued in February 2012. Excavation and removal of abandoned water lines have begun. PNNL completed the draft dome loading capacity analysis. The 22-day schedule slip for C-105 is due to the soil removal and crane load analysis not being completed on time. Ecology asked when the dome loading analysis will be provided, and whether the dome cut will be certified by an Independent Qualified Registered Professional Engineer (IQRPE). ORP will provide a response to Ecology's questions about PNNL's dome loading analysis and the IQRPE. ORP noted that a mock-up for the heel pit removal at C-105 will start next week.

C-107 bulk retrieval is on hold due to the AN-106 pump failure. The pump was removed on March 14, 2012, and the new pump is scheduled to be installed in April 2012. The C-108 slurry pump has operated for a total of 65 hours, and as of March 15, 2012, a total of 146 hours has been achieved. Sample analysis indicates that reaction has leveled out, and plans are under way to add 10,000 gallons of water, followed by a transfer to AN-106. The 12-day schedule slip for C-108 is due to the extended circulation of the caustic. The final pump-out was completed on March 23, 2012, and the final evaluation of retrieval results is under way. ORP noted that the floor in C-108 looks very clean in comparison to C-103, but there is more waste on the walls in C-108 compared to C-103. An agreement was reached to use lessons learned from C-108 for chemical dissolution in C Farm. C-109 installation continues. 10,000 gallons of water has been added to help with the retrieval process. The slips are due to delays in the receipt and inspection of the sampling sleeve, cameras and caustic drop leg, weather conditions, and engineering staff resources being diverted to AN-106 pump load.

Ecology initiated a discussion about the possible renewed interest in using garnet to cut a hole in another tank. Ecology noted that with the current issues that the Defense Nuclear Facilities Safety Board (DNFSB) has with erosion and corrosion and the heightened sense of interest associated with metallurgy in the tanks on the WTP side, that Ecology is considering those factors are changes, and the idea of going forward with garnet in another tank is highly questionable. ORP responded that its position has been clear all along that other cutting methods would be considered beyond C farm, and that is the basis of ORP's understanding and it is stated in writing.

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ORP added that it has always been clear that garnet would be used to cut C-105. ORP stated that it became aware of other potential information last week, and that tank farms and WTP staffs will be discussing the information in the near future. ORP and Ecology agreed to talk offline after today's meeting. There were no actions established at this time.

The Ramen spectrometer was installed into riser 7 in tank C-111. Motion detection determined that the laser was unable to contact the waste. The instrument was removed, and another attempt is planned in riser 12. It was noted that there was a lot of moisture on the lens and that the exhauster is necessary, and a reading will be attempted again when PNNL staff are available. Ecology asked why PNNL is involved. ORP explained that PNNL built the Ramen spectrometer, which is a laser. C-112 retrieval operations achieved 50 percent on March 7, 2012. As of March 26, 2012, 58,800 gallons have been retrieved. New cameras and lights were installed. The slip is due to retrieval being slower than anticipated. The 12-day slip for DST receiver tank 4 design was due to delays in engineering change notices (ECNs) for disconnecting the opening in the AN-106 hose-in-hose transfer line and connecting the new line. The AN-101 3-day procurement slip was associated with the delivery of the supernate pump. The AN-101 10-day construction slip was due to the C-104 caustic dissolution, which is a predecessor to the completion of the AN-101 construction. The AN-101 16-day startup slip should have been reported as 10 days, and the adjustment will be reflected next month.

CD-SST Retrieval and Closure:

D-00B-01A - ORP reported that the negotiations with Ecology for the outline of the tank retrieval completion certification have been completed.

Issues - ORP noted that Ecology has agreed with the proposal to do an amended tank specific sampling and analysis plan (TSAP) for C-108.

CD-Tank Waste Retrieval Work Plan (TWRWP) Status - ORP reported no changes to the TWRWP status.

242-A Evaporator Status - ORP stated that, as discussed earlier with Ecology, there will be no evaporator campaigns in FY 2012. The evaporator schedule in today's handout reflects the current baseline for a campaign starting August 2012, but the contractor is preparing a baseline change request to push the next campaign out to late spring 2013. Some considerations for pushing out the campaign are how much space is available in the double-shell tanks (DSTs) and

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what is the retrieval rate. Currently there is space in the DSTs. Another consideration is the time needed to update the documented safety analysis (DSA) of the evaporator and to implement updates to the new DOE order for conducting operational readiness reviews (ORR). The new revision to the order now allows for a slightly lower level readiness assessment (RA) instead of a full ORR. ORP offered to answer any questions Ecology might have regarding the evaporator campaigns.

M-045-91, SST Integrity Assurance:

ORP noted that the current milestones are on schedule. ORP stated that when the detailed planning for FY13 and beyond occurs, there may be impacts to other milestones with target dates. ORP stated that it will follow the established process and prepare change packages, if necessary. Ecology asked if the baseline change request (BCR) for FY13 has been received from the contractor, which would show any proposed schedule changes. ORP responded that the BCR has not been submitted.

Significant Past Accomplishments - ORP reported that a letter was submitted to Ecology regarding completion of target milestone M-045-91G-T06 to conduct visual inspections of the 12 single-shell tanks.

In Tank Characterization and Summary - ORP noted that there are several corrosion sampling events planned. Ecology inquired about the compatibility sample in 204-AR. ORP explained that 204-AR is a collection tank, and water is added to prevent the seal loop from drying out. Over time the level of the tank rises, and the liquid is transferred out. ORP offered to show Ecology a diagram and explanation of the tank after the meeting.

Tank Operations Contract (TOC) Overview - ORP noted that the earned value management system (EVMS) status is for the month of January 2012. ORP stated that the fiscal year-to-date and contract year-to-date continue to maintain close to a 1.0, which is very favorable to a project this size. ORP noted that the tank farm contractor WRPS has worked 3.2 million hours through March 2012 without a lost workday injury. ORP also noted that all of the variances throughout WRPS are monitored monthly. An end-of-the-year estimate to complete is being done, and the variances are well within the budget authority for FY 2012.

Ecology inquired about the BCR for pit inspections and how it might relate to the permit requirements for inspections. ORP responded that the BCR was due to the incorrect number of

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pits and lines that were identified that needed inspection. It was noted that additional pit inspections were done during jumper replacement and cleanup, which was funded under the American Recovery and Reinvestment Act (ARRA). ORP reported that for retrievals there was a positive schedule variance of 1.3 million dollars and a negative cost variance of 1.5 million dollars.

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

ORP reported that M-090-00 is on schedule, and negotiations are not yet under way for M-090-11 and M-047-06. Ecology noted that ORP presented a draft change package today associated with M-047-06, and suggested that the status for the milestone should be updated since Ecology considers delivery of the draft change package as the first point in the negotiation process. ORP reported that the Interim Hanford Storage and Secondary Liquid Waste Treatment projects are on schedule. The Secondary Liquid Waste Treatment project will be completing its critical decision one package by the end of September 2012.

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

ORP reported that all of the milestones listed are on schedule, and there are no significant past accomplishments to report or no planned actions in the next six months.

System Plan - ORP reported that the milestones are on schedule, and there were no significant planned actions in the next six months to report.

**Waste Treatment Plant**

ORP noted the change in format regarding the TPA and CD summary reports. The WTP information is now contained in the CD report only. Previously it was in both the TPA and CD summary reports. ORP acknowledged Ecology's concern that was raised during the tank farm portion of today's meeting about the change.

ORP recapped that the FY12 funding levels are less than planned, and the trend will continue for FY13, according to the recent funding information. As a result, activities are being ramped down to meet the lower funding level, and a baseline change proposal (BCP) is in the approval process. ORP noted that the first three months of FY12 were operating to a higher level of funding, and the reduction in funding for the remaining nine months will be reflected in a negative performance.

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Ecology asked if a generic priority list has been identified. ORP responded that priorities include closing out the 2010 technical issues, maintaining focus on Low Activity Waste (LAW), Lab and Balance of Facilities (BOF) to the existing schedule, followed by High Level Waste (HLW) and Pretreatment (PT). The majority of impacts will be to PT. ORP added that efforts will be made to continue to stabilize manpower to the extent possible. ORP noted that there will be fairly large impacts to the vendor community as procurement activity is ramped down, and it will take six to eight months to determine the full extent of the impacts.

Significant Planned Actions in the Next Six Months - Ecology asked if installation of the piping modules 07 and 01 will be delayed. ORP responded that the modules would probably not be installed in 2012. ORP noted that vessel placements will move significantly to the right on the schedule, but that will allow time to address any negative results from the large scale integrated testing (LSIT). Receipt of HLW RLD vessel 8 from the vendor is anticipated, which is one of the pulse jet mix vessels.

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

Significant Past Accomplishments - ORP reported that currently there is very little construction activity. The control building slab is planned to be completed sometime in FY13, but the forecast for the remaining construction activities is unknown. The small scale aerosol testing has been completed with positive results, and the report is pending. The mid-size aerosol test was initiated yesterday, with completion anticipated by the end of April 2012, and the report coming out in May 2012. Ecology asked if ORP is anticipating that the mid-size testing will provide positive results comparative to the small-scales tests such that testing efforts will not have to be restarted at square one. ORP responded that it is not anticipated to have to start over. The small-scale test met an order of magnitude of three in improvement from the DOE standard entrainment coefficient, which was the goal, and an order of two to three magnitude is anticipated for the larger scale testing. ORP noted that there are viable design options to use depending on the final test outcomes.

ORP reported that the preparations for the verification and validation (V&V) testing for the computational fluid dynamics (CFD) in the 8-foot vessel have been completed. The documentation for the testing was submitted to the DNFSB, and there is a requirement that allows the DNFSB two weeks to review and address any issues. There are also reviews being done by

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ORP, the external review team, and Bechtel. The review and comment resolution period has taken longer than anticipated, and the start of testing has been moved to late April, early May 2012.

ORP referred to the report Bechtel submitted in December 2011 regarding the corrosion/erosion issue that was not accepted by ORP, and stated that a detailed plan has been developed to address and resolve all the comments on the initial report. The report is anticipated to be issued within two weeks, and an internal meeting will be scheduled in May 2012 for a briefing. ORP stated that once the final strategy is in place, a meeting will be scheduled with Ecology to provide a briefing on the path forward. ORP reported that the onsite vessel modification has been postponed, and procurement of the offsite vessels is being evaluated to determine which vessels to suspend.

ORP addressed the onsite hanger coating issue that Ecology raised at the last PMM. Bechtel is conducting a corrosion evaluation, which will be provided to ORP in April 2012. Ecology stated its understanding is that there are two procedures for the hangers, one procedure stating that the hangers need to be coated and another procedure stating that they do not need to be coated. Ecology asked what ORP is doing to confirm the appropriate use of the procedure. ORP responded that the procedure requires the steel to be coated, with the exception to areas of the hanger that are to be grinded for welding. ORP added that the expectation is that Bechtel will follow and comply with the procedures. It was noted that Ecology had provided pictures of hangers that have rusted. Ecology asked if the hangers are still being coated, and if they are, what procedure is being followed. ORP will provide an answer to Ecology's questions. Once Bechtel has completed its corrosion evaluation, a briefing will be provided to Ecology.

Significant Planned Actions in the Next Six Months - ORP provided a status on the planned actions as follows: 1) continuation of the 4th tier structural steel will be minimal; 2) the piping modules will not be set in place; 3) the hot cell vertical door drive mechanism replacement will continue; 4) the aerosol testing will continue; 5) the control building base mat may be completed, but not in the six-month time frame; 6) completion of fabrication of lag storage vessel HLP-27A/B is unsure and is being evaluated for funding and technical issues; 7) resolution of material selection issues with the vessels will be completed; 8) the LSIT V&V of the CFD will continue. ORP noted that the items that will not continue will remain in the baseline and will begin to reflect a negative performance in the earned value management system (EVMS).

### **High Level Waste**

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ORP reported that the next milestone, completion of the 37-foot structural steel, is forecasted for early completion in September 2012. ORP and Ecology agreed to conduct a walk-down around May 2012 in preparation for V&V of the 37-foot structural steel. HLW is maintaining its critical path, which is the buildout of the melter cells walls. Wall No. 3108 on melter cell No. 2 was completed this month, and wall No. 3108A will be completed in the next two weeks. Portions of work on the high efficiency mist eliminators (HEME), which are a key piece of equipment that goes in the melter cave, have been placed on a management suspension of work. The work is on hold until the results from the entrainment coefficient testing are received in an effort to determine whether the quality level of the internals of the vessel need to be increased, and therefore increase the level of the ancillary supporting equipment. Ecology asked if the timing of the testing results will allow for any changes, if needed. ORP responded that there will be time, and ORP is aware of the issues that may need to be resolved.

Receipt of RLD vessel 8 is now anticipated in late April 2012. A thorough review of all the welds was conducted while the vessel was on the ship, and a few additional tests will be conducted on some welds after the vessel arrives at Mid-Columbia Engineering (MCE) in the Tri-Cities. Ecology asked if MCE has retrofitting capabilities. ORP responded that MCE has the capabilities, but it isn't anticipated that there will be any issues. A vessel completions team has been established to look at a number of design and engineering issues associated with vessels, ranging from erosion/corrosion, material selection, operations, and QA documentation. RLD vessel 8 will be one of the first vessels to undergo inspection by the team before the vessel is set in the building. The filter cave dampers have been installed. There was a minor issue associated with the dampers, but it is anticipated to be resolved within two weeks.

ORP stated that it is addressing an issue regarding a permit modification associated with a couple of vessels. The comments are in review comment record (RCR) format for comment resolution. ORP noted that the current schedule variance is due to a couple of key procurements that have been late, and as the HLW ramps down in the continuing months due to reduced funding, there will continue to be a negative schedule variance.

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

ORP is in the process of replanning the baseline, but proceeding as scheduled. A decision has been made to do the melter refractory inside the building area versus constructing a temporary melter assembly building out on the pad area. The refractory will be installed in the melters inside

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of the LAW building. The floors and walls of the refractory will be assembled in melter bay 1 and 2, and the lids will be assembled in the third melter area. The components will then be lifted and transported using the crane rail and then set on top of the melters. During assembly of the refractory, the area will be sealed and isolated to control humidity and temperature. A final decision has not been made whether to construct a permanent melter assembly facility, and it is not in the scope as a line item capital project. Ecology asked if there is enough space in the melter area to safely assemble the refractory. ORP responded that there is adequate space, and suggested that Ecology tour the area to visualize the space that is available. ORP confirmed to Ecology that all of the significant planned actions for the next six months will occur.

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

Ecology initiated a discussion regarding the emissions estimate and margins associated with the emergency turbine generator (ETG). Ecology reiterated that if the ETGs are built to the current margin expectations that Bechtel has estimated, and then can't meet those expectations, Ecology would be obligated to shut down the ETGs. Ecology has suggested that ORP consider adding extra margin. ORP responded that the information has been passed on to Bechtel and will follow up with Ecology's concern. Ecology asked when further discussion on the emissions issue could be expected. ORP indicated that a meeting is scheduled with Bechtel this afternoon, and an attempt will be made to get feedback today on the issue.

ORP stated that BOF is going through a phase where it is transitioning from a group of buildings that are considered one control account to multiple individual facilities. Ecology asked what kind of turnover protocol will be used; i.e., an operational readiness review (ORR) or a readiness assessment (RA). ORP responded that there won't be an ORR for individual facilities, although there will be an ORR for plant support services. Each individual facility will have a turnover standard or validation requirement. ORP is focusing on identifying the individual requirements to validate turnover for each facility. There will be some testing included in the turnover protocol, but there will be limitations to what can be tested. An example is the steam plant, which can't be brought fully online until the loads associated with the plant are available. Startup will be more of a two-phased approach. Phase one will be the component-level testing and some system checking. Phase two will be the integrated system testing, which will occur during cold and hot commissioning phases when the facilities are fully loaded.

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ORP reported that the process for commercial grade dedication (CGD) is continuing, and an outline will be provided by Bechtel to ORP this afternoon. ORP is also working to identify environmental requirements on a facility-specific basis. Once those requirements are determined, ORP plans to discuss with Ecology a review timeline for the various documents that will be associated with the environmental requirements.

**Analytical Laboratory (LAB)**

The current major effort is geared toward meeting the LAB construction substantially complete milestone. Recent efforts have been getting the fume hoods in place. Another focus has been installation of the autosampler system, which is now primarily complete with the exception of placement of a couple valves. There was a procurement issue with one valve due to some of its requirements, and that issue is being worked. ORP confirmed that all five of the significant planned actions in the next six months will be done. The only issue may be delivery of one valve for the autosampler system. ORP noted that there will be a negative schedule performance next month, but it will be due primarily to being ahead of schedule with the fume hood installation.

**3.0 Agreements, Issues, Actions**

The agreements, issues and actions list will be updated and sent out later today. (See Attachment A for the updated Agreements, Issues and Actions List sent out on 03/27/2012). Agreement Nos. 1 and 3 will be combined and include the April meeting dates. For agreement No. 2, Ecology will agree or request action within 30 days. Agreement No. 4 is associated with Action No. 5 (C-101 TWRWP), and the data will be provided in May 2012. Agreement No. 4 will be closed out by combining it with action No. 5. ORP and Ecology agreed that Agreement No. 5 was satisfied via approval of meeting minutes documenting the modifications to the work plan. Agreement Nos. 6 and 7 are ongoing.

Issue No. 1 will be revised and left open. A new issue will be added to address Ecology's concern regarding no opportunity to review the WTP data in the CD report before the PMM.

Action No. 1 will be revised to note the change notice was submitted for Ecology review. For Action No. 2, ORP will brief Ecology in May 2012 on the C-101 sample analysis work. Action No. 3 will be updated to note that the signed change packages for M-045-84 and 85 were submitted to Ecology and are on a 14-day clock for Ecology response. Ecology and ORP agreed to close Action No. 4. ORP and Ecology agreed to close Action No. 5 and establish a new action for

ORP Project Managers Meeting  
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ORP/WRPS to set up a meeting in May 2012 to discuss the vadose zone data for the C-101 TWRWP. Action Nos. 6 and 7 will remain open. Action Nos. 8, 9, 10, 11, 12 and 13 were closed. The new actions are for ORP to provide Ecology with a date when the whole construction report for the C-105 dome loading analysis will be available, and whether an IQRP is needed; and ORP will set up a meeting with Ecology to discuss the M-047-06 draft change package that was provided.

