

ORP Project Managers Meeting  
September 27, 2011  
2440 Stevens Ctr.  
Richland, Washington  
Meeting Minutes Transmittal

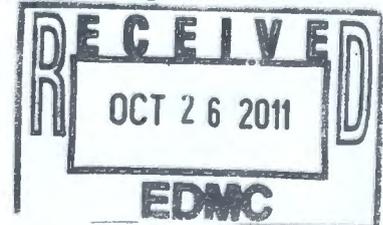
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**Distribution:**

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

ADMINISTRATIVE RECORD – Heather Childers: H6-08

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



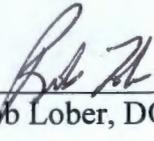
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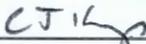
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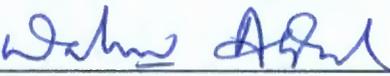
The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above dated Project Managers Meeting.

  
\_\_\_\_\_  
Bob Lober, DOE-ORP  
*correction made on page 5*

Date: 10/25/2011

  
\_\_\_\_\_  
Chris Kemp, DOE-ORP

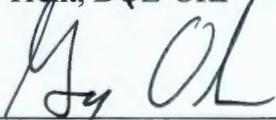
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Wahed Abdul, DOE-ORP

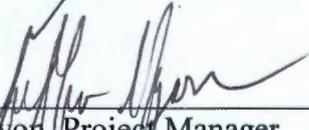
Date: 10/25/11

  
\_\_\_\_\_  
~~Jeff Trent, DOE-ORP~~ Jason Young Acting for J. Trent

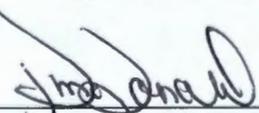
Date: 10/25/11

  
\_\_\_\_\_  
Gary Olsen, DOE-ORP

Date: 10-25-11

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

Date: 10-25-11

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

Date: 10/25/11

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Purpose: ORP Project Managers Meeting

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## **1.0 Administrative Items**

- Previous meeting minutes approval: The July 26, 2011 Project Managers Meeting (PMM) minutes were approved.
- Funding Profile for FY 2012: ORP provided a status on the funding in FY 2012 for Tank Farms. In the biweekly meeting held last week with ORP and Ecology, the new funding priorities were discussed. It was noted that at the close of FY 2011 (end of September 2011), the Tri-Party Agreement (TPA) and Consent Decree (CD) milestones were on schedule, as is the current baseline schedule. ORP has requested its contractor to provide a proposal to reflect work scope with the reduced funding profile in 2012. The proposal could modify the current baseline and impact the CD and/or TPA milestones.

Per the Hanford Federal Facility Agreement and Consent Order (HFFACO) Article 48, paragraph 148, Section G, DOE-ORP is working with Ecology at the senior management level to discuss priorities for the work in FY 2012, and to discuss the potential impacts due to these changes. ORP will send a letter to notify Ecology of the milestones that are being impacted by the funding shortfall in FY 2012, and all changes will be submitted to Ecology via the formal TPA change control process, which is outlined in the action plan in the HFFACO, Section 12.

For the first half of FY 2012, the tank farms will be operating at the funding profile of FY 2011, which was at the Continuing Resolution (CR) amount of 395 million dollars. For the second half of FY 2012, tank farms will be operating at 445 million dollars. Ecology asked if the notification of missed milestones will be for a one-year period. ORP responded that potential impacts to milestones will be discussed with Ecology, and will not necessarily be limited to one year. ORP added that the impacts to milestones will be dependent on the proposal from the contractor and the resulting agreements to the proposal. Ecology stated that if there is to be a deferral of work, that it would be helpful to be apprised of what other milestones might be affected.

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

- Action Item List

Ecology acknowledged receipt of the LOAM letter, closing action No. 100-229. Action No. 100-231 will be provided at the next PMM on October 25, 2011.

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- Key Documents List

An updated ORP key documents list was distributed.

### **Tank Farms**

Tri-Party Agreement and Consent Decree (TPA and CD) Statistics/Status - See discussion above regarding funding profile for FY 2012.

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

M-045-60 - ORP reported that current field work under way is a direct push underneath C-203. Investigations were completed around UPR-81, 82 and 86. The documentation has been released, and Ecology was provided a briefing. A work plan modification and sampling and analysis plan (SAP) are being drafted, and will include some optimization sampling based on sample size, organic sampling changes based on the work plan approach, and some scope changes to look at a surface geophysical exploration (SGE) deployment around the 200 series and possibly around C-105 diagonally. The mod and SAP will be finalized by the end of this month and provided to Ecology for concurrence. The work scope has been shared with Ecology in meetings held earlier this month. Ecology stated that it had agreed that the work plan looked reasonable during the meetings. It was agreed that after the impending layoffs are done, ORP will clarify the future work scope to Ecology.

M-045-56G - The S Farm direct push was recently completed.

Significant Past Accomplishments - The two direct and angle pushes under C-101 were completed, and the results indicate a minimal amount of technetium, but a lot of moisture exists. To date, the technetium and nitrates were located very deep. The leak loss assessment is being revisited and will be assessed at the end of this month.

TPA-SST Retrieval and Closure Program:

M-045-100 - ORP stated that the catch tank assumed leak response plan was submitted to Ecology at the end of August 2011, and Ecology has indicated the document will be approved today or tomorrow. Ecology's approval will effectively dismiss the Notice of Violation (NOV).

M-045-101 - ORP reported that there are no outstanding comments on the report on catch tank and associated pipelines in the SST system Part A, and it is in the process of being finalized.

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M-045-80 - ORP stated that comments have not been received from Ecology on the waste determination process document. ORP reported that there is an action associated with the RCRA/CERCLA white paper for ORP to discuss with legal the Model Toxics Control Act (MTCA) and the catch tank removal plan in the C-301 investigation study.

M-045-81 - ORP stated that it has just started sharing its comments on the pipeline feasibility study with Ecology. Due to the impending layoffs, ORP will meet with Ecology to continue comment resolution after the layoffs are completed and resources can be assessed.

Issues - ORP stated that the NOV issue is anticipated to be resolved. ORP reported that the WMA-C performance assessment (PA) is being suspended based on the current funding issue. ORP stated that the goal is to receive funding to restart the PA, noting that the parties have done an excellent job and are close to finishing the PA. Ecology asked if the PA will remain a high priority after the funding proposal is received. ORP responded that the contractor was asked to give a proposal that was CD compliant; i.e., that retrieval is a higher priority than closure work. The PA would usually fall into the closure work category, although there are a list of items that ORP would like to fund. ORP stated that the PA may be included on the integrated priority list (IPL). Ecology asked if an IPL had been provided, and ORP stated that an IPL was provided in the February/March 2011 time frame during the public meetings. Ecology asked if the IPL would change with the pending budget cuts. ORP responded that the IPL would not change.

Ecology asked when the contractor proposal will be received. ORP stated that it was received yesterday (9/26/11), and it will be in review and comment for three weeks. ORP has a formal change control board comprised of senior managers, and the proposal reviewers will attend a board meeting to discuss any issues or concerns and make a final recommendation to the board. The board will either approve or disapprove the baseline change proposal, and ORP will notify the contractor if there is a change to their proposal. Ecology asked if there will be an opportunity to discuss the ideas that are set forth before the reviewers meet with the board. ORP responded that the review of the proposal is focused more on a cost perspective, which is not at a level that the regulator would be involved. However, prioritization of the work scope that's in the proposal would be shared with Ecology, and that is being discussed in the biweekly meetings. Ecology stated that in an effort to understand how milestones will be met, the issue was not cost but which activities would be cut and which activities would be funded. Ecology added that it had been requesting a schedule of activities during the biweekly meetings. ORP stated that it will be working with the contractor to reach agreement on the proposal, and after the agreement is

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approved, the baseline will officially be changed. At that point, discussion will be held with the regulators to outline the changes that have been made. ORP pointed out that prior to approval, discussions will have occurred with the regulators about what some of the changes would be.

ORP noted that to be consistent with the discussion in the biweekly meeting with Ecology last week, the contractor proposal is for one year, and any potential ripple effects on a milestone due to reduced funding will not be available to report to Ecology yet. ORP added that it takes close to a year to complete revised cost estimates and integrated schedules. However, ORP could provide an analysis of a potential impact based on constrained funding for FY 2013, but a life cycle baseline schedule would not be available at this point.

Ecology reiterated its question about whether the baseline schedule has a level of detail that shows the current set of milestones can be met. ORP responded that the baseline schedule was presented to Ecology over a year ago, which assumed that all the milestones that were currently being negotiated as part of the CD and TPA would be met. Ecology stated that after receipt of the baseline schedule presentation, a review of the information was done and the full P6 level schedule for the 2010 milestones was not included. ORP took an action to provide the P6 level schedule information. ORP noted that the TPA requires a 90-day notification (before a milestone due date) to the regulator if a milestone is to be missed. The notification is in the form of a milestone change package.

Tank in Appendix H. Status - ORP reported no change from last month's status.

C-Farm Critical Path - ORP reported on C Farm activities as of August 22, 2011. There were slips in schedule for C-101, C-102 and DST receiver tank 4 due to the FY12 planning process, and the schedules are still being worked. The impacts have already been incorporated into the integrated mission execution schedule (IMES). The slip in schedule for C-104 was due to activities associated with bulk retrieval operations and the thermocouple not getting priority resources. This activity will be rescheduled as part of the hard heel removal (HRR) work scope. Slips to the HHR activities are associated with potential changes to the FY12 work scope that have not been finalized. For C-107, there were issues with completing the construction acceptance tests (CATs). The CATs continue to slip in the completion of retrieval system installation. Attempts will be made to coordinate the completion of CATs and startup of readiness activities when possible. Testing efforts have been coordinated with C-108 HHR activities, and both tanks (C-107/C-108) retrieve to the same DST receiver tank.

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The 45-day slip shown for HHR operations for C-108 was not an actual slip in schedule, but a logic tie that was missed at the end of the July 2011 status. A correction has been made, and the results will be shown in next month's schedule. C-109 HHR installation has been moved out based on impacts from FY12 planning. Additional FY12 impacts may affect the HHR operations between C-109 and C-110, but those impacts are not finalized. The slip in system installation, startup and readiness, and system installation for C-112 were corrected by reprioritizing resources that are currently supporting C-107 and C-108. There was a technical issue for C-112 associated with completing the polyurea coating on the center tank caisson. The <sup>pit</sup>~~pump~~ has been coated, and the Independent Qualified Registered Professional Engineer (IQRPE) review has been done. There was a slip in construction for DST receiver tank 3 that was associated with work scope to evaluate long-lead contaminated equipment removal techniques. This work does not affect any of the A-106 transfer systems. For DST receiver tank 4, there were changes to the DST receiver tanks for C-102 and C-105. The major effect on the scope of DST receiver tank 4 is that AZ-101 will no longer be used in C Farm receiver tanks. The change to this tank is pending the FY12 baseline change request.

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

Double-Shell Tank Closure - No change in status to report.

242-A Evaporator Status - No change in status to report.

CD-SST Retrieval and Closure:

Significant Planned Activities in the Next Six Months - ORP reported that C-107 retrieval is planned for startup today using the Mobile Arm Retrieval System (MARS). Startup activities for C-108 retrieval are planned, and C-107 and C-108 retrieval activities will be going concurrently. C-108 has been bulk retrieved, and a water wash, a caustic soak and recirculation and a final water wash will be done.

CD-Tank Waste Retrieval Work Plan (TWRWP) Status - ORP reported that Ecology, ORP and WRPS met last week and this week in an effort to reach resolution on the issue regarding TWRWP RPP-22393. Agreement was reached for ORP and WRPS to incorporate a paper that has been written on modified sluicing into TWRWP RPP-22393, and once funding allows, ORP and WRPS will discuss with Ecology how risk-based retrieval decision-making can be incorporated into the process. ORP also reported that during the TWRWP meeting held this morning with Ecology, agreement was reached on the definition of the limit of technology for modified sluicing. ORP

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will send a letter to Ecology that provides the agreed-to definition and a page change that references TWRWP RPP-22393. The letter will be issued to Ecology for approval when RPP-22393 is released.

Ecology asked if ORP considers a performance-based incentive (PBI) as written direction to the contractor. ORP responded that direction is given to the contractor in terms of the scope through Section C of the contract, and the PBI documents the agreement as to what fee will be paid to the contractor. Ecology requested that the written directives given by ORP the contractor be included when the next semi-annual report is released by ORP. Ecology stated that the written directives will provide a better understanding of activities that have, or have not, taken place.

M-045-91, SST Integrity Assurance:

Significant Past Accomplishments - M-045-91D - ORP stated that the vendor test report on the concrete specimens removed from the C-107 dome plug is expected by the end of September 2011. ORP added that the rebar has not been chipped out of the concrete plug, and testing of the rebar will be subject to available funding. ORP noted the fourth bullet under accomplishments, M-045-91G-TO2, should be corrected to read M-045-91G-TO1. ORP also noted that M-045-91G-TO1 is listed on today's agenda under recent items submitted to the Administrative Record.

In Tank Characterization and Summary:

Planned Actions Within the Next Six Months - ORP noted that the grab samples in tank AN-106 for chemistry control will include tech-99. Ecology asked if the sample hold times will be impacted as a result of funding issues. ORP responded that a review was done with the project managers, and all of the work that is sitting in the lab (ATL) will carry over into FY12.

Tank Operations Contract (TOC) Overview - ORP reported that currently the overall project is on schedule and under budget. A slight revision to the monthly report was done to capture the key anomalies and key attributing areas that were affected for the current month.

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

Significant Past Accomplishments - ORP reported on the status of the Interim Hanford Storage and Secondary Waste Treatment projects. The down-selection of the chosen technology was completed the last week of August 2011, and the final report of the alternatives analysis has been

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issued. The Interim Hanford Storage alternatives analysis was transmitted to Ecology on September 21, 2011, and the Secondary Waste Treatment alternatives analysis document is being finalized.

The Interim Hanford Storage selected alternative is to construct a new storage facility, and the schedule date for the first module to be operational is July 2018. The selected alternative for the Secondary Waste Treatment is to upgrade the existing Effluent Treatment Facility (ETF) and add a solidification unit. The project is estimated to be complete in August 2018. Both projects have initiated conceptual design, and architect/engineer subcontractors have been selected. Ecology asked where the waste from the Secondary Waste Treatment project will be stored. ORP responded that the solidified product will be sent to the Integrated Disposal Facility (IDF).

Supplemental Treatment and Part B Permit Applications; M-62-00, -20, -30, -45: ORP provided Ecology with a Critical Decision-1 (CD-1) package today that contained a conceptual design report and the supporting documents that enabled ORP to make CD-1, and a project definition rating index. The rating index is an evaluation by the contractor of its readiness to proceed with CD-1. ORP invited Ecology to attend a briefing tomorrow for the integrated project team (IPT). The package that ORP provided Ecology today covers the information in the briefing tomorrow. ORP agreed to schedule a meeting to review the information in the package, since Ecology would not be able to attend the entire briefing tomorrow. ORP noted that with the current funding concerns, there is some uncertainty about proceeding as quickly as planned in FY12 on the project.

System Plan - ORP stated that approval of System Plan Rev. 6 is anticipated by the end of this week. ORP reported that milestones M-062-40C and M-062-40D are on schedule, and milestone M-062-45-TO1 will be discussed at a later date. ORP stated that meetings with Ecology have been held to discuss the future plan for what could occur with the system plan, depending on the budgeting.

### **Waste Treatment Plant**

ORP reported that overall the WTP project has a positive cost and schedule performance, and FY11 has the same overall performance. There is significant float to all the Consent Decree milestones, with the exception of the steam plant (60 days). However, the steam plant is essentially complete, and there are no issues anticipated with meeting the schedule. The certification report associated with TPA milestone M-062-49 is being finalized. ORP stated that the results in the report are consistent with the briefings and discussions that have occurred, and

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the report is anticipated to be transmitted on schedule. ORP stated that as it works through the budget process, the ramp-up of craft is being delayed to avoid the potential of being in a position of having to ramp back down. The plan is to remain fairly constant in terms of FTEs and craft in the field.

Ecology asked if the WTP will be operating to the CR for the first six months of FY12, as tank farms has reported it will be doing. ORP responded that it will not be operating in the same manner as tank farms since WTP's funding profile is consistent with the targets that Congress has given so far. ORP added that FY13 is really the critical peak construction year, when requested funding goes from 840 million to 970 million dollars. Ecology asked if consideration has been given to the potential of funding remaining static for FY12 and FY13, and whether any of the milestone dates would slide. ORP responded that various funding profiles have been considered, and there will be impacts if the funding is other than the Presidential-approved funding profile. If there are multiple years of a lower funding profile, the impacts would be worse, and back-to-back years on the peak of a construction project could not be overcome. Ecology asked if the critical path items, such as the filter cave, could still be maintained. ORP stated that most of the schedule could probably be maintained, and the primary impacts would be in the Pretreatment facility, with secondary impacts in High Level Waste.

Ecology brought up the subject of integration between tank farms and the WTP, and whether a solo funding profile for both projects has been considered. ORP responded that it is supporting the concept of the two projects as one system, and is making an effort to ensure Congress understands it is a single system and the two baselines have to be worked together. Ecology asked about an integrated baseline, and ORP responded that a high level version of an integrated baseline has been prepared.

Significant Planned Actions in the Next Six Months - Ecology asked when the Large Scale Integrated Testing (LSIT) will start. ORP responded that non-NQA-1 testing on the four-foot vessel is ongoing, and testing should transition to NQA-1 in about a month. Various simulants are being used, and throughout the process Newtonian and non-Newtonian simulants will be used. Ecology asked about the time frame for completing the LSIT. ORP stated that the schedule is set out to collect the information needed to confirm the existing design or identify a modified design of the five non-Newtonian vessels by the middle of 2012.

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

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Significant Past Accomplishments - The aerosol entrainment testing has been awarded to Parson's, and meetings are ongoing to develop the schedule.

Issues - Ecology asked if the completion date for fabrication of vessel HLP-22 is still holding at December 2012. ORP responded that there hasn't been any more slip to the schedule and it is holding to December.

### **High Level Waste**

Significant Past Accomplishments - ORP stated that HLW continues to maintain good progress on the filter cave build-out, which is the critical path. Siding and roofing installation on the annex is ongoing. Once that is completed, it will allow various craft to start placing partition walls, electrical, etc. in the annex. Melters 1 and 2 have been received, and they have been placed in the material handling facility.

Issues - There was a minor issue with the siding for the annex. About 50 percent of the material that the vendor shipped was defective. The vendor has indicated the siding that needs to be replaced can be built in one day, so it is not considered a major issue.

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

Significant Past Accomplishments - ORP reported that the installation of the inert fill hoppers was completed on the north finish line, and installation in the south finish line is nearing completion. When a LAW container gets to about 90 percent filled, inert fill will be used to fill the container and then the lid is placed on the container.

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

Significant Past Accomplishments - Installation of the fireproofing slab over the C5 area was completed, including the embeds and structural steel.

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

Significant Past Accomplishments - ORP reported on the material requisition that was awarded for the emergency turbine generator (ETG). The ETG contract was awarded to a vendor, and the vendor is proceeding with lining out how it is going to meet the specification requirements. Weekly updates will be provided by the vendor. BNI will be working on a load timing sequence analysis. Based on what loads need power immediately, specific components will be identified

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that need batteries to supply power. Once the ETG powers up, it will take over what is left that needs power.

Issues - Ecology raised a question about the concern with the positioning of the ammonia storage tanks relative to manned space. ORP acknowledged receipt of a letter from the Defense Nuclear Facilities Safety Board (DNFSB) questioning the basis and design relative to ammonia. The basic issue is the control room design, located in PT, which has filtration to protect the workers from ammonia. The DNFSB has expressed concern with the accident scenarios from an authorization basis perspective, and that there is not enough filtration. ORP stated that there have been many discussions with the DNFSB, and several actions have been taken to address the DNFSB's concerns. A written response to the DNFSB is being prepared to provide a status on the ammonia system.

### **3.0 Agreements**

There were no agreements to status.

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

ORP is now providing a list of recent items on the agenda.

