

ORP Project Managers Meeting
 July 26, 2011
 2440 Stevens Ctr.
 Richland, Washington
Meeting Minutes Transmittal

Distribution:

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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).

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



Bob Lober, DOE-ORP

Date: 9/27/2011

Chris Kemp / CTICgo

Chris Kemp, DOE-ORP

Date: 9-27-11

Wahed Abdul

Wahed Abdul, DOE-ORP

Date: 10/4/11

OK for Jeff Trent

Jeff Trent, DOE-ORP

Date: 9-27-11

Gary Olsen

Gary Olsen, DOE-ORP

Date: 9-27-11

J. Lyon

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

Date: 9-27-11

J. D. McDonald

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

Date: 9.27.11

Purpose: ORP Project Managers Meeting

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1.0 Administrative Items

- Previous meeting minutes approval: The June 28, 2011 Project Managers Meeting (PMM) minutes were approved.

2.0 Review of the ORP Project Summary

- Action Item List

The action items were updated during today's PMM.

- Key Documents List

An updated key documents list was distributed.

Tank Farms

Tri-Party Agreement and Consent Decree (TPA and CD) Statistics/Status - ORP reported that the milestones are currently on schedule. The Tri-Parties agreed to delete milestone M-062-30. Milestone M-045-100 is in dispute resolution. ORP noted that milestone M-036-01A was added to the table, which is the annual submittal of the lifecycle report.

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

M-045-60 - ORP reported that a second angle push is being conducted in Waste Management Area C (WMA-C). Resampling is being done, due to the 222-S Lab down time for some of the surface samples, and it was completed last week.

M-045-56G - The annual meeting was held on July 13, 2011, and meeting minutes were presented today for Ecology signature. The minutes will be submitted to the Administrative Record. Near-term needs identified during the meeting were to hold discussions with Ecology about the barrier work and the high resolution resistivity (HRR) application efforts that are under way

M-045-92K/M - The design and monitoring plan has been completed and was approved by Ecology. The contract for the basin construction in the SX area has been let, and construction is expected to start in August 2011.

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Significant Past Accomplishments - The monitoring of TY interim barrier continues, and the logging was completed last week and has been reviewed. The results will be used to support the annual meeting held in December. The surface geophysical exploration (SGE) work under UPR-82 has been completed, and the results have been issued. Work in BY and S Farm is ongoing to look at potential options for other barriers. Six of the seven logging holes have been completed in S Farm, and deep electrodes have been installed for SGE work. One logging hole has been sampled.

TPA-SST Retrieval and Closure Program:

M-045-100 - ORP stated that it has requested an extension to August 31, 2011 for the comment resolution period regarding the Notice of Violation (NOV), and a response has not been received from Ecology. ORP noted that Ecology has indicated that the negotiating team can start discussions next week, and comments have been received from Ecology. ORP added that unless a response is received from Ecology regarding the extension request, ORP will be working to the August 31 date to come to resolution.

M-045-101- ORP stated Ecology has not responded to the extension request to August 31, 2011 for the comment resolution period, and ORP will be working to the August 31 date for resolution.

M-045-80 - ORP stated that internal meetings will be held starting next week to resolve Ecology's comments on the catch tank removal plan and the pipeline feasibility study. At this time, *ORP closed action No. 100-232*, noting that EPA is updated quarterly on the C-200 demonstration plan. ORP stated that EPA will be provided an update in August 2011.

Issues - ORP reported that high-level discussions regarding the tank farm soil cleanup issue transpired between Ecology and DOE-RL. ORP stated that Ecology's preference is to address the highly contaminated soils through the 3116 process, which is not ORP's preferred approach. ORP noted that based on the high-level discussions, this issue will be removed from the issues list. Regarding the IS-1 issue, ORP stated that a meeting is scheduled tomorrow (7/27/11) with Ecology, ORP and DOE-RL. Ecology has suggested some approaches with the West Area TSDs that will be discussed during the meeting. *ORP closed action No. 100-221*, based on the meeting to be held tomorrow. ORP stated that it is working through comments with Ecology on the C Farm performance assessment (PA). ORP is doing the features, events and processes (FEPs) for the Nuclear Regulatory Commission (NRC), and is also working collaboratively with a member of the NRC. ORP will be sharing updates on the FEPs with all of the PA participants. ORP is not

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planning to conduct any PA work in-session due to a lack of funding this fiscal year. There is a PA session tentatively scheduled in October 2011, but the session will not be held unless ORP is confident that the parties are ready. ORP noted that the weekly PA updates are open for anyone who would like to participate.

C-Farm Critical Path - ORP reported that several activities were split from FY11 to FY 12 in the C-Farm schedule, based on incorporating the appropriate labor rates and escalation so that they can be applied to resources. The C-101 retrieval system installation was split between FY11 and 12. The 22-day negative slip in C-104 retrieval was due to activities associated with the removal of the thermocouple. Bulk retrieval was completed in May 2011 when the limits of technology were reached. *ORP closed action No. 100-233*, stating that ORP and WRPS met with Ecology on June 7, 2011, to discuss meeting the limits of technology for modified sluicing in C-104. There was a new activity in C-104 for FY12, HHA-1C004RA. C-105 retrieval design had slippage into FY12 due to funding issues. C-107 slips in the installation, startup and readiness in retrieval operations are minimal negative floats and are due to completing electrical field work and power tie-ins to allow installation of the MARS and ancillary components.