**4.0 Key Documents List**

A revised key documents list was provided today.

**5.0 Upcoming Meetings**

The next ORP PMM is scheduled for Tuesday, April 24, 2012. (See Attachment C for the Key Documents List).

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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 Updates from March 27, 2012

### Agreements:

1. Meetings for M-45-101(Component ID and Closure Strategy) and M-045-81 (Pipeline Feasibility Evaluation) documents are scheduled for 04/12/12 and 04/26/12, respectively. Following these meetings, ORP and ECY PMs will clarify any issues and/or disputes and provide them to senior management for resolution.
2. M-045-80 Item 1 (Description of Radioactive Waste Determination Process) – ECY will provide a response to ORP by 04/27/12.
3. ORP will continue to meet with ECY to discuss funding and work priorities.
4. Per an ECY standing request, ORP agrees to include any written directives given by DOE to the contractors for work required by the CD in future Semi-Annual CD Reports (see CD Section IV-C-1-e, page 8).

### Issues:

1. Agreement on content/format of CD Tank Completion Certification is needed. Project Manager Meetings have been held to discuss a path forward and a briefing to ORP/ECY Senior Management is being scheduled with the potential for follow-on actions.
2. Ecology has a concern with WTP data being reported exclusively in the CD Monthly Summary Report as the current CD reporting process does not allot ECY early review time of the CD Monthly Summary Report. ORP and ECY will raise this concern for discussion at the Senior Management levels.

### Actions:

1. ECY will begin comment review process for the change notice for M-045-92B specific to monitoring plan, scope, and schedule for TY Barrier on 04/01/12. Actionee: Michelle Hendrickson. **Open.**
2. Brief ECY on soil sample analysis from direct push for the C-101 and C-104 post May 2012. Actionee: Chris Kemp. **Open.**
3. ORP provided signed change packages for M-045-84 and M-045-85 for RFI/CMS clarifying language on 03/27/12. The 14-day response due for those change packages is 04/10/12. Follow-up meetings on RFI nature and extent sections/CMS between ORP and Ecology may continue. Actionees: Jeff Lyon/Chris Kemp. **Open.**
4. ECY will provide approval or other action on M-045-60 workplan by 04/15/12. Actionee: Jeff Lyon. **Open.**
5. ORP will provide invite to ECY (Barnes) for DQO for C-104 and C-109. Actionee: Chris Kemp. **Open.**
6. ORP/WRPS will setup a meeting to discuss results from vadoze zone data for C-101 TWRWP (May 2012 timeframe). Actionee: Chris Kemp/Jeff Luke
7. ORP will provide a date to ECY for when the whole construction report (C-105 dome loading analysis) will be available. Actionee: Chris Kemp. **Open.**
8. ORP will provide information to ECY (Lyon) on Mixer Pump work for Waste Feed Delivery. Actionee: Glyn Trenchard. **Open.**
9. ORP will setup a meeting with ECY to provide discussion and a path forward for M-047-06. Actionee: James Lynch. **Open.**

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**Attachment B: List of Attendees**

**(3 pages including this coversheet)**



**Sign In Sheet**  
**ORP TPA Project Managers' Monthly Meeting**  
**March 27, 2012**

NAME	ORG	MSIN	PHONE
Jeff Luke	WRPS		
Susan Eberlein	WRPS		372-1689
MG Pelegrin	WRPS		539-5357
Nancy Tzemblo	Ecology		372-7928
Jeremy Johnson	ORP		376-1366
Kathy Higgins			
LOB PIPPO	MSATO		373-3235
Joni Grundstaff	DOE-ORP		376-6202
Reed Kaldor	MSA		372-1992
Jeffery J. Lyon	Ecology		539-1996
Michelle Nordickson	ECU		372-7970
Wahed Abdul	DOE-FPM		438-0455

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

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

**And**

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

**And**

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

**And**

**TPA Change Control Forms M-45-12-02, M-45-12-03 and M-47-12-01**  
**(8 pages)**

**(63 pages including this coversheet)**

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**FINAL**

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



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

<b>Page</b>	<b>Topic</b>	<b>Leads</b>
1	Administrative Items / Milestone Status	James Lynch / Dan McDonald / Jeff Lyon
2	Single-Shell Tank Corrective Action; M-45, -50, -60	Bob Lober / Jeff Lyon
4	Single-Shell Retrieval and Closure Program TPA Milestones Status; M-45-00 series, - Tank in Appendix H Status - Tank Retrievals with Individual Milestones	Chris Kemp / Jeff Lyon
7	C-Farm Critical Path	Kathy Higgins / Jeff Lyon
10	242-A Evaporator Status	Glyn Trenchard / Jeff Lyon
11	SST Integrity Assurance; M-45-91	Jeremy Johnson/ Michelle Hendrickson
13	In Tank Characterization and Summary	Jeremy Johnson / Michael Barnes
15	Tank Operations Contract (TOC) Overview	Janet Diediker / Jeff Lyon
21	Acquisition of New Facilities; M-90-00; M-47-00	Janet Diediker / Jeff Lyon / Dan McDonald
22	Supplemental Treatment and Part B Permit Applications; M-62-00, -20, -30, -45	Steve Pfaff / Jeff Lyon / Dan McDonald
23	System Plan; M-62-40	Dabrisha Smith / Jeff Lyon / Dan McDonald
24	WTP Overall TPA Summary and Milestone Status; M-62-01	Delmar Noyes / Dan McDonald

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

## **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.** Continue field sampling with decommissioning of angle push under C203 underway. ORP and Ecology met for review of sampling results and draft workplan modifications and sampling optimization strategy on September 22, 2011. September meeting minutes, which document efforts, were signed 11/09/2011 by parties and were subsequently entered into the administrative record. A draft Work Plan/SAP Modification and TPA Change Notice was formally submitted to Ecology on 1/05/2012 with a requested response by 2/10/2012.

**M-045-56H, Complete Implementation of Agreed to Interim Measures (Meet Yearly to Discuss Interim Measures), Due: 07/31/12, Status: On Schedule.**

**M-045-59, Control surface water infiltration pathways as needed to control or significantly reduce the likelihood of migration of subsurface contamination to groundwater at the SST WMAS (pending the CMS report, milestone M-45-58, and implementation of other interim corrective measures), Due: TBD, Status: On Schedule**

**M-045-61, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 RFI/CMS Report for WMA C, Due: 12/31/14, Status: On Schedule**

**M-045-62, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 Corrective Measures Study Report for WMA C, Due: 06/30/2015, Status: On Schedule**

**M-045-92, DOE and Ecology will establish selection criteria for installation of additional interim barriers at additional WMAs (beyond the T-106 and TY barriers), Due: 9/30/2016, Status: On Schedule.**

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

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

**M-045-92L, Construct Barrier 1** Due: 10/31/12, Status: To Be Missed. Change Package is needed and technical scope discussions are being established. See issues below.

**M-045-92O, Submit a Final Design and Monitoring Plan for Interim Barrier 3** Due: 06/30/13, Status: At risk. Design is dependent on soil characterization work of potential barrier sites, which was deferred out of CY2012. This issue is being discussed in conjunction with M-045-92L.

**Significant Past Accomplishments:**

- Automated data collection system for T-Farm interim barrier monitoring continues gathering data.
- Automated data collection system for TY Interim Barrier monitoring continues gathering data.
- Analysis of barrier monitoring data collected to date has been performed and results compiled into a draft document which has been provided to Ecology for review.
- Continued laboratory analysis of direct push soil samples previously obtained in C farm and other farms
- Performed additional updates to WMA C RFI/CMS work plan and SAP based on requested changes from Ecology, and provided draft updated documents to Ecology with a TPA change notice.

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

- Finalize updates to WMA C RFI/CMS workplan and SAP based on Ecology's review of the TPA change notice.
- Publish results of evaluation of barrier monitoring data, and recommend changes to future monitoring plan for TY barrier.
- Continue laboratory analysis of direct push soil samples previously obtained in C farm and other farms.

**Issues:**

FY2012 funding constraints will impact FY2012 scheduled work. TPA change packages will be developed as needed.

## SST Retrieval and Closure Program

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

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

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

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

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

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

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

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

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

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

**Significant Past Accomplishments:**

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

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

- See discussions above and related discussions in Consent Decree report.
- Work to discuss and resolve issues and comments associated with deliverables for M-45-101, 80, and 81.

**Issues:**

USDOE is deferring the final numeric modeling supporting the WMA C performance assessment to 2013 due to budget constraints in 2012. Impacts of this delay are being incorporated into the critical path schedules.

## **Tank in Appendix H. Status - Single Shell Waste Retrieval Criteria**

### **Tank 241-C-106**

**Significant Past Accomplishments:**

None

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

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

**Issues:**

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

## Tank Retrievals with Individual Milestones

### Tank 241-A-103

**M-045-15, Completion of Tank A-103 SST Waste Retrieval**, Due: 9/30/22 Status: On schedule. Change package M-45-11-04 replaced tank S-102 with tank A-103 and changed to milestone completion date for M-045-15 to 09/30/2022.

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

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

#### Significant Past Accomplishments:

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

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

None

#### Issues:

None

### Tank 241-S-112

**M-045-13, Interim Completion of Tank S-112 SST Waste Retrieval and Closure Demonstration Project**, Due: TBD (in accordance with M-045-84 or M-045-85), Status: On Schedule

**M-045-13E, Complete Negotiations for Interim Milestones for Closure of S-112**, Due: TBD Status: On Schedule as part of M-045-84 or M-045-85.

#### Significant Past Accomplishments:

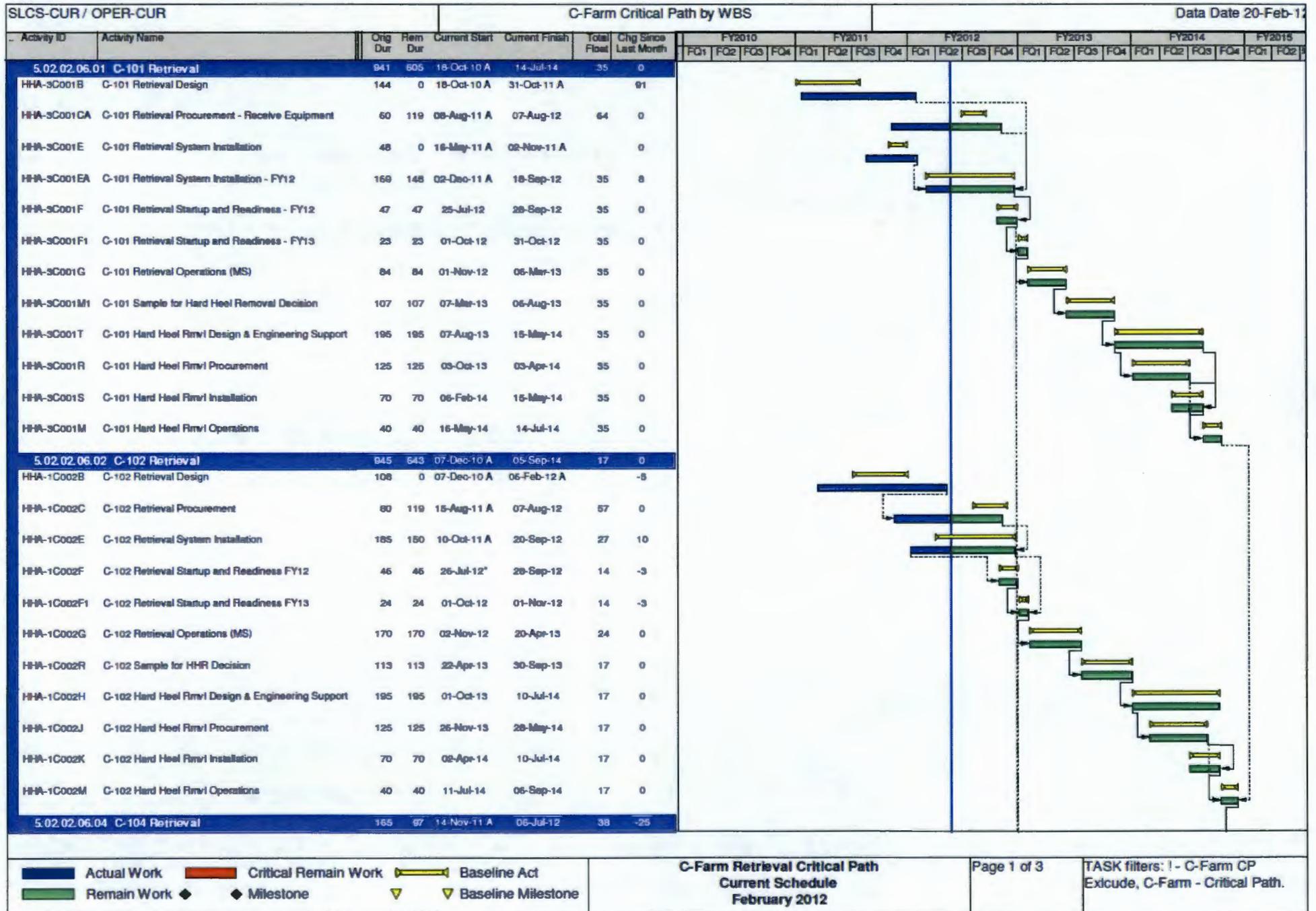
- Ecology letter of January 7, 2008, concurred with ORP that retrieval of Tank S-112 is complete.

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

None

#### Issues:

None



█ Actual Work   
 █ Critical Remain Work   
 ▬ Baseline Act  
█ Remain Work   
 ◆ Milestone   
 ▽ Baseline Milestone

**C-Farm Retrieval Critical Path  
Current Schedule  
February 2012**

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

SLCS-CUR / OPER-CUR		C-Farm Critical Path by WBS						Data Date 20-Feb-12																					
Activity ID	Activity Name	Orig Dur	Rem Dur	Current Start	Current Finish	Total Float	Chg Since Last Month	FY2010				FY2011				FY2012				FY2013				FY2014				FY2015	
								FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2
HHA-1C004C	C-104 Hard Heel Rmvl - Gaustic Dissolution	165	97	14-Nov-11 A	06-Jul-12	38	-25																						
<b>5.02.02.06.05 C-105 Retrieval</b>		886	660	01-Nov-10 A	30-Sep-14	0	0																						
HHA-3C005B	C-105 Retrieval Design - Phase 1	82	19	01-Nov-10 A	16-Mar-12	358	-4																						
HHA-3C005B2	C-105 Retrieval Installation Design - MARS Educator	148	165	16-Jan-12 A	27-Sep-12	222	-22																						
HHA-3C005C	C-105 Procurement of Phase 1 Components - FY11	72	34	15-Jul-11 A	06-Apr-12	343	4																						
HHA-3C005E	C-105 Retrieval System Installation - Phase 1	198	146	01-Dec-11 A	14-Sep-12	231	-1																						
HHA-3C005E3	C-105 Retrieval System Installation - MARS	200	200	30-Aug-12*	17-Jun-13	42	0																						
HHA-3C005F	C-105 Retrieval Startup and Readiness	258	258	01-Aug-12	08-Aug-13	42	0																						
HHA-3C005G	C-105 Retrieval Operations (MARS)	227	227	08-Aug-13*	23-Mar-14	61	0																						
HHA-3C005M2	C-105 Hard Heel Rmvl Evaluations & Readiness	40	40	24-Mar-14	02-May-14	61	0																						
HHA-3C005M	C-105 Hard Heel Rmvl Operations	90	90	03-May-14	31-Jul-14	61	0																						
HHC-3C005R	Complete C-Farm Retrieval - Consent Decree D-00B-01	0	0		05-Sep-14	17	0																						
M-B-1	M-B-1, Complete C-Farm Retrieval (D-00B-01 Due Date)	0	0		30-Sep-14*	0	0																						
<b>5.02.02.06.07 C-107 Retrieval</b>		590	115	01-Apr-10 A	01-Aug-12	233	21																						
HHA-3C007E	C-107 Retrieval System Installation	379	0	01-Apr-10 A	30-Sep-11 A	0	0																						
HHA-3C007F1	C-107 Retrieval Startup and Readiness for MARS	132	0	21-Mar-11 A	26-Sep-11 A	0	0																						
HHA-3C007G	C-107 Bulk Retrieval Operations (MARS) FY11	30	0	11-Oct-11 A	28-Oct-11 A	0	0																						
HHA-3C007G1	C-107 Bulk Retrieval Operations (MARS) FY12	96	108	28-Oct-11 A	07-Jun-12	337	8																						
HHA-3C007H1	C-107 Hard Heel Retrieval Evaluations and Readiness	15	15	17-May-12	07-Jun-12	233	20																						
HHA-3C007M	C-107 Hard Heel Rmvl Operations	36	36	08-Jun-12	01-Aug-12	233	21																						
<b>5.02.02.06.08 C-108 Retrieval</b>		473	37	22-Feb-10 A	11-Apr-12	257	-12																						
HHA-1C008K	C-108 Hard Heel Rmvl Installation	75	0	22-Feb-10 A	10-Nov-11 A	0	0																						
HHA-1C008M	C-108 Hard Heel Rmvl Operations	57	37	13-Oct-11 A	11-Apr-12	257	-12																						
<b>5.02.02.06.09 C-109 Retrieval</b>		193	169	28-Nov-11 A	17-Oct-12	239	-36																						
HHA-1C009HA	C-109 Hard Heel Rmvl Design & Engineering Support	41	47	28-Nov-11 A	25-Apr-12	359	-18																						
HHA-1C009K	C-109 Hard Heel Rmvl Installation	49	123	21-Dec-11 A	13-Aug-12	285	-82																						
HHA-1C009M	C-109 Hard Heel Rmvl Operations	114	114	08-May-12*	17-Oct-12	239	-36																						

■ Actual Work    ■ Critical Remain Work    ▬ Baseline Act  
■ Remain Work    ◆ Milestone    ▼ Baseline Milestone

C-Farm Retrieval Critical Path  
 Current Schedule  
 February 2012  
 Page 2 of 3  
 TASK filters: ! - C-Farm CP  
 Exclude, C-Farm - Critical Path.