### **5.0 Upcoming Meetings**

The next ORP PMM is scheduled for October 25, 2011.

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**Attachment A: Action Tracking**

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

**ORP TPA and CD Action Items  
September 2011**

<b>Open (O)/ Closed (X)</b>	<b>Action No.</b>	<b>Co.</b>	<b>Actionee</b>	<b>Project</b>	<b>Action Description</b>	<b>Date Opened</b>	<b>Status</b>
O	100-229	ORP	D. Noyes	WTP/PT	DNFSB Briefing and Draft Reports (LOAM Letter and Final HQ Response)	4-26-11	7-26-11: Open.
O	100-231	ORP	G. Olsen	WTP/ LAW	LAW Commissioning Schedule: current baseline high-level overview.	4-26-11	7-26-11: Open, DOE to meet with ECY soon.
O	100-234	ORP	S. Pfaff	Tank Farms	Setup Secondary Liquid Waste Treatment/Secondary Waste Form Meeting (tentative October timeframe).	7-26-11	7-26-11: Open.

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**Attachment B: List of Attendees**

**(3 pages including this coversheet)**

**Sign In Sheet**  
**Managers Monthly Milestone Review Meeting**  
**September 27, 2011**

NAME	ORG	MSIN	PHONE
James Lynch	DOE-ORP	H6-60	376-4170
Jeremy Johnson	ORP	H6 60	376 1866
Jan McDonald	ECY		372-7988
Pamela McCann	DOE-ORP		376-7663
Chris Kemp	ORP	H6-60	373-0649
Steve Pfaff	ORP	H6-60	376-2188
Tanet Diediker	ORP	H6-60	372-3043
GLYN TRENCHARD	ORP	"	373-4016
Bob Loboe	ORP	"	373-7949
Steuay Cimon	ODOE		(541) 963-0853
KONKOLL	ORP		376-4134
Das KNIGHT	ORP	" "	376-4341
JEFF LYAN	ECY		539-1996
Kathy Knox	Knox Reporting		946-5535
Bob [unclear]	DOE-WTP		376-5575
Delmar C. Noyes	DOE-WTP		376-5166
Nick Mandlenakis	DOE-WTP		376-3783
ROB PIERCE	MSA		373-3285
Gary Olsen	DOE WTP		438-4707
Robbie Biyani	ECY		372-7884



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**Attachment C: Presentation Materials**

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

**And**

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

**And**

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

**(73 pages including this coversheet)**

**FINAL**

Office of River Protection

Tri-Party Agreement  
Project Summary Report  
September 27, 2011



Office of River Protection  
Tri-Party Agreement Milestone Review Meeting  
September 27, 2011

Page	Topic	Leads	Time
TPA 1 / CD 1	Statistics / Status	Woody Russell / Dan McDonald / Jeff Lyon	9:00
TPA 6	Single-Shell Tank Corrective Action; M-45, -50, -60	Bob Lober / Jeff Lyon	9:05
TPA 8 / CD 5	Single-Shell Retrieval and Closure Program TPA Milestones Status; M-45-00 series, <ul style="list-style-type: none"> <li>- Tank in Appendix H Status</li> <li>- C-Farm Critical Path</li> <li>- Tanks with Individual Milestones</li> <li>- Double-Shell Tank Closure</li> <li>- 242-A Evaporator Status</li> </ul> SST Retrieval and Closure CD Milestones and TWRWP Status; D-00B series	Chris Kemp / Dan Knight / Jeff Lyon	9:20
TPA 18	SST Integrity Assurance; M-45-91	Jeremy Johnson / Michelle Hendrickson	9:40
TPA 21	In Tank Characterization and Summary	Jeremy Johnson / Michael Barnes	9:45
TPA 22	Tank Operations Contract (TOC) Overview	Dan Knight / Jeff Lyon	9:50
TPA 27	Acquisition of New Facilities; M-90-00; M-47-00	Janet Diediker / Jeff Lyon / Dan McDonald	10:05
TPA 28	Supplemental Treatment and Part B Permit Applications; M-62-00, -20, -30, -45	Steve Pfaff / Jeff Lyon / Dan McDonald	10:10
TPA 29	System Plan; M-62-40	Dabrisha Smith / Jeff Lyon / Dan McDonald	10:15
<b>BREAK</b>			
TPA 30 / CD 8	WTP Overall TPA and CD Summary and Milestones Status; M-62-01; M-62-49; D-00A-01, -06, -17	Delmar Noyes / Dan McDonald	10:30
TPA 32 / CD 10	WTP Pretreatment (PT) Facility; D-00A-13, -14, -15, -16, -19	Wahed Abdul / Dan McDonald	10:40
TPA 34 / CD 13	WTP High-Level Waste (HLW) Facility; D-00A-02, -03, -04, -21	Gary Olsen / Dan McDonald	10:50
TPA 35 / CD 15	WTP Low-Activity Waste (LAW) Facility; D-00A-07, -08, -09	Jeff Bruggeman / Dan McDonald	11:00
TPA 37 / CD 18	WTP Analytical Laboratory (LAB); D-00A-05	Jason Young / Dan McDonald	11:05
TPA 39 / CD 21	WTP Balance of Facilities (BOF); D-00A-12	McDonald	11:10

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

Milestone No.	Description	Due Date	Date Completed	On Schedule	At Risk	Recoverable	To Be Missed	Missed	In Litigation	Deleted	In Program Planning	In Abeyance	Dispute Resolution
M-062-40A	Select a Minimum of 3 scenarios	10/31/10	10/27/10										
D-001-00-R46	Quarterly Report	10/31/10	10/28/10										
M-045-100	Submit to Ecology an Agreement Primary Document a Catch Tank "Assumed Leak" Response Plan.	12/28/10	12/28/10										X – AIP signed and new document submitted via letter 11-TF-090
M-045-101	Submit to Ecology as an Agreement Primary Document a Report on all Catch Tanks and Pipelines Used for SST Operations	12/28/10	12/28/10										
M-045-91A	Submit an Agreement Change Package with Interim Milestones to Implement the Panel's Recommendations M-045-91	12/27/10	09/27/10										
M-045-92D	Complete Negotiations to Schedule Remaining 4 Additional Barriers	12/31/10	12/07/10										
M-045-92E	Meet Yearly on Performance of Barrier	12/31/10	12/07/10										

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

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

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

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

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

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

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

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

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

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

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

**M-045-60, Submit to Ecology for review and approval as an Agreement primary document DOE's Phase 2 RFI/CMS Work Plan and Sampling and Analysis Plan (SAP) for WMA C, Due: 12/31/08, Status: Complete.**

ORP and Ecology continue to meet monthly to identify and manage changes in the work plan. The last meeting was held July 29, 2011. Meeting minutes for the June 23, 2011 sessions have been signed by the parties and have been entered into the TPA administrative record.

**M-045-56G, Complete Implementation of Agreed to Interim Measures, Due: 07/31/11, Status: On Schedule.** Meeting for 2011 was held on July 13, 2011. Draft meeting minutes have been developed, and will be signed by the parties and entered into the TPA administrative record.

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

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

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

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

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

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

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

**M-045-92F, DOE and Ecology will meet yearly to review the monitoring data, agree to changes in monitoring (if needed) and assess the performance of the demonstration barrier,**  
Due: 12/31/2011, Status: On Schedule

**Significant Past Accomplishments:**

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

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

1. Continue direct push campaign in C Farm.
2. Complete direct push campaign in S-Farm in support of a future interim barrier.
3. Complete 3-D SGE data analysis in eastern BY farm.
4. Continue remediation technology assessments in support of a Corrective Measures Study for WMA C.
5. Perform additional updates to WMA C RFI/CMS workplan based on requested changes from Ecology.

**Issues:**

ORP is in internal discussions in consideration of Ecology's request for additional RFI/CMS milestones.

## SST Retrieval and Closure Program

**M-045-100, Submit as a primary document a Catch Tank "assumed leak response plan,** Due: 12/27/10, Status: In Dispute. Transmitted from ORP to ECY via letter 10-TPD-176 on 12/28/10. Ecology issued a Notice of Violation on May 24, 2011, via letter 11-NWP-038, indicating that the deliverable did not fulfill the milestone. The ORP initiated dispute resolution on June 1, 2011 via letter 11-TF-065. ORP also requested an extension of the comment resolution period via letter 11-TF-067. Ecology letter 11-NWP-099 to DOE, dated August 25, 2011, highlighted an ECY/DOE Agreement In Principle for a path forward and extended the due date to October 31, 2011. A revision to the M-45-100 milestone deliverable document was developed collaboratively between ECY and ORP, and was formally transmitted from ORP to ECY on August 29, 2011, via letter 11-TF-090.

**M-045-101, Submit to Ecology as a primary document a report on all catch tanks and associated pipelines in the SST System Part A,** Due: 12/27/10, Status: Complete. Transmitted from ORP to Ecology via letter 10-TPD-176 on 12/28/10. Comments were transmitted from Ecology to ORP on May 27, 2011, via letter 11-NWP-048. ORP requested an extension, to August 31, 2011, of the comment resolution period, via letter 11-TF-067. ORP requested an additional extension to the comment resolution period in the August TPA managers meeting to September 30, 2011. Resolutions have been identified for all comments, and the document is being revised.

**M-045-80, Complete those portions of C-200 Closure Demonstration Plan,** Due: 1/31/2011 Status: Complete. Four primary documents transmitted from ORP to Ecology via letter 10-TPD-166 on 12/28/10. Comments on three of the four documents were transmitted from Ecology to ORP on May 27, 2011, via letters 11-NWP-045, 11-NWP-047, and 11-NWP-051. ORP requested an extension, to September 25, 2011, of the comment resolution period for those three documents via letter 11-TF-067. Ecology requested additional time to review *Radioactive Waste Determination Process Plan for Waste Management Area C Tank Waste Residual* via 11-NWP-049.

**M-045-81, Implement & complete all remaining activities in C-200 Closure Demonstration Plan and provide a report of the results of those activities,** Due: 9/30/2014, Status: On Schedule. The first deliverable specified in the closure demonstration plan was formally transmitted from ORP to ECY via letter 10-TPD-166 on 12/28/10. Comments were transmitted from Ecology to ORP on June 1, 2011, via letter 11-NWP-052. ORP requested an extension, to September 25, 2011, of the comment resolution period for those three documents via letter 11-TF-067.

**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-45-100, 101, 80, and 81.

**Issues:**

- M-045-100 Notice of Violation (NOV): Ecology gave ORP an NOV (letter 11-NWP-038, dated 5/24/11) for a determination that the primary document for the Single-Shell Tank System Catch Tank Assumed Leak Response Plan (RPP-RPT-48438, Revision 0) did not fulfill the intent of milestone M-045-100. ORP initiated dispute resolution on June 1, 2011, via letter 11-TF-065. ORP also requested an extension of the comment resolution period via letter 11-TF-067. Ecology letter 11-NWP-099 to DOE, dated August 25, 2011, highlighted an ECY/DOE Agreement In Principle for a path forward and extended the due date to October 31, 2011. A revision to the M-45-100 milestone deliverable document was developed collaboratively between Ecology and ORP, and was formally transmitted from ORP to Ecology on August 29, 2011, via letter 11-TF-090.
- USDOE is delaying the final numeric modeling supporting the WMA C performance assessment to align the timing with completion of the Tank Closure and Waste Management EIS. 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:**

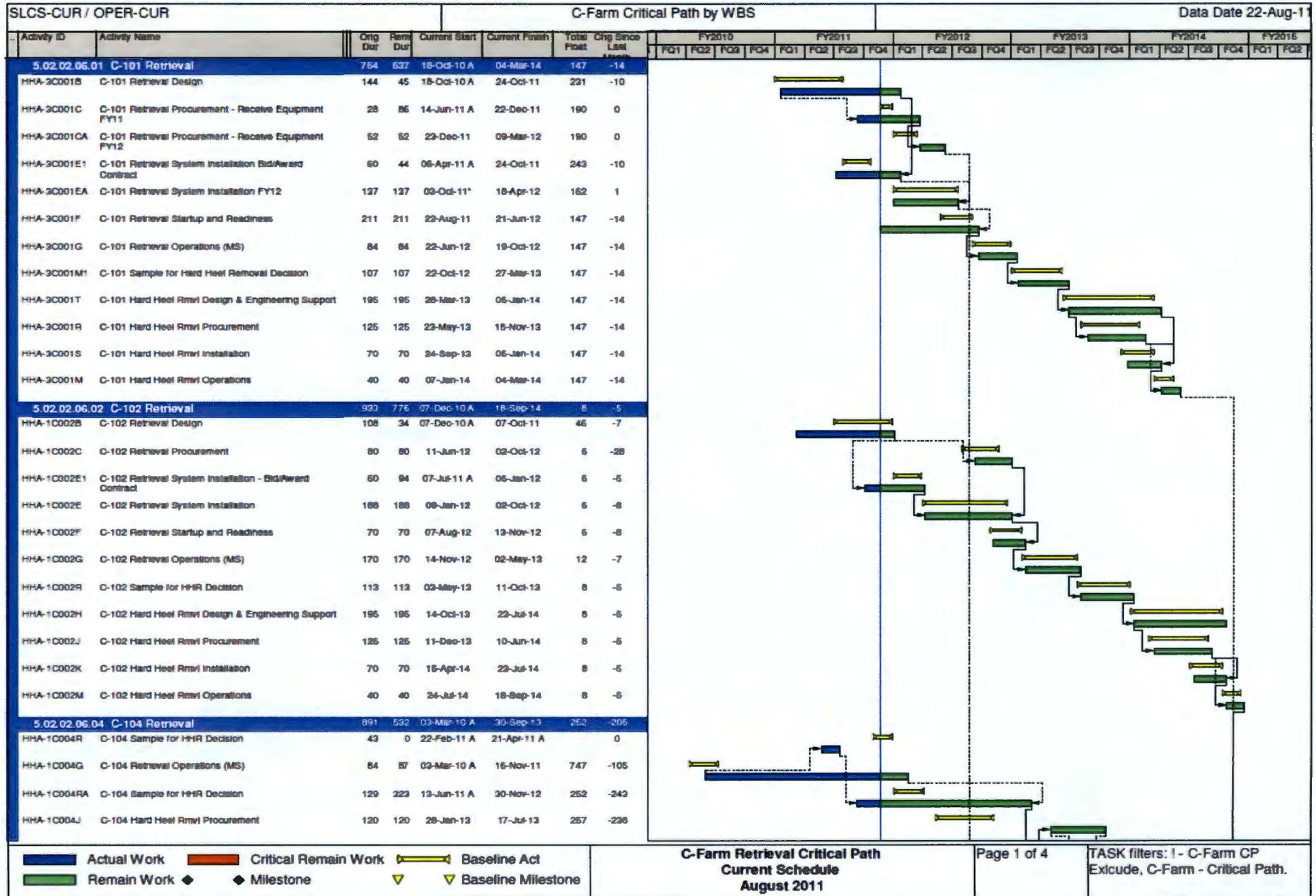
None

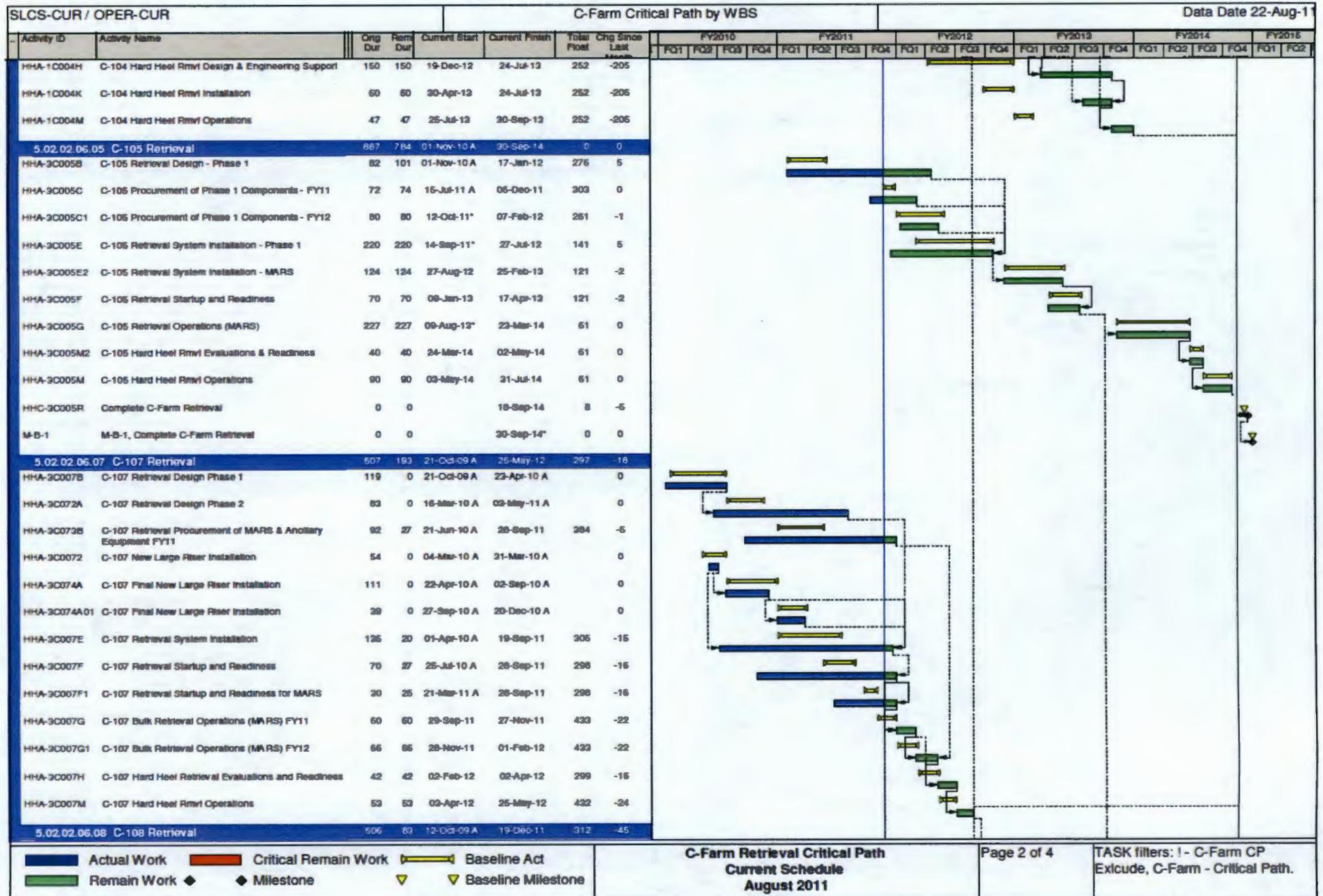
#### **Significant Planned Activities in the Next Six Months:**