A new FY12 activity was added to C-109 hard heel removal (HRR) design and engineering support, with 173 days positive float. Ecology asked if a decision had been made on what the second technology will be in C-109. ORP responded that a decision has not been made. The preliminary data from the hard heel sample has been received, which has been shared with Ecology. ORP stated that the volume in C-109 is so large, that doing only a caustic wash without utilizing a Fold Trak may be impractical. Ecology asked if that was the reason for the additional design work, and ORP concurred.

ORP reported that there will be no more slippage in the C-110 schedule next month. For C-112 retrieval design, there was a minimal impact from the negative 48 days of float, which was due to available resources prioritization. Design media to support field installation activities is being completed and will support schedule needs. There was a new FY12 activity incorporated into the C Farm infrastructure DST receiver tank 4 design. All other activities are on schedule.

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.

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CD-SST Retrieval and Closure:

D-00B-02 - ORP reported that there will be a final discussion with Ecology next week on the nine single-shell tanks. If ORP becomes aware of new and additional information in the future, it will be provided to Ecology.

Significant Past Accomplishments - ORP reported that the construction acceptance testing is under way in preparation for startup of retrieval in C-107 in September 2011. The upgrade of the portable 104 valve box to support HRR is nearing completion. Ecology noted that since the infrastructure is already in place, there shouldn't be any issues or necessary upgrades for subsequent planned caustic additions. ORP agreed, and added that the upgrade to valve boxes 104 and 108 will reduce the recirculation route by going through the portable valve boxes instead of recirculating all the way from the DST side. Ecology asked if tanks C-101 and C-102 are planned for caustic additions, and ORP concurred.

CD-TWRWP Status - ORP stated that one of the largest Tank Waste Retrieval Work Plans (TWRWPs) is in Ecology review (RPP-22393), and ORP plans to schedule a comment resolution meeting with Ecology next week. Ecology commented positively on the plan for using an in-tank vehicle for tanks C-112 and C-109. At this time, *ORP closed action No. 100-220* regarding Ecology's request for a schedule of any TWRWP changes. ORP stated that the TWRWP status table that is updated and provided monthly meets the need.

Significant Accomplishments - ORP reported that a meeting was held with Ecology, WRPS and ORP engineering experts on June 17 and 18, 2011, and a technology table was created associated with the selection of second and third technologies. *ORP closed action No. 100-225*, noting that the technology roadmap document that WRPS will be using to plan their work is not a document that would be helpful for discussions of second and third technologies. Ecology comments will be addressed during the meeting to be scheduled next week on RPP-22303. Ecology agreed to closing the action, noting that ORP and WRPS have done a lot of work in the last two months, and the evaluation of the residual waste volumes and the technology selection has changed. Ecology added that the change is an improvement for the approach to C-109 and C-112.

ORP closed action No. 100-226, based on the meeting held June 17 and 18, and noted that it is related to action No. 100-225. Ecology suggested leaving the action open until the caustic addition has been done to C-108, which will provide the bulk of the information. ORP agreed with Ecology's assessment, but disagreed that the action needs to be carried based on what will be

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done in C-108. ORP stated that lessons will be learned every time a different retrieval method is done, including the cost benefit analysis, and that there will discussion next week with Ecology. Ecology agreed that the action could be closed.

M-045-91, SST Integrity Assurance:

Significant Past Accomplishments - M-045-91F-T04 - ORP noted that this work is not leak assessments per se, but it is using the tank information as well as the designs and inventories to determine what a plausible mode of failure is in the tanks.

In Tank Characterization and Summary:

Planned Actions Within the Next Six Months - Ecology asked if the Sampling and Analysis Plan (SAP) for the C-108 hard heel sampling that's scheduled for August 2011 had been provided for review. ORP responded that the SAP had been provided, but will double-check. Ecology asked how the progress will be monitored for the dissolution of the aluminum, what the key indicator will be to signify completion, and what the sampling schedule is for C-108. Ecology noted that both C-104 and C-108 tank samples will be submitted to the 222-S Lab at the same time, and asked if the lab would be able to handle the work load. Ecology also asked why the PCB Management DQO is being revised. ORP will confer internally and provide answers to Ecology's questions.

Tank Operations Contract (TOC) Overview - ORP provided an update for May 2011, contract-to-date, and Recovery Act (RA) cost and schedule variances. Ecology asked for clarification regarding the unfavorable schedule variance for hose-in-hose transfer line disposition removal and disposal (CLIN 3, pg 24 of TPA report) versus the favorable cost variance for hose-in-hose transfer line disposition (CLIN 2, pg 25 of TPA report). ORP explained that the unfavorable schedule variance is for the current month, and the favorable cost variance is for the contract-to-date.

Acquisition of New Facilities; M-90-00; M-47-00 - ORP reported that WRPS has released a project execution plan for the interim Hanford storage project team. ORP is currently planning to, and has been evaluating, the alternatives for the interim Hanford storage. A final down-select will be done in September 2011, with plans to initiate conceptual design on the preferred alternative. ORP suggested closing action No. 100-208, stating that Ecology has not provided clarification on the information requested regarding the 222-S Lab. Ecology will send an e-mail requesting the specific information and ORP will provide a response. *ORP closed action No. 100-223*, stating that ORP will work with the Ecology point of contact on information sharing.

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Ecology agreed, suggesting scheduling a meeting to determine a path forward and who needs to be involved. ORP noted that there are near-term meetings scheduled that will provide for exchange of information.