SLCS-CUR / OPER-CUR		C-Farm Critical Path by WBS							Data Date 20-Feb-12											
Activity ID	Activity Name	Orig Dur	Rem Dur	Current Start	Current Finish	Total Float	Chg Since Last Month	FY2010		FY2011		FY2012		FY2013		FY2014		FY2015		
								FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1
<b>5.02.02.06.11 C-111 Retrieval</b>		358	269	11-Oct-11 A	14-Mar-13	276	0													
HNA-1C011R	C-111 Sample for HHR Decision	107	63	11-Oct-11 A	17-May-12	482	-8													
HNA-1C011H1	C-111 Hard Heel Rmrl Design & Engineering Support FY13	73	73	01-Oct-12	16-Jan-13	267	0													
HNA-1C011J1	C-111 Hard Heel Rmrl Procurement FY13	43	43	01-Oct-12	30-Nov-12	267	0													
HNA-1C011K	C-111 Hard Heel Rmrl Installation	73	73	01-Oct-12	16-Jan-13	267	0													
HNA-1C011M	C-111 Hard Heel Rmrl Operations	40	40	17-Jan-13	14-Mar-13	267	0													
<b>5.02.02.06.12 C-112 Retrieval</b>		919	414	18-Feb-10 A	08-Oct-13	246	0													
HNA-1C012B	C-112 Retrieval Design	125	0	18-Feb-10 A	16-Dec-11 A	-1														
HNA-1C012E	C-112 Retrieval System Installation	144	0	03-Jan-11 A	22-Dec-11 A	0														
HNA-1C012F	C-112 Retrieval Startup and Readiness	57	0	11-Jul-11 A	21-Dec-11 A	-1														
HNA-1C012G	C-112 Retrieval Operations (MS)	58	53	28-Dec-11 A	12-Apr-12	405	-20													
HNA-1C012R	C-112 Sample for HHR Decision FY12	84	84	01-Jun-12	28-Sep-12	246	0													
HNA-1C012R1	C-112 Sample for HHR Decision FY13	23	23	01-Oct-12	31-Oct-12	246	0													
HNA-1C012H	C-112 Hard Heel Rmrl Design & Engineering Support	195	195	01-Nov-12	12-Aug-13	246	0													
HNA-1C012J	C-112 Hard Heel Rmrl Procurement	125	125	03-Jan-13	28-Jun-13	246	0													
HNA-1C012K	C-112 Hard Heel Rmrl Installation	70	70	03-May-13	12-Aug-13	246	0													
HNA-1C012M	C-112 Hard Heel Rmrl Operations	40	40	13-Aug-13	08-Oct-13	246	0													
<b>5.02.02.06.20 C-Farm Infrastructure DST Receiver Tan...</b>		459	157	07-Dec-10 A	01-Oct-12	257	0													
HNA-2NFC0B	C-Farm Infrastructure DST Receiver Tank 4 Design	100	1	07-Dec-10 A	21-Feb-12	65	0													
HNA-2NFC0BA	C-Farm Infrastructure DST Receiver Tank 4 Design	20	26	17-Nov-11 A	27-Mar-12	41	-12													
HNA-2NFC0C	C-Farm Infrastructure AN-101 Upgrades Procurement	83	83	21-Feb-12	15-Jun-12	38	-3													
HNA-2NFC0D	C-Farm Infrastructure AN-101 Upgrades - Construction	101	101	02-Apr-12	22-Aug-12	38	-10													
HNA-2NFC0E	C-Farm Infrastructure AN-101 Upgrades Startup/Readiness	59	59	06-Jul-12	28-Sep-12	38	-16													
HNA-2NFC0C5	C-Farm Infrastructure AN-106 HIHTL Procurement	66	66	27-Feb-12	31-May-12	337	-13													
HNA-2NFC0D3	C-Farm Infrastructure AN-106 HIHTL Replacement	123	123	02-Apr-12	24-Sep-12	257	0													
HNA-2NFC0E1	C-Farm Infrastructure AN-106 HIHTL Replacement Startup/Readiness	15	15	11-Sep-12	01-Oct-12	257	0													

C-Farm Retrieval Critical Path Current Schedule February 2012

Page 3 of 3

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

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

### 242-A Campaign strategy:

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

Fiscal Year	Campaign No.	Feed Source	Slurry Tank	Comments
FY10	10-01	AW-106	AW-106	Campaigns 10-01/10-02 were performed back-to back starting in late August and completing in early October 2010. Campaign 10-02 was an acceleration of previously planned Campaign 11-01.
FY10	10-02	AW-106	AW-106	
FY11	NA	NA	NA	No campaign conducted in FY11 due to ongoing 242-A and Tank Farm facility life extension and ARRA funded upgrades.
FY12	12-01	AP-107	AP-107	Estimated start August 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-T02, provide to Ecology the Structural Analyses of Record final documentation for SSTs for 750,000 gallon tanks (BY, S, TX and TY Farms), Due: 1/31/2012, Status: Complete 11/18/11. (ORP letter 11-TPD-091)**

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

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

**M-045-91F-T01, Provide to Ecology as a HFFACO secondary document a report evaluating the applicability to Hanford SSTs of the liquid leak rate assessments of sludge and salt-cake from the Savannah River Site, Due: 1/31/2013, Status: On schedule. TPA change package M-45-12-01, moving M-45-91F-T01 and G-T03 out one year was signed by ORP and Ecology on 1/23/2012.**

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

**M-045-91F-T03, Provide to Ecology, as a HFFACO secondary document a report assessing the feasibility of testing for ionic conductivity between the inside and outside of SSTs, Due: 5/31/2013, Status: On schedule.**

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

**M-045-91F-T02, Provide to Ecology as a HFFACO secondary document a report evaluating the common factors of liner failures for SSTs that have leaked and will provide recommendations as appropriate, such as enhanced Leak Detection, Monitoring, and Mitigation, Due: 7/31/2013, Status: On schedule.**

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

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

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

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

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

**M-045-91B-T01, Provide Ecology a report containing the results and interpretation of testing, and analysis, performed on the concrete core obtained from Tank A- 106 or alternate tank, Due: 9/30/2014, Status: On schedule.**

**M-045-91H, Submit a change package (if deemed necessary by DOE and Ecology) to establish additional milestones based on information obtained from the actions in the preceding M-045-91 series milestones to date, Due: 7/31/2015, Status: On schedule.**

**M-045-91I, Provide to Ecology an IQRPE certification of SSTs structural integrity for the remainder of the mission, or for such time as the IQRPE believes he/she can reasonably certify, Due: 9/30/2018, Status: On schedule.**

**Significant Past Accomplishments:**

- Received Ecology Letter, 12-NWP-021, approving the submittal in support of milestone M-045-91C.

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

- Complete target M-045-91G-T06, provide report to Ecology documenting and evaluating the visual inspection of the 12 SSTs per criteria in M-045-91G-T05.
- Complete target M-045-91F-T03, provide Ecology the Ionic Conductivity Feasibility Report.

**Issues:**

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

## In Tank Characterization and Summary

For the period from February 1 – February 29, 2012:

### Accomplishments:

- Completed three liquid grab sampling events to support dissolution of C-108 heel solids.
- Collected liquid grab samples from tank AN-101 to evaluate tank corrosion chemistry as C-112 waste is retrieved into the tank.
- Issued RPP-PLAN-51621, *2012 Tank 241-AN-102 Grab Sampling and Analysis Plan*. Sample data will be used to evaluate tank corrosion chemistry control.
- Completed analysis of stack gas samples collected at the start of C-107 waste retrieval and issued laboratory data report RPP-RPT-51781, *Results for Tank 241-C-107 Stack Chemical Emissions during Retrieval*. Sample data are used to evaluate emissions of potential Toxic Air Pollutants.

### Planned Action within the next Six Months:

- Tank Sampling
  - Continue to sample C-108 to support heel retrieval.
  - Tank AN-102 grab samples for chemistry control - currently scheduled for March 2012
  - Tank C-112 stack gas samples to evaluate emissions of potential Toxic Air Pollutants at the middle of retrieval – currently scheduled for March 2012
  - Tank AN-101 grab samples for chemistry control after completion of C-112 sluicing - currently scheduled for April 2012. This event might be postponed until after completion of C-104 heel removal (May/June 2012)
  - Tank SY-102 grab samples for chemistry control – currently scheduled for April 2012
  - Tank C-107 stack gas samples to evaluate emissions of potential Toxic Air Pollutants at the middle of retrieval – currently scheduled for April/May 2012
  - Tank C-108 off- riser samples for tank component closure – currently scheduled for May 2012
  - Tank C-104 grab samples to support heel retrieval – currently scheduled to start in May 2012
  - Tank AN-106 grab samples for chemistry control after completion of C-107 sluicing - currently scheduled for June 2012
  - Tank C-109 grab samples to support heel retrieval – currently scheduled to start in July 2012
  - Tank AZ-102 grab samples for chemistry control – currently scheduled for June/July 2012
  - Tank 204-AR-TK-1 compatibility grab samples – currently scheduled for August/September 2012
  - Tank C-112 off- riser samples to evaluate waste characteristics for heel dissolution may occur during June –September 2012 depending on the progress of retrieval. This sampling event may be replaced by in-tank analysis with a Raman probe.
- BBI Updates

- Ten tanks have been identified for updates in FY12 Quarter2. The BBI updates will be issued in April 2012.
- Data Quality Objectives (DQO)
  - Revision of the PCB Management DQO (RPP-7614) and the Compatibility DQO (HNF-SD-WM-DQO-001) in April 2012
  - Revision of the Strategic Planning DQO (RPP-44057) in April 2012
  - Development of DQOs and associated tank sampling and analysis plans (TSAPs) to support removal of hard heels in C-104 and C-109 in March 2012

**Issues:**

The C-108 tank has had a full sampling suite of analyses performed after bulk retrieval, which is what would be done for a tank after final retrieval for the Retrieval Data Report sampling and analyses. After completion of chemical dissolution which is the second retrieval technology performed at C-108, an amended tank specific sampling and analysis plan will need to be performed for the C-108 closure, to take into account previous null sample results. ORP and ECY have agreed to have a regulator approved specific sampling analysis plan developed after the second retrieval technology at C-108 following the second retrieval technology.

## TANK OPERATIONS CONTRACT (TOC) OVERVIEW

### Project Performance

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

As of February 21, 2012, WRPS had worked 3,089,151 hours (316 days) without a Lost Time Workday Injury and 1,697,378 hours (188 days) without a Recordable case. The significant milestone of 3 million hours worked without a lost-workday injury was only achieved once before by WRPS in January 2011.

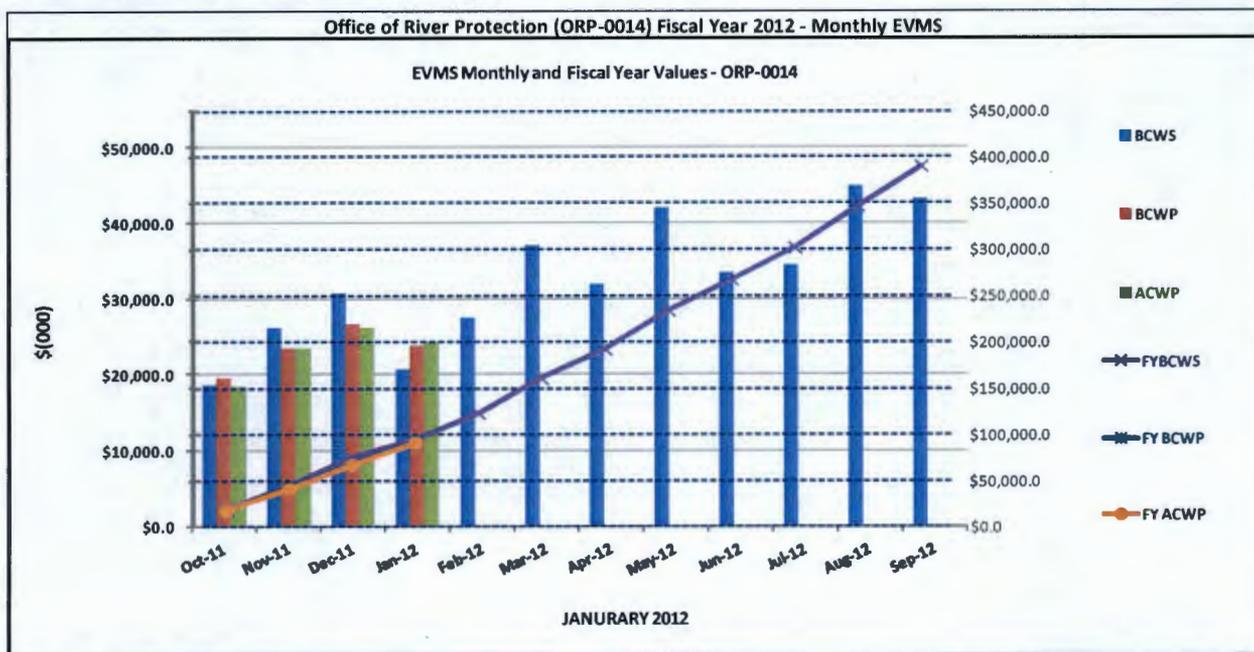
### January EVMS Data

	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC
CM	20,716.5	23,741.2	24,148.4	3,024.7	(407.1)	1.15	0.98			
FYTD	96,076.0	93,232.6	92,007.0	(2,843.4)	1,225.6	0.97	1.01	387,058.0	361,816.1	25,241.9
CTD	1,321,243.5	1,312,282.4	1,255,137.3	(8,961.1)	57,145.2	0.99	1.05	2,157,327.1	2,088,738.5	68,588.6

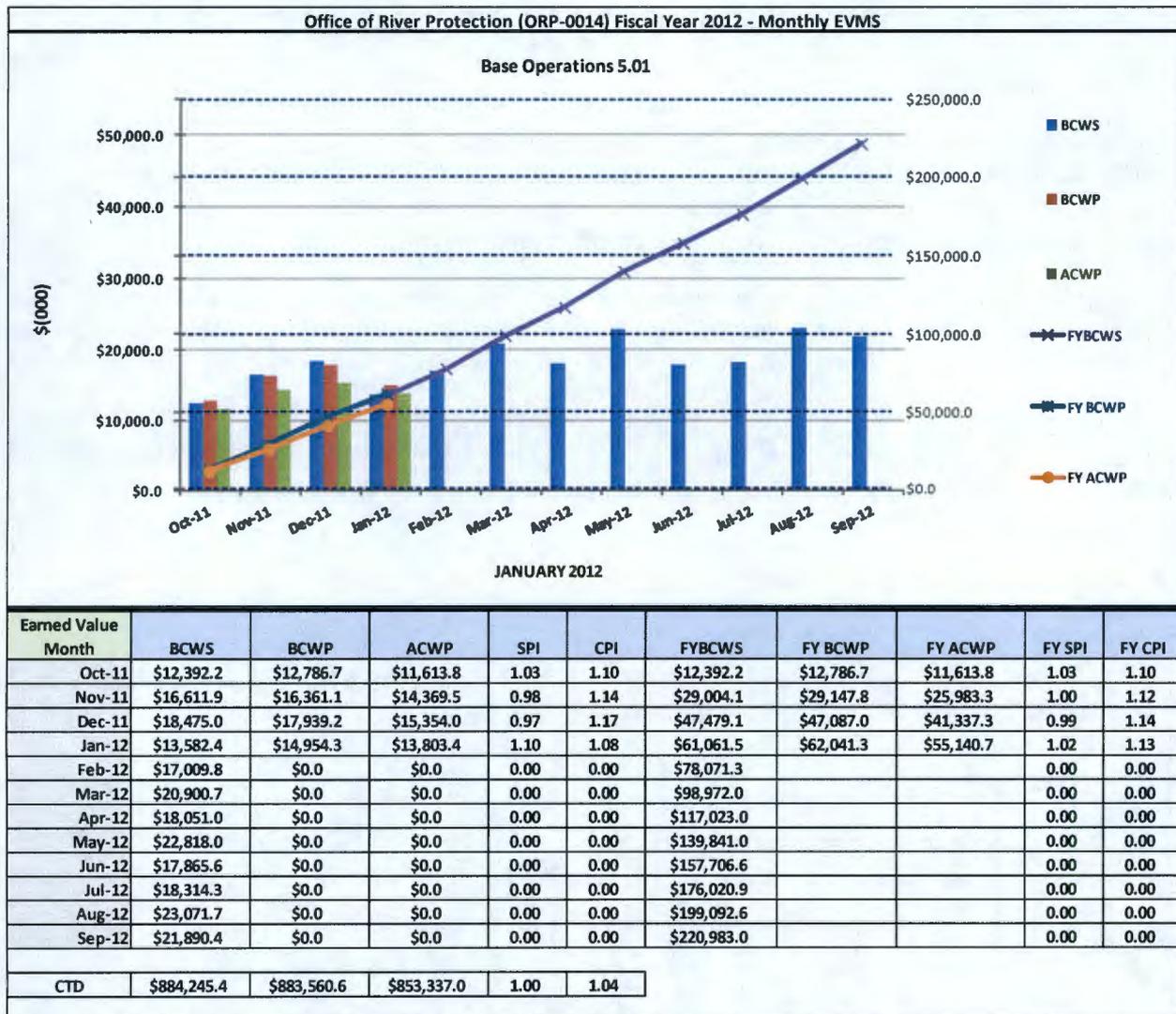
Red shaded cells indicates a SPI/CPI less than 0.90

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.