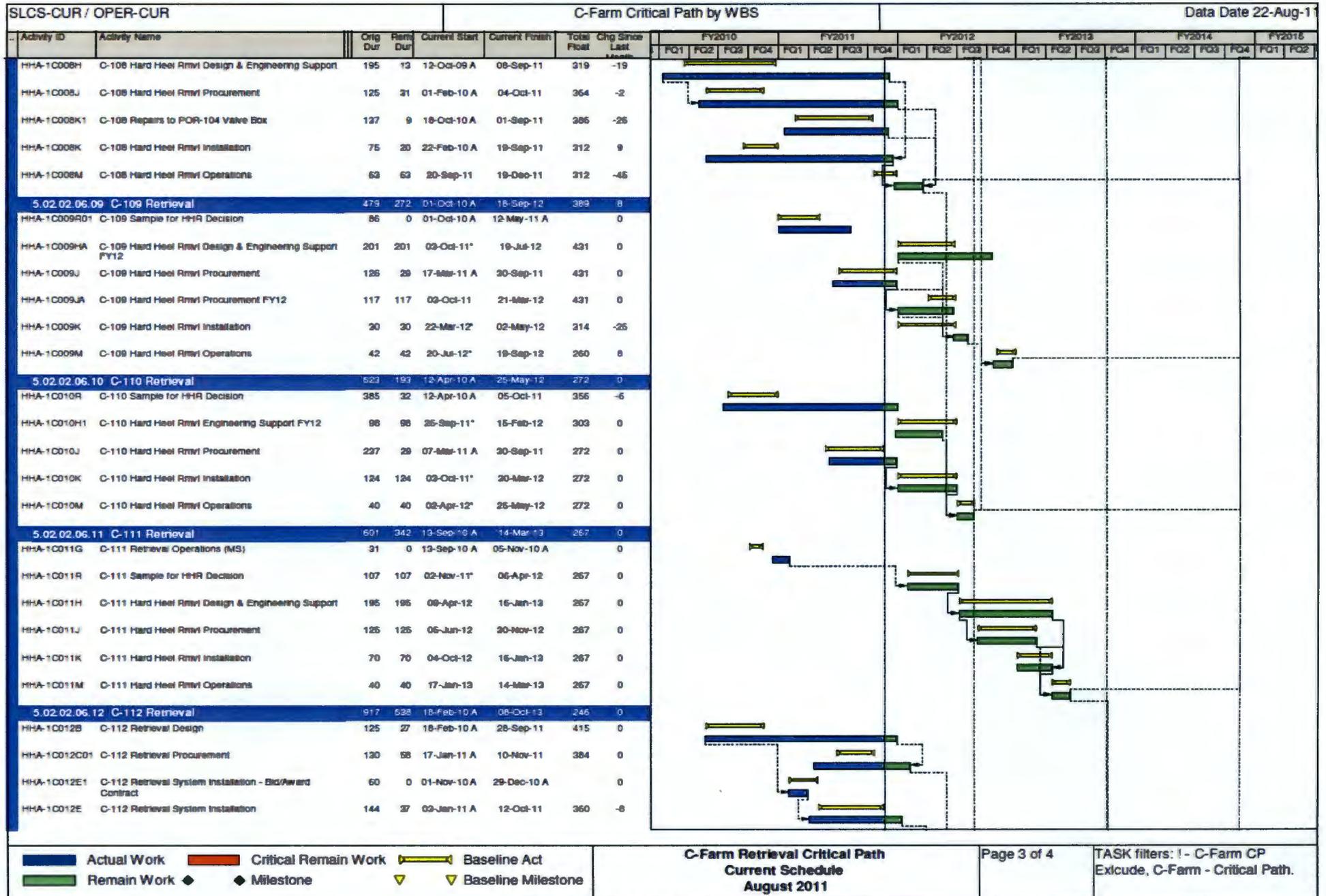
- Continue U.S. Nuclear Regulatory Commission (NRC) review of the C-106 exception request. A Request for Additional Information (RAI) was received from the NRC in February 2009. (It has been discussed with the NRC that much of the additional information requested is dependent upon development of C-Farm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

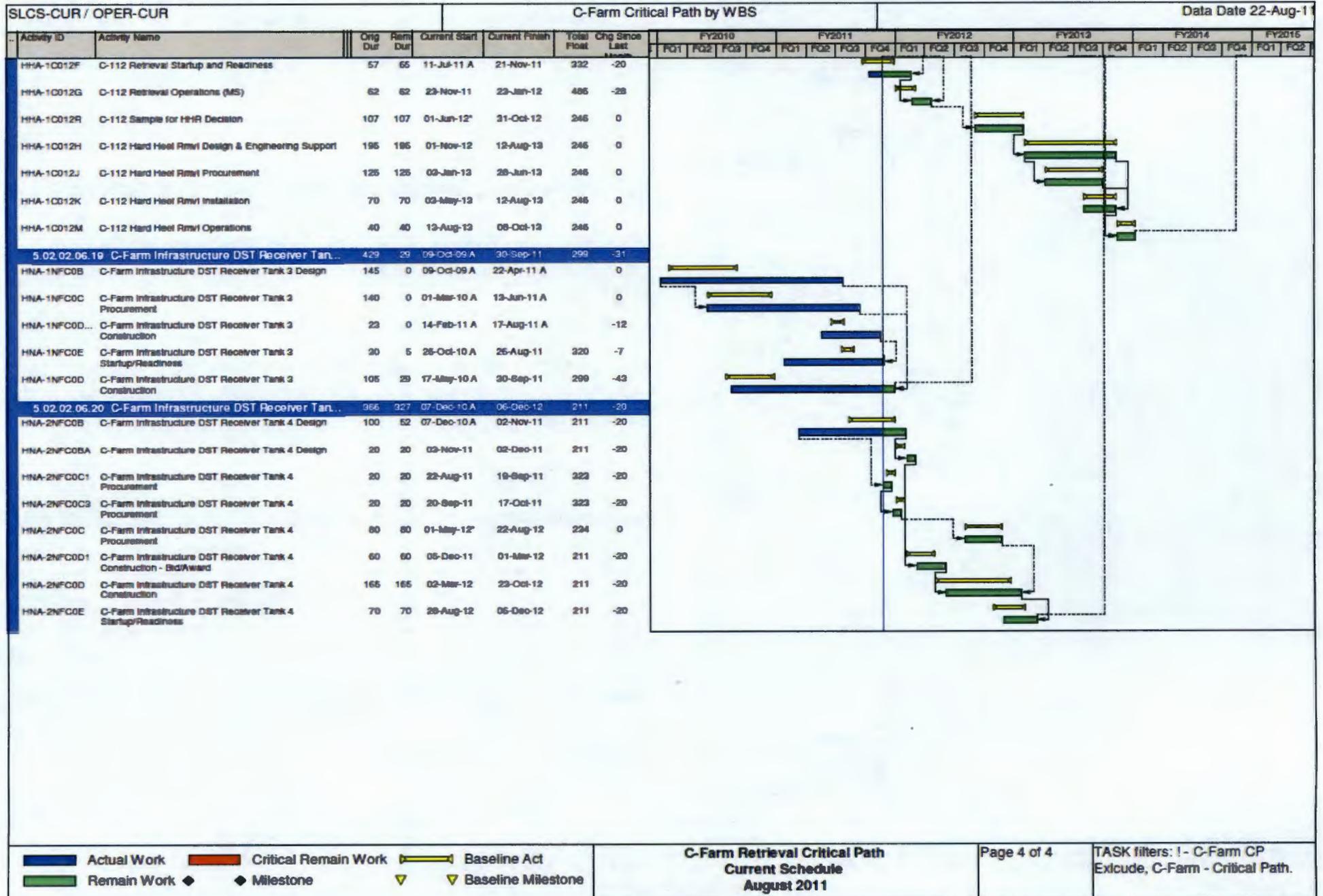
#### **Issues:**

None









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

**C-Farm Retrieval Critical Path  
Current Schedule  
August 2011**

Page 4 of 4

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

## Tank Retrievals with Individual Milestones

### Tank 241-A-103

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

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

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

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

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

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

None

#### **Issues:**

None

### Tank 241-S-112

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

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

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

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

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

None

#### **Issues:**

None

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

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

### **Significant Past Accomplishments:**

None

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

None

### **Issues:**

None

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

### 242-A Campaign strategy:

No campaigns are anticipated in CY2011 due to ongoing 242-A and Tank Farm Life Extension and ARRA funded facility upgrades. The 242-A Campaign Strategy for FY2010 through FY2015 depicted below has been updated based on ORP-11242, River Protection Project Plan, Revision 5, and ongoing schedule integration efforts.

Fiscal Year	Campaign No.	Feed Source	Slurry Tank	Comments
FY10	10-01	AW-106	AW-106	Campaigns 10-01/10-02 were performed back-to back starting in late August and completing in early October 2010. Campaign 10-02 was an acceleration of previously planned Campaign 11-01.
FY10	10-02	AW-106	AW-106	
FY11	NA	NA	NA	No campaign planned in FY11 due to ongoing 242-A and Tank Farm facility life extension and ARRA funded upgrades.
FY12	12-01	AP-107	AP-107	Estimated start June 2012. May require two (2) passes to achieve waste volume reduction.
FY13	13-01	AP-104	AP-107	Estimated start March 2013.
FY13	13-02-	AW-106	AP-107	Estimated start September 2013.
FY14	14-01	AN-106 AZ-102 AW-106	AP-107	Estimated start March 2014. Two (2) passes required.
FY15	15-01	AY-101 AZ-102	AP-107	Estimated start March 2015. Three (3) passes required.
FY15	15-02	AY-101	AP-107	Estimated start August 2015. Four (4) passes required.

## SST Integrity Assurance

**M-045-91G-T05, Provide to Ecology a report documenting and evaluating the visual inspection of 12 SSTs per the criteria listed in Table 3.3 in RPP-PLAN-46847, Rev.0, Due: 3/31/2011, Status: Complete 03/11/11 (Letter 11-TF-039). Ecology completed review and sent an approval letter stating ORP had met this milestone on 5/12/2011.**

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

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

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

**M-045-91F-T01, Provide to Ecology as a HFFACO secondary document a report evaluating the applicability to Hanford SSTs of the liquid leak rate assessments of sludge and salt-cake from the Savannah River Site, Due: 1/31/2012, Status: On Schedule**

**M-045-91G-T02, provide to Ecology the Structural Analyses of Record final documentation for SSTs for 750,000 gallon tanks (BY, S, TX and TY Farms), Due: 1/31/2012, Status: On Schedule**

**M-045-91D, Submit to Ecology an analytical test plan for the cores removed from the C-107 plug, Due: 3/31/2012, Status: Complete 06/27/11. ORP letter 11-TPD-043 transmitted the test plan to Ecology on June 27, 2011.**

**M-045-91G-T06, Provide to Ecology a report documenting and evaluating the visual inspection of 12 SSTs per the criteria in M-045-91G-T05, Due: 3/31/2012, Status: On Schedule**

**M-045-91G-T03, Provide to Ecology the Structural Analyses of Record final documentation for SSTs for 1,000,000gallon tanks (A, AX and SX Farms), Due: 9/30/2012, Status: On Schedule**

**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, date changed with M-45-11-05 Change Control Form.**

**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:**

- Approved M-045-91D on July 29, 2011 by Ecology letter 11-NWP-077.
- In support of M-045-91B, the Sampling and Analysis Plan was issued RPP-PLAN-50182 was issued. The demonstration at the WNP-1 Site was completed and witnessed by Ecology. Demonstration was successful, deviation control objective were met.
- Specimens for the M-045-91D milestone have been tested for mechanical properties by CTL in Skokie, Illinois. Vendor test report is being prepared.
- In support of M-045-91G-T02, TYPE II AOR completed (RPP-RPT-49989), Ecology briefed results on 8/23/11.

- M-045-91F-T04: The examination of 241-TY and 241-BY farms continues. Two tank reports for the 241-TY farm have been drafted for discussion with Ecology. Background information for the examination of the 241-BY farm has been collected.
- Completed milestone M-045-91C, transmit to Ecology the Test Plan to evaluate the chemistries as specified in RPP-RPT-43 116. Rev 0 via letter 11-TPD-057 on 09/15/2011.
- Completed milestone M-045-91G-T01, Provide to Ecology the Structural Analyses of Record final documentation for SSTs for 530, 000 gallon tanks (B, BX, C, T and U Farms), sent via letter 11-TPD-064 on 09/15/2011.
- Completed milestone M-045-91B, Submit a Sampling and Analysis Plan to Ecology for the sampling of sidewall cores from tank 241-A-106 or alternate tank approved by Ecology, sent via letter 11-TPD-069 on 09/20/11.

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

- Receive M-045-91D specimen testing from CTL in Skokie, Illinois.
- Complete milestone M-045-91F-T03, plan to provide Ecology, Ionic Conductivity Feasibility Report in September 2011. Due: 5/31/2013.
- M-045-91F-T04: Leak assessments are ongoing with meetings every other week through 2012.
- Complete milestone M-045-91G-T02, Provide to Ecology the Structural Analyses of Record final documentation for SSTs for 750, 000 gallon tanks (BY, S, TX, and TY Farms), planned submittal to Ecology in November 2011. Due: 1/31/2012.
- Prepare and issue demonstration test report for the sidewall coring demonstration to support M-045-91B-T01.
- Complete milestone M-045-91F-T01 leak assessment rate for Hanford and Savannah River Site tanks.
- Complete 241-TY/BY leak assessment report segment for the M-045-91F-T04 milestone.

**Issues:**

None.

## In Tank Characterization and Summary

For the period from August 1 – August 31, 2011:

### Accomplishments:

- Completed revision 0 of RPP-46608, *Spreadsheet Description Document for Particle Size and Criticality Velocity Evaluation for the 241-Z Tank TK-D5 Transfer System* on August 22.
- Completed revision 0, of SVF 2327, *ULD Calculation Spreadsheet v. 1.0 – FY11 Q3 BBI Update SVF-2327.xlsm* on August 3.

### Planned Action within the next Six Months:

- Tank Sampling
  - Tank 241-C-108 hard heel dissolution samples scheduled for October 2011.
  - Tank 204-AR-TK-1 compatibility samples scheduled for October 2011.
  - Tank 241-AN-106 grab samples for chemistry control taken at 50% of the retrieval of tank 241-C-107 scheduled for December 2011.
  - Tank 241-AP-104 evaporator samples scheduled for November 2011.
  - Tank 241-C-108 off riser sampling scheduled for January 2012.
  - Tank 241-AN-101 grab samples for chemistry control taken at 50% of the retrieval of tank 241-C-112 scheduled for December 2011.
  - Tank 241-AZ-102 grab samples for chemistry control scheduled for December 2011.
  - Tank 241-C-107 off riser sampling scheduled for March 2012.
- BBI Updates
  - Ten tank updates were planned for FY11 Quarter 4. However, four of the tanks have been postponed due to the lack of required data.
    - Updates for the remaining six tank have been started.
- Data Quality Objectives (DQO)
  - Complete revision 3 of the PCB Management DQO in September 2011.

### Issues:

None

## TANK OPERATIONS CONTRACT (TOC) OVERVIEW

### Project Performance

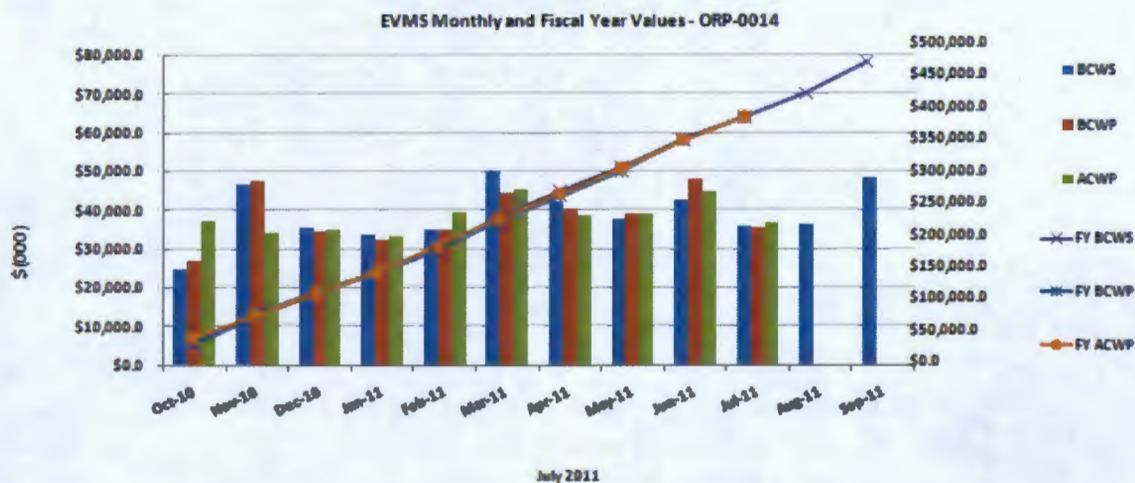
The earned value analysis is a comparison of cost and schedule contract-to-date performance. The earned value performance reporting reflects the format, Work Breakdown Structure (WBS) reporting levels, and variance thresholds as agreed to with the Tank Farms Operations Contractor (TOC) for monthly performance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

WRPS July Project Performance (\$k)

	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC
CM	35,732.0	35,669.0	36,839.3	(63.1)	(1,170.3)	1.00	0.97			
FYTD	384,540.3	383,124.3	383,531.3	(1,416.1)	(407.0)	1.00	1.00	468,636.0	469,678.1	(1,042.1)
CTD	1,144,596.0	1,136,357.9	1,075,654.3	(8,238.1)	60,703.7	0.99	1.06	2,107,285.1	2,045,163.3	62,121.8

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

### Current Month Significant Variance Contributors

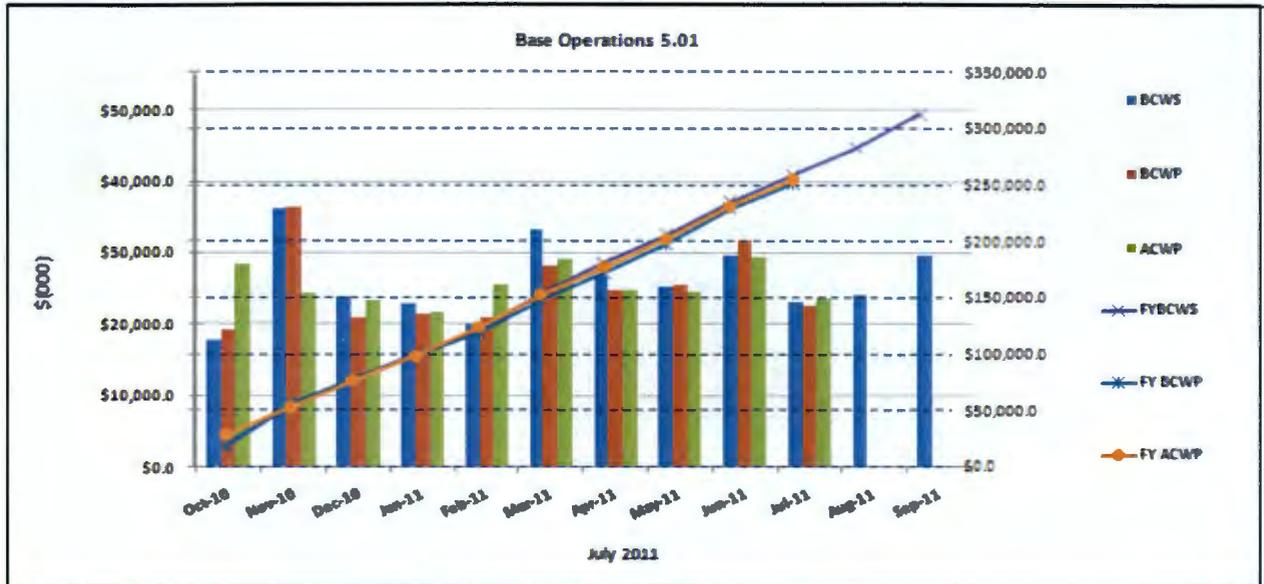


Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-10	\$24,918.8	\$26,782.0	\$37,083.6	1.07	0.72	\$24,918.8	\$26,782.0	\$37,083.6	1.07	0.72
Nov-10	\$46,528.0	\$47,510.9	\$34,301.0	1.02	1.39	\$71,446.8	\$74,292.9	\$71,384.5	1.04	1.04
Dec-10	\$35,469.5	\$34,558.3	\$35,056.5	0.97	0.99	\$106,916.3	\$108,851.1	\$106,441.0	1.02	1.02
Jan-11	\$33,862.5	\$32,115.2	\$33,376.8	0.95	0.96	\$140,778.8	\$140,966.4	\$139,817.8	1.00	1.01
Feb-11	\$36,157.1	\$34,800.6	\$39,298.6	0.99	0.89	\$176,935.9	\$176,766.8	\$179,106.4	1.00	0.98
Mar-11	\$50,219.3	\$44,202.5	\$45,098.7	0.88	0.98	\$226,155.2	\$219,969.3	\$224,205.1	0.97	0.98
Apr-11	\$42,344.0	\$40,218.8	\$38,772.0	0.95	1.04	\$268,499.2	\$260,188.1	\$262,977.1	0.97	0.99
May-11	\$37,492.6	\$39,240.0	\$38,043.5	1.05	1.01	\$305,991.8	\$299,428.1	\$301,820.6	0.98	0.99
Jun-11	\$42,816.6	\$48,027.1	\$44,871.5	1.12	1.07	\$348,808.4	\$347,485.2	\$346,692.1	1.00	1.00
Jul-11	\$35,958.2	\$35,669.0	\$36,839.3	0.99	0.97	\$384,766.6	\$383,124.2	\$383,531.4	1.00	1.00
Aug-11	\$36,269.3					\$421,035.9				
Sep-11	\$48,559.2					\$469,595.1				

CTD	\$1,100,664.0	\$1,100,689.0	\$1,038,815.0	0.99	1.06
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- Effective through July 31, 2011 – The overall project performance is going very well; SPI is slightly under 1.00 with a CPI of 1.06; thus – ORP 0014 is on schedule and under budget.