ORP stated that negotiations need to be initiated in the near future on milestone M-047-06 to define the two interim milestones for secondary waste treatment. WRPS has provided ORP a 394-page data package with five alternatives for secondary liquid waste treatment. ORP has conducted a review of the draft document and provided some feedback. The alternatives defined in the data package will ultimately be submitted to an expert panel commissioned by ORP to make the down-select for secondary liquid waste treatment. WRPS put out a bid for an architect/engineer company to do the conceptual design work on secondary liquid waste treatment, and the technical aspect of the bid has been awarded. Ecology asked if ORP was confident that the company selected is capable of performing the work, even though the down-select for the particular technology is not complete. ORP responded that it has confidence in the company to do the architect/engineer work and conceptual design work. ORP noted that the bid for the final design or construction has not been put out yet.

ORP stated that it has slowed down the progress on the secondary liquid waste treatment project due to a number of reasons: 1) Technetium recycle testing is in progress to validate the assumption there will be very little technetium going to the secondary liquid waste treatment, and that information is required. 2) A better understanding is needed about the performance of one of the alternatives, fluidized bed steam reforming, if it's to be used for secondary liquid waste treatment. 3) Waiting on better steam reforming test data. 4) Analyses to determine the performance of the other alternatives should not be done before the Environmental Impact Statement (EIS) is released. ORP has met with WRPS to attempt to determine how to rank the performances of the treatment alternatives, and there is a tentative path forward that does not try to predict quantitative releases to the environment.

Ecology asked about a potential conflict with the selection of a technology and the results of the EIS. ORP stated that the EIS will provide several alternatives, and when the down-select decisions are made, the technologies will have to be bounded by the analysis of the EIS. Ecology asked if ORP was sufficiently confident that the technologies being considered will be bounded by the EIS, and ORP responded that it is confident.

ORP stated that the baseline case for secondary liquid waste treatment includes upgrades to the current effluent treatment facility. An upgrade would be needed for the ability to solidify the dry

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product that comes out the back end of the facility. Environmental analyses have been done on different types of chemical mixes to use in solidifying the dry product. These kinds of monolith type products would also be used for steam reforming or for low activity waste treatment. The data package for the solidification alternatives is anticipated in the next 30 to 60 days.

ORP reported on the steam reforming technology development that PNNL is performing at the Savannah River National Lab. A report has been drafted, and there were some quality assurance issues in the report that have been addressed with PNNL. PNNL is testing Savannah River secondary waste that's been spiked with technetium. It will be used as a hot sample to be done through the bench scale steam reformer, and that information will be also coming in from PNNL.

Ecology asked when a detailed presentation could be given. ORP took an action to plan for an October 2011 meeting with Ecology to provide a comprehensive update on secondary liquid waste treatment and secondary waste form testing.

Supplemental Treatment and Part B Permit Applications; M-62-00, -20, -30, -45: ORP noted that milestone M-062-30 has been deleted, partly because the milestone addressed improvements to the waste treatment plant that have already been analyzed and some of those improvements were incorporated into the design. The other part was that in terms of interim milestones to define the supplemental treatment program, it was determined that further milestones on that project were not necessary. However, ORP intends to engage Ecology in the M-062-40 milestone for the one-time supplemental treatment technologies report that's due in 2014, and then ultimately the negotiated decision on supplemental treatment that's due in 2015. Ecology stated that the effort so far has been exemplary and that everyone involved has done a good job. Ecology expressed appreciation to the contractors for their assistance in providing information or answers to questions.

Significant Planned Actions - ORP gave an update on the planned actions since they weren't provided in time to be included in today's report. The conceptual design report for supplemental pretreatment will be completed by the end of September 2011. The alternative data packages for supplemental immobilization are planned for completion by the end of September 2011. A Defense Nuclear Facilities Safety Board (DNFSB) teleconference will be held tomorrow (7/27/11) to discuss the supplemental pretreatment and immobilization projects. The Savannah River National Lab treatability studies briefing to Ecology will also be held tomorrow. A capacity briefing on supplemental pretreatment is scheduled tomorrow.

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System Plan - DOE-ORP stated that all of the milestones are on schedule. The 90% draft of System Plan 6 review was completed, and there were approximately 525 comments generated by ORP, WRPS and Ecology. The comments will be tracked and closed via review, comment, record (RCR), and the RCRs will be closed on July 29, 2011. The RCRs will be published with an RPP number for reference purposes.

Waste Treatment Plant

Significant Past Accomplishments - ORP reported that a major floor was placed in the Pretreatment (PT) facility last week. The floor is associated with the basement mat of the 56-foot level over the hot cell.

Significant Planned Actions in the Next Six Months - ORP stated that one of the first major placements of a module into a black cell in planning area 7 is scheduled for July 30, 2011. The module is a prefabricated section of piping that was built on the ground and then raised and placed in planning area 7. ORP reported on the status of the open action relative to the Low Order Accumulation Model (LOAM) report. A response to the DNFSB's letter has been drafted and is at DOE Headquarters for final transmittal to the DNFSB by August 2, 2011. The response letter will be shared with Ecology after it has been finalized. ORP reiterated the issue with the DNFSB's letter, stating that the board assumed a use of LOAM that wasn't the intended use. The DNFSB was concerned about the application of LOAM as a design tool. DOE-ORP's response is essentially that LOAM was never intended to be a design verification tool. ORP stated that the DNFSB will be on site next week to review the revision to the implementation plan relative to the mixing issue. The revision was done in response to the DNFSB's mixing recommendation 2010-2.