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-11	\$18,559.4	\$19,444.2	\$18,408.0	1.05	1.06	\$18,559.4	\$19,444.2	\$18,408.0	1.05	1.06
Nov-11	\$26,121.7	\$23,436.0	\$23,336.0	0.90	1.00	\$44,681.1	\$42,880.2	\$41,744.0	0.96	1.03
Dec-11	\$30,678.0	\$26,611.0	\$26,115.0	0.87	1.02	\$75,359.1	\$69,491.2	\$67,859.0	0.92	1.02
Jan-12	\$20,716.5	\$23,741.2	\$24,148.4	1.15	0.98	\$96,075.6	\$93,232.4	\$92,007.4	0.97	1.01
Feb-12	\$27,450.0	\$0.0	\$0.0	0.00	0.00	\$123,525.6			0.00	0.00
Mar-12	\$36,990.0	\$0.0	\$0.0	0.00	0.00	\$160,515.6			0.00	0.00
Apr-12	\$31,905.0	\$0.0	\$0.0	0.00	0.00	\$192,420.6			0.00	0.00
May-12	\$41,913.0	\$0.0	\$0.0	0.00	0.00	\$234,333.6			0.00	0.00
Jun-12	\$33,397.0	\$0.0	\$0.0	0.00	0.00	\$267,730.6			0.00	0.00
Jul-12	\$34,431.0	\$0.0	\$0.0	0.00	0.00	\$302,161.6			0.00	0.00
Aug-12	\$44,925.0	\$0.0	\$0.0	0.00	0.00	\$347,086.6			0.00	0.00
Sep-12	\$43,092.0	\$0.0	\$0.0	0.00	0.00	\$390,178.6			0.00	0.00
CTD	\$1,321,243.5	\$1,312,282.4	\$1,255,137.3	0.99	1.05					



Schedule Variance:

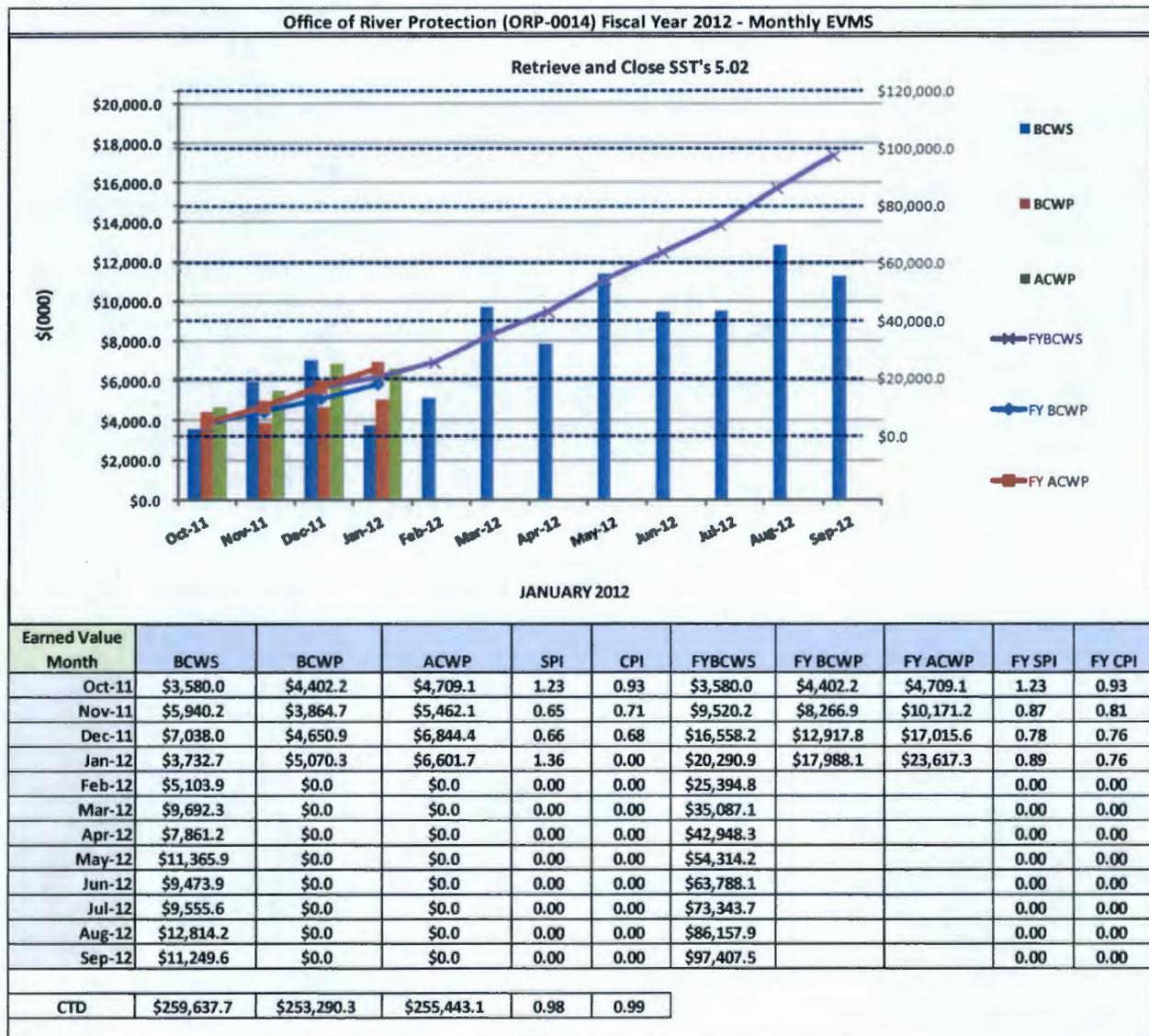
The positive schedule variance is primarily due to:

- Acceleration of design activities for the 242-A Process Condensate Sampling Station and the 242-A Evaporator Exhauster D&D.
- A current month adjustment for implementation of a baseline change request transferred the remaining FY 2012 and FY 2013 preventive maintenance activities for active C Farm retrieval tanks from Base Operations to Retrieval and Closure resulting in a positive variance.
- The DST Integrity Project implemented a Baseline Change Request which revised the number of pit inspections and the number of encasement pressure checks performed on primary waste transfer lines which created a positive schedule variance for the current month. The WRPS technical assessment has determined that the requirements determined by an Independent Qualified Registered Engineer are still met.

Cost Variance:

The unfavorable cost variance is primarily due to:

- Higher than anticipated use of the Base Operations Support Services including support for two tool cribs and their staff, mask station support, liquid observation well readings and support of maintenance vehicles.
- Base Operations Spare Parts replenishing of stock for camera equipment and radial HEPA-type filters.
- Delays in access to the TX and TY Farms to complete SST electrical upgrades. The activities required to complete the upgrades have been rescheduled to accommodate preventative and corrective maintenance activities and are expected to complete in March.
- Unplanned costs associated with the purchase of a site license for the SmartPlant Foundation impacted by additional vendor efforts to complete software configuration and development changes, including a third factory acceptance test.



**Single-Shell Tanks**

Schedule Variance:

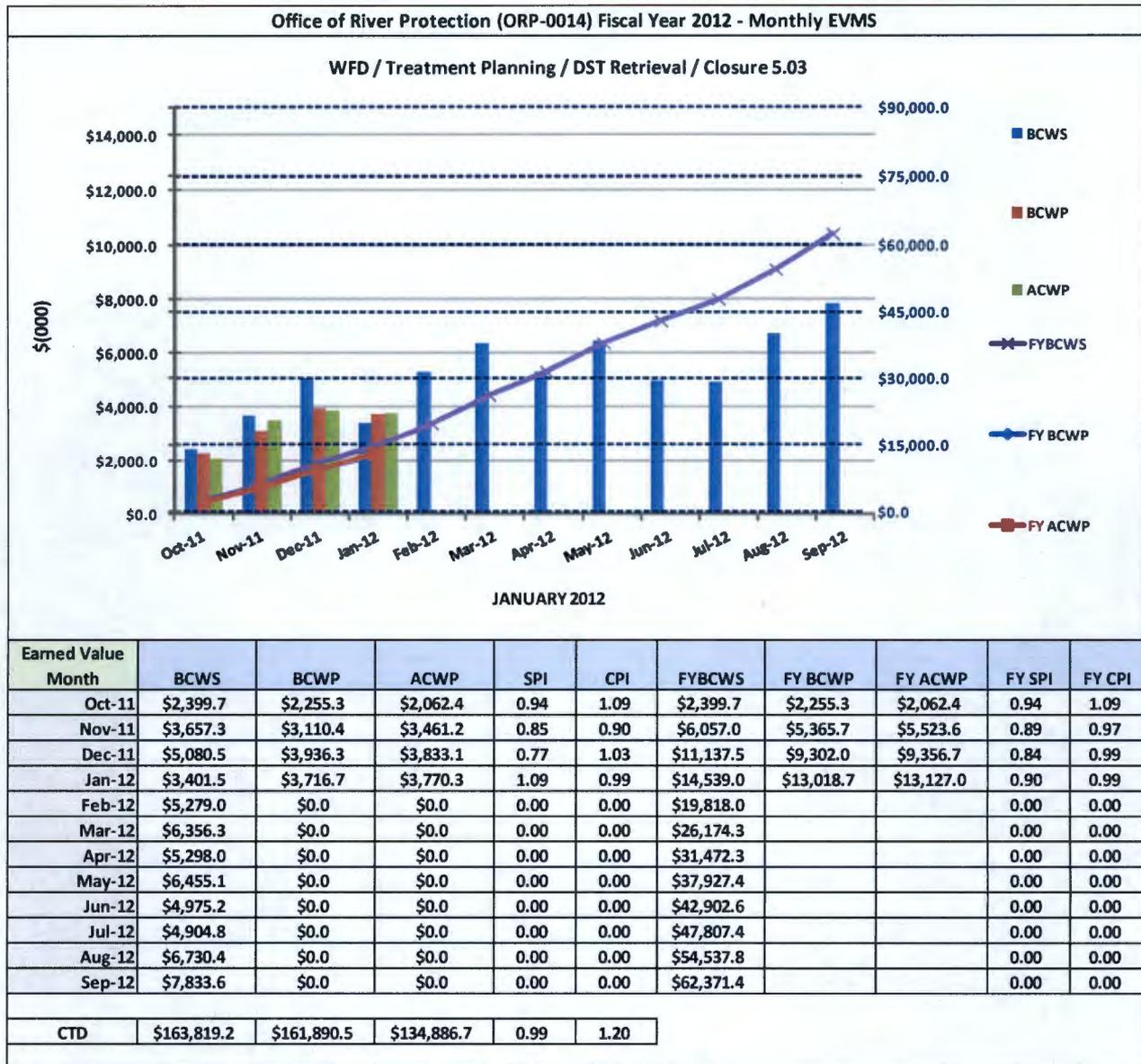
The favorable schedule variance is primarily due to:

- The status for work performed was incorrect procurement activities in the first quarter. This was corrected in January which resulted in a one-time adjustment creating a positive current month variance. There was no change to fiscal year reporting of earned value management data." In addition schedule recovery on retrieval system.
- C-105 schedule recovery for retrieval design and engineering activities. The Heel Pit Removal ECN was completed, 12" Riser Calculations were completed, and significant progress was made on the Large Riser Installation design.
- C-108 retrieval schedule recovery progress for the Hard Heel Removal Operations that was scheduled for completion in fiscal year 2011.
- C-112 retrieval schedule progress for activities that were scheduled to complete in December 2011.

Cost Variance:

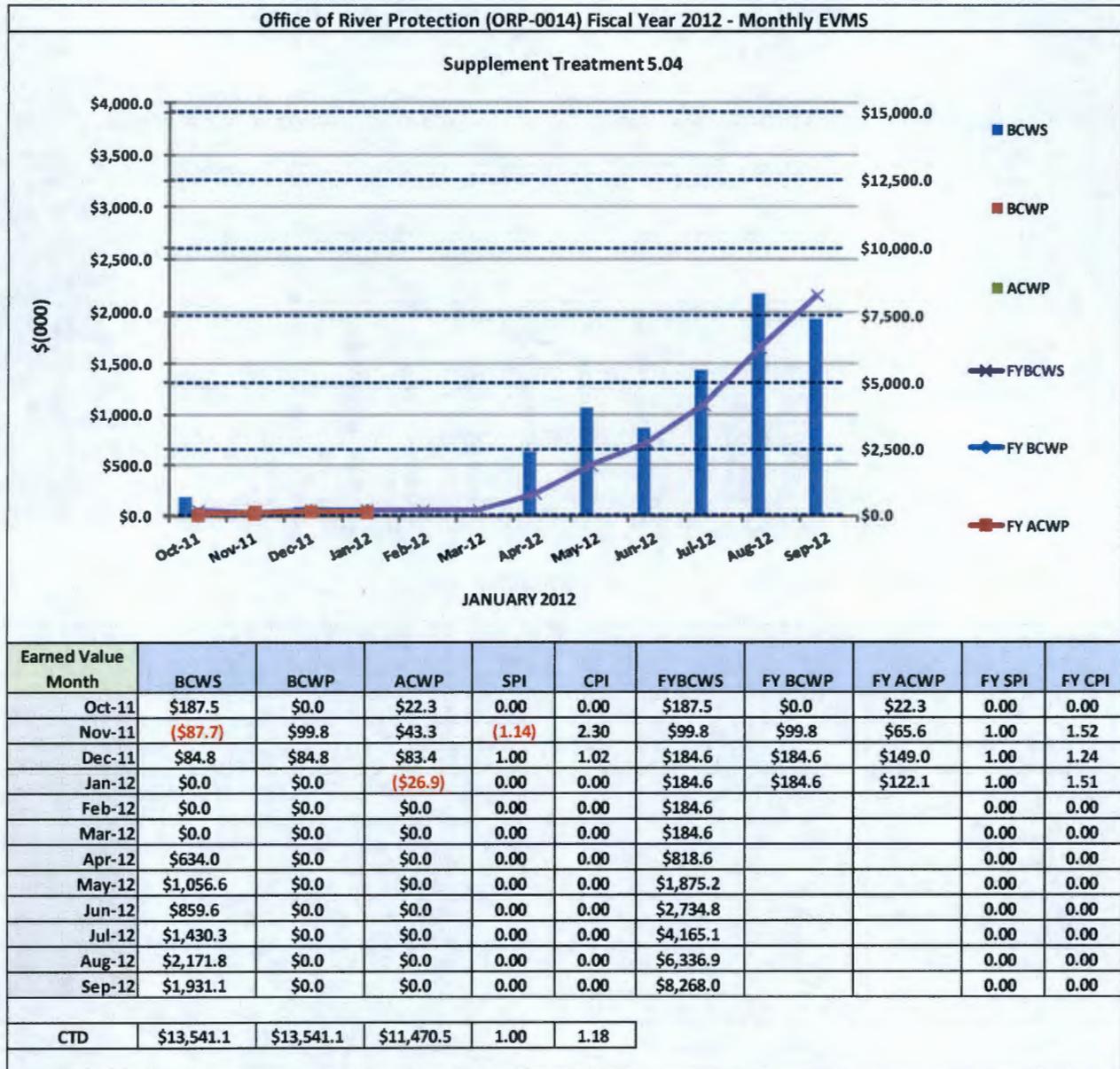
The unfavorable cost variance is primarily due to:

- C-112 retrieval operation due to cold weather impacts including shutdown of ventilation systems and thermocouple temperature monitoring requirements, and difficulty sluicing the hard surface of the waste. Final costs were received for work that was previously completed for startup and readiness and system installation. (CM costs with no BCWP earned as work is complete).
- C-107 retrieval operation and exhauster refurbish activities. The supernate pump at receiver tank AN-106 failed during operation and retrieval operation was discontinued. Unplanned maintenance/repair/troubleshooting activities were performed. In addition, the exhauster refurbish construction subcontractor submitted a contract change for additional cost incurred while performing refurbish activities. The unplanned costs were negotiated, accepted, and paid.
- C-108 hard heel removal cost impacts due to additional samples needed to determine the effectiveness of extended recirculation/water washing.
- C-111 due to the difficulties associated with obtaining waste data using the Raman Probe due to a bent four-inch riser.



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

Variations are negligible



**Supplemental Treatment**

Variations are negligible

## Acquisition of New Facilities

**M-090-11, Complete the Negotiation of No More Than Two Canister Storage Facility Construction Interim Milestones, Due: 12/31/12, Status: 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: On Schedule.** 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:

The Interim Hanford Storage Conceptual Design activities (e.g. Conceptual Design Report [CDR], Preliminary Process Hazards Analysis, Design Basis Accident Analysis, Environmental and Communications Plan, etc.) continue on schedule.

The Secondary Liquid Waste Treatment Project completed an in-process design review which focused on process flow diagrams, piping and instrument drawings, general arrangement drawings, material balances, and the process design basis. The project also completed an alternative analysis to evaluate various waste package sizes and corresponding material handling systems.

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

- Continue Conceptual Design for both the Interim Hanford Storage and Secondary Liquid Waste Treatment Projects.
- Issue the Risk Management Plans for the Interim Hanford Storage and Secondary Liquid Waste Treatment Projects.
- Issue the Safety Design Strategy and Process Hazard Analysis Report for the Interim Hanford Storage Project.
- Issue Environmental & Communication Plans for the Interim Hanford Storage Project.
- Complete the Conceptual Safety Design Report for the Interim Hanford Storage project.
- Complete Conceptual Design for both the Interim Hanford Storage and Secondary Waste Treatment Projects.
- Issue the Preliminary Hazard Categorization document for the Secondary Liquid Waste Treatment Project.
- Complete Acquisition Plans for both the Interim Hanford Storage and Secondary Liquid Waste Treatment Projects

### 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:

None

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

None

### Issues:

None

## System Plan

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

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

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

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

### **Significant Past Accomplishments:**

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

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

None

### **Issues:**

None

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

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

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

**FINAL**

**Office of River Protection  
Consent Decree 08-5085-FVS**

**Monthly Summary Report**

**March 2012**

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

Page	Topic	Leads
1	Statistics / Status	James Lynch / Dan McDonald / Jeff Lyon
3	SST Retrieval and Closure - D-00B-01, -02, -03, -04	Chris Kemp / Jeff Lyon
5	Tank Waste Retrieval Work Plan (TWRWP) Status - Consent Decree Appendix C	Chris Kemp / Jeff Lyon
6	SST Retrieval Monthly and Fiscal Year EVMS Data	Janet Diediker / 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	Balance of Facilities (BOF) - D-00A-12	Jason Young / Dan McDonald
20	Analytical Laboratory (LAB) - D-00A-005	

Milestone	Title	Due Date	Completion Date	Status
<b>Fiscal Year 2012</b>				
D-00C-02L	Submit to Ecology and Oregon Monthly Summary Reports	10/31/11	10/25/11	Completed
D-00C-02M	Submit to Ecology and Oregon Monthly Summary Reports	11/30/11	11/21/11	Completed
D-00C-02N	Submit to Ecology and Oregon Monthly Summary Reports	12/31/11	12/27/11	Completed
D-00C-02O	Submit to Ecology and Oregon Monthly Summary Reports	01/31/12	01/25/12	Completed
D-00C-02P	Submit to Ecology and Oregon Monthly Summary Reports	02/29/12	02/22/12	Completed
D-00C-02Q	Submit to Ecology and Oregon Monthly Summary Reports	03/31/12		On-going
**D-00C-02R	Submit to Ecology and Oregon Monthly Summary Reports	04/30/12		On-going
** Future Monthly Summary Reports will be added as necessary to maintain a two-months ahead activity.				
D-00C-01D	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	01/31/12	01/27/12	Completed
D-00C-01E	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	07/31/12		On-going
<b>Fiscal Year 2013</b>				
D-00C-02X	Submit to Ecology & State of Oregon Monthly Summary Report	10/31/2012		On-going
**D-00C-02Y	Submit to Ecology & State of Oregon Monthly Summary Report	11/30/2012		On-going
** Future Monthly Reports will be added as necessary to maintain a two-months ahead activity.				
D-00A-05	LAB Construction Substantially Complete	12/31/2012		On-going
D-00A-12	Steam Plant Construction Complete	12/31/2012		On-going
D-00A-21	Complete Construction of Structural Steel to EL. 37' in HLW Fac.	12/31/2012		On-going
D-00C-01F	Submit to Ecology & State of Oregon Semi-Annual Report	1/31/2013		On-going
D-00C-01G	Submit to Ecology & State of Oregon Semi-Annual Report	7/31/2013		On-going
D-006-00-A1	Provide State of Oregon Notice of Meetings	9/25/2013		On-going

Reports

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

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

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

Pursuant to the requirement in Section IV-B-5 of the Consent Decree (CD) DOE must submit to Ecology a written certification that DOE has completed retrieval of a tank in accordance with the requirements of Appendix "C", Part 1, of the CD. Tanks currently in retrieval status are C-107, C-108, C-109, C-110, C-104, C-111, and C-112.