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



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-10	\$17,777.2	\$19,285.1	\$26,549.6	1.08	0.68	\$17,777.2	\$19,285.1	\$26,549.6	1.08	0.68
Nov-10	\$36,143.1	\$36,366.3	\$24,452.2	1.01	1.49	\$53,920.3	\$55,651.4	\$53,001.8	1.03	1.05
Dec-10	\$23,775.6	\$20,995.7	\$23,448.8	0.88	0.90	\$77,695.9	\$76,647.1	\$76,450.6	0.99	1.00
Jan-11	\$22,076.6	\$21,370.0	\$21,705.1	0.93	0.98	\$100,572.5	\$98,017.1	\$98,155.7	0.97	1.00
Feb-11	\$20,031.0	\$21,023.0	\$25,607.6	1.05	0.82	\$120,603.5	\$119,040.1	\$123,763.3	0.99	0.96
Mar-11	\$33,329.2	\$28,292.6	\$29,059.6	0.85	0.97	\$153,932.7	\$147,332.7	\$152,822.9	0.96	0.96
Apr-11	\$26,817.9	\$24,728.9	\$24,769.1	0.92	1.00	\$180,750.6	\$172,061.6	\$177,592.0	0.95	0.97
May-11	\$26,422.8	\$26,669.7	\$24,548.6	1.01	1.05	\$206,173.4	\$197,731.3	\$202,140.6	0.96	0.98
Jun-11	\$29,540.0	\$31,789.1	\$29,306.5	1.08	1.00	\$235,713.4	\$229,520.4	\$231,447.1	0.97	0.99
Jul-11	\$23,168.0	\$22,540.5	\$23,499.9	0.97	0.96	\$258,881.4	\$252,060.9	\$254,947.0	0.97	0.99
Aug-11	\$24,147.8					\$283,029.2				
Sep-11	\$29,554.9					\$312,504.1				

CTD	\$748,697.6	\$743,853.7	\$715,573.7	0.99	1.04
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• **242-A Evaporator Operation and Maintenance, \$230k:** CM (CV) the CV is driven by three root causes:

- (1) An accounting error in the work packages for the 242-A Evaporator simulator capital equipment not related to construction and simulator resulting in a credit to the ACWP of **(\$103k)**, which will be corrected in August. The correct adjusted CV for this control account is **127k**;
- (2) Labor underruns due to more vacations than planned and an unplanned short-term disability, and a delay to the 242-A Evaporator outage as maintenance resources were diverted to higher-priority work, **\$55k**;
- (3) Other minor contributors including equipment not costed as planned, unrealized cost transfer from RA to the base contract, and no costs to the spare parts account, **\$79k**.

• **RA-DST Valve Assembly Upgrades, (\$202k):** CM (SV) performance “give-back” on installation of replacement piping jumpers in the AN-A and AN-B valve pits (work completed early).

• **RA-Exhauster Upgrades, (\$190k):** CM (SV) performance “give-back” on AP and SY Farm exhauster upgrades (work completed early).

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

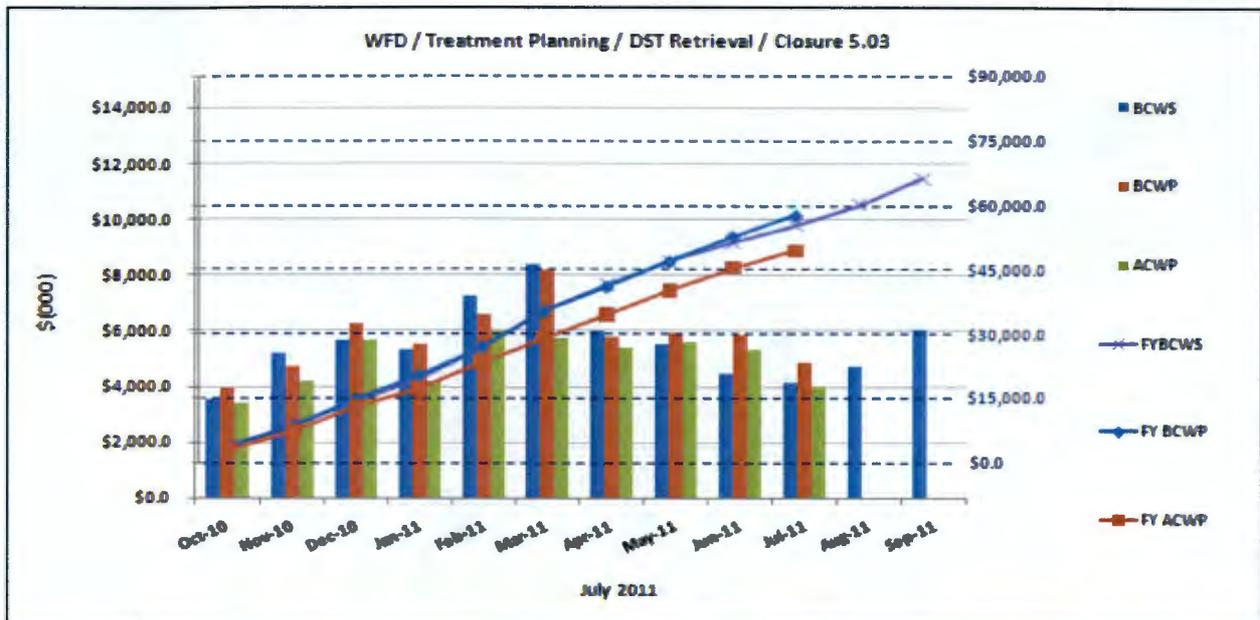


Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-10	\$2,991.6	\$2,932.6	\$4,707.6	0.98	0.62	\$2,991.6	\$2,932.6	\$4,707.6	0.98	0.62
Nov-10	\$4,412.7	\$5,622.7	\$5,006.7	1.27	1.12	\$7,404.3	\$8,555.3	\$9,714.3	1.16	0.88
Dec-10	\$5,209.7	\$6,682.7	\$5,494.0	1.28	1.22	\$12,614.0	\$15,238.0	\$15,208.3	1.21	1.00
Jan-11	\$5,310.0	\$4,820.2	\$6,975.6	0.91	0.69	\$17,924.0	\$20,058.2	\$22,183.9	1.12	0.90
Feb-11	\$6,670.0	\$6,253.2	\$7,006.6	0.94	0.89	\$24,594.0	\$26,311.4	\$29,190.5	1.07	0.90
Mar-11	\$7,513.3	\$6,825.3	\$9,447.6	0.91	0.72	\$32,107.3	\$33,136.7	\$38,638.1	1.03	0.86
Apr-11	\$8,613.5	\$8,766.1	\$7,914.2	1.02	1.11	\$40,720.8	\$41,902.8	\$46,552.3	1.03	0.90
May-11	\$5,638.9	\$6,687.7	\$7,937.1	1.19	0.84	\$46,359.7	\$48,590.5	\$54,489.4	1.05	0.89
Jun-11	\$7,638.7	\$8,905.0	\$9,080.1	1.17	0.98	\$53,998.4	\$57,495.5	\$63,569.5	1.06	0.90
Jul-11	\$7,729.6	\$7,211.9	\$8,335.0	0.30	0.87	\$61,728.0	\$64,707.4	\$71,904.5	1.05	0.90
Aug-11	\$6,540.3					\$68,268.3				
Sep-11	\$11,951.1					\$80,219.4				

<b>CTD</b>	<b>\$215,268.5</b>	<b>\$211,848.8</b>	<b>\$206,098.7</b>	<b>0.98</b>	<b>1.03</b>
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- **C-112 Retrieval, (\$712k):** CM (SV) behind schedule on SST C-112 retrieval system procurement, (\$119k), and installation, (\$553k), due to late receipt of material, resource constraints (assigned to higher-priority work), weather delays (heat and wind), and resolution of technical issues.
- **C-107 Retrieval, (\$642k):** CM (CV) costs exceeding the plan for installation of the MARS (overtime to recover the schedule), (\$413k); design and engineering costs for resolution of water hammer calculation issues and development of engineering change notices, (\$149k); and exhauster refurbishment, (\$120k).
- **C-108 Retrieval, (\$488k):** CM (CV) costs exceeded the plan for hard heel removal leak checks, which were impacted by technical issues encountered in the field, overtime worked, and weather delays (wind and heat).
- **C-109 Retrieval, \$137k:** CM (CV) cost efficiencies on hard heel removal engineering and project management due to in-house design and shared management resources.

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

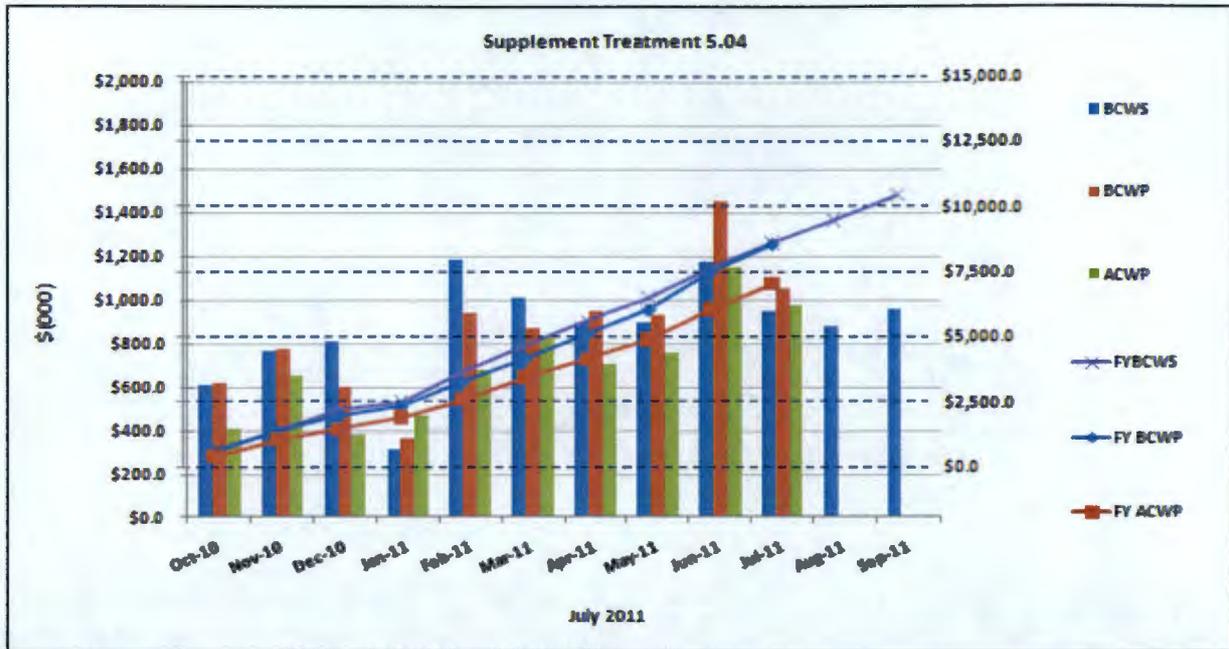


Earned Value Month	BCWS	BCVP	ACVP	SPI	CPI	FYBCWS	FY BCVP	FY ACVP	FY SPI	FY CPI
Oct-10	\$3,540.0	\$3,944.3	\$3,413.8	1.11	1.16	\$3,540.0	\$3,944.3	\$3,413.8	1.11	1.16
Nov-10	\$5,203.6	\$4,748.8	\$4,184.7	0.91	1.13	\$8,743.6	\$8,693.1	\$7,598.5	0.99	1.14
Dec-10	\$5,677.1	\$6,277.7	\$5,689.4	1.11	1.10	\$14,420.7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

<b>CTD</b>	<b>\$134,330.3</b>	<b>\$134,500.0</b>	<b>\$108,286.0</b>	<b>1.00</b>	<b>1.24</b>
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- **RA-Exhauster Upgrades, (\$190k):** CM (SV) performance “give-back” on AP and SY Farm exhauster upgrades (BCWS in the CM for work completed early).
- **RA-Electrical Upgrades, (\$239k):** CM (SV) behind schedule on the TX/TY Farms’ SST electrical upgrades due to higher priorities for review and release of design documentation. Work expected to be completed in September 2011, 1 month behind schedule.
- **RA-Electrical Upgrades, (\$240k):** CM (CV) the CV is driven by two root causes:
  - (1) The contract for the SY Farm POC exceeds the planned value due to increased market prices for electrical components and material, and the CM progress and BCWP were limited to the subcontract milestone payment schedule, (\$185k);
  - (2) Unplanned additional labor and material costs to procure and replace 14 breakers in the SY Farm that are not compatible with the new transformer, (\$50k).
- **RA-Secondary Waste Form Testing, \$298k:** CM (CV) cost efficiencies on the RA-Secondary Waste Form Testing, \$189k, and RA-Minimize Tc [Technetium] in Secondary Waste, \$109k, because the contractor is completing the phase 2 technetium retention testing utilizing fewer resources than planned.

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



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

CTD	\$10,567.6	\$10,406.4	\$8,856.7	0.98	1.17
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- *WTP Pre-Treatment Alternative Studies, \$36k*: CM (CV) cost efficiencies realized from self-performing WTP technology development baseline studies, reducing subcontractor cost and utilizing technology demonstrations from SRNL, requiring less labor.

## Acquisition of New Facilities

**M-090-11, Complete the Negotiation of No More Than Two Canister Storage Facility Construction Interim Milestones, Due: 12/31/12, Status: On Schedule.** Negotiations are not yet underway.

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

**M-047-06, Complete negotiation of no more than two interim milestones governing work necessary to support completion of M-047-00, Due: 06/30/12, Status: Negotiations are not yet underway.**

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

### Significant Past Accomplishments:

The Interim Hanford Storage and Secondary Waste Treatment Projects down-selection of alternatives was completed in August 2011.

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

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

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

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

### Issues:

None

## Supplemental Treatment and Part B Permit Applications

**M-062-30, Complete negotiations establishing milestones for near term actions, Due:** 10/25/11, Status: Deleted. Change Package M-62-11-01 deleted this milestone and elements required by this milestone may now be considered during the M-62-40 or M-62-45 negotiations. M-62-11-01 notes that no further obligations remain to be performed under M-062-30.

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

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

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

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

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

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

**M-062-45XX, No later than 12/31/2021, the DOE and Ecology shall complete negotiations to establish a mechanism that will apply to resolve future disputes regarding the determinations in M-062-45, paragraphs 4 and 5, due:** 12/31/2021, Status: On Schedule

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

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

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

### Significant Past Accomplishments:

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

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

None

### Issues:

None

## System Plan

**M-062-40B, Submit a system plan describing the disposition of all tank waste managed by ORP, Due: 10/31/2011, Status: On Schedule**

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

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

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

### **Significant Past Accomplishments:**

WRPS submitted the System Plan, Revision 6 on August 25, 2011 for the DOE/ORP contract review period of August 26, 2011 through September 20, 2011.

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

Comments generated from the DOE/ORP contract review period will be incorporated in the System Plan Revision 6 document. The finalized document will be approved by ORP, released by WRPS, and transmitted from ORP to Ecology in time to meet the Oct. 31, 2011 milestone due date.

### **Issues:**

None

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

<b>Number</b>	<b>Title</b>	<b>Due Date</b>	<b>Status</b>
M-062-01W	Submit Semi-Annual Project Compliance Report	07/28/2011	Complete, CD – 7/28/2011 - TPA – 7/27/2011
M-062-49	Submit a report to Ecology demonstrating that the WTP is designed to accomplish, retreat 100% of retrievable waste, vitrify 100% of separated high level waste, WTP LAW with supplemental treatment can vitrify 100% of separated low level waste stream	10/31/2011	BNI was provided direction to prepare this report on March 30, 2011, document in preparation, and will be provided to DOE at the end of September 2011.

The WTP Project currently employs about 3,500 full-time equivalent (FTE) contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel, including 1,300 craft, 590 non-manual, and about 205 subcontractor personnel FTEs working at the WTP construction site (all facilities). As of July 2011, the project is 60 percent complete, design and engineering is 83 percent complete, procurement is 64 percent complete, construction is 56 percent complete, and Startup and Commissioning is 13 percent complete.

The overall WTP Project schedule variance in July was a positive \$2.2M, the cost variance was a positive \$3.3M. The positive cost variance was due to Plant Equipment and Engineering control accounts and the schedule variances came primarily from Plant Material and Construction control accounts.

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

**Significant Past Accomplishments:**

- Completed the analytical results from the Low Order Accumulation Model validation testing for the non-Newtonian vessel configuration.
- Completed installation of the hot cell monorail airlocks in the Analytical Laboratory.

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

- Complete erection of 4<sup>th</sup>-tier structural steel (77-ft to 98-ft elevation).
- Perform Large Scale Integrated Testing (LSIT) in 4-ft and 8-ft vessels for resolving mixing issues.
- Complete fabrication and delivery of C5 Ventilation System (C5V) dampers.
- Complete siding of High-Level Waste (HLW) Facility Annex.

- Complete installation of the Low-Activity Waste (LAW) Facility and Analytical Laboratory (Lab) Autosampler systems.
- Complete construction of the Balance of Facilities (BOF) cooling tower.
- Complete construction of BOF switchgear building.

**Issues:**

No significant issues at this time.

## PRETREATMENT (PT) FACILITY

The PT Facility will separate radioactive tank waste into HLW and LAW fractions and transfer each waste type to the respective vitrification facility for immobilization. Through July 2011, the PT Facility is 49 percent complete overall, engineering is 78 percent complete, procurement is 46 percent complete, and construction is 38 percent complete.

### Significant Past Accomplishments:

Rebar and embed installation and fabrication of rebar wall curtains continues to support additional slab and wall placements at the 56-ft to 98-ft elevations. Construction completions for August include placement of five 5<sup>th</sup>-lift (77-ft to 98-ft elevation) walls for a total of 423 cubic yards. Set into place the stainless steel decontamination booth and two hot cell shield doors.

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

Engineering continues to implement changes from the technical issue resolutions into piping and instrumentation diagrams and piping isometric drawings. Instrumentation location drawings and piping isometric drawings were issued for the 56-ft elevation.

Evaluations of the Pretreatment Vessel Vent Process/Process Vessel Vent Exhaust System to validate the ability to meet functional requirements during an off-normal condition is ongoing, including the performance testing of High Efficiency Mist Eliminator (HEME) and scrubber. Vendor award for the aerosol testing to determine entrainment factor for the WTP-specific conditions is in progress.

Re-committed design packages were issued for the cesium ion exchange, waste feed evaporator waste feed receipt, the demineralized water and pulse jet ventilation process systems. Approved BNI request for the Justification for Continued Design Procurement and Installation needed to award HEME procurement. BNI has awarded the LSIT contract for the PJM mixing in 4-ft, 8-ft, and 14-ft vessels.

ASX pneumatic transfer system and vacuum system HEPA filters were released to ship.

Submitted to Ecology the IQRPE final report for approval of the permit modifications for Vessels UFP- 62 A/B. Vessel head welding for vessels UFP-27A and 27B are complete.

Updated detailed execution plan for the design, procurement, and installation of liner plates, jumper frames and equipment pads have been developed for the hot cell.

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

- Removal of CXP-1 vessel, based on the CXP System design changes
- Fabrication and delivery of initial hot cell equipment frames.
- Development of the Pulse Jet Mixer (PJM) design and control strategy for resolving open issues with mixing and completion of vessel design.