A major upcoming activity is the construction project review (CPR), which is scheduled for August 23, 24 and 25, 2011. ORP will make arrangements for Ecology to attend the closeout briefing of the CPR.

Ecology raised the subject of holding discussions, when it gets closer to the time that a facility will be turned over, regarding operator qualifications and training, operation and maintenance of facility structures, and management of facilities. ORP responded that a lot of that discussion will come from the integration project within ORP. Ecology asked for an update on early LAW. ORP responded that the term early LAW is not used, but the schedule for LAW, BOF and LAB is to complete construction, conduct a phased operational readiness review (ORR), and be ready to

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operate by 2016. Ecology asked if the integration project will provide information regarding how the feed infrastructure will be ready by 2016. ORP stated that it will, but the final decision to support the LAW delivery of feed in 2016 will ultimately be decided by Congressional funding approval. Oregon Department of Energy (ODOE) noted that one of the issues the DNFSB had was getting operators trained now, and ODOE asked about the definition of now. ORP responded that the current one-system proposal to integrate tank farms and WTP is the foundation to ensure there is consistency with the operators to achieve the 2022 objective.

Pretreatment (PT) Facility

Significant Past Accomplishments - ORP reported on the status of the Pretreatment Vessel Vent Process and Process Vessel Vent (PVP/PVV) evaluation. There are a series of four different options being evaluated, and the decision was made to move away from using the de-entrainment equipment as an option. The remaining three various options include using the existing equipment and crediting it for knocking down solids. The options being considered are all design-based scenarios in a seismic event. The next step is to conduct testing to evaluate the aerosols that are released from the sparging activities in an effort to more accurately develop the safety strategy for that system.

Ecology inquired about a percentage range in terms of scale testing associated with the large scale integrated testing (LSIT). ORP responded that the details for test plans are being finalized. The LSIT will consist of a four-foot vessel, an eight-foot vessel and a 14-foot vessel. An 18-foot vessel is full size for some of the vessels, so in terms of scaling it's either 100 percent or in the range that the experts consider full scale. Informational testing is currently being conducted in the four-foot platform to collect data about placement of the suction^{line} and how that affects the accumulation of particles. Initial testing suggests that the accumulation of large particles was because one of the nozzles was close enough to the suction that it was pushing the solids away from the suction. Subsequent testing that moved the position of the nozzle resulted in dramatic changes. Ecology asked about the simulant that is being used in the testing, and ORP responded that it is a Newtonian simulant. ORP noted that the informational testing is not NQA-1, but it's information that can be used when NQA-1 documented testing is done.

Issues - Vessel HLP-22 is the critical path. The vendor has moved the fabrication completion date out to December 2012, and the current construction need date is January 2013. Bechtel is ~~on~~ ^{has been} ~~site~~ ^{meeting} with the vendor to provide assistance in working through the schedule and alleviating the resource issue with welders.

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High Level Waste

ORP reported challenges with the cost performance index (CPI) in the last couple months, due to the complex work that is under way. The unit rate for some of the work is causing some inefficiencies. The facility is in the early stages of commodity installation, and a less than optimal performance in a lot of the commodities is expected in the next three to four months. A CPI recovery is anticipated at the beginning of the fiscal year (October 2011). The schedule performance is not posing a problem at this time.

Significant Past Accomplishments - ORP provided photos today depicting the filter cave build-out. Two large vertical risers were recently placed. Two complex melter walls were placed, one in melter cave No. 1 and one in melter cave No. 2.

Issues - There were no major issues to report. ORP noted that in the future, the issue section of the report will contain issues that have some potential to impact the critical path. The day-to-day working issues will be reported in the significant past accomplishments. Ecology asked about the critical path status of the C5V filter housings and remote-operated dampers. ORP responded that installation of the C5V components do not pose a threat to critical path. Eight of 11 filter housing units are on site, and two remain to be fabricated. The quality of the product has been excellent and shipping is going well. The real driver for the entire critical path is the slab placement over the mid-section of the filter cave. ORP stated that the installation schedule will be compressed, but it will continue to find mitigating actions to maintain schedule.

Low Activity Waste Facility (LAW)

Significant Planned Actions in the Next Six Months - ORP reported that design substantially complete is still forecast for the end of this year. Completion of the last of the electrical designs pushed out that target, but the designs have been received and work is under way to close out the last of the electrical component by the end of this year. ORP is working on the process to tie in the design into the licensing strategy to ensure safety significant items are incorporated, and defining the process for moving from a preliminary document safety analysis to a document safety analysis.

ORP stated that the critical path continues to be procurement of the offgas equipment. There were fabrication issues with the welding on the carbon bed adsorber (CBO), which have been resolved. The issue was reported at last month's PMM about the bowing of some plates caused by the welding. The components have been replaced with new materials, and the welding

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technique was changed to avoid the problem. The thermal catalytic oxidizer (TCO) is also critical path. Lessons learned have been taken from other commercial vendors and are being implemented at the TCO vendor shop. A readiness review is planned later in August 2011 at the TCO vendor to ensure that their quality program and welding program and design are complete.

Ecology asked if the review of software is a preliminary review or acceptance testing. ORP stated that the review is to test certain elements of the software that is written for a specific system. The final acceptance testing for the software won't be done until it's installed in the facility. Ecology asked if ORP has allowed enough time for contingencies if the integrated control testing of the software encounters a problem. ORP stated that testing will start before construction complete is done, which will allow some float time to address any problems.