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

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

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

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

### Significant Past Accomplishments:

1. Continued design and procurement for C-101 & 102 bulk retrieval systems.
2. Initiated field activities for installation of ventilation system and removal of legacy equipment in C-101 and C-102.
3. Completed the design for installation of Modified Sluicing systems for C-101 and C-102.
4. Continued with design and procurement for C-104 Hard Heel Removal equipment.
5. Initiated construction activities for removal of equipment at C-105, to support Large Riser installation.
6. Continued Hard Heel Removal activities with the addition of 9,000 gallons of caustic solution in C-108 and periodic recirculation of the caustic.
7. Continued design and procurement for C-109 Hard Heel Removal equipment.
8. Continued with AN-106 pump replacement.
9. Continued with sampling efforts on C-111 using a Ramon Spectrometer, as a prototype.
10. Continued with C-112 retrieval operations.

### 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. Initiate start up of Hard Heel Removal system for C-104.
4. Complete the installation of the C-105 ventilation system and removal of equipment.
5. Complete C-107 bulk retrieval.
6. Complete hard heel retrieval of C-108.
7. Complete C-112 bulk retrieval.
8. Complete discussions with Ecology on the retrieval certificate of completion.
9. Complete installation of the AN-106 replacement pump and restart of C-107 retrieval system.

**Issues:**

The C-108 tank has had a full sampling suite of analyses performed after bulk retrieval, which is what would be done for a tank after final retrieval for the Retrieval Data Report sampling and analyses. After completion of chemical dissolution which is the second retrieval technology performed at C-108, an amended tank specific sampling and analysis plan will need to be performed for the C-108 closure, to take into account previous null sample results. ORP and ECY have agreed to have a regulator approved specific sampling analysis plan developed after the second retrieval technology at C-108 following the second retrieval technology.

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

<b>Tank</b>	<b>TWRWP</b>	<b>Expected Revisions</b>	<b>Retrieval Technology</b>	<b>Second Technology</b>	<b>Third Technology</b>
C-101	RPP-22520	Complete	MRS (per 10/7/10 agreement, to be Modified Sluicing)	Chemical Dissolution	-
C-102	RPP-22393	Complete	Modified Sluicing	Chemical Dissolution	-
C-103	Retrieval Completed				
C-104	RPP-22393	In Process	Modified Sluicing	Chemical Dissolution	-
C-105	RPP-22520	Early Spring 2012	MARS-V	-	-
C-106	Retrieval Completed				
C-107	RPP-22393	In Process	MARS-S	MARS-High Pressure	-
C-108	RPP-22393	In Process	Modified Sluicing	Chemical Dissolution	-
C-109	RPP-21895	March 2012 after evaluation of C-108 hard heel retrieval	Modified Sluicing	MS-ITV, to be revised to chemical dissolution	-
C-110	RPP-33116	March 2012 after evaluation of C-108 hard heel retrieval	Modified Sluicing	To be revised to chemical dissolution	-
C-111	RPP-37739	March 2012 after evaluation of C-108 hard heel retrieval	Modified Sluicing	To be revised to include water soaking and chemical dissolution for the hard crust on the surface of the waste	-
C-112	RPP-22393	In Process	Modified Sluicing	Chemical Dissolution	-

**Significant Accomplishments**

None.

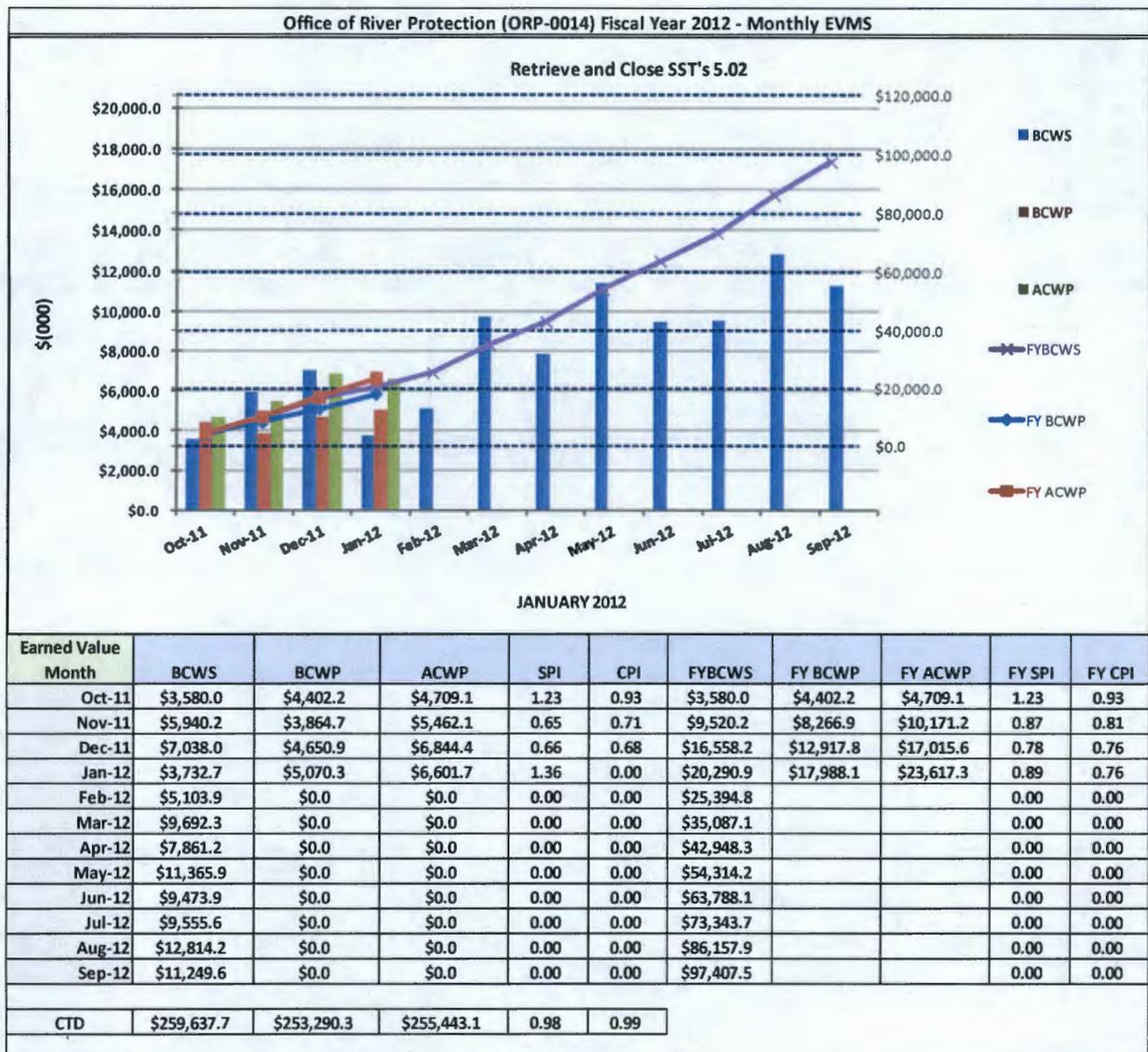
**Significant Planned Activities in the Next 6 Months:**

Work with Ecology on RPP-22520.

**Issues:**

None.

## SST Retrieval Monthly and Fiscal Year EVMS Data



### Single-Shell Tanks

#### Schedule Variance:

The favorable schedule variance is primarily due to:

- The status for work performed was incorrectly reported for procurement activities in the first quarter. This was corrected in January which resulted in a one-time adjustment creating a positive current month variance. There was no change to fiscal year reporting of earned value management data. In addition schedule recovery on retrieval system installation progressed.
- C-105 schedule recovery for retrieval design and engineering activities. The Heel Pit Removal ECN was completed, 12" Riser Calculations were completed, and significant progress was made on the Large Riser Installation design.

- C-108 retrieval schedule recovery progress for the Hard Heel Removal Operations that was scheduled for completion in fiscal year 2011.
- C-112 retrieval schedule progress for activities that were scheduled to complete in December 2011.

Cost Variance:

The unfavorable cost variance is primarily due to:

- C-112 retrieval operation due to cold weather impacts including shutdown of ventilation systems and thermocouple temperature monitoring requirements, and difficulty sluicing the hard surface of the waste. Final costs were received for work that was previously completed for startup and readiness and system installation. (CM costs with no BCWP earned as work is complete).
- C-107 retrieval operation and exhauster refurbish activities. The supernate pump at receiver tank AN-106 failed during operation and retrieval operation was discontinued. Unplanned maintenance/repair/troubleshooting activities were performed. In addition, the exhauster refurbish construction subcontractor submitted a contract change for additional cost incurred while performing refurbishment activities. The unplanned costs were negotiated, accepted, and paid.
- C-108 hard heel removal cost impacts due to additional samples needed to determine the effectiveness of extended recirculation/water washing.
- C-111 due to the difficulties associated with obtaining waste data using the Raman Probe due to a bent four-inch riser.

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

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

The WTP Project currently employs about 3,883 Full-Time Equivalent (FTE) contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel, including 787 craft, 600 non-manual, and about 180 subcontractor personnel FTEs working at the WTP construction site (all facilities). As of January 2012, the project was 63 percent complete overall, design and engineering was 84 percent complete, procurement was 68 percent complete, construction was 60 percent complete, and startup and commissioning was 14 percent complete.

The overall WTP Project schedule variance in January was a positive \$11.1M; the cost variance was a negative \$25.4M. The cost variance was primarily related to Engineering Design, Construction Crafts, Plant Equipment, and Construction Subcontracts; and the schedule variance was primarily related to Plant Equipment, Bulk Materials, and Construction Subcontracts.

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

**Significant Past Accomplishments:**

- Aerosol testing to determine realistic entrainment coefficient for the Process Vessel Vent Exhaust (PVV) system has been started for PT
- Completed 50% of submerged bed scrubber and 60% of High Efficiency Mist Elimination vessels for HLW
- Completed 75% of the concrete in HLW with 58ft elevation walls continuing and a majority of the 37ft slabs complete
- Substantially completed mechanical systems design for the LAW facility
- Interface Control Document (ICD) 11 "Interface Control Document for Electricity" currently being revised, in support of site start-up

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

- Complete erection of 4<sup>th</sup>-tier structural steel in PT (77ft to 98ft elevation)
- Perform Large Scale Integrated Testing (LSIT) in 4ft and 8ft vessels for the Validation and Verification (V&V) of Computational Fluid Dynamics (CFD) program to resolve mixing issues
- Set in-place two piping modules (PA07 upper, PA01 lower) in the PT black cells
- Receive Plant Wash and Drains vessel for HLW (RLD-VSL-8)
- Complete installation of LAW melter power supplies
- Complete installation of the LAW autosampler (ASX system)
- Complete installation of the LAB autosampler System
- Complete construction of the BOF cooling tower

- Complete construction of BOF switchgear building

**Issues:**

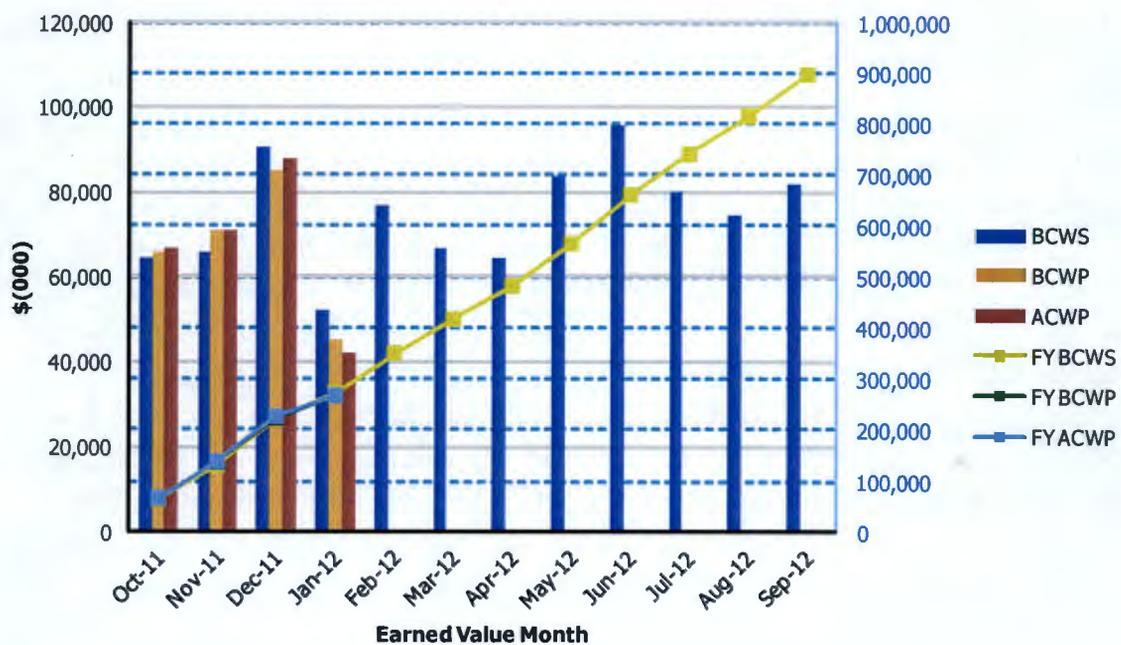
- PT and HLW Facilities: Other issues have potential impacts on the PTF and HLW schedule. This includes risks that the project has already realized and the plans for addressing the remaining risks in the PTF and HL.
- No significant technical issues in LAW, LAB or BOF at this time

Data Set: FY 2012 Earned Value Data

Data as of: January 2012

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

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$64,411	\$65,869	\$66,670	1.02	0.99	\$64,411	\$65,869	\$66,670	1.02	0.99
Nov 2011	\$65,647	\$70,625	\$70,879	1.08	1.00	\$130,058	\$136,494	\$137,549	1.05	0.99
Dec 2011	\$90,699	\$85,246	\$87,845	0.94	0.97	\$220,757	\$221,740	\$225,394	1.00	0.98
Jan 2012	\$52,248	\$45,149	\$41,816	0.86	1.08	\$273,005	\$266,889	\$267,210	0.98	1.00
Feb 2012	\$76,818			0.00		\$349,823			0.00	
Mar 2012	\$66,635			0.00		\$416,458			0.00	
Apr 2012	\$64,587			0.00		\$481,045			0.00	
May 2012	\$83,766			0.00		\$564,811			0.00	
Jun 2012	\$95,717			0.00		\$660,528			0.00	
Jul 2012	\$80,199			0.00		\$740,727			0.00	
Aug 2012	\$74,342			0.00		\$815,069			0.00	
Sep 2012	\$81,928			0.00		\$896,996			0.00	
PTD	\$6,736,753	\$6,747,843	\$6,773,235	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-going* (see issues below)
D-00A-13	Complete Installation of Pretreatment Feed Separation Vessels	12/31/2015	On-going* (see issues below)
D-00A-14	PT Facility Construction Substantially Complete	12/31/2017	On-going* (see issues below)
D-00A-15	Start PT Facility Cold Commissioning	12/31/2018	On-going* (see issues below)
D-00A-16	PT Facility Hot Commissioning Complete	12/31/2019	On-going* (see issues below)

The Pretreatment (PT) Facility will separate radioactive tank waste into High Level Waste (HLW) and Low-Activity Waste (LAW) fractions and transfer each waste type to the respective vitrification facility for immobilization. Through January 2012, the PT Facility is 52 percent complete overall, with engineering design 79 percent complete, procurement 50 percent complete, construction 42 percent complete, and startup and commissioning was 4 percent complete.

**Significant Past Accomplishments:**

On-going work includes installation of rebar and embedded conduit for the placement of Control Building basemat and 98ft elevation slabs, black cell piping, drain piping, cable trays and supports, conduit and grounding, structural steel at the 77ft elevation, and roof decking.

Aerosol testing to determine realistic entrainment coefficient for the Process Vessel Vent Exhaust (PVV) system is continuing at the Parsons Facility in Pasco. The "Small" scale tests are nearly completed, and are showing positive results. Fabrication is progressing well for the test equipment for the "Medium" scale aerosol testing to be conducted at the same facility in March 2012.

BNI is actively working to resolve issues regarding vessel material selection and mixing. The first Pulse Jet Mixer (PJM) array has been placed in the 8' vessel in support of the Verification and Validation (V&V) testing for Computational Fluid Dynamics (CFD). Tests are forecasted to start in March 2012. Overall all five of the deliverables, due to the Defense Nuclear Facilities Safety Board (DNFSB) in January/February 2012, were submitted in accordance with the Implementation Plan (IP) for the DNFSB 2010-2 recommendation.