- Perform Large Scale Integrated Testing in 4-ft and 8-ft vessels for resolving mixing issues.
- Award contract for HEME.
- Complete 5<sup>th</sup>-lift wall placements, make eight 98-ft slab placements, four 6<sup>th</sup>-lift wall placements, and make 6 of 8 placements for the Control Building basemat, totaling approximately 5,000 cubic yards of concrete.
- Set hot cell vertical door drive mechanism replacement gearbox and switch.
- Complete verification and validation of quantitative risk analysis for hydrogen in piping and ancillary vessels.
- Install hot cell piping pulse jet ventilation header.
- Make first 98-ft elevation slab concrete pour by end of 2011.
- Complete hazardous operations review for the cesium ion exchange, waste feed evaporator and the HLW lag storage and feed blend process systems.
- Complete 19 mechanical systems re-committed design packages.
- Complete erection of 4<sup>th</sup>-tier structural steel (77-ft to 98-ft elevation).
- Ecology approval of the permit packages is required to proceed with the alteration of the on-site vessels FRP -2A/B/C/D and UFP-62A/B/C in December 2011. These packages are scheduled to begin a public comment period in October 2011.

**Issues:**

- Vessel Critical Path: Fabrication of vessel HLP-22 continues to be the primary critical path for the PT Facility. The fabrication of the vessel is in progress, but the completion date has slipped from October to December 2012. This is still ahead of the construction need date of February 2013. However, the fabricator is pursuing opportunities to improve the HLP-22 completion date.

## HIGH-LEVEL WASTE (HLW) FACILITY

The HLW Facility will receive the separated HLW from the PT Facility. The concentrate is blended with glass formers and converted into molten glass in one of the two HLW melters and then poured into cylindrical stainless steel canisters. After cooling, the canisters are sealed and decontaminated prior to shipment to interim storage. The HLW Facility is 55 percent complete overall, with engineering design 85 percent complete, procurement 69 percent complete, and construction 36 percent complete.

### Significant Past Accomplishments:

The build-out of the Filter Cave is critical path for HLW. The first of five C5V filter housing was set in place on August 31; the remaining four were set in place as of September 12, allowing for the following placement of dampers in pairs. This sequencing allows for slight adjustments to optimize the alignment of the housings, dampers, and headers and to maintain the spacing requirements between housings before welding the assemblies and finalizing the installations. The first set of remote-operated dampers was received in August and damper deliveries continue in lots of two each week. The schedule for equipment installations and deliveries is being maintained and support a completion of the Filter Cave build-out in May 2012.

Five concrete placements (for a sum of 607 cubic yards) were completed in August, and with the placement of walls 2146 and 2147 on September 8, all of the 14-ft to 37-ft elevation walls have been placed with the exception of two exterior walls along the Canister Export Bay. For the HLW Annex, the parapet walls have been completed and the subcontractor is continuing the installation of siding and roofing. Electrical and piping commodities are progressing throughout the 21-ft elevation, including cooling water, cable trays and supports, and fire protection piping. Vendors are also continuing with special coatings, HVAC, and liner plate installations.

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

- Complete fabrication and delivery of C5V dampers.
- Complete siding of HLW Annex.
- C5V housing and remote-operated damper installations.
- Receive major components of Melters 1 and 2.
- Receive RLD-VSL-8.

### Issues:

No significant issues at this time.

## LOW-ACTIVITY WASTE (LAW) FACILITY

The LAW Facility will vitrify LAW from the PT Facility. Waste will be mixed with glass formers, vitrified into glass at a design capacity of 30 metric tons per day, and placed in stainless steel containers that will be disposed on the Hanford Site in the Integrated Disposal Facility. The LAW Facility is 66 percent complete, engineering is 88 percent complete, procurement is 85 percent complete, and construction is 64 percent complete.

### **Significant Past Accomplishments:**

The LAW secondary off-gas treatment system component procurement activities continued. Vendor activities are progressing for all off-gas system components. The first of these secondary off-gas treatment system components to be delivered will be the carbon bed adsorber (CBA) in November 2011. The Annex Architectural Specialties subcontract was awarded. Other procurement activities included issuance of a material requisition for quotes on high-efficiency particulate air (HEPA) pre-heaters, a material acceptance plan for melter/component fabrication, and a release to ship a HEPA filter for the pneumatic transfer vacuum system.

BNI Design issued piping and instrumentation diagrams for the C2V and C3V systems for refrigerant lines serving safety air-conditioning units for the off-gas fan and battery rooms. An instrument rack general arrangement data sheet was issued for the LAW concentrate receipt process system. Several instrument data sheets were issued for the LAW primary off-gas process system. Piping isometric drawings were issued for the chilled water, plant cooling water, carbon dioxide gas, LAW primary off-gas process, and LAW melter process systems. Several equipment qualification and enclosure component data sheets were issued for the programmable protection system. Connection diagram data sheets were issued for the autosampling, LAW concentrate receipt process, programmable protection, and LAW secondary off-gas/vessel vent process systems. Initial Component Information System (CIS) equipment and component lists were issued for the plant service air and demineralized water systems. Updated CIS lists for equipment, in-line components, valves, and pipelines were issued for the carbon dioxide gas system.

BNI initiated installation of the container inert fill hoppers for the container finishing handling system. Installation was completed for two moisture eliminators and HEPA filters for the C5V ventilation system, a mud mat for the east transformer foundation, hopper chutes for the glass former reagent system, as well as the lidding equipment in the south line for the container finishing handling system. Construction continued with installation of the fire alarm system, low-voltage electrical equipment, medium voltage electrical equipment, air-handling units, fan coil units, and humidifiers for the C2V ventilation system, liner in the pour caves, cranes for the LAW melter equipment support handling system, and container receipt handling and finishing line hoists, hatches, and lidding equipment. Other normal activities continued, including installation of piping for the medium-voltage electrical, glass former reagent, and plant cooling water systems within the LAW, as well as installation of pipe and pipe hangers, sprinklers,

electrical grounding, conduit and wiring, tubing for instrumentation, instrument enclosures, lighting fixtures, partition walls, and coatings.

Integrated Control Network development continued with software design and testing for the following systems: LAW melter feed process system, container receipt handling system, LAW melter equipment support handling system, primary off-gas process system, secondary off-gas/vessel vent process system, ASX system, and radioactive liquid waste disposal system.

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

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

**Issues:**

No major issues at this time.

## ANALYTICAL LABORATORY

The Lab will support WTP operations by analyzing feed, vitrified waste, and effluent streams. The lab is 47 percent complete, engineering is 78 percent complete, procurement is 74 percent complete, and construction is 65 percent complete.

### **Significant Past Accomplishments:**

Ongoing construction work includes installation of HEPA filters and tubing on top of the hot cells, piping, formwork, rebar, and embeds in C5 fan room for fireproofing slab, drop piping for the low pressure steam, steam condensate water, and chilled water system, domestic water piping, lower piping in C2V/C3V pit, bulk piping/hangers, electrical equipment, ballast enclosures, and scheduled/unscheduled conduit and raceway in the exterior hot cell, bulk piping/hangers in the radiological lab. Installation continues on the trolley covers/motor assemblies and north gamma probes in interior hot cell. Construction completed installation of structural steel in C5 fan room for fireproofing slab, electrical equipment in the maintenance/glovebox room, and installation of the hot cell monorail airlocks.

Engineering issued laboratory in-cell handling system software acceptance test, configuration data indices for low pressure steam, instrument data sheets for C2V, C3V, and C5V differential pressure transmitters, and instrument data sheets for environmental monitoring system ambient radiation detectors. Piping isometric drawings were issued for low-pressure steam and high-pressure steam.

The following were issued for the radioactive liquid waste disposal system: control logic and functional diagrams to support software testing, configuration data indices, data sheets for field bus pressure transmitters, data sheets for fieldbus temperature transmitters/switches, data sheets for resistance temperature detection elements, system block diagrams, and piping isometric drawings.

The following were issued for the ASX system: configuration data indices, sequential functional charts, control logic diagrams, system block diagrams, functional instrumentation diagrams, setroute layout, programmable protection system equipment qualification and enclosure data sheets, component identification system in-line/equipment lists, and piping isometric drawings.

The following were issued for the low voltage electrical system and the uninterruptable power electrical: 208-volt/120-volt distribution panel block diagrams and panel schedule, and termination/cable schedules. Drawings were issued for leak collections pans to support the architectural specialties subcontract work.

Procurement received three tons of structural steel, issued material requisitions for radiological monitoring instruments, specialty valves, process regulators, thermocouples/resistance temperature detectors, important to safety programmable protection system components, breakers for load centers, and radar/radio frequency level instruments.

The operations staff performed a walkthrough of the Lab to follow the progress of the installation of the ASX sampling units and accessories. An agreement was made with

Engineering with respect to operation of C3/C5 pumps to remove liquid from their respective tank sumps. The team is working on an evaluation to determine if all facilities require multiple weather protected loading bays/docks, and any required modifications that need to be made from the evaluation. The team completed the draft spreadsheet on waste feed acceptance criteria (WAC) data quality objectives (DQO) analytes. This spreadsheet listed the 258 WAC analytes along with sample size and analytical methods, and grouped the analytes into action limits, elemental, radiochemical, and organic categories. Additionally, baseline analytical methods for waste pre-qualification are being established. Identification of existing methods for analyses required by the WAC DQO document is complete. Gaps between analytical requirements and existing methods are being reviewed for methods development needs.

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

- Install waste drum bogie transfer port.
- Install Autosampler HEPA filter housings frames.
- Complete installation of Autosampler System.
- Install hot cell monorail recovery hoists.
- Install fireproofing slab in C5 fan room.

**Issues:**

No major issues.

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

BOF provides services and utilities to support operation of the main production facilities – PT, HLW, LAW, and Lab. Overall facility percent complete for BOF is 47 percent, engineering is 72 percent complete, procurement is 47 percent complete, and construction is 62 percent complete.

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

Ongoing construction work includes installation of plant service air (PSA) piping at the LAB, excavation for the PT control building and substation #1, water booster pump for the LAB's chilled water system, cable terminations at the main switchgear building, electrical equipment, conduit supports, and cable at the BOF switchgear building, tying in domestic water piping to west gate 23, backfilling/placing controlled density fill at the anhydrous ammonia storage facility and the water treatment facility, formwork/rebar and excavation at the LAW transformer pad, and installation of formwork/rebar and embeds for the carbon dioxide tank pad. At the glass former storage facility (GFSF) construction continued installation of lighting systems, PSA system piping, transport piping/supports, and scheduled/unscheduled conduit cable tray. Construction completed installation of fire service water (FSW) system valves and coating bolts at the GFSF, and backfilling anchor thrust blocks at GFSF.

Engineering issued above ground raceway plans for the switchgear building, drawings for the plant cooling water (PCW) system, equipment qualification and enclosure data sheets for the ammonia reagent system, issued piping isometric drawings for the PCW system, released lube oil heat exchangers to ship for the PCW system, and drawings for interconnecting pipe spool for pump discharge at the water treatment facility. Engineering issued specifications for radiation monitors (continuous air monitors), liquid effluent gamma monitors, and area radiation monitors.

Procurement awarded a purchase order for the communications equipment system, issued material requisition to award subcontract for the emergency turbine generators (ETG), and issued pre-award engineering services subcontract technical evaluation for the ETGs.

The operations staff participated in the ETG load list timing sequence discussion, walked through a portion of the steam plant to evaluate design and maintainability of the removable insulation pads as well as a condition assessment of the overall steam plant facility. Staff participated in a discussion with respect to operation requirements document need for weather protection of entry and egress doors.

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

- Complete construction of cooling tower.
- Complete construction of BOF switchgear building.
- Install structural steel for anhydrous ammonia facility.
- Receive anhydrous ammonia system.

#### **Issues:**

No major issues.

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

(Dollars - Millions)	Overall Facility Percent Complete Unallocated Dollars			Design/Engineering Unallocated Dollars			Procurement Unallocated Dollars			Construction Unallocated Dollars			Startup & Commissioning Unallocated Dollars		
	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete
Low-Activity Waste	951.8	625.9	66%	229.6	202.4	88%	234.2	198.2	85%	339.8	218.9	64%	148.1	6.4	4%
Analytical Lab	351.2	164.9	47%	55.0	42.8	78%	56.1	41.7	74%	104.9	68.4	65%	135.2	12.0	9%
Balance of Facilities	529.0	249.0	47%	84.3	61.0	72%	80.9	37.8	47%	227.7	140.7	62%	136.1	9.6	7%
High-Level Waste	1,487.9	808.8	54%	342.1	293.1	86%	454.3	311.5	69%	573.7	199.8	35%	117.8	4.4	4%
Pretreatment	2,494.1	1,216.8	49%	697.2	544.5	78%	715.6	326.8	46%	898.8	339.5	38%	182.6	6.0	3%
Shared Services	4,745.6	3,290.9	69%	1,051.5	892.2	85%	467.7	360.9	77%	1,421.4	1,038.1	73%	455.8	115.1	25%
<b>Total WTP w/o UB</b>	<b>10,559.6</b>	<b>6,356.3</b>	<b>60%</b>	<b>2,459.7</b>	<b>2,036.0</b>	<b>83%</b>	<b>2,008.8</b>	<b>1,276.9</b>	<b>64%</b>	<b>3,566.3</b>	<b>2,005.4</b>	<b>56%</b>	<b>1,175.6</b>	<b>153.5</b>	<b>13%</b>
Undistributed Budget	0.0	n/a	n/a	n/a	n/a	n/a									
<b>Total WTP</b>	<b>10,559.6</b>	<b>6,356.3</b>	<b>60%</b>	<b>2,459.7</b>	<b>2,036.0</b>	<b>83%</b>	<b>2,008.8</b>	<b>1,276.9</b>	<b>64%</b>	<b>3,566.3</b>	<b>2,005.4</b>	<b>56%</b>	<b>1,175.6</b>	<b>153.5</b>	<b>13%</b>

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

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

**FINAL**

Office of River Protection  
Consent Decree 08-5085-FVS

Project Summary Report

September 27, 2011

## Office of River Protection

## Consent Decree 08-5085-FVS

## Project Summary Report

September 27, 2011

9:00 a.m. – 11:30 a.m.

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

**Fiscal Year 2011 Consent Decree Milestone Status**

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

**Fiscal Year 2011 Consent Decree Milestone Status**

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

### Fiscal Year 2012 Consent Decree Milestone Status

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

## Reports

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

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

**D-006-00-A1, Provide State of Oregon notice of meetings in D-006-00-A, etc. no less than 30 days before they are scheduled, Due: 9/25/2013, Status: On Schedule**

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

## SST Retrieval and Closure Program

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

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

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

**D-00B-02, Advise Ecology of the 9 SST's from which Waste Will Be Retrieved by 2022, Due: 9/30/2014, Status: On Schedule.**

ORP and Ecology began meeting in December 2010 to discuss the selection of the next nine tanks to be retrieved and why ORP believes those nine tanks should be in A/AX Farms. The last meeting was held on August 24, 2011. At this meeting, Ecology provided ORP with the guidance that Ecology believes the requirements of Project B-2 of the Consent Decree have been met.

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

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

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

### Significant Past Accomplishments:

1. Completed in-tank video and riser inspections of C-101 to support design activities.
2. Completed Construction Acceptance Testing (CAT) of the MARS arm system.
3. Initiated Operations Acceptance Testing (OAT) of the MARS arm system.
4. Continued construction and plant forces activities for C-108 equipment installation for Hard Heel Removal.
5. Completed CAT testing of the POR107 exhauster.
6. Initiated OAT testing of the POR107 exhauster.
7. Continued design and procurement for C-109 Hard Heel Removal equipment.
8. Completed installation of the C-112 slurry pump and one of two sluicers for the retrieval system.
9. Completed phase II testing of the MARS eductor.

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

1. Complete the C-101 design, initiate long lead procurements and initiate legacy equipment removals.

2. Continue with C-102 design development for removal of legacy equipment and installation of Modified Sluicing System.
3. Complete startup of C-107 MARS retrieval.
4. Start up of retrieval activities for C-108 hard heel.
5. Complete hard heel retrieval of C-108.
6. Complete C-112 design, initiate long lead procurements.

**Issues:**

None.

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

**Significant Accomplishments:****Issues:**

- Resolution and approval of TWRWP 2011-2, RPP-22393. Ecology letter 11-NWP-085, dated 8/12/11, disapproved 2011-2, RPP-22393 and provided Review Comment Record for resolution of comments.

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

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

The WTP Project currently employs about 3,500 full-time equivalent (FTE) contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel, including 1,300 craft, 590 non-manual, and about 205 subcontractor personnel FTEs working at the WTP construction site (all facilities). As of July 2011, the project is 60 percent complete, design and engineering is 83 percent complete, procurement is 64 percent complete, construction is 56 percent complete, and Startup and Commissioning is 13 percent complete.

The overall WTP Project schedule variance in July was a positive \$2.2M, the cost variance was a positive \$3.3M. The positive cost variance was due to Plant Equipment and Engineering control accounts and the schedule variances came primarily from Plant Material and Construction control accounts.

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

**Significant Past Accomplishments:**

- Completed the analytical results from the Low Order Accumulation Model validation testing for the non-Newtonian vessel configuration.
- Completed installation of the hot cell monorail airlocks in the Analytical Laboratory.

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

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

**Issues:**

No significant issues at this time.

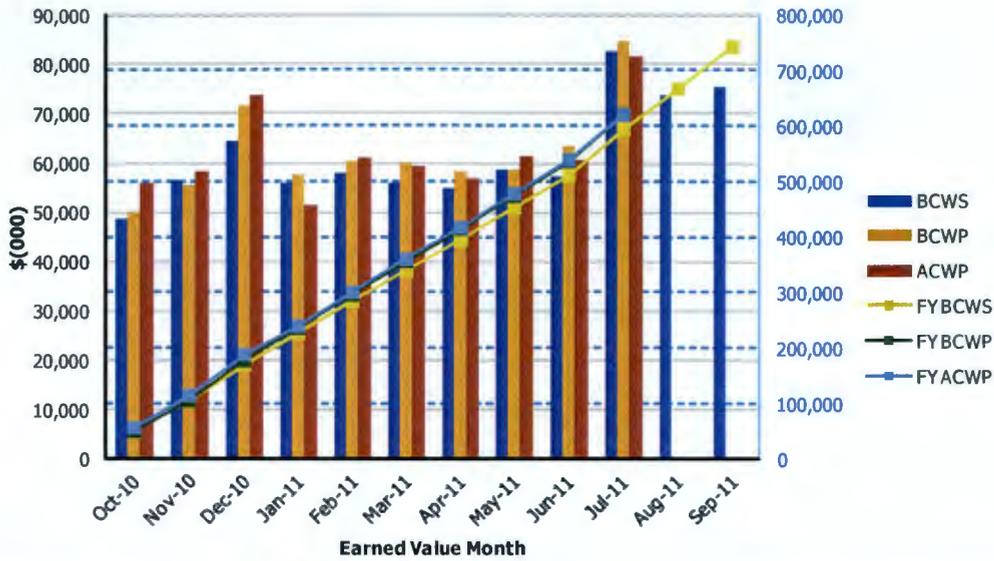
**WTP – Fiscal Year-to-Date Performance.**

Data Set: FY 2011 Earned Value Data

Data as of: July 2011

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

Monthly EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$48,550	\$49,962	\$55,880	1.03	0.89	\$48,550	\$49,962	\$55,880	1.03	0.89
Nov 2010	\$56,608	\$55,427	\$58,449	0.98	0.95	\$105,158	\$105,389	\$114,329	1.00	0.92
Dec 2010	\$64,533	\$71,852	\$73,610	1.11	0.98	\$169,691	\$177,241	\$187,939	1.04	0.94
Jan 2011	\$55,988	\$57,756	\$51,327	1.03	1.13	\$225,679	\$234,997	\$239,266	1.04	0.98
Feb 2011	\$57,941	\$60,462	\$61,199	1.04	0.99	\$283,620	\$295,459	\$300,465	1.04	0.98
Mar 2011	\$56,009	\$60,032	\$59,335	1.07	1.01	\$339,629	\$355,491	\$359,800	1.05	0.99
Apr 2011	\$54,890	\$58,438	\$56,937	1.06	1.03	\$394,519	\$413,929	\$416,737	1.05	0.99
May 2011	\$58,530	\$58,722	\$61,263	1.00	0.96	\$453,049	\$472,651	\$478,000	1.04	0.99
Jun 2011	\$57,334	\$63,340	\$60,603	1.10	1.05	\$510,383	\$535,991	\$538,603	1.05	1.00
Jul 2011	\$82,643	\$84,827	\$81,479	1.03	1.04	\$593,026	\$620,818	\$620,082	1.05	1.00
Aug 2011	\$73,717					\$666,743				
Sep 2011	\$75,503					\$742,246				
PTD	\$6,322,053	\$6,356,366	\$6,378,112	1.01	1.00					

**PRETREATMENT (PT) FACILITY**

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

The PT Facility will separate radioactive tank waste into HLW and LAW fractions and transfer each waste type to the respective vitrification facility for immobilization. Through July 2011, the PT Facility is 49 percent complete overall, engineering is 78 percent complete, procurement is 46 percent complete, and construction is 38 percent complete.