In the next month or two, ORP plans to schedule a meeting with Ecology to provide an overall schedule and status for LAW, BOF and LAB. Ecology asked when the construction of LAW is complete. ORP stated that there is a milestone on substantially complete in December 2014. The current forecast is to meet the milestone seven months ahead of schedule.

Analytical Laboratory (LAB)

Significant Past Accomplishments - ORP noted again that the significant amount of commissioning activity and laboratory analytical method development activities create an artificial lowering of the percent complete numbers. Construction is moving forward with no significant issues. The design is basically substantially complete, with no significant issues. The main focus is procurement of some of the control instrumentation, which is behind for LAW, BOF and LAB. A number of efforts are under way, including increased procurement staff, and purchasing instruments in a logical and efficient manner. Work has started to draft the laboratory information management system and some of the activities that will lead towards developing analytical methods in the LAB.

Significant Planned Actions in the Next Six Months - ORP stated that the Automatic Sampling System (ASX) is on schedule to be installed in the LAB this year. The piping from the ASX between the LAB and HLW or PT won't be completed until a later time since it will prohibit crane operation. Ecology inquired about the specifics of the ProjectWise training. ORP will provide an answer to Ecology via e-mail. Ecology inquired about the process for turning over the facilities to commissioning. ORP stated that there is a current procedure in place that prioritizes and categorizes any type of open items as A, B or C. A items will be required to be fixed before

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turnover. B and C items may be required to be fixed before turnover, and if not, the commissioning group will address the fix. ORP stated that increased management attention has been placed on the area of operations turnover. A finishing manager has been assigned with additional staff, and they have been in place for the last four or five months. Ecology stated that several of the support staff at Ecology have left, and noted that with the tight budget at the state level, it may be months before the positions are replaced.

Balance of Facilities (BOF)

ORP reported that construction of the steam plant is just about complete. Ecology noted that a pump was rusted in the steam plant, and acknowledged that ORP would not want to finish the facility too early. A question was raised about an ongoing maintenance program. ORP stated that there is a maintenance program, and the frequency of inspection and maintenance of equipment is dictated by the vendor's recommendation. When a major item arrives onsite, it is immediately tagged and entered into the maintenance program. When staff went out and tried to turn the specific pump in question, the pump wouldn't turn, it was opened up, and water was discovered in the line. Bechtel performed a thorough extent of conditions several months ago, and there are several items that are being watched closely by facility representatives. There were some items identified during the extent of conditions that will not undergo cleaning of rust, for example, until it gets closer to the time of startup. Then all of the items will undergo cleaning or upgrading at the same time.

ORP provided an update on the emergency power. Bechtel is at the vendor's shop for the turbine generator in an effort to get the bid awarded by early August 2011. The fabrication cycle for the turbine generator is about 11 months, but the challenge will be meeting the seismic qualification, which is estimated to take about a year.

3.0 Agreements

There were no agreements to status.

4.0 Items for the Administrative Record

The following items will be submitted to the AR: 1) WMA-C closure planning meeting minutes from July 5, 2011; 2) A 45-day notification under the Phase 2 risk-based disposal analysis authorization for tank C-107, which was sent to the full distribution. Approval via e-mail has been received from EPA.

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5.0 Upcoming Meetings

A dry run for the TPA Quarterly is scheduled for August 11, 2011. The TPA Quarterly meeting is scheduled for August 18, 2011.

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

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Date Opened	Status
O	100-208	ORP/ ECY	J. Diediker/ J. Lyon	Tank Farms	Provide Ecology the 222-S lab performance information. These will be tracked at the regular PMMs.	10-26-10	5-12-11: Remains open.
O	100-220	ORP	C. Kemp	Tank Farms	Ecology requested a schedule for any TWRWP changes.	3-22-11	5-12-11: Separate ECY / DOE meeting needed. Related to 100-225 and 100-226.
O	100-221	ORP	C. Kemp	Tank Farms	Discuss the IS-1 Common Vision in the Closure Plan meeting. Asking IAMIT for update.	3-22-11	5-12-11: Meeting 4-27-11 with ORP/RL/ECY. IAMIT update 5-19-11.
O	100-223	ORP	J. Diediker	ORP	Ecology asked for a meeting for information sharing on the secondary HLW waste storage and supplemental treatment (M-045, -047, -062, and -090).	3-22-11	5-12-11: ECY input is requested to determine scope of the meeting.
O	100-225	ORP	C. Kemp	TWRWP	DOE wants to issue a revised Tank Retrieval Technology Roadmap Document and ORP want to resolve 2 nd and 3 rd technology discussion.	4-26-11	5-12-11: Related to 100-220 and 100-226. Technical experts/team meeting 5-17/18-11.
O	100-226	ORP	C. Kemp	TWRWP	ORP wants to reopen discussion on end of retrieval discussions that include cost benefit analysis and how the finish of a retrieval decision occurs.	4-26-11	4-26-11: Open. Related to 100-220 and 100-225. Technical experts/team meeting 5-17/18-11.
O	100-229	ORP	D. Noyes	WTP/PT	DNFSB Briefing and Draft Reports	4-26-11	5-12-11: Open.
O	100-231	ORP	G. Olsen	WTP/ LAW	LAW Commissioning Schedule: current baseline high-level overview.	4-26-11	5-12-11: DOE to meet with ECY soon.

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Date Opened	Status
O	100-232	ORP	C. Kemp	Tank Farms	Setup meeting with Dennis Faulk (EPA) and ECY regarding M-045-80/-81	5-19-11	5-19-11: Open.
O	100-233	ORP	C. Kemp	Tank Farms	Tank C-104 -- need meeting and signed minutes on limits of technology for 1 st technology (modified sluicing)	5-19-11	5-19-11: Open.