DOE-ORP has obtained Ecology approval of the Dangerous Waste Permit packages to proceed with the alteration of the on-site vessels FRP-2A/B/C/D and UFP-62A/B/C. In addition, DOE-ORP has obtained State of Washington, Department of Ecology (Ecology) approval to proceed with the Cesium Ion Exchange (CXP) system redesign within the DWP. Issued re-committed system design documents for the Plant Wash and Disposal (PWD) system.

The PT critical path primarily flows through installation of the Lag Storage and Feed Blending Process vessel, HLP-22. The next critical path flows through the Pretreatment Vessel Vent Process (PVP) system design, equipment procurement, and construction. The tertiary critical path flows through the setting of Ultra filtration Process vessel UFP-2A and the construction build out in black cell planning area 3. Construction and equipment procurement has been slowed due to funding constraints in FY 2012.

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

- Continue erection of 4<sup>th</sup> tier structural steel (77ft to 98ft elevation)
- Set in-place 2 piping modules (PA07 upper, PA01 lower) in the black cells
- Set hot cell vertical door drive mechanism replacement gearbox and switch
- Complete aerosol testing to determine entrainment coefficient for the PVV system
- Complete placements for the Control Building basemat, and make initial 98 foot elevation slab placements
- Complete fabrication of Lag Storage and Feed Blending Process (HLP) vessels-27A/B
- Complete resolution of the material selection issues with the vessels
- Perform LSIT in 4ft and 8ft vessels for the V&V of Computational Fluid Dynamics (CFD) program

**Issues:**

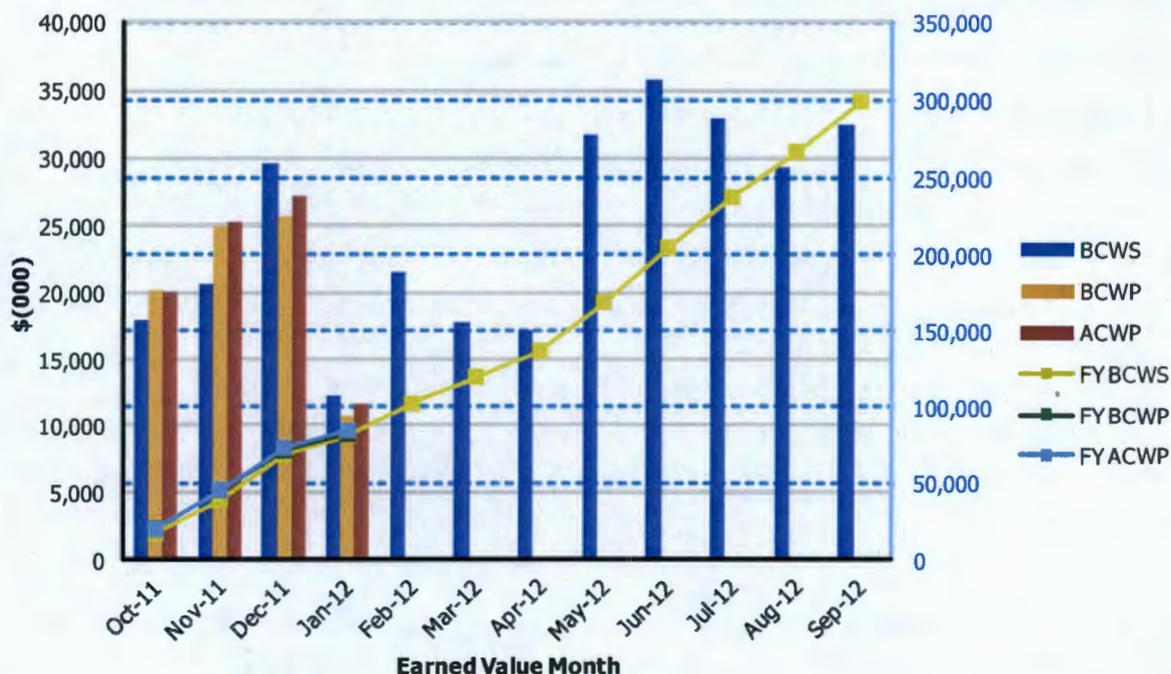
\* Other issues have potential impacts on the PT schedule. This includes risks that the project has already realized and the plans for addressing the remaining risks in the PTF.

Data Set: FY 2012 Earned Value Data

Data as of: January 2012

**River Protection Project  
Pretreatment Facility**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$17,935	\$20,110	\$20,000	1.12	1.01	\$17,935	\$20,110	\$20,000	1.12	1.01
Nov 2011	\$20,616	\$24,945	\$25,222	1.21	0.99	\$38,551	\$45,055	\$45,222	1.17	1.00
Dec 2011	\$29,580	\$25,673	\$27,175	0.87	0.94	\$68,131	\$70,728	\$72,397	1.04	0.98
Jan 2012	\$12,292	\$10,751	\$11,583	0.87	0.93	\$80,423	\$81,479	\$83,980	1.01	0.97
Feb 2012	\$21,466			0.00		\$101,889			0.00	
Mar 2012	\$17,804			0.00		\$119,693			0.00	
Apr 2012	\$17,121			0.00		\$136,815			0.00	
May 2012	\$31,749			0.00		\$168,564			0.00	
Jun 2012	\$35,807			0.00		\$204,371			0.00	
Jul 2012	\$32,977			0.00		\$237,348			0.00	
Aug 2012	\$29,294			0.00		\$266,642			0.00	
Sep 2012	\$32,525			0.00		\$299,167			0.00	
<b>PTD</b>	<b>\$1,323,597</b>	<b>\$1,330,977</b>	<b>\$1,304,594</b>	<b>1.01</b>	<b>1.02</b>					

**HIGH-LEVEL WASTE (HLW) FACILITY**

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

The High Level Waste (HLW) Facility will receive the separated high-level waste 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 58 percent complete overall, with engineering design 86 percent complete, procurement 74 percent complete, construction 39 percent complete, and startup and commissioning is 4 percent complete.

**Significant Past Accomplishments:**

Following re-sequencing of the slab over the Filter Cave and the associated walls, the critical path has become the Melter Cell #2 build out. The re-sequencing of the slab will improve installation unit rates for commodities in the Filter Cave. The near term critical path activities now include two Melter Cell walls, installation of four wall modules, and steel liner plate and insulation on the floor. The submerged bed scrubber and High Efficiency Mist Elimination vessels are the major procurements associated with the Melter Cave build out. Current scheduled date to set vessels is May 2013. The vessels are in production and 50% and 60% complete respectively with the last to deliver in January of 2013.

The seismic rails for the decontamination rinse bogie have been set. The rails will be installed following the setting of the decontamination rinse bogie for final alignment. Fabrication of Plant Wash and Drain Vessel (RLD-VSL-08) was completed; it has been shipped from its location in England and should arrive in Vancouver, WA March 19<sup>th</sup>. All dampers have been fully welded out in the filter cave with the steel decking to be installed after structural steel is placed. Electrical and piping commodities are progressing throughout the -21ft, 0ft and 14ft elevation, 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), fire protection piping, and liner plate installations. 75% of the concrete has been poured in the facility with 58ft elevation walls continuing and a majority of the 37ft slabs complete.

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

- Complete Filter Cave Remote-Operated Dampers Installation
- Receive Plant Wash and Drains Vessel (RLD-VSL-8)
- Receive Primary Offgas Vessel HEME Vessel

- Stage Rinse Bogie with Rinse Vessel in Canister Rinse Tunnel

**Issues:**

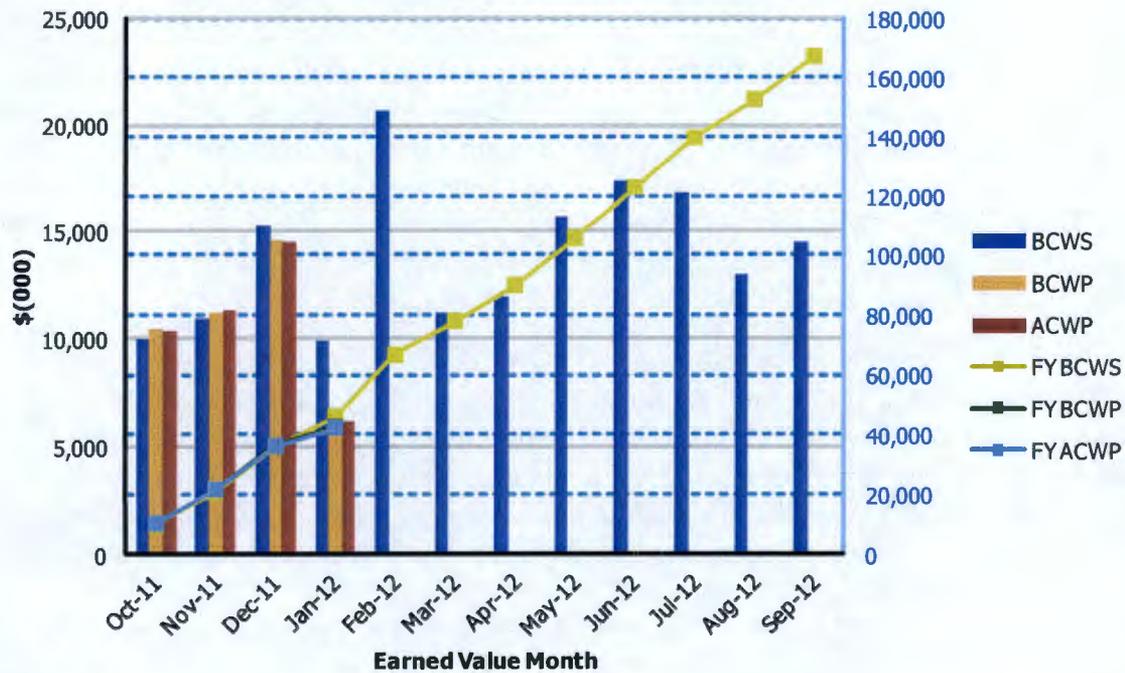
\*Various issues may have potential impacts on the HLW schedule. This includes risks that the project has already realized and the plans for addressing the remaining risks in the HLW.

Data Set: FY 2012 Earned Value Data

Data as of: January 2012

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

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$9,953	\$10,437	\$10,368	1.05	1.01	\$9,953	\$10,437	\$10,368	1.05	1.01
Nov 2011	\$10,920	\$11,224	\$11,295	1.03	0.99	\$20,873	\$21,661	\$21,663	1.04	1.00
Dec 2011	\$15,209	\$14,578	\$14,472	0.96	1.01	\$36,082	\$36,239	\$36,135	1.00	1.00
Jan 2012	\$9,878	\$6,187	\$6,142	0.63	1.01	\$45,960	\$42,426	\$42,277	0.92	1.00
Feb 2012	\$20,661			0.00		\$66,621			0.00	
Mar 2012	\$11,228			0.00		\$77,849			0.00	
Apr 2012	\$12,000			0.00		\$89,849			0.00	
May 2012	\$15,677			0.00		\$105,526			0.00	
Jun 2012	\$17,388			0.00		\$122,914			0.00	
Jul 2012	\$16,812			0.00		\$139,725			0.00	
Aug 2012	\$12,944			0.00		\$152,669			0.00	
Sep 2012	\$14,486			0.00		\$167,155			0.00	
PTD	\$875,454	\$874,052	\$867,335	1.00	1.01					

**LOW-ACTIVITY WASTE (LAW) FACILITY**

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

The Low-Activity Waste (LAW) Facility will vitrify LAW from the Pretreatment (PT) Facility. Waste will be mixed with glass formers, vitrified into glass at a design capacity of 30 metric tons per day, and placed in stainless steel containers that will be disposed on the Hanford Site in the Integrated Disposal Facility. The LAW Facility is 67 percent complete overall, with engineering design 86 percent complete, procurement 86 percent complete, construction 68 percent complete, and startup and commissioning is four percent complete.

**Significant Past Accomplishments:**

Electrical systems design continues in support of all equipment, controls, and lighting throughout the facility. For example, a functional diagram for C5V system High-Efficiency Particulate Air (HEPA) filter instrumentation was issued. The Dangerous Waste Permit (DWP) package LAW-027 was delivered to the Washington State Department of Ecology. A logic diagram for solenoid valves for mercury analysis in the mercury mitigation equipment was issued. Piping isometric drawings for the Radioactive Liquid Waste Disposal (RLD) system were issued. A confirmed calculation for the LAW Stack Drain Line Hazards was issued (LAW primary off-gas process (LOP) system). Several architectural room finishing schedules were issued. Piping support drawings were issued for the Chilled Water (CHW) system, LAW Secondary Off-gas/Vessel Vent Process (LVP) system, and the LAW Melter Feed Process (LFP) system.

Procurement activities for the LAW facility are currently focused on the LVP system components. Engineering review of vendor calculations and vendor interactions continued as a major emphasis during the ongoing procurement of LVP system components. The melter refractory subcontract was awarded.

The primary areas of construction focus continued to be LAW facility partition wall installation and equipment installation for the Container Finishing Handling (LFH) system. For example, installation of the decontamination manipulators, finishing line dual-rail hoist and the trolley/bogie cars for the LFH system continued. The architectural specialties subcontractor started mobilizing to the site and laying out walls. Construction activities were initiated to pull Melter #1 into its final position and pin it in place in order to begin piping, hose, and electrical trial fit-ups prior to arrival of the melter refractory. Other on-going construction activities included installation of a robotic arm for the Autosampler (ASX) system, HEPA damper and exhaust ductwork, pour cave monorail hoists for the Container Pour Handling (LPH) system, the buffer storage crane, Low-Voltage Electrical (LVE) equipment, and heat exchangers/tanks next to the melters. Alignment of the bogie car rails was completed.

Several software system related documents were issued in February including: *System Design Document for LAW Concentrate Receipt Process (LCP) System, LAW Container Export Handling (LEH) System Software Acceptance Test, LAW LOP [LAW Primary Off-Gas Process] System Software Acceptance Test Report, and LAW LCP [LAW Concentrate Receipt Process System] Software Acceptance Test.* Integrated Control Network (ICN) development continued with software design and testing for the following systems:

- Melter Feed Process (LFP)
- Container Finishing Handling (LFH)
- Auto Sampling (ASX)
- Container Pour Handling (LPH)
- Secondary Offgas/Vessel Vent Process (LVP)
- Container Export Handling (LEH)
- Concentrate Receipt Process (LCP)
- Non-radioactive Liquid Waste Disposal (NLD)
- LAW Melter Process (LMP)
- LAW Primary Offgas Process (LOP)

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

- Complete installation of melter power supplies
- Complete installation of auto sampling (ASX) system
- Receive Exhausters for LVP system
- Receive HEPA Pre-heaters for LVP system
- Receive HEPA Housings for LVP system

**Issues:**

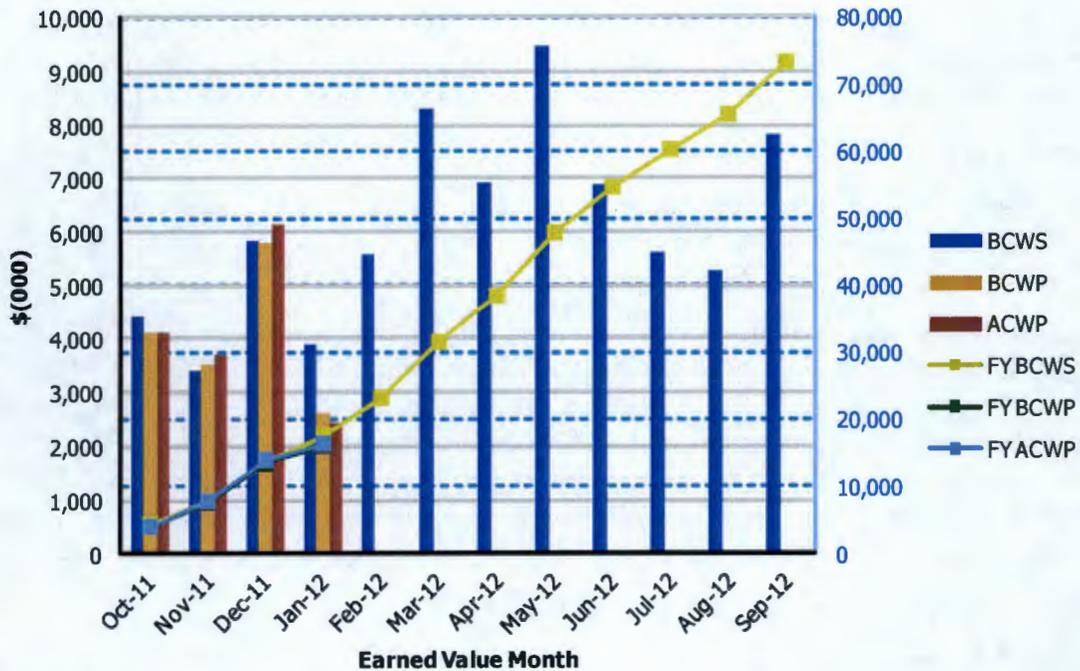
No major issues at this time.

Data Set: FY 2012 Earned Value Data

Data as of: January 2012

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

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$4,415	\$4,115	\$4,104	0.93	1.00	\$4,415	\$4,115	\$4,104	0.93	1.00
Nov 2011	\$3,404	\$3,510	\$3,704	1.03	0.95	\$7,819	\$7,625	\$7,808	0.98	0.98
Dec 2011	\$5,827	\$5,807	\$6,123	1.00	0.95	\$13,646	\$13,432	\$13,931	0.98	0.96
Jan 2012	\$3,886	\$2,617	\$2,412	0.67	1.08	\$17,532	\$16,049	\$16,343	0.92	0.98
Feb 2012	\$5,573			0.00		\$23,105			0.00	
Mar 2012	\$8,317			0.00		\$31,421			0.00	
Apr 2012	\$6,920			0.00		\$38,341			0.00	
May 2012	\$9,462			0.00		\$47,804			0.00	
Jun 2012	\$6,892			0.00		\$54,696			0.00	
Jul 2012	\$5,606			0.00		\$60,303			0.00	
Aug 2012	\$5,257			0.00		\$65,560			0.00	
Sep 2012	\$7,821			0.00		\$73,381			0.00	
<b>PTD</b>	<b>\$654,116</b>	<b>\$653,311</b>	<b>\$698,879</b>	<b>1.00</b>	<b>0.93</b>					

**BALANCE OF FACILITIES (BOF)**

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

The Balance of Facilities (BOF) provides services and utilities to support operation of the main production facilities – PT, HLW, LAW, and LAB. The BOF is 48 percent complete overall, with engineering design 72 percent complete, procurement 47 percent complete, and construction 63 percent complete, startup and commissioning was 8 percent complete.