**Significant Past Accomplishments:**

Rebar and embed installation and fabrication of rebar wall curtains continues to support additional slab and wall placements at the 56-ft to 98-ft elevations. Construction completions for August include placement of five 5<sup>th</sup>-lift (77-ft to 98-ft elevation) walls for a total of 423 cubic yards. Set into place the stainless steel decontamination booth and two hot cell shield doors. Ongoing work includes fabrication of piping modules and installation of drain piping, service air piping, cable trays and supports, ductwork, conduit, wall liner plates, sparge tubing in the hot cell, and structural steel at the northwest corner of the facility at the 77-ft elevation.

Engineering continues to implement changes from the technical issue resolutions into piping and instrumentation diagrams and piping isometric drawings. Instrumentation location drawings and piping isometric drawings were issued for the 56-ft elevation.

Evaluations of the Pretreatment Vessel Vent Process/Process Vessel Vent Exhaust System to validate the ability to meet functional requirements during an off-normal condition is ongoing, including the performance testing of High Efficiency Mist Eliminator (HEME) and scrubber. Vendor award for the aerosol testing to determine entrainment factor for the WTP-specific conditions is in progress.

Re-committed design packages were issued for the cesium ion exchange, waste feed evaporator waste feed receipt, the demineralized water and pulse jet ventilation process systems. Approved BNI request for the Justification for Continued Design Procurement and Installation needed to

award HEME procurement. BNI has awarded the LSIT contract for the PJM mixing in 4-ft, 8-ft, and 14-ft vessels.

ASX pneumatic transfer system and vacuum system HEPA filters were released to ship. Submitted to Ecology the IQRPE final report for approval of the permit modifications for Vessels UFP- 62 A/B. Vessel head welding for vessels UFP-27A and 27B are complete. Updated detailed execution plan for the design, procurement, and installation of liner plates, jumper frames and equipment pads have been developed for the hot cell.

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

- Removal of CXP-1 vessel, based on the CXP System design changes
- Fabrication and delivery of initial hot cell equipment frames.
- Development of the Pulse Jet Mixer (PJM) design and control strategy for resolving open issues with mixing and completion of vessel design.
- Perform Large Scale Integrated Testing in 4-ft and 8-ft vessels for resolving mixing issues.
- Award contract for HEME.
- Complete 5<sup>th</sup>-lift wall placements, make eight 98-ft slab placements, four 6<sup>th</sup>-lift wall placements, and make 6 of 8 placements for the Control Building basemat, totaling approximately 5,000 cubic yards of concrete.
- Set hot cell vertical door drive mechanism replacement gearbox and switch.
- Complete verification and validation of quantitative risk analysis for hydrogen in piping and ancillary vessels.
- Install hot cell piping pulse jet ventilation header.
- Make first 98-ft elevation slab concrete pour by end of 2011.
- Complete hazardous operations review for the cesium ion exchange, waste feed evaporator and the HLW lag storage and feed blend process systems.
- Complete 19 mechanical systems re-committed design packages.
- Complete erection of 4<sup>th</sup>-tier structural steel (77-ft to 98-ft elevation).
- Ecology approval of the permit packages is required to proceed with the alteration of the on-site vessels FRP -2A/B/C/D and UFP-62A/B/C in December 2011. These packages are scheduled to begin a public comment period in October 2011.

#### **Issues:**

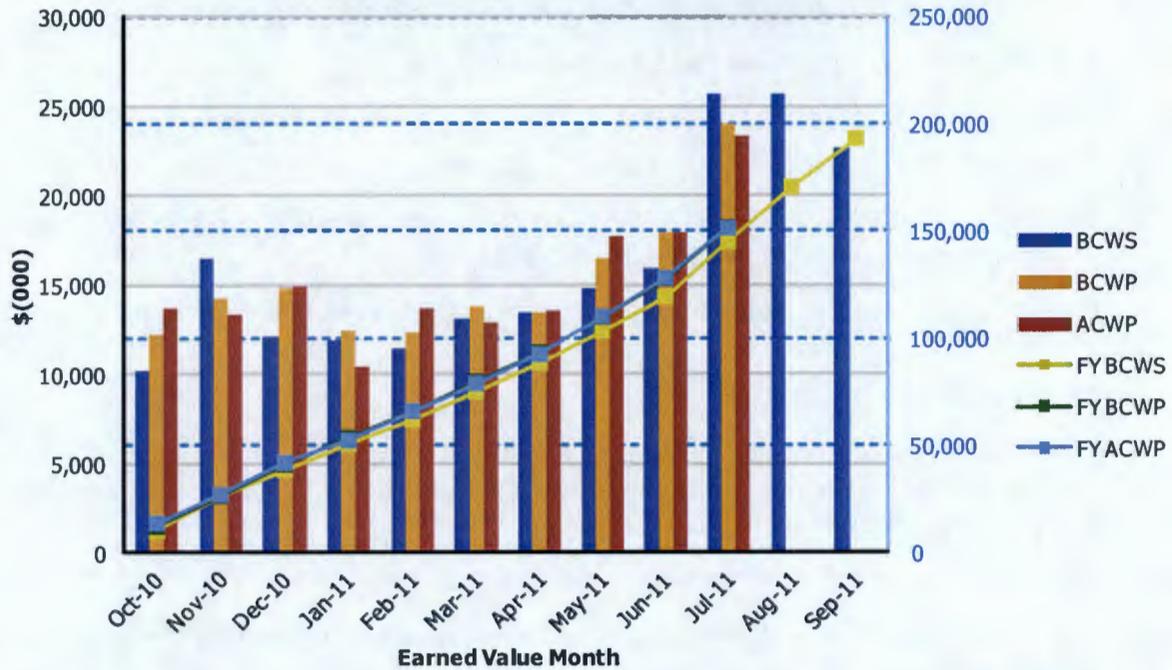
- Vessel Critical Path: Fabrication of vessel HLP-22 continues to be the primary critical path for the PT Facility. The fabrication of the vessel is in progress, but the completion date has slipped from October to December 2012. This is still ahead of the construction need date of February 2013. However, the fabricator is pursuing opportunities to improve the HLP-22 completion date.

Data Set: FY 2011 Earned Value Data

Data as of: July 2011

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

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



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$10,196	\$12,179	\$13,730	1.19	0.89	\$10,196	\$12,179	\$13,730	1.19	0.89
Nov 2010	\$16,462	\$14,257	\$13,360	0.87	1.07	\$26,658	\$26,436	\$27,090	0.99	0.98
Dec 2010	\$12,060	\$14,788	\$14,869	1.23	0.99	\$38,718	\$41,224	\$41,959	1.06	0.98
Jan 2011	\$11,902	\$12,449	\$10,403	1.05	1.20	\$50,620	\$53,673	\$52,362	1.06	1.03
Feb 2011	\$11,428	\$12,373	\$13,692	1.08	0.90	\$62,048	\$66,046	\$66,054	1.06	1.00
Mar 2011	\$13,145	\$13,809	\$12,923	1.05	1.07	\$75,193	\$79,855	\$78,977	1.06	1.01
Apr 2011	\$13,444	\$13,497	\$13,533	1.00	1.00	\$88,637	\$93,352	\$92,510	1.05	1.01
May 2011	\$14,789	\$16,506	\$17,668	1.12	0.93	\$103,426	\$109,858	\$110,178	1.06	1.00
Jun 2011	\$15,909	\$17,928	\$17,968	1.13	1.00	\$119,335	\$127,786	\$128,146	1.07	1.00
Jul 2011	\$25,653	\$23,993	\$23,391	0.94	1.03	\$144,988	\$151,779	\$151,537	1.05	1.00
Aug 2011	\$25,646					\$170,634				
Sep 2011	\$22,683					\$193,317				

PTD	\$1,201,180	\$1,216,818	\$1,185,017	1.01	1.03
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**HIGH-LEVEL WASTE (HLW) FACILITY**

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

The HLW Facility will receive the separated HLW from the PT Facility. The concentrate is blended with glass formers and converted into molten glass in one of the two HLW melters and then poured into cylindrical stainless steel canisters. After cooling, the canisters are sealed and decontaminated prior to shipment to interim storage. The HLW Facility is 55 percent complete overall, with engineering design 85 percent complete, procurement 69 percent complete, and construction 36 percent complete.

**Significant Past Accomplishments:**

The build-out of the Filter Cave is critical path for HLW. The first of five C5V filter housing was set in place on August 31; the remaining four were set in place as of September 12, allowing for the following placement of dampers in pairs. This sequencing allows for slight adjustments to optimize the alignment of the housings, dampers, and headers and to maintain the spacing requirements between housings before welding the assemblies and finalizing the installations. The first set of remote-operated dampers was received in August and damper deliveries continue in lots of two each week. The schedule for equipment installations and deliveries is being maintained and support a completion of the Filter Cave build-out in May 2012.

Five concrete placements (for a sum of 607 cubic yards) were completed in August, and with the placement of walls 2146 and 2147 on September 8, all of the 14-ft to 37-ft elevation walls have been placed with the exception of two exterior walls along the Canister Export Bay. For the HLW Annex, the parapet walls have been completed and the subcontractor is continuing the installation of siding and roofing. Electrical and piping commodities are progressing throughout the 21-ft elevation, including cooling water, cable trays and supports, and fire protection piping. Vendors are also continuing with special coatings, HVAC, and liner plate installations.

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

- Complete fabrication and delivery of C5V dampers.
- Complete siding of HLW Annex.
- C5V housing and remote-operated damper installations.
- Receive major components of Melters 1 and 2.

- Receive RLD-VSL-8.

**Issues:**

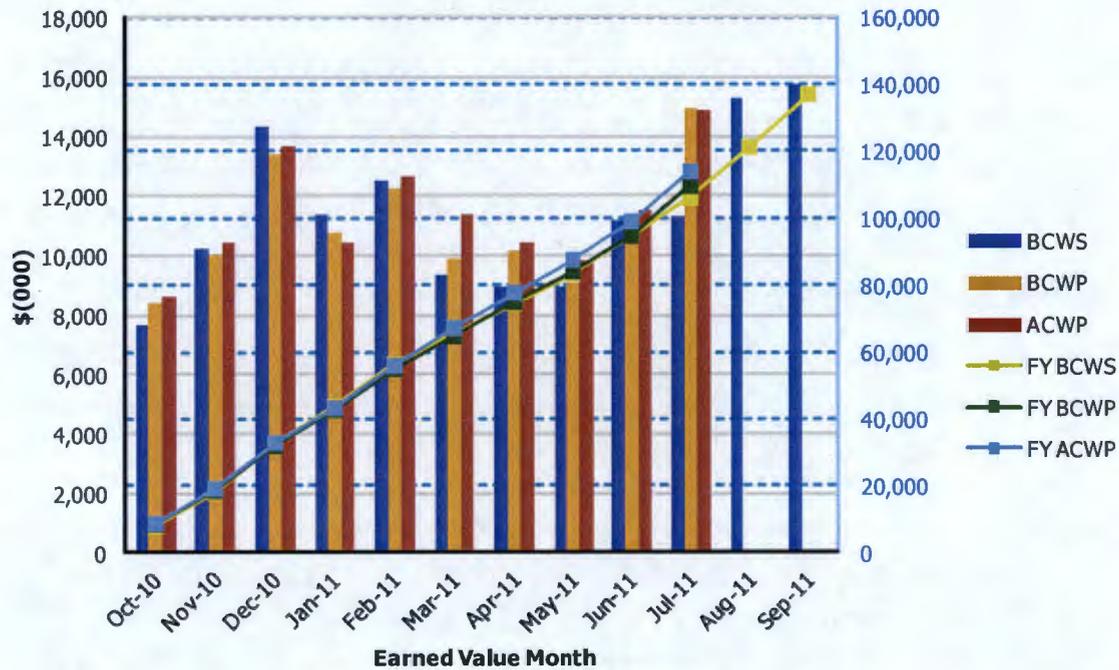
No significant issues at this time.

Data Set: FY 2011 Earned Value Data

Data as of: July 2011

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

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



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$7,653	\$8,413	\$8,615	1.10	0.98	\$7,653	\$8,413	\$8,615	1.10	0.98
Nov 2010	\$10,239	\$10,032	\$10,434	0.98	0.96	\$17,892	\$18,445	\$19,049	1.03	0.97
Dec 2010	\$14,364	\$13,384	\$13,697	0.93	0.98	\$32,256	\$31,829	\$32,746	0.99	0.97
Jan 2011	\$11,360	\$10,767	\$10,461	0.95	1.03	\$43,616	\$42,596	\$43,207	0.98	0.99
Feb 2011	\$12,550	\$12,224	\$12,651	0.97	0.97	\$56,166	\$54,820	\$55,858	0.98	0.98
Mar 2011	\$9,376	\$9,860	\$11,369	1.05	0.87	\$65,542	\$64,680	\$67,227	0.99	0.96
Apr 2011	\$8,930	\$10,154	\$10,445	1.14	0.97	\$74,472	\$74,834	\$77,672	1.00	0.96
May 2011	\$8,919	\$9,075	\$9,806	1.02	0.93	\$83,391	\$83,909	\$87,478	1.01	0.96
Jun 2011	\$11,189	\$10,734	\$11,504	0.96	0.93	\$94,580	\$94,643	\$98,982	1.00	0.96
Jul 2011	\$11,311	\$14,941	\$14,846	1.32	1.01	\$105,891	\$109,584	\$113,828	1.03	0.96
Aug 2011	\$15,296					\$121,187				
Sep 2011	\$15,743					\$136,930				
PTD	\$800,519	\$808,808	\$802,955	1.01	1.01					

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

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

The LAW Facility will vitrify LAW from the PT Facility. Waste will be mixed with glass formers, vitrified into glass at a design capacity of 30 metric tons per day, and placed in stainless steel containers that will be disposed on the Hanford Site in the Integrated Disposal Facility. The LAW Facility is 66 percent complete, engineering is 88 percent complete, procurement is 85 percent complete, and construction is 64 percent complete.

**Significant Past Accomplishments:**

The LAW secondary off-gas treatment system component procurement activities continued. Vendor activities are progressing for all off-gas system components. The first of these secondary off-gas treatment system components to be delivered will be the carbon bed adsorber (CBA) in November 2011. The Annex Architectural Specialties subcontract was awarded. Other procurement activities included issuance of a material requisition for quotes on high-efficiency particulate air (HEPA) pre-heaters, a material acceptance plan for melter/component fabrication, and a release to ship a HEPA filter for the pneumatic transfer vacuum system.

BNI Design issued piping and instrumentation diagrams for the C2V and C3V systems for refrigerant lines serving safety air-conditioning units for the off-gas fan and battery rooms. An instrument rack general arrangement data sheet was issued for the LAW concentrate receipt process system. Several instrument data sheets were issued for the LAW primary off-gas process system. Piping isometric drawings were issued for the chilled water, plant cooling water, carbon dioxide gas, LAW primary off-gas process, and LAW melter process systems. Several equipment qualification and enclosure component data sheets were issued for the programmable protection system. Connection diagram data sheets were issued for the autosampling, LAW concentrate receipt process, programmable protection, and LAW secondary off-gas/vessel vent process systems. Initial Component Information System (CIS) equipment and component lists were issued for the plant service air and demineralized water systems. Updated CIS lists for equipment, in-line components, valves, and pipelines were issued for the carbon dioxide gas system.

BNI initiated installation of the container inert fill hoppers for the container finishing handling system. Installation was completed for two moisture eliminators and HEPA filters for the C5V ventilation system, a mud mat for the east transformer foundation, hopper chutes for the glass

former reagent system, as well as the lidding equipment in the south line for the container finishing handling system. Construction continued with installation of the fire alarm system, low-voltage electrical equipment, medium voltage electrical equipment, air-handling units, fan coil units, and humidifiers for the C2V ventilation system, liner in the pour caves, cranes for the LAW melter equipment support handling system, and container receipt handling and finishing line hoists, hatches, and lidding equipment. Other normal activities continued, including installation of piping for the medium-voltage electrical, glass former reagent, and plant cooling water systems within the LAW, as well as installation of pipe and pipe hangers, sprinklers, electrical grounding, conduit and wiring, tubing for instrumentation, instrument enclosures, lighting fixtures, partition walls, and coatings.

Integrated Control Network development continued with software design and testing for the following systems: LAW melter feed process system, container receipt handling system, LAW melter equipment support handling system, primary off-gas process system, secondary off-gas/vessel vent process system, ASX system, and radioactive liquid waste disposal system.

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

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

**Issues:**

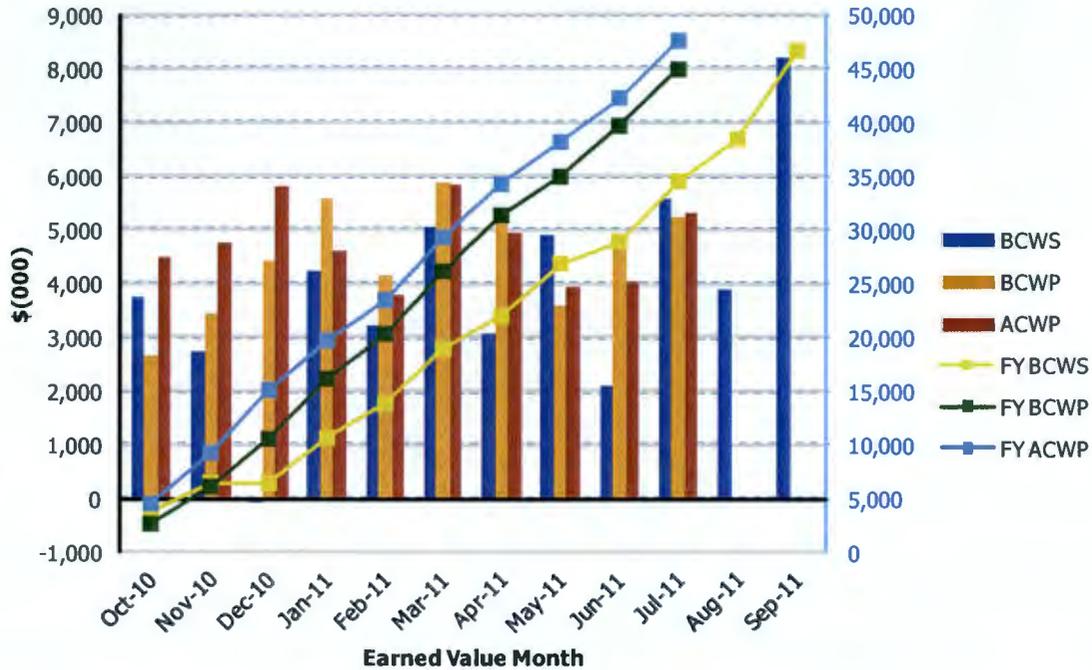
No major issues at this time.