ORP Project Managers Meeting
July 26, 2011
2440 Stevens Ctr.
Richland, Washington
Meeting Minutes Transmittal

Attachment B: List of Attendees

(3 pages including this coversheet)

Sign In Sheet
Managers Monthly Milestone Review Meeting
July 26, 2011

NAME	ORG	MSIN	PHONE
Jeremy Johnson	ORP		376 1866
Kathy Higgins	ORP		376-3638
Steve Pfaff	ORP		376-2188
Lin McDonaw	ECY		372-7988
Shelley Ciman	DOOE		(SA) 963-0853
Chris Kemp	ORP		509-373-0649
Janet Diediker	ORP		372-3043
Mike Barner	Ecology		372-7927
Bob Lobo	ORP		373-7849
ROB PIERRO	MSA		373-3235
VANESSA Mandapoulos	MSA		376 1191
Joni Norton	DOE-ORP		376-6202
John Price	ECY		372-7921
Reed Kaldor	MSA		372-1992
Kitty Bryan	ORP/MSA		205-8457
DaBrisha Smith	ORP		376-4306
MICHAEL PELOQUIN	WRPS		539-5357
Jeff Luke	WRPS		376-8609
JAMES LYNCH	ORP		376-4170
David Thrasher	DOE-WTP		376-3575
Delmar Wayes	DOE-WTP		376-5166
Jason Young	DOE-WTP		376-0375

ORP Project Managers Meeting
July 26, 2011
2440 Stevens Ctr.
Richland, Washington
Meeting Minutes Transmittal

Attachment C: Presentation Materials

ORP TPA Project Summary and Handouts

(45 pages)

And

ORP Consent Decree Project Summary and Handouts

(26 pages)

And

Working ORP Key Documents List

(5 pages)

(77 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"> - Tank in Appendix H Status - C-Farm Critical Path - Tanks with Individual Milestones - Double-Shell Tank Closure - 242-A Evaporator Status 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
BREAK			
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:

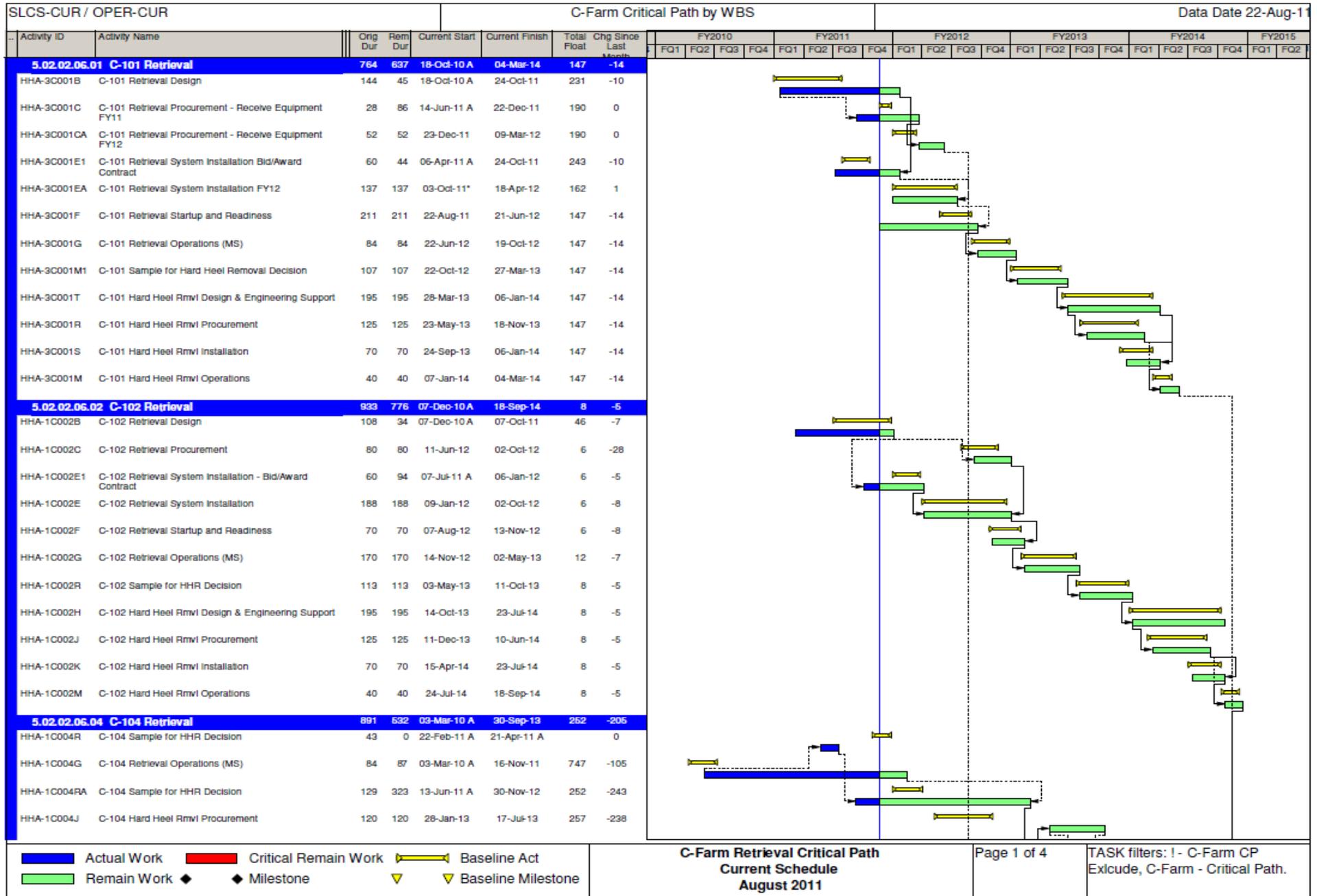
None

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



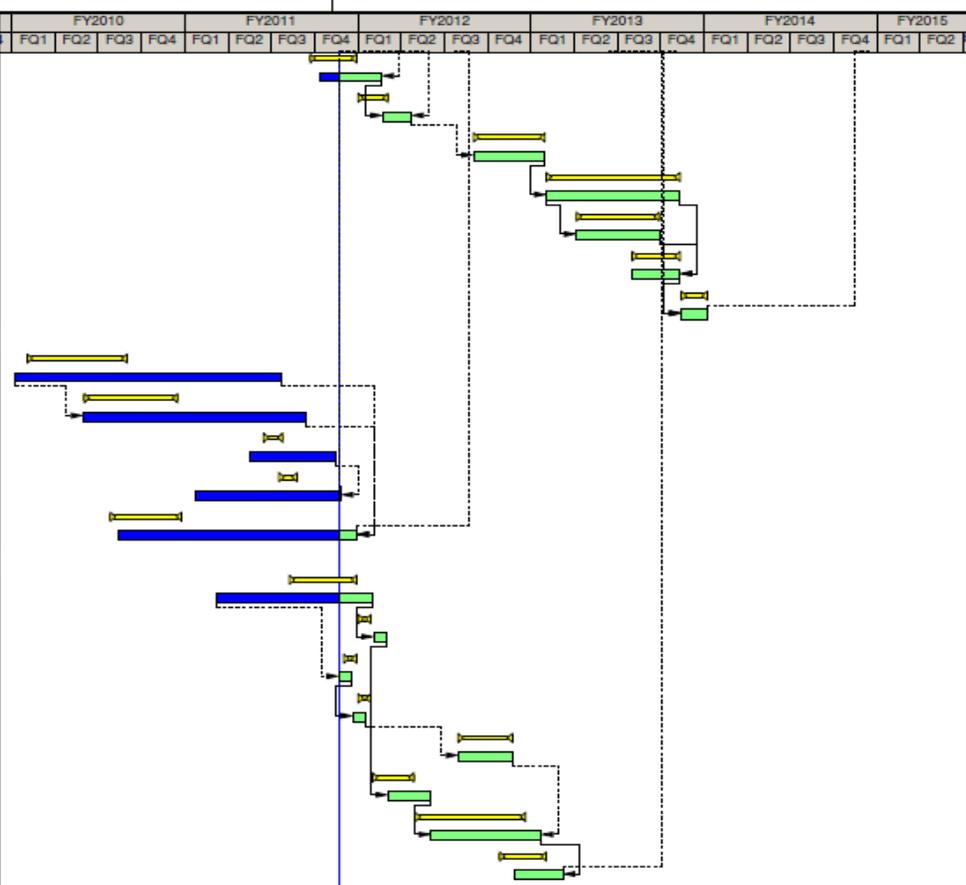
SLCS-CUR / OPER-CUR		C-Farm Critical Path by WBS						Data Date 22-Aug-11																							
Activity ID	Activity Name	Orig Dur	Rem Dur	Current Start	Current Finish	Total Float	Chg Since Last Month	FY2010				FY2011				FY2012				FY2013				FY2014				FY2015			
								FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2		
HHA-1C008H	C-108 Hard Heel Rmvl Design & Engineering Support	195	13	12-Oct-09 A	08-Sep-11	319	-19																								
HHA-1C008J	C-108 Hard Heel Rmvl Procurement	125	31	01-Feb-10 A	04-Oct-11	364	-2																								
HHA-1C008K1	C-108 Repairs to POR-104 Valve Box	137	9	18-Oct-10 A	01-Sep-11	386	-26																								
HHA-1C008K	C-108 Hard Heel Rmvl Installation	75	20	22-Feb-10 A	19-Sep-11	312	9																								
HHA-1C008M	C-108 Hard Heel Rmvl Operations	63	63	20-Sep-11	19-Dec-11	312	-45																								
5.02.02.06.09 C-109 Retrieval		479	272	01-Oct-10 A	18-Sep-12	389	8																								
HHA-1C009R01	C-109 Sample for HHR Decision	86	0	01-Oct-10 A	12-May-11 A	0	0																								
HHA-1C009HA	C-109 Hard Heel Rmvl Design & Engineering Support FY12	201	201	03-Oct-11*	19-Jul-12	431	0																								
HHA-1C009J	C-109 Hard Heel Rmvl Procurement	126	29	17-Mar-11 A	30-Sep-11	431	0																								
HHA-1C009JA	C-109 Hard Heel Rmvl Procurement FY12	117	117	03-Oct-11	21-Mar-12	431	0																								
HHA-1C009K	C-109 Hard Heel Rmvl Installation	30	30	22-Mar-12*	02-May-12	314	-25																								
HHA-1C009M	C-109 Hard Heel Rmvl Operations	42	42	20-Jul-12*	18-Sep-12	260	8																								
5.02.02.06.10 C-110 Retrieval		523	193	12-Apr-10 A	25-May-12	272	0																								
HHA-1C010R	C-110 Sample for HHR Decision	385	32	12-Apr-10 A	05-Oct-11	356	-6																								
HHA-1C010H1	C-110 Hard Heel Rmvl Engineering Support FY12	98	98	26-Sep-11*	15-Feb-12	303	0																								
HHA-1C010J	C-110 Hard Heel Rmvl Procurement	237	29	07-Mar-11 A	30-Sep-11	272	0																								
HHA-1C010K	C-110 Hard Heel Rmvl Installation	124	124	03-Oct-11*	30-Mar-12	272	0																								
HHA-1C010M	C-110 Hard Heel Rmvl Operations	40	40	02-Apr-12*	25-May-12	272	0																								
5.02.02.06.11 C-111 Retrieval		601	342	13-Sep-10 A	14-Mar-13	267	0																								
HHA-1C011G	C-111 Retrieval Operations (MS)	31	0	13-Sep-10 A	05-Nov-10 A	0	0																								
HHA-1C011R	C-111 Sample for HHR Decision	107	107	02-Nov-11*	06-Apr-12	267	0																								
HHA-1C011H	C-111 Hard Heel Rmvl Design & Engineering Support	195	195	09-Apr-12	16-Jan-13	267	0																								
HHA-1C011J	C-111 Hard Heel Rmvl Procurement	125	125	05-Jun-12	30-Nov-12	267	0																								
HHA-1C011K	C-111 Hard Heel Rmvl Installation	70	70	04-Oct-12	16-Jan-13	267	0																								
HHA-1C011M	C-111 Hard Heel Rmvl Operations	40	40	17-Jan-13	14-Mar-13	267	0																								
5.02.02.06.12 C-112 Retrieval		917	538	18-Feb-10 A	08-Oct-13	246	0																								
HHA-1C012B	C-112 Retrieval Design	125	27	18-Feb-10 A	28-Sep-11	415	0																								
HHA-1C012C01	C-112 Retrieval Procurement	130	58	17-Jan-11 A	10-Nov-11	384	0																								
HHA-1C012E1	C-112 Retrieval System Installation - Bid/Award Contract	60	0	01-Nov-10 A	29-Dec-10 A	0	0																								
HHA-1C012E	C-112 Retrieval System Installation	144	37	03-Jan-11 A	12-Oct-11	360	-8																								