**Significant Past Accomplishments:**

The BOF team continues to focus on facility completion, turnover, and startup. With eight facilities scheduled for turnover to startup by the end of FY2013, the focus is shifting to individual facility requirements within BOF.

The WTP site switchgear buildings (87 and 91) and Chiller Compressor Plant (CCP) are two areas with increased work activity and management oversight. Weekly meetings are being held to support completion of the CCP and planning for the start-up of Building 87. In support of site start-up, Interface Control Document (ICD) 11 “Interface Control Document for Electricity” is currently being revised, and all parties are preparing for start-up of Building 87 via the A6 substation this calendar year. DOE recently toured the A6 substation along with BNI and MSA representatives.

**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

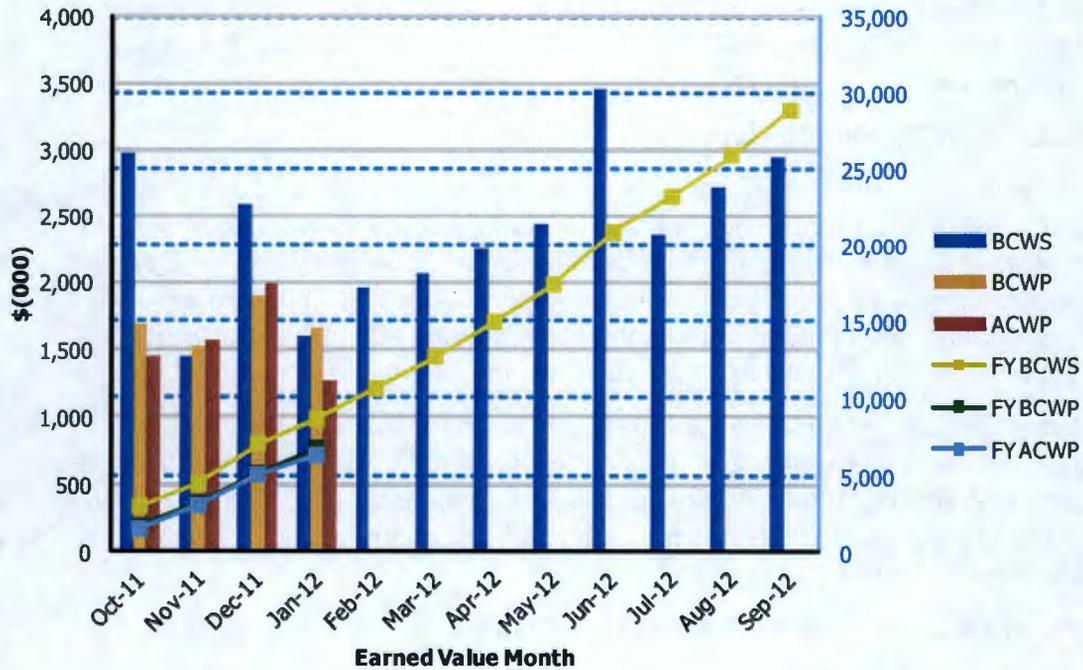
### EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2012 Earned Value Data

Data as of: January 2012

**River Protection Project  
Balance of Facilities**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$2,980	\$1,685	\$1,454	0.57	1.16	\$2,980	\$1,685	\$1,454	0.57	1.16
Nov 2011	\$1,455	\$1,524	\$1,564	1.05	0.97	\$4,435	\$3,209	\$3,018	0.72	1.06
Dec 2011	\$2,594	\$1,895	\$1,981	0.73	0.96	\$7,029	\$5,104	\$4,999	0.73	1.02
Jan 2012	\$1,597	\$1,652	\$1,262	1.03	1.31	\$8,626	\$6,756	\$6,261	0.78	1.08
Feb 2012	\$1,964			0.00		\$10,590			0.00	
Mar 2012	\$2,060			0.00		\$12,650			0.00	
Apr 2012	\$2,256			0.00		\$14,907			0.00	
May 2012	\$2,444			0.00		\$17,351			0.00	
Jun 2012	\$3,461			0.00		\$20,812			0.00	
Jul 2012	\$2,356			0.00		\$23,168			0.00	
Aug 2012	\$2,727			0.00		\$25,895			0.00	
Sep 2012	\$2,946			0.00		\$28,841			0.00	

PTD	\$262,468	\$258,867	\$255,317	0.99	1.01
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**ANALYTICAL LABORATORY**

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

The Analytical Laboratory (LAB) will support the Hanford Tank Waste Treatment and Immobilization (WTP) operations by analyzing feed, vitrified waste, and effluent streams. The LAB is 51 percent complete overall, with engineering design 78 percent complete, procurement 75 percent complete, construction 77 percent complete, and startup and commissioning was 10 percent complete.

**Significant Past Accomplishments:**

Efforts of the LAB team continue to be focused on completion of the LAB Construction Substantially Complete milestone. Weekly meetings are held to evaluate construction progress and challenges that arise. Major structures of the building are in place, and the detail/finishing work continues with emphasis on installation of partition walls, laboratory cabinets, and fume hoods. Installation of these interior commodities provides an opportunity to better understand the layout of individual rooms and the overall facility.

Modifications are in progress for the HVAC system to support installation of test ports and relocation of electrical equipment originally destined for the WTP administrative building. The additional HVAC load of the relocated equipment resulted in substantial changes to the HVAC system and pushed the targeted system completion date approximately 2 months. The milestone schedule however, continues to be on target.

**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.

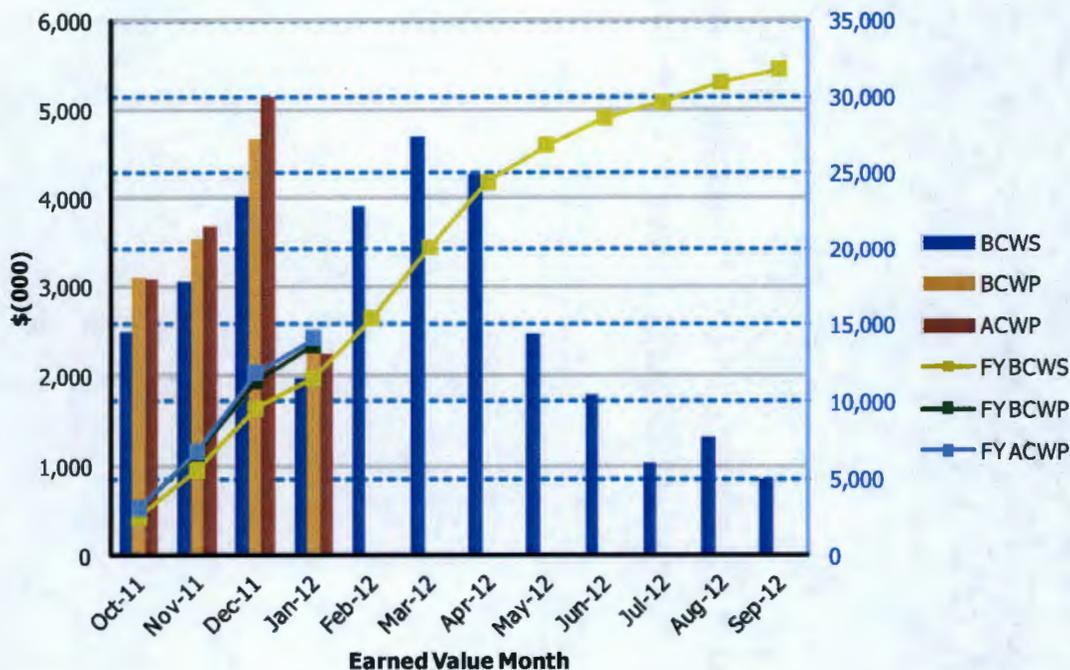
### EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2012 Earned Value Data

Data as of: January 2012

**River Protection Project  
Analytical Laboratory**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$2,489	\$3,092	\$3,063	1.24	1.01	\$2,489	\$3,092	\$3,063	1.24	1.01
Nov 2011	\$3,040	\$3,551	\$3,680	1.17	0.96	\$5,529	\$6,643	\$6,743	1.20	0.99
Dec 2011	\$4,005	\$4,676	\$5,128	1.17	0.91	\$9,534	\$11,319	\$11,871	1.19	0.95
Jan 2012	\$1,970	\$2,318	\$2,242	1.18	1.03	\$11,504	\$13,637	\$14,113	1.19	0.97
Feb 2012	\$3,893			0.00		\$15,397			0.00	
Mar 2012	\$4,687			0.00		\$20,084			0.00	
Apr 2012	\$4,259			0.00		\$24,343			0.00	
May 2012	\$2,468			0.00		\$26,811			0.00	
Jun 2012	\$1,798			0.00		\$28,608			0.00	
Jul 2012	\$1,024			0.00		\$29,632			0.00	
Aug 2012	\$1,309			0.00		\$30,941			0.00	
Sep 2012	\$838			0.00		\$31,779			0.00	

PTD	\$181,306	\$182,106	\$194,882	1.00	0.93
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Waste Treatment Plant Project - Percent Complete Status Through January 2012															
(Dollars - Millions)	Overall Facility Percent Complete Unallocated Dollars			Design/Engineering Unallocated Dollars			Procurement Unallocated Dollars			Construction Unallocated Dollars			Startup & Commissioning Unallocated Dollars		
	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete
Facilities															
Low-Activity Waste	972.3	653.3	67%	238.1	205.9	86%	240.7	207.3	86%	344.7	233.6	68%	148.8	6.5	4%
Analytical Lab	356.6	182.1	51%	57.4	44.1	77%	56.2	42.1	75%	107.4	82.4	77%	135.5	12.9	10%
Balance of Facilities	536.6	258.9	48%	88.4	63.5	72%	81.3	38.5	47%	230.8	145.8	63%	136.1	11.1	8%
High-Level Waste	1,507.2	874.1	58%	350.3	301.9	86%	457.7	338.7	74%	581.4	228.8	39%	117.8	4.7	4%
Pretreatment	2,545.0	1,331.0	52%	743.7	586.5	79%	712.9	359.9	50%	905.7	377.7	42%	182.6	6.9	4%
Shared Services	4,732.6	3,448.5	73%	1,027.4	912.9	89%	472.2	386.6	82%	1,428.4	1,089.7	76%	455.9	125.7	28%
<b>Total WTP w/o UB</b>	<b>10,650.2</b>	<b>6,747.8</b>	<b>63%</b>	<b>2,505.3</b>	<b>2,114.7</b>	<b>84%</b>	<b>2,021.0</b>	<b>1,373.1</b>	<b>68%</b>	<b>3,598.4</b>	<b>2,158.0</b>	<b>60%</b>	<b>1,176.8</b>	<b>167.8</b>	<b>14%</b>
Undistributed Budget	0.0	n/a	n/a	n/a	n/a	n/a									
<b>Total WTP</b>	<b>10,650.2</b>	<b>6,747.8</b>	<b>63%</b>	<b>2,505.3</b>	<b>2,114.7</b>	<b>84%</b>	<b>2,021.0</b>	<b>1,373.1</b>	<b>68%</b>	<b>3,598.4</b>	<b>2,158.0</b>	<b>60%</b>	<b>1,176.8</b>	<b>167.8</b>	<b>14%</b>

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

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

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

Milestone Title	Milestone Number	Document	TPA Milestone Due Date (if applicable) <sup>1</sup>	ORP Delivery to Regulators Date <sup>2</sup>	Anticipated Regulatory Review Completion Date <sup>3</sup>	Final Completion Date <sup>4</sup>	DOE-ORP Lead	Contractor Lead	Ecology Lead	Comments/Issues	
Submit to Ecology for Review and Approval as an Agreement Primary Document, a Phase 2 RCRA Facility Investigation/Corrective Measure Study Report for WMA C	Supports M-045-61	WMA C PA Ecological Risk Assessment Data Package, RPP-RPT-49425, Rev 0		04/19/11			B. Lober	S. Eberlein	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	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> <li>Feeds input for M-045-61 and all Closure Plans</li> <li>ORP met with ECY on 09/22/11 to provide status and setup meeting to discuss path forward.</li> </ul>	
	Supports M-045-61	WMA C Characterization Summary 2012		09/30/12			B. Lober	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> <li>Feeds input for M-045-61 and all Closure Plans</li> </ul>	
		WMA C PA Initial Model Run Data Package		06/30/13			C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> <li>Feeds input for M-045-61 and all Closure Plans</li> </ul>	
		WMA C Characterization Summary 2013		09/30/13			B. Lober	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> <li>Feeds input for M-045-61 and all Closure Plans</li> </ul>	
		WMA C PA Initial Document		09/30/13			C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> <li>Feeds input for M-045-61 and all Closure Plans</li> </ul>	
M-045-61	Phase 2 RFI/CMS Report for WMA C		12/31/14	12/31/14			B. Lober	S. Eberlein	J. Lyon		
Submit to Ecology for Review and Approval as an Agreement Primary Document, a Phase 2 Corrective Measures Implementation Work Plan for WMA C.	M-045-62	Phase 2 Corrective Measures Implementation Work Plan for WMA C		06/30/15	06/30/15			B. Lober	S. Eberlein	J. Lyon	
Complete portions of the C-200 Closure Demonstration Plan necessary to complete closure plan development for the SST system.	M-045-80	Description of Radioactive Waste Determination Process	01/31/11	12/28/10	06/30/11			C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> <li>Initial ORP letter, 10-TPD-166 sent to ECY on 12/28/10</li> <li>ECY review extension to 04/18/11 received by ORP on 02/11/11.</li> <li>ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11.</li> <li>2<sup>nd</sup> ECY review extension letter 11-NWP-028 received by ORP on 04/20/11.</li> <li>3<sup>rd</sup> ECY review extension letter 11-NWP-049 received by ORP on 06/02/11.</li> <li>ECY RCR received by ORP on 12/05/11 via letter 11-NWP-146.</li> <li>Extension for comment resolution to 03/15/12 per 01/12 PMM.</li> <li>ORP provided copies of the draft RPP-PLAN-47325 redline/strikeout revision in response to ECY's comments via email on 03/15/12.</li> </ul>

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

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

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

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

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

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

Milestone Title	Milestone Number	Document	TPA Milestone Due Date (if applicable) <sup>1</sup>	ORP Delivery to Regulators Date <sup>2</sup>	Anticipated Regulatory Review Completion Date <sup>3</sup>	Final Completion Date <sup>4</sup>	DOE-ORP Lead	Contractor Lead	Ecology Lead	Comments/Issues
Implement and Complete All Remaining Activities in the June 6, 2007 C-200 Closure Demonstration Plan (with any revisions as agreed to by Ecology and DOE).	Supports M-045-81 (S)	Pipeline Feasibility Study, RPP-RPT-45723		12/28/10	06/01/11		C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> <li>Feeds input to M-045-81.</li> <li>Initial ORP letter 10-TPD-166 sent to ECY on 12/28/10</li> <li>ECY review extension to 04/18/11 received by ORP on 02/11/11</li> <li>ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11</li> <li>2<sup>nd</sup> ECY review extension letter 11-NWP-028 received by ORP on 04/20/11.</li> <li>ECY RCR letter 11-NWP-052 received by ORP on 06/03/11.</li> <li>ORP sent comment response extension letter 11-TF-067 on 06/16/11 to ECY to extend final response date to 09/25/11.</li> <li>In October 2011 PMM ECY/ORP agreed to extension to 12/05/11.</li> <li>Extension for comment resolution to 03/15/12 per 01/12 PMM.</li> <li>ORP provided a disc containing files for the RCRs, the revised report, and two new cost appendices to ECY via email on 03/15/12.</li> </ul>
	Supports M-045-81	Update C Closure Demonstration Plan		11/04/11	Complete		C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> <li>Feeds input to M-045-81</li> <li>Updated to include Ecology final comments, and RPP-PLAN-46484, revision 3 issued 12/08/11</li> <li>Tentative agreement on this revision was reached in the December, 2011 PMM, pending Ecology Senior Management approval.</li> </ul>
	M-045-81	Other Closure Demonstration Deliverables	09/30/14				C. Kemp	S. Eberlein	J. Lyon	
M-45-91 Interim Milestones and Target Dates for SSTs Implementing the Expert Panel's Recommendations (created via TPA Change Request CR M-45-10-01, approved on 01/03/2011)	<b>M-045-91G-T06</b>	<b>Provide Report of the Visual Inspection of 12 SSTs M-045-91G-T05</b>	<b>03/31/12</b>	<b>03/31/12</b>		<b>03/12/12</b>	<b>J. Johnson</b>	<b>R. Gregory</b>	<b>J. Lyon</b>	<ul style="list-style-type: none"> <li><b>Provided report to ECY via letter 12-TF-0007 dated 03/12/12.</b></li> </ul>
	M-045-91F-T01	Provide Report of the Liquid Leak Rate Assessments	01/31/13	01/31/13			J. Johnson	R. Gregory	J. Lyon	<ul style="list-style-type: none"> <li>Moved to 01/31/13 per M-45-12-01 TPA Chg Pckg.</li> </ul>
	M-045-91D-T01	Provide Report on the Concrete Dome Samples from Tank C-107 Plug	05/31/13	05/31/13			J. Johnson	R. Gregory	J. Lyon	
	M-045-91F-T03	Provide Report on Testing for Ionic Conductivity of SSTs	05/31/13	05/31/13			J. Johnson	R. Gregory	J. Lyon	
	M-045-91F-T02	Provide Report of Liner Failures for SSTs	07/31/13	07/31/13			J. Johnson	R. Gregory	J. Lyon	
	M-045-91F-T04	Provide Report on 100-Series SSTs as having Leaked in RPP-32681	07/31/13	07/31/13			J. Johnson	R. Gregory	J. Lyon	
	M-045-91G-T03	Provide AOR Final Doc. for SSTs on 1,000,000 Gallon Tanks	09/31/13	09/31/13			J. Johnson	R. Gregory	J. Lyon	<ul style="list-style-type: none"> <li>Moved to 09/31/13 per M-45-12-01 TPA Chg Pckg.</li> </ul>
	M-045-91E	Provide SST Farms Dome Deflection Surveys Every Two Years	09/30/13	09/30/13			J. Johnson	R. Gregory	J. Lyon	
	M-045-91G-T04	Provide AOR Final Doc. for SSTs on 55,000 Gallon Tanks	10/31/13	10/31/13			J. Johnson	R. Gregory	J. Lyon	
	M-045-91F	Provide Summary Conclusions Report on Leak Integrity	12/31/13	12/31/13			J. Johnson	R. Gregory	J. Lyon	
M-045-91G	Provide Summary Conclusions Report of AOR for SSTs	04/30/14	04/30/14			J. Johnson	R. Gregory	J. Lyon		