Data Set: FY 2011 Earned Value Data

Data as of: July 2011

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

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



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$3,743	\$2,654	\$4,511	0.71	0.59	\$3,743	\$2,654	\$4,511	0.71	0.59
Nov 2010	\$2,732	\$3,462	\$4,752	1.27	0.73	\$6,475	\$6,116	\$9,263	0.94	0.66
Dec 2010	(\$84)	\$4,424	\$5,823	-52.67	0.76	\$6,391	\$10,540	\$15,086	1.65	0.70
Jan 2011	\$4,232	\$5,597	\$4,606	1.32	1.22	\$10,623	\$16,137	\$19,692	1.52	0.82
Feb 2011	\$3,222	\$4,153	\$3,778	1.29	1.10	\$13,845	\$20,290	\$23,470	1.47	0.86
Mar 2011	\$5,054	\$5,862	\$5,857	1.16	1.00	\$18,899	\$26,152	\$29,327	1.38	0.89
Apr 2011	\$3,062	\$5,210	\$4,930	1.70	1.06	\$21,961	\$31,362	\$34,257	1.43	0.92
May 2011	\$4,895	\$3,600	\$3,919	0.74	0.92	\$26,856	\$34,962	\$38,176	1.30	0.92
Jun 2011	\$2,089	\$4,713	\$4,057	2.26	1.16	\$28,945	\$39,675	\$42,233	1.37	0.94
Jul 2011	\$5,595	\$5,237	\$5,315	0.94	0.99	\$34,540	\$44,912	\$47,548	1.30	0.94
Aug 2011	\$3,895					\$38,435				
Sep 2011	\$8,214					\$46,649				
<b>PTD</b>	<b>\$623,144</b>	<b>\$625,850</b>	<b>\$670,644</b>	<b>1.00</b>	<b>0.93</b>					

**ANALYTICAL LABORATORY**

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

The Lab will support WTP operations by analyzing feed, vitrified waste, and effluent streams. The lab is 47 percent complete, engineering is 78 percent complete, procurement is 74 percent complete, and construction is 65 percent complete.

**Significant Past Accomplishments:**

Ongoing construction work includes installation of HEPA filters and tubing on top of the hot cells, piping, formwork, rebar, and embeds in C5 fan room for fireproofing slab, drop piping for the low pressure steam, steam condensate water, and chilled water system, domestic water piping, lower piping in C2V/C3V pit, bulk piping/hangers, electrical equipment, ballast enclosures, and scheduled/unscheduled conduit and raceway in the exterior hot cell, bulk piping/hangers in the radiological lab. Installation continues on the trolley covers/motor assemblies and north gamma probes in interior hot cell. Construction completed installation of structural steel in C5 fan room for fireproofing slab, electrical equipment in the maintenance/glovebox room, and installation of the hot cell monorail airlocks.

Engineering issued laboratory in-cell handling system software acceptance test, configuration data indices for low pressure steam, instrument data sheets for C2V, C3V, and C5V differential pressure transmitters, and instrument data sheets for environmental monitoring system ambient radiation detectors. Piping isometric drawings were issued for low-pressure steam and high-pressure steam.

The following were issued for the radioactive liquid waste disposal system: control logic and functional diagrams to support software testing, configuration data indices, data sheets for field bus pressure transmitters, data sheets for fieldbus temperature transmitters/switches, data sheets for resistance temperature detection elements, system block diagrams, and piping isometric drawings.

The following were issued for the ASX system: configuration data indices, sequential functional charts, control logic diagrams, system block diagrams, functional instrumentation diagrams, setroute layout, programmable protection system equipment qualification and enclosure data sheets, component identification system in-line/equipment lists, and piping isometric drawings.

The following were issued for the low voltage electrical system and the uninterruptable power electrical: 208-volt/120-volt distribution panel block diagrams and panel schedule, and termination/cable schedules. Drawings were issued for leak collections pans to support the architectural specialties subcontract work.

Procurement received three tons of structural steel, issued material requisitions for radiological monitoring instruments, specialty valves, process regulators, thermocouples/resistance

temperature detectors, important to safety programmable protection system components, breakers for load centers, and radar/radio frequency level instruments.

The operations staff performed a walkthrough of the Lab to follow the progress of the installation of the ASX sampling units and accessories. An agreement was made with Engineering with respect to operation of C3/C5 pumps to remove liquid from their respective tank sumps. The team is working on an evaluation to determine if all facilities require multiple weather protected loading bays/docks, and any required modifications that need to be made from the evaluation. The team completed the draft spreadsheet on waste feed acceptance criteria (WAC) data quality objectives (DQO) analytes. This spreadsheet listed the 258 WAC analytes along with sample size and analytical methods, and grouped the analytes into action limits, elemental, radiochemical, and organic categories. Additionally, baseline analytical methods for waste pre-qualification are being established. Identification of existing methods for analyses required by the WAC DQO document is complete. Gaps between analytical requirements and existing methods are being reviewed for methods development needs.

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

- Install waste drum bogie transfer port.
- Install Autosampler HEPA filter housings frames.
- Complete installation of Autosampler System.
- Install hot cell monorail recovery hoists.
- Install fireproofing slab in C5 fan room.

**Issues:**

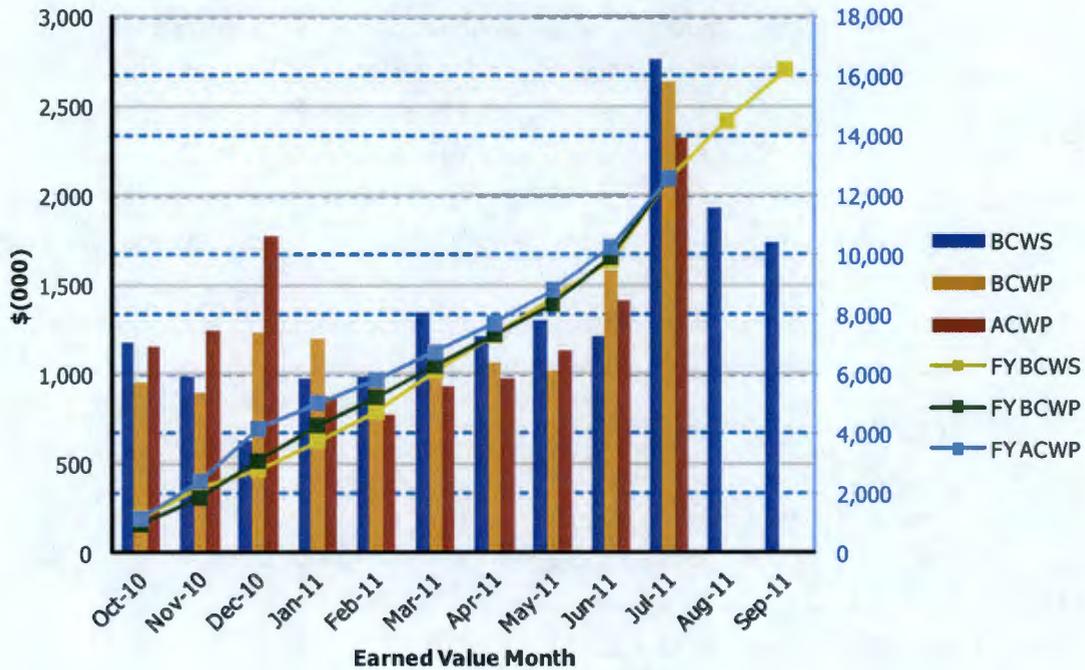
No major issues.

Data Set: FY 2011 Earned Value Data

Data as of: July 2011

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

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



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$1,180	\$954	\$1,152	0.81	0.83	\$1,180	\$954	\$1,152	0.81	0.83
Nov 2010	\$984	\$893	\$1,245	0.91	0.72	\$2,164	\$1,847	\$2,397	0.85	0.77
Dec 2010	\$621	\$1,236	\$1,768	1.99	0.70	\$2,785	\$3,083	\$4,165	1.11	0.74
Jan 2011	\$971	\$1,198	\$869	1.23	1.38	\$3,756	\$4,281	\$5,034	1.14	0.85
Feb 2011	\$982	\$949	\$770	0.97	1.23	\$4,738	\$5,230	\$5,804	1.10	0.90
Mar 2011	\$1,350	\$1,039	\$924	0.77	1.12	\$6,088	\$6,269	\$6,728	1.03	0.93
Apr 2011	\$1,210	\$1,059	\$974	0.88	1.09	\$7,298	\$7,328	\$7,702	1.00	0.95
May 2011	\$1,299	\$1,018	\$1,133	0.78	0.90	\$8,597	\$8,346	\$8,835	0.97	0.94
Jun 2011	\$1,213	\$1,579	\$1,413	1.30	1.12	\$9,810	\$9,925	\$10,248	1.01	0.97
Jul 2011	\$2,755	\$2,634	\$2,325	0.96	1.13	\$12,565	\$12,559	\$12,573	1.00	1.00
Aug 2011	\$1,925					\$14,490				
Sep 2011	\$1,735					\$16,225				
PTD	\$165,842	\$164,945	\$177,251	0.99	0.93					

**BALANCE OF FACILITIES (BOF)**

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

BOF provides services and utilities to support operation of the main production facilities – PT, HLW, LAW, and Lab. Overall facility percent complete for BOF is 47 percent, engineering is 72 percent complete, procurement is 47 percent complete, and construction is 62 percent complete.

**Significant Past Accomplishments:**

Ongoing construction work includes installation of plant service air (PSA) piping at the LAB, excavation for the PT control building and substation #1, water booster pump for the LAB's chilled water system, cable terminations at the main switchgear building, electrical equipment, conduit supports, and cable at the BOF switchgear building, tying in domestic water piping to west gate 23, backfilling/placing controlled density fill at the anhydrous ammonia storage facility and the water treatment facility, formwork/rebar and excavation at the LAW transformer pad, and installation of formwork/rebar and embeds for the carbon dioxide tank pad. At the glass former storage facility (GFSF) construction continued installation of lighting systems, PSA system piping, transport piping/supports, and scheduled/unscheduled conduit cable tray. Construction completed installation of fire service water (FSW) system valves and coating bolts at the GFSF, and backfilling anchor thrust blocks at GFSF.

Engineering issued above ground raceway plans for the switchgear building, drawings for the plant cooling water (PCW) system, equipment qualification and enclosure data sheets for the ammonia reagent system, issued piping isometric drawings for the PCW system, released lube oil heat exchangers to ship for the PCW system, and drawings for interconnecting pipe spool for pump discharge at the water treatment facility. Engineering issued specifications for radiation monitors (continuous air monitors), liquid effluent gamma monitors, and area radiation monitors. Procurement awarded a purchase order for the communications equipment system, issued material requisition to award subcontract for the emergency turbine generators (ETG), and issued pre-award engineering services subcontract technical evaluation for the ETGs.

The operations staff participated in the ETG load list timing sequence discussion, walked through a portion of the steam plant to evaluate design and maintainability of the removable insulation pads as well as a condition assessment of the overall steam plant facility. Staff participated in a discussion with respect to operation requirements document need for weather protection of entry and egress doors.

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

- Complete construction of cooling tower.
- Complete construction of BOF switchgear building.

- Install structural steel for anhydrous ammonia facility.
- Receive anhydrous ammonia system.

**Issues:**

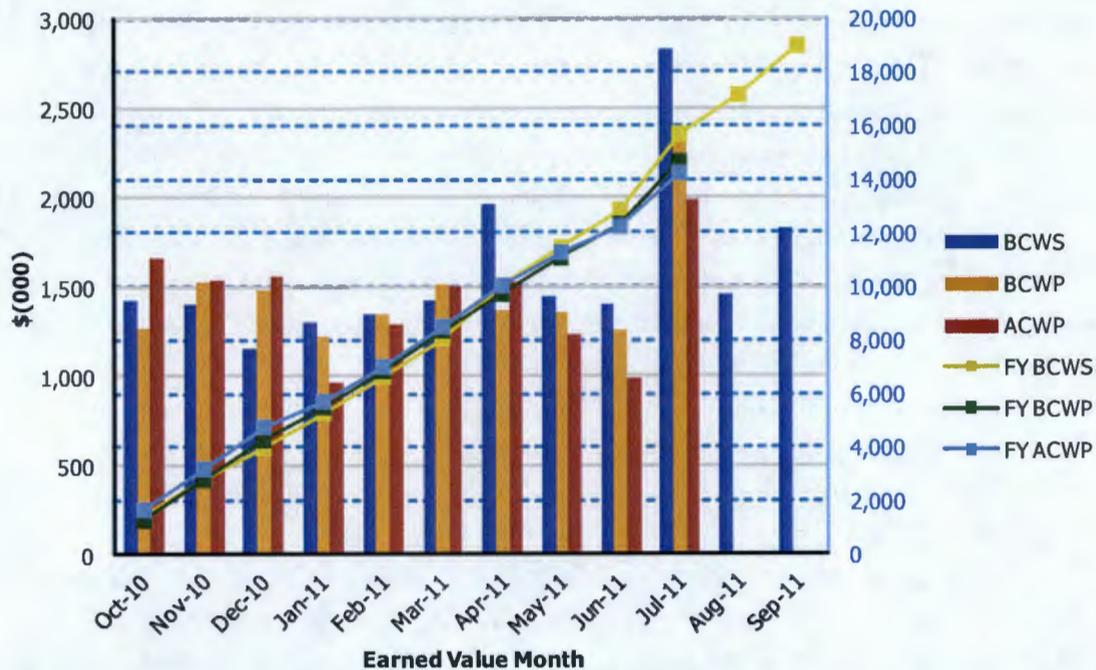
No major issues.

Data Set: FY 2011 Earned Value Data

Data as of: July 2011

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

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



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$1,428	\$1,272	\$1,660	0.89	0.77	\$1,428	\$1,272	\$1,660	0.89	0.77
Nov 2010	\$1,398	\$1,520	\$1,539	1.09	0.99	\$2,826	\$2,792	\$3,199	0.99	0.87
Dec 2010	\$1,150	\$1,475	\$1,558	1.28	0.95	\$3,976	\$4,267	\$4,757	1.07	0.90
Jan 2011	\$1,302	\$1,224	\$960	0.94	1.28	\$5,278	\$5,491	\$5,717	1.04	0.96
Feb 2011	\$1,347	\$1,346	\$1,288	1.00	1.05	\$6,625	\$6,837	\$7,005	1.03	0.98
Mar 2011	\$1,429	\$1,518	\$1,505	1.06	1.01	\$8,054	\$8,355	\$8,510	1.04	0.98
Apr 2011	\$1,962	\$1,363	\$1,524	0.69	0.89	\$10,016	\$9,718	\$10,034	0.97	0.97
May 2011	\$1,442	\$1,352	\$1,237	0.94	1.09	\$11,458	\$11,070	\$11,271	0.97	0.98
Jun 2011	\$1,400	\$1,253	\$980	0.90	1.28	\$12,858	\$12,323	\$12,251	0.96	1.01
Jul 2011	\$2,824	\$2,347	\$1,984	0.83	1.18	\$15,682	\$14,670	\$14,235	0.94	1.03
Aug 2011	\$1,462					\$17,144				
Sep 2011	\$1,830					\$18,974				

PTD	\$250,950	\$249,036	\$246,150	0.99	1.01
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Waste Treatment Plant Project - Percent Complete Status Through July 2011															
(Dollars - Millions)	Overall Facility Percent Complete Unallocated Dollars			Design/Engineering Unallocated Dollars			Procurement Unallocated Dollars			Construction Unallocated Dollars			Startup & Commissioning Unallocated Dollars		
	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete
Facilities															
Low-Activity Waste	951.8	625.9	66%	229.6	202.4	88%	234.2	198.2	85%	339.8	218.9	64%	148.1	6.4	4%
Analytical Lab	351.2	164.9	47%	55.0	42.8	78%	56.1	41.7	74%	104.9	68.4	65%	135.2	12.0	9%
Balance of Facilities	529.0	249.0	47%	84.3	61.0	72%	80.9	37.8	47%	227.7	140.7	62%	136.1	9.6	7%
High-Level Waste	1,487.9	808.8	54%	342.1	293.1	86%	454.3	311.5	69%	573.7	199.8	35%	117.8	4.4	4%
Pretreatment	2,494.1	1,216.8	49%	697.2	544.5	78%	715.6	326.8	46%	898.8	339.5	38%	182.6	6.0	3%
Shared Services	4,745.6	3,290.9	69%	1,051.5	892.2	85%	467.7	360.9	77%	1,421.4	1,038.1	73%	455.8	115.1	25%
<b>Total WTP w/o UB</b>	<b>10,559.6</b>	<b>6,356.3</b>	<b>60%</b>	<b>2,459.7</b>	<b>2,036.0</b>	<b>83%</b>	<b>2,008.8</b>	<b>1,276.9</b>	<b>64%</b>	<b>3,566.3</b>	<b>2,005.4</b>	<b>56%</b>	<b>1,175.6</b>	<b>153.5</b>	<b>13%</b>
Undistributed Budget	0.0	n/a	n/a	n/a	n/a	n/a									
<b>Total WTP</b>	<b>10,559.6</b>	<b>6,356.3</b>	<b>60%</b>	<b>2,459.7</b>	<b>2,036.0</b>	<b>83%</b>	<b>2,008.8</b>	<b>1,276.9</b>	<b>64%</b>	<b>3,566.3</b>	<b>2,005.4</b>	<b>56%</b>	<b>1,175.6</b>	<b>153.5</b>	<b>13%</b>

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

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

**WORKING ORP Key Documents List  
For September 27, 2011**

Milestone Title	Milestone Number	Document	TPA Milestone Due Date (if applicable) <sup>1</sup>	ORP Delivery to Regulators Date <sup>2</sup>	Anticipated Regulatory Review Completion Date <sup>3</sup>	Final Completion Date <sup>4</sup>	DOE-ORP Lead	Contractor Lead	Ecology Lead	Comments/Issues	
Submit to Ecology for Review and Approval as an Agreement Primary Document, a Phase 2 RCRA Facility Investigation/Corrective Measure Study Report for WMA C	<b>Supports M-045-61</b>	<b>WMA C PA Ecological Risk Assessment Data Package, RPP-RPT-49425, Rev 0</b>		04/19/11			B. Lober	K. Smith	J. Lyon	<ul style="list-style-type: none"> <li>Feeds input for M-045-61 and all Closure Plans</li> <li>Document was posted on the working group website with email notification on 04/19/11</li> </ul>	
	<b>Supports M-045-61</b>	<b>WMA C Characterization Summary 2011</b>		TBD			B. Lober	K. Smith	J. Lyon	<ul style="list-style-type: none"> <li>Feeds input for M-045-61 and all Closure Plans</li> <li>ORP met with ECY on 09/22/11 to provide status and setup meeting to discuss path forward.</li> </ul>	
	Supports M-045-61	WMA C PA Initial Model Run Data Package		05/31/12			C. Kemp	K. Smith	J. Lyon	<ul style="list-style-type: none"> <li>Feeds input for M-045-61 and all Closure Plans</li> </ul>	
	Supports M-045-61	WMA C PA Initial Document		08/31/12			C. Kemp	K. Smith	J. Lyon	<ul style="list-style-type: none"> <li>Feeds input for M-045-61 and all Closure Plans</li> </ul>	
	Supports M-045-61	WMA C Characterization Summary 2012		09/30/12			B. Lober	K. Smith	J. Lyon	<ul style="list-style-type: none"> <li>Feeds input for M-045-61 and all Closure Plans</li> </ul>	
	Supports M-045-61	WMA C Characterization Summary 2013		09/30/13			B. Lober	K. Smith	J. Lyon	<ul style="list-style-type: none"> <li>Feeds input for M-045-61 and all Closure Plans</li> </ul>	
	M-045-61	Phase 2 RCRA Facility Investigation/Corrective Measures Study Report for WMA C		12/31/14	12/31/14			B. Lober	K. Smith	J. Lyon	
Submit to Ecology for Review and Approval as an Agreement Primary Document, a Phase 2 Corrective Measures Implementation Work Plan for WMA C.	M-045-62	Phase 2 Corrective Measures Implementation Work Plan for WMA C		06/30/15	06/30/15			B. Lober	K. Smith	J. Lyon	
Complete portions of the C-200 Closure Demonstration Plan necessary to complete closure plan development for the SST system.	<b>M-045-80</b>	<b>Description of Radioactive Waste Determination Process</b>		01/31/11	12/28/10	06/30/11		C. Kemp	K. Smith	J. Lyon	<ul style="list-style-type: none"> <li>Initial ORP letter, 10-TPD-166 sent to ECY on 12/28/10</li> <li>ECY review extension to 04/18/11 received by ORP on 02/11/11.</li> <li>ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11.</li> <li>2<sup>nd</sup> ECY review extension letter 11-NWP-028 received by ORP on 04/20/11.</li> <li>3<sup>rd</sup> ECY review extension letter 11-NWP-049 received by ORP on 06/02/11.</li> </ul>
	<b>M-045-80 (S)<sup>5</sup></b>	<b>RCRA/CERCLA Integration White Paper</b>		01/31/11	12/28/10	05/27/11		C. Kemp	K. Smith	J. Lyon	<ul style="list-style-type: none"> <li>Initial ORP letter, 10-TPD-166 sent to ECY on 12/28/10</li> <li>ECY review extension to 04/18/11 received by ORP on 02/11/11</li> <li>ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11</li> <li>2<sup>nd</sup> ECY review extension letter 11-NWP-028 received by ORP on 04/20/11.</li> <li>ECY review comment record (RCR) letter 11-NWP-051 received by ORP on 06/02/11.</li> <li>ORP sent comment response extension letter 11-TF-067 on 06/16/11 to ECY to extend final response date to 09/25/11.</li> </ul>

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

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

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

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

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

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For September 27, 2011**

Milestone Title	Milestone Number	Document	TPA Milestone Due Date (if applicable) <sup>1</sup>	ORP Delivery to Regulators Date <sup>2</sup>	Anticipated Regulatory Review Completion Date <sup>3</sup>	Final Completion Date <sup>4</sup>	DOE-ORP Lead	Contractor Lead	Ecology Lead	Comments/Issues
Complete portions of the C-200 Closure Demonstration Plan necessary to complete closure plan development for the SST system (continued).	M-045-80 (S)	Tank Removal Engineering Study	01/31/11	12/28/10	05/30/11		C. Kemp	K. Smith	J. Lyon	<ul style="list-style-type: none"> <li>Initial ORP letter, 10-TPD-166 sent to ECY on 12/28/10</li> <li>ECY letter for review extension to 04/18/11 received by ORP 01/13/2011</li> <li>ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11</li> <li>2<sup>nd</sup> ECY review extension letter 11-NWP-028 received by ORP on 04/20/11.</li> <li>ECY RCR letter 11-NWP-047 received by ORP on 05/31/11.</li> <li>ORP sent comment response extension letter 11-TF-067 on 06/16/11 to ECY to extend final response date to 09/25/11.</li> </ul>
	M-045-80 (S)	Evaluation of Alternatives for Removal of Waste from the C-301 Catch Tank	01/31/11	12/28/10	05/30/11		C. Kemp	K. Smith	J. Lyon	<ul style="list-style-type: none"> <li>Initial ORP letter, 10-TPD-166 sent to ECY on 12/28/10</li> <li>ECY review extension to 04/18/11 received by ORP on 02/11/11</li> <li>ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11</li> <li>2<sup>nd</sup> ECY review extension letter 11-NWP-028 received by ORP on 04/20/11.</li> <li>ECY comments letter 11-NWP-045 received by ORP on 05/27/11.</li> <li>ORP sent comment response extension letter 11-TF-067 on 06/16/11 to ECY to extend final response date to 09/25/11.</li> </ul>
Implement and Complete All Remaining Activities in the June 6, 2007 C-200 Closure Demonstration Plan (with any revisions as agreed to by Ecology and DOE).	Supports M-045-81 (S)	Pipeline Feasibility Study, RPP-RPT-45723		12/28/10	06/01/11		C. Kemp	K. Smith	J. Lyon	<ul style="list-style-type: none"> <li>Feeds input to M-045-81.</li> <li>Initial ORP letter 10-TPD-166 sent to ECY on 12/28/10</li> <li>ECY review extension to 04/18/11 received by ORP on 02/11/11</li> <li>ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11</li> <li>2<sup>nd</sup> ECY review extension letter 11-NWP-028 received by ORP on 04/20/11.</li> <li>ECY RCR letter 11-NWP-052 received by ORP on 06/03/11.</li> <li>ORP sent comment response extension letter 11-TF-067 on 06/16/11 to ECY to extend final response date to 09/25/11.</li> </ul>
	Supports M-045-81	Update C Closure Demonstration Plan		TBD			C. Kemp	K. Smith	J. Lyon	<ul style="list-style-type: none"> <li>Feeds input to M-045-81</li> <li>Awaiting language decision for LDR.</li> </ul>
	M-045-81	Other Closure Demonstration Deliverables	09/30/14				C. Kemp	K. Smith	J. Lyon	
M-45-91 Interim Milestones and Target Dates for SSTs Implementing the Expert Panel's Recommendations (created via TPA Change Request CR M-45-10-01, approved on 01/03/2011)	M-045-91C	Implement DQO Process, Test Plan to Evaluate the Chemistries	09/30/11	09/30/11		09/15/11	J. Johnson	R. Gregory	J. Lyon	<ul style="list-style-type: none"> <li>DQO meeting held 4/27/11. Finalizing DQO report with ECY comment incorporation. Draft Test plan provided to ECY for informal review and comment on 7/12/11.</li> <li>Provided to ECY via DOE Letter 11-TPD-057 on 09/15/11.</li> </ul>
	M-045-91G-T01	Provide AOR Final Doc. for SSTS on 530,000 Gallon Tanks	09/30/11	09/30/11		09/15/11	J. Johnson	R. Gregory	J. Lyon	<ul style="list-style-type: none"> <li>Provided to ECY via DOE Letter 11-TPD-064 on 09/15/11.</li> </ul>
	M-045-91B	DOE Submit a Sampling and Analysis Plan to Ecology	12/30/11	12/30/11		09/20/11	J. Johnson	R. Gregory	J. Lyon	<ul style="list-style-type: none"> <li>SAP has been provided to ECY for informal review.</li> <li>Provided to ECY via DOE Letter 11-TPD-069 on 09/20/11.</li> </ul>
	M-045-91F-T01	Provide Report of the Liquid Leak Rate Assessments	01/31/12	01/31/12			J. Johnson	R. Gregory	J. Lyon	<ul style="list-style-type: none"> <li>On-going bi-weekly meetings.</li> </ul>
	M-045-91F-T02	Provide Report of Liner Failures for SSTs	07/31/13	07/31/13			J. Johnson	R. Gregory	J. Lyon	<ul style="list-style-type: none"> <li>On-going bi-weekly meetings.</li> </ul>
	M-045-91G-T02	Provide AOR Final Doc. for SSTS on 750,000 Gallon Tanks	01/31/12	01/31/12			J. Johnson	R. Gregory	J. Lyon	<ul style="list-style-type: none"> <li>Currently on schedule for submittal to ECY in November, 2011.</li> </ul>

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For September 27, 2011**

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M-45-91 Interim Milestones and Target Dates (continued)	M-045-91G-T06	Provide Report of the Visual Inspection of 12 SSTs M-045-91G-T05	03/31/12	03/31/12			J. Johnson	R. Gregory	J. Lyon	
	M-045-91G-T03	Provide AOR Final Doc. for SSTS on 1,000,000 Gallon Tanks	09/31/12	09/31/12			J. Johnson	R. Gregory	J. Lyon	• Currently on schedule for submittal to ECY in February, 2012.
	M-045-91D-T01	Provide Report on the Concrete Dome Samples from Tank C-107 Plug	05/31/13	05/31/13			J. Johnson	R. Gregory	J. Lyon	
	M-045-91F-T03	Provide Report on Testing for Ionic Conductivity of SSTs	05/31/13	05/31/13			J. Johnson	R. Gregory	J. Lyon	• Currently on schedule for submittal to ECY in September, 2011.
	M-045-91F-T04	Provide Report on 100-Series SSTs as having Leaked in RPP-32681	07/31/13	07/31/13			J. Johnson	R. Gregory	J. Lyon	• Ongoing meetings every other week through 2012.
	M-045-91E	Provide SST Farms Dome Deflection Surveys Every Two Years	09/30/13	09/30/13			J. Johnson	R. Gregory	J. Lyon	
	M-045-91G-T04	Provide AOR Final Doc. for SSTS on 55,000 Gallon Tanks	10/31/13	10/31/13			J. Johnson	R. Gregory	J. Lyon	• Currently on schedule for submittal to ECY in September, 2012.
	M-045-91F	Provide Summary Conclusions Report on Leak Integrity	12/31/13	12/31/13			J. Johnson	R. Gregory	J. Lyon	
	M-045-91G	Provide Summary Conclusions Report of AOR for SSTs	04/30/14	04/30/14			J. Johnson	R. Gregory	J. Lyon	
	M-045-91B-T01	Provide Ecology report on the Concrete Core from TankA-106 or alt	09/30/14	09/30/14			J. Johnson	R. Gregory	J. Lyon	
	M-045-91H	Submit Change Pckg (if necessary) to est. Additional Milestones	07/31/15	07/31/15			J. Johnson	R. Gregory	J. Lyon	
	M-045-91I	Provide IQRPE Certification of SSTs Structural Integrity	09/30/18	09/30/18			J. Johnson	R. Gregory	J. Lyon	
Prior to beginning construction and at least one year before construction is to be complete, DOE will submit to Ecology a final design and monitoring plan for each interim barrier.	M-045-92	Future Barrier Design 3	06/30/13	06/30/13			B. Lober	K. Smith	J. Lyon	
	M-045-92	Future Barrier Design 4	06/30/14	06/30/14			B. Lober	K. Smith	J. Lyon	

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Submit to Ecology as an Agreement Primary Document a Catch Tank "assumed leak" Response Plan.	M-045-100 (P)	Catch Tank "Assumed Leak" Response Plan (RPP-PLAN-48438)	12/28/10	12/28/10	05/30/11		C. Kemp	K. Smith	J. Lyon	<ul style="list-style-type: none"> <li>Initial ORP letter 10-TPD-176 sent to ECY on 12/28/10</li> <li>ECY letter for extension to 04/18/11 received by ORP on 02/11/11</li> <li>ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11</li> <li>2<sup>nd</sup> ECY review extension letter 11-NWP-028 received by ORP on 04/20/11.</li> <li>ECY Notice of Violation (NOV) received via letter 11-NWP-038 on 05/25/11. Included 3 criteria, 3 responses, and ECY RCR.</li> <li>ORP initiated dispute of NOV via letter 11-TF-065 on 06/01/11.</li> <li>ORP sent comment response extension letter 11-TF-067 on 06/16/11 to ECY to extend final response date to 08/31/11.</li> <li>Agreement to extend dispute at PM level to 08/31/11 delivered by ORP to ECY on 06/22/11. ECY approval on 06/29/11.</li> <li>AIP for path forward transmitted by DOE letter 11-TF-089 on 08/23/11.</li> <li>Signed by DOE and ECY and documented via ECY letter 11-NWP-099 on 08/25/11.</li> <li>Updated document provided to ECY via DOE letter 11-TF-090 on 08/29/11.</li> </ul>
Submit to Ecology as an Agreement Primary Document a report on all Catch Tanks and associated pipelines that are identified in the SST System Part A, or otherwise used in operations.	M-045-101 (P)	SST System Component Identification and Proposed Closure Strategy (RPP-PLAN-41977)	12/27/10	12/28/10	05/30/11		C. Kemp	K. Smith	J. Lyon	<ul style="list-style-type: none"> <li>Initial ORP letter 10-TPD-176 sent to ECY on 12/28/10</li> <li>ECY letter for extension to 04/18/11 received by ORP on 02/11/11</li> <li>ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11</li> <li>2<sup>nd</sup> ECY review extension letter 11-NWP-028 received by ORP on 04/20/11.</li> <li>ECY RCR letter 11-NWP-052 received by ORP on 06/02/11.</li> <li>ORP sent comment response extension letter 11-TF-067 on 06/16/11 to ECY to extend final response date to 08/31/11.</li> </ul>
Submit a System Plan to Ecology describing the disposition of all tank waste managed by ORP, including retrieval of all tanks not addressed by the Consent Decree, and the completion of the treatment mission	M-062-40B	Submit System Plan	10/31/11	10/31/11			R. Koll / D. Smith	C. Burrows	J. Lyon	
Waste Supplemental Treatment Report	M-062-40ZZ	Submit One Time Tank Waste Supplemental Treatment Tech. Report	10/31/14	10/31/14			S. Pfaff	C. Burrows	D. McDonald	
Technology Selection Report	M-062-45-ZZ	Technologies Selection Report	04/30/15	04/30/15			S. Pfaff	C. Burrows	D. McDonald	
System Plan – WTP Report to Demonstrate WTP Design Meets Vitrification Efficiencies	M-062-49	Submit Report to ECY Demonstrating WTP Design Meets Vitrification Criteria	10/31/11	10/31/11			D. Noyes		D. McDonald	<ul style="list-style-type: none"> <li>Report in preparation from contractor. ORP will review and provide to ECY late September / early October.</li> </ul>
Complete final design and submit RCRA Part B Permit Modification Request	M-062-31-T01	RCRA Part B Permit Modification--Final Design	04/30/16	04/30/16			S. Pfaff		D. McDonald	

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

**WORKING ORP Key Documents List  
For September 27, 2011**

Topic Areas	Document	ORP Delivery to Regulators Date <sup>1</sup>	Anticipated Regulatory Review Completion Date <sup>2</sup>	Final Completion Date <sup>3</sup>	DOE-ORP Lead	Contractor Lead	Regulator Lead	Comments/Issues
PERMIT DOCUMENTS	Tier 1 Framework Closure Plan Update	05/31/12			C. Kemp	S. Eberlein	J. Lyon	
	Tier 2 WMA C Closure Plan	05/31/12			C. Kemp	S. Eberlein	J. Lyon	
	WMA C Closure Conceptual Design	09/30/12			C. Kemp	S. Eberlein	J. Lyon	
	All Remaining Closure Plans for WMA C	09/30/15			C. Kemp	S. Eberlein	J. Lyon	
	Tier 3 Closure Plans for Tanks Already Received	TBD			C. Kemp	S. Eberlein	J. Lyon	• Due 120-day post EIS
	Tier 3 Closure Plans for Additional Tanks	TBD			C. Kemp	S. Eberlein	J. Lyon	• Several Dates in out years
	WMA C Closure Design	TBD			C. Kemp	S. Eberlein	J. Lyon	• Final dates not yet determined
	<b>DST Exhausters Notice of Construction and HIA</b>	<b>09/30/11</b>			<b>L. Huffman</b>	<b>F. Miera</b>	<b>J. Lyon</b>	• <b>Received from WDOH, ORP to approve by 09/30/11.</b>
	Supplemental Treatment Technology Notice of Construction	09/30/13			L. Huffman	F. Miera	J. Lyon	
	Submit Part B Permit Application for Selected Supplemental Treatment Technology	09/30/13			L. Huffman	F. Miera	J. Lyon	
	Wiped Film Evaporator Notice of Construction	09/30/14			L. Huffman	F. Miera	J. Lyon	
	Submit Wiped Film Evaporator Class 3 Permit Modification or Part B Permit Application	09/30/14			L. Huffman	F. Miera	J. Lyon	
MISCELLANEOUS DOCUMENTS	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	
TWRPS DOCUMENTS	Quarterly Hose-In-Hose Transfer Lines (HIHTL) Reports	Ongoing Quarterly			J. Johnson		J. Lyon	• Back-reports submitted via email to ECY, formal letter 11-TPD-024 transmitted back reports to ECY on 03/29/11 • Meeting to evaluate extension of 2 HIHTL Reports set for 05/25/11.
	C-101, RPP-22520	TBD			C. Kemp	K. Smith	J. Lyon	• Pending Approval of 2 <sup>nd</sup> treatment technology
	C-105, RPP-22520	TBD			C. Kemp	K. Smith	J. Lyon	• Pending Approval of 2 <sup>nd</sup> treatment technology
	C-110, RPP-33116	TBD			C. Kemp	K. Smith	J. Lyon	• Pending Approval of 2 <sup>nd</sup> treatment technology
	C-111, RPP-37739	TBD			C. Kemp	K. Smith	J. Lyon	• Pending Approval of 2 <sup>nd</sup> treatment technology

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

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

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

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ORP Project Managers Meeting  
September 27, 2011  
2440 Stevens Ctr.  
Richland, Washington  
**Meeting Minutes Transmittal**

**Attachment D: Administrative Record Items**

**(2 pages including this coversheet)**

**ORP TPA Project Managers Meeting  
 Tuesday, September 27, 2011  
 2440 Stevens Center  
 Richland, Washington  
 Room 1600, 9:00AM-11:30AM**

**AGENDA**

**1.0 Administrative Items**

- Previous months' minutes approval

**2.0 Review of the ORP Project Summary**

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

**3.0 Agreements**

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

Item Description	TPA / CD Topic / Milestone Tie	TPA Admin Record - EDMC File Number
Agreement in Principle - Milestone M-045-100 "Catch-Tank 'Assumed Leak' Response Plan" via Ecology Letter 11-NWP-099	M-045-100	0098435
Notice 2011-3: Revisions to RPP-22393, Rev. 5, 241-C-102, 241-C-104, 241-C-107, 241-C-108 and 241-C-112 Tanks Waste Retrieval Work Plan	TWRWPs	0098509
Structural Analyses of Record Report for SSTs for 530,000 Gallon Tanks (B, BX, C, T, and U Farms)	M-045-91G-T01	0098440
WMA C RFI/CMS Status of Investigation and Work Plan Meeting held on August 25, 2011 – Meeting Minutes	WMA C RFI/CMS	Entered into AR, to be posted soon
WMA C RCRA Field Investigation Report Development Status Meeting held on September 8, 2011 – Meeting Minutes	WMA C RFI/CMS	Entered into AR, to be posted soon
WMA C RCRA Field Investigation Report Development Status Meeting follow-up held on September 22, 2011 – Meeting Summary	WMA C RFI/CMS	Entered into AR, to be posted soon

**5.0 Upcoming Meetings**

- The October ORP TPA PMM is scheduled for Tuesday, October 25<sup>th</sup>.

Page	Topic	Leads	Time
TPA 1 / CD 1	Statistics / Status	Woody Russell / Dan McDonald / Jeff Lyon	9:00
TPA 6	Single-Shell Tank Corrective Action; M-45, -50, -60	Bob Lober / Jeff Lyon	9:05
TPA 8 / CD 5	Single-Shell Retrieval and Closure Program TPA Milestones Status; M-45-00 series, <ul style="list-style-type: none"> <li>- Tank in Appendix H Status</li> <li>- C-Farm Critical Path</li> <li>- Tanks with Individual Milestones</li> <li>- Double-Shell Tank Closure</li> <li>- 242-A Evaporator Status</li> </ul> SST Retrieval and Closure CD Milestones and TWRWP Status; D-00B series	Chris Kemp / Dan Knight / Jeff Lyon	9:20
TPA 18	SST Integrity Assurance; M-45-91	Jeremy Johnson / Michelle Hendrickson	9:40
TPA 21	In Tank Characterization and Summary	Jeremy Johnson / Michael Barnes	9:45
TPA 22	Tank Operations Contract (TOC) Overview	Dan Knight / Jeff Lyon	9:50
TPA 27	Acquisition of New Facilities; M-90-00; M-47-00	Janet Diediker / Jeff Lyon / Dan McDonald	10:05
TPA 28	Supplemental Treatment and Part B Permit Applications; M-62-00, -20, -30, -45	Steve Pfaff / Jeff Lyon / Dan McDonald	10:10
TPA 29	System Plan; M-62-40	Dabrisha Smith / Jeff Lyon / Dan McDonald	10:15
<b>BREAK</b>			
TPA 30 / CD 8	WTP Overall TPA and CD Summary and Milestones Status; M-62-01; M-62-49; D-00A-01, -06, -17	Delmar Noyes / Dan McDonald	10:30
TPA 32 / CD 10	WTP Pretreatment (PT) Facility; D-00A-13, -14, -15, -16, -19	Wahed Abdul / Dan McDonald	10:40
TPA 34 / CD 13	WTP High-Level Waste (HLW) Facility; D-00A-02, -03, -04, -21	Gary Olsen / Dan McDonald	10:50
TPA 35 / CD 15	WTP Low-Activity Waste (LAW) Facility; D-00A-07, -08, -09	Jeff Bruggeman / Dan McDonald	11:00
TPA 37 / CD 18	WTP Analytical Laboratory (LAB); D-00A-05	Jason Young / Dan McDonald	11:05
TPA 39 / CD 21	WTP Balance of Facilities (BOF); D-00A-12	McDonald	11:10