**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 March 2012**

Milestone Title	Milestone Number	Document	TPA Milestone Due Date (if applicable) <sup>1</sup>	ORP Delivery to Regulators Date <sup>2</sup>	Anticipated Regulatory Review Completion Date <sup>3</sup>	Final Completion Date <sup>4</sup>	DOE-ORP Lead	Contractor Lead	Ecology Lead	Comments/Issues
M-45-91 Interim Milestones and Target Dates for SSTs Implementing the Expert Panel's Recommendations (continued)	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	S. Eberlein	J. Lyon	
	M-045-92	Future Barrier Design 4	06/30/14	06/30/14			B. Lober	S. Eberlein	J. Lyon	
Submit to Ecology as an Agreement Primary Document a report on all Catch Tanks and associated pipelines that are identified in the SST System Part A, or otherwise used in operations.	M-045-101 (P)	SST System Component Identification and Proposed Closure Strategy (RPP-PLAN-41977)	12/27/10	12/28/10	05/30/11		C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> <li>Initial ORP letter 10-TPD-176 sent to ECY on 12/28/10</li> <li>ECY letter for extension to 04/18/11 received by ORP on 02/11/11</li> <li>ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11</li> <li>2<sup>nd</sup> ECY review extension letter 11-NWP-028 received by ORP on 04/20/11.</li> <li>ECY RCR letter 11-NWP-052 received by ORP on 06/02/11.</li> <li>ORP sent comment response extension letter 11-TF-067 on 06/16/11 to ECY to extend final response date to 08/31/11.</li> <li>In October 2011 PMM ECY/ORP agreed to extension to 12/05/11.</li> <li>Comments to RCR and redline provided to ECY on 11/14/11.</li> <li>Extension for comment resolution to 03/15/12 per 01/12 PMM.</li> </ul>
Waste Supplemental Treatment Report	M-062-40ZZ	Submit One Time Tank Waste Supplemental Treatment Tech. Report	10/31/14	10/31/14			S. Pfaff	C. Burrows	D. McDonald	
Technology Selection Report	M-062-45-ZZ	Technologies Selection Report	04/30/15	04/30/15			S. Pfaff	C. Burrows	D. McDonald	
Complete final design and submit RCRA Part B Permit Modification Request	M-062-31-T01	RCRA Part B Permit Modification--Final Design	04/30/16	04/30/16			S. Pfaff		D. McDonald	

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

Topic Areas	Document	ORP Delivery to Regulators Date <sup>1</sup>	Anticipated Regulatory Review Completion Date <sup>2</sup>	Final Completion Date <sup>3</sup>	DOE-ORP Lead	Contractor Lead	Regulator Lead	Comments/Issues
PERMIT DOCUMENTS	Tier 1 Framework Closure Plan Update	06/30/13			C. Kemp	S. Eberlein	J. Lyon	
	Tier 2 WMA C Closure Plan	06/30/13			C. Kemp	S. Eberlein	J. Lyon	
	All Remaining Closure Plans for WMA C	09/30/15			C. Kemp	S. Eberlein	J. Lyon	
	WMA C Closure Conceptual Design	TBD			C. Kemp	S. Eberlein	J. Lyon	
	Tier 3 Closure Plans for Tanks Already Received	TBD			C. Kemp	S. Eberlein	J. Lyon	• Due 120-day post EIS
	Tier 3 Closure Plans for Additional Tanks	TBD			C. Kemp	S. Eberlein	J. Lyon	• Several Dates in out years
	WMA C Closure Design	TBD			C. Kemp	S. Eberlein	J. Lyon	• Final dates not yet determined
	Supplemental Treatment Technology Notice of Construction	09/30/13			L. Huffman	F. Miera	J. Lyon	
	Submit Part B Permit Application for Selected Supplemental Treatment Technology	09/30/13			L. Huffman	F. Miera	J. Lyon	
	Wiped Film Evaporator Notice of Construction	09/30/14			L. Huffman	F. Miera	J. Lyon	
	Submit Wiped Film Evaporator Class 3 Permit Modification or Part B Permit Application	09/30/14			L. Huffman	F. Miera	J. Lyon	
MISCELLANEOUS DOCUMENTS	IDF Performance Assessment (ORP/WRPS has support role to RL/CHPRC)	09/30/12			T. Fletcher	F. Miera	J. Lyon	
	Submit Categorical TOC HIA	TBD				F. Miera	J. Lyon	
TWRWP DOCUMENTS	Quarterly Hose-In-Hose Transfer Lines (HIHTL) Reports	Ongoing Quarterly			J. Johnson		J. Lyon	<ul style="list-style-type: none"> <li>• Back-reports submitted via email to ECY, formal letter 11-TPD-024 transmitted back reports to ECY on 03/29/11</li> <li>• Meeting to evaluate extension of 2 HIHTL Reports held 05/25/11.</li> </ul>
TWRWP 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."

<b>Change Number</b> M-45-12-02	<b>Federal Facility Agreement and Consent Order  Change Control Form</b> <small>Do not use blue ink. Type or print using black ink.</small>	<b>Date</b> 3/26/2012
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<b>Originator</b> Thomas W. Fletcher, DOE-ORP	<b>Phone</b> (509) 376-3434
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<b>Class of Change</b> <input type="checkbox"/> I - Signatories	<input checked="" type="checkbox"/> II - Executive Manager	<input type="checkbox"/> III - Project Manager
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<b>Change Title</b> Clarification of Hanford Federal Facility Agreement and Consent Order (HFFACO) Milestone M-045-84
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<b>Description/Justification of Change</b>  <u>Background</u>  The U.S. Department of Energy, Office of River Protection (DOE-ORP), and the Washington State Department of Ecology (Ecology) have agreed to clarify HFFACO Milestone M-045-84 by adding text that identifies the submittal of a RCRA Phase 2 Facility Investigation/Corrective Measures Study (RFI/CMS) and the submittal of a Corrective Measures Implementation (CMI) Plan as components of the milestone.  Continued on page 2
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<b>Impact of Change</b>  This change clarifies the intent of milestone M-045-84.
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<b>Affected Documents</b>  The HFFACO as amended and Hanford Site internal planning, management, and budget documents (e.g., River Protection Project System Plan, Baseline Control documents, and related work authorizations and directives).
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<b>Approvals</b>		
 _____ DOE	3/26/12 _____ Date	<input checked="" type="checkbox"/> Approved _____ Disapproved
N/A _____ EPA	_____ Date	_____ Approved _____ Disapproved
_____ Ecology	_____ Date	_____ Approved _____ Disapproved

ORP and Ecology agree that the intent of milestone M-045-84 is to develop a schedule that will include all the major elements required to complete closure of the next Single-Shell Tank (SST) Waste Management Area (WMA). Closure of an SST WMA includes soil corrective actions, as shown in Figure I-1 of Appendix I of the HFFACO. Words are added to the milestone to make requirements associated with soil corrective action explicit.

Specific changes to Tri-Party Agreement Appendix D are displayed with double underline to indicate addition of text and by ~~strikeout~~ to indicate deletion of text.

M-045-84	Complete negotiations of HFFACO interim milestones for closure of the second <u>Single-Shell Tank WMA</u> (including a schedule for submittal of closure plans, <u>a RCRA Phase 2 Facility Investigation/Corrective Measures Study [RFI/CMS]</u> , <u>a Corrective Measures Implementation Plan</u> , and risk assessments and final closure dates).	1/31/2017
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<b>Change Number</b> M-45-12-03	<b>Federal Facility Agreement and Consent Order  Change Control Form</b> <small>Do not use blue ink. Type or print using black ink.</small>	<b>Date</b> 3/26/2012															
<b>Originator</b> Thomas W. Fletcher, DOE-ORP		<b>Phone</b> (509) 376-3434															
<b>Class of Change</b> <input type="checkbox"/> I - Signatories <input checked="" type="checkbox"/> II - Executive Manager <input type="checkbox"/> III - Project Manager																	
<b>Change Title</b> Clarification of Hanford Federal Facility Agreement and Consent Order (HFFACO) Milestone M-045-85																	
<b>Description/Justification of Change</b>  <u>Background</u>  The U.S. Department of Energy, Office of River Protection (DOE-ORP), and the Washington State Department of Ecology (Ecology) have agreed to clarify HFFACO Milestone M-045-85 by adding text that identifies the submittal of RCRA Phase 2 Facility Investigation/Corrective Measures Studies (RFI/CMS) and the submittal of Corrective Measures Implementation (CMI) Plans as components of the milestone.  Continued on page 2																	
<b>Impact of Change</b>  This change clarifies the intent of milestone M-045-85.																	
<b>Affected Documents</b>  The HFFACO as amended and Hanford Site internal planning, management, and budget documents (e.g., River Protection Project System Plan, Baseline Control documents, and related work authorizations and directives).																	
<b>Approvals</b> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%; border-bottom: 1px solid black;">   DOE </td> <td style="width: 15%; border-bottom: 1px solid black;"> 3/26/12  Date </td> <td style="width: 10%; text-align: center;"> <input checked="" type="checkbox"/> </td> <td style="width: 10%;"> Approved </td> <td style="width: 10%;"> <input type="checkbox"/> Disapproved </td> </tr> <tr> <td style="border-bottom: 1px solid black;"> N/A  EPA </td> <td style="border-bottom: 1px solid black;"> Date </td> <td style="text-align: center;"> <input type="checkbox"/> </td> <td> Approved </td> <td> <input type="checkbox"/> Disapproved </td> </tr> <tr> <td style="border-bottom: 1px solid black;"> Ecology </td> <td style="border-bottom: 1px solid black;"> Date </td> <td style="text-align: center;"> <input type="checkbox"/> </td> <td> Approved </td> <td> <input type="checkbox"/> Disapproved </td> </tr> </table>			 DOE	3/26/12 Date	<input checked="" type="checkbox"/>	Approved	<input type="checkbox"/> Disapproved	N/A EPA	Date	<input type="checkbox"/>	Approved	<input type="checkbox"/> Disapproved	Ecology	Date	<input type="checkbox"/>	Approved	<input type="checkbox"/> Disapproved
 DOE	3/26/12 Date	<input checked="" type="checkbox"/>	Approved	<input type="checkbox"/> Disapproved													
N/A EPA	Date	<input type="checkbox"/>	Approved	<input type="checkbox"/> Disapproved													
Ecology	Date	<input type="checkbox"/>	Approved	<input type="checkbox"/> Disapproved													

ORP and Ecology agree that the intent of milestone M-045-85 is to develop a schedule that will include all the major elements required to complete closure of the remaining Single-Shell Tank (SST) Waste Management Areas (WMA). Closure of an SST WMA includes soil corrective actions, as shown in Figure I-1 of Appendix I of the HFFACO. Words are added to the milestone to make requirements associated with soil corrective action explicit.

Additionally, text is added to clarify that the milestone governs Single-Shell Tank (SST) Waste Management Areas (WMAs) only. The closure of "DST Tank Farms" is, at this time, governed by milestone M-042-00A. That is, closure of DST WMAs is not part of the M-45-00 series milestones.

Specific changes to Tri-Party Agreement Appendix D are displayed with double underline to indicate addition of text and by ~~strikeout~~ to indicate deletion of text.

M-045-85	Complete negotiations of HFFACO interim milestones for closure of the remaining <u>Single-Shell Tank (SST) WMAs</u> (including a schedule for 200 West Area <u>SST WMA</u> closures, the submittal of closure plans, <u>RCRA Phase 2 Facility Investigation/Corrective Measures Studies [RFI/CMS]</u> , <u>Corrective Measures Implementation Plans</u> , and risk assessments and final closure dates for each <u>SST WMA</u> ).	1/31/2022
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<b>Change Number</b> M-47-12-01	<b>Federal Facility Agreement and Consent Order  Change Control Form</b> <small>Do not use blue ink. Type or print using black ink.</small>	<b>Date</b> March 27, 2012																
<b>Originator</b> Thomas W. Fletcher, DOE-ORP		<b>Phone</b> (509) 376-3434																
<b>Class of Change</b> <input type="checkbox"/> I - Signatories <input checked="" type="checkbox"/> II - Executive Manager <input type="checkbox"/> III - Project Manager																		
<b>Change Title</b> Extension of due date for interim milestone M-047-06.																		
<b>Description/Justification of Change</b>  This change extends the completion date for the M-047-06 milestone from June 30, 2012 to December 31, 2012. This will allow DOE and Ecology to conduct the M-047-06 and M-090-11 milestone negotiations jointly. Both milestone requirements are similar.  Both M-047-06 and M-090-11 require negotiation of "no more than two interim milestones" to support work/construction for the Projects to which they are linked. In addition, both the Secondary Liquid Waste Treatment (SLWT) and the Interim Hanford Storage (IHS) Projects are currently in the same phase of the process of developing Conceptual Design Reports (CDR) required by DOE O 413.3B – a requirement for Critical Decision 1. The CDRs are due to DOE in August of 2012 for the SLWT Project and in July of 2012 for the IHS Project. The CDRs will contain more reliable cost and schedule estimates based on conceptual design, resulting in more accurate information to use to establish the required milestones.																		
<b>Impact of Change</b>  This change moves the due date for milestone M-047-06 out 6 months.																		
<b>Affected Documents</b>  The HFFACO as amended and Hanford Site internal planning, management, and budget documents (e.g., River Protection Project System Plan, Baseline Control documents, and related work authorizations and directives).																		
<b>Approvals</b>  <table border="0" style="width: 100%;"> <tr> <td style="width: 30%; border-bottom: 1px solid black;">DOE</td> <td style="width: 15%; border-bottom: 1px solid black;">Date</td> <td style="width: 15%; text-align: center;">_____ Approved _____</td> <td style="width: 15%; text-align: center;">_____ Disapproved _____</td> </tr> <tr> <td style="border-bottom: 1px solid black;">N/A</td> <td style="border-bottom: 1px solid black;">Date</td> <td style="text-align: center;">_____ Approved _____</td> <td style="text-align: center;">_____ Disapproved _____</td> </tr> <tr> <td style="border-bottom: 1px solid black;">EPA</td> <td style="border-bottom: 1px solid black;">Date</td> <td style="text-align: center;">_____ Approved _____</td> <td style="text-align: center;">_____ Disapproved _____</td> </tr> <tr> <td style="border-bottom: 1px solid black;">Ecology</td> <td style="border-bottom: 1px solid black;">Date</td> <td style="text-align: center;">_____ Approved _____</td> <td style="text-align: center;">_____ Disapproved _____</td> </tr> </table>			DOE	Date	_____ Approved _____	_____ Disapproved _____	N/A	Date	_____ Approved _____	_____ Disapproved _____	EPA	Date	_____ Approved _____	_____ Disapproved _____	Ecology	Date	_____ Approved _____	_____ Disapproved _____
DOE	Date	_____ Approved _____	_____ Disapproved _____															
N/A	Date	_____ Approved _____	_____ Disapproved _____															
EPA	Date	_____ Approved _____	_____ Disapproved _____															
Ecology	Date	_____ Approved _____	_____ Disapproved _____															

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M-047-06	COMPLETE NEGOTIATION OF NO MORE THAN TWO INTERIM MILESTONES, GOVERNING WORK NECESSARY TO SUPPORT COMPLETION OF M-047-00. SUCH INTERIM MILESTONES SHALL BE CONSISTENT WITH MILESTONES ESTABLISHED UNDER M-062-45.	<u>06/30/2012</u> <u>12/31/2012</u>
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DRAFT

ORP Project Managers Meeting  
March 27, 2012  
2440 Stevens Ctr.  
Richland, Washington  
**Meeting Minutes Transmittal**

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

**(2 pages including this coversheet)**

**ORP TPA March PMM Meeting**  
**Tuesday, March 27, 2012**  
**2440 Stevens Center Richland, Washington**  
**Room 1600, 9:00AM-12:00PM**

**AGENDA**

**1.0 Administrative Items**

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

Item Description	TPA/CD Topic Milestone Tie	TPA Admin Record – EDMC File Number
February 2012 ORP TPA Monthly Report	All	1212015
February 2012 ORP CD Monthly Report	All	1212014
TWRWP RPP-22520 Rev 6 for C-101 and C-105 Change Notice 2011-9	TWRWPs	1212124
TWRWP RPP-21895 Rev 4 for C-103 and C-109 Change Notice 2012-01	TWRWPs	1212019
TWRWP RPP-22393 Rev 6 for C-102, C-104, C-104, C-108, and C-112 Change Notice 2012-02	TWRWPs	1212018
Meeting Notes: Continued Discussion of Retrieval Completion Certification per the CD, held 02/09/12 and signed by ORP and ECY PMs on 03/01/12	D-00B-04	1212318
Meeting Notes: Continued Discussion of Retrieval Completion Certification per the CD and the Practicability Evaluation to Forego a Third Technology, held 02/16/12 and signed by ORP and ECY PMs on 03/01/12	D-00B-04	1212319
Completion Letter 12-TF-0007 for M-045-91G-T06, Report and Evaluation for Visual Inspection of 12 SSTs, dated 03/12/12	M-045-91G-T06	1212482

**2.0 Review of the ORP Project Summary**

**3.0 Agreements, Issues, Actions**

**4.0 Key Documents List**

**Upcoming Meetings**

- The April ORP PMM Meeting is scheduled for Tuesday, April 24, 2012 at ORP.