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

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

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

SLCS-CUR / OPER-CUR		C-Farm Critical Path by WBS							Data Date 22-Aug-11																				
Activity ID	Activity Name	Orig Dur	Rem Dur	Current Start	Current Finish	Total Float	Chg Since Last Month	FY2010				FY2011				FY2012				FY2013				FY2014				FY2015	
								FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2
HHA-1C012F	C-112 Retrieval Startup and Readiness	57	65	11-Jul-11 A	21-Nov-11	332	-20																						
HHA-1C012G	C-112 Retrieval Operations (MS)	62	62	23-Nov-11	23-Jan-12	485	-28																						
HHA-1C012R	C-112 Sample for HHR Decision	107	107	01-Jun-12*	31-Oct-12	246	0																						
HHA-1C012H	C-112 Hard Heel Rmvl Design & Engineering Support	195	195	01-Nov-12	12-Aug-13	246	0																						
HHA-1C012J	C-112 Hard Heel Rmvl Procurement	125	125	03-Jan-13	26-Jun-13	246	0																						
HHA-1C012K	C-112 Hard Heel Rmvl Installation	70	70	03-May-13	12-Aug-13	246	0																						
HHA-1C012M	C-112 Hard Heel Rmvl Operations	40	40	13-Aug-13	08-Oct-13	246	0																						
5.02.02.06.19 C-Farm Infrastructure DST Receiver Tan...		429	29	09-Oct-09 A	30-Sep-11	299	-31																						
HNA-1NFC0B	C-Farm Infrastructure DST Receiver Tank 3 Design	145	0	09-Oct-09 A	22-Apr-11 A	0	0																						
HNA-1NFC0C	C-Farm Infrastructure DST Receiver Tank 3 Procurement	140	0	01-Mar-10 A	13-Jun-11 A	0	0																						
HNA-1NFC0D...	C-Farm Infrastructure DST Receiver Tank 3 Construction	23	0	14-Feb-11 A	17-Aug-11 A	-12	-12																						
HNA-1NFC0E	C-Farm Infrastructure DST Receiver Tank 3 Startup/Readiness	30	5	26-Oct-10 A	26-Aug-11	320	-7																						
HNA-1NFC0D	C-Farm Infrastructure DST Receiver Tank 3 Construction	105	29	17-May-10 A	30-Sep-11	299	-43																						
5.02.02.06.20 C-Farm Infrastructure DST Receiver Tan...		966	327	07-Dec-10 A	06-Dec-12	211	-20																						
HNA-2NFC0B	C-Farm Infrastructure DST Receiver Tank 4 Design	100	52	07-Dec-10 A	02-Nov-11	211	-20																						
HNA-2NFC0BA	C-Farm Infrastructure DST Receiver Tank 4 Design	20	20	03-Nov-11	02-Dec-11	211	-20																						
HNA-2NFC0C1	C-Farm Infrastructure DST Receiver Tank 4 Procurement	20	20	22-Aug-11	19-Sep-11	323	-20																						
HNA-2NFC0C3	C-Farm Infrastructure DST Receiver Tank 4 Procurement	20	20	20-Sep-11	17-Oct-11	323	-20																						
HNA-2NFC0C	C-Farm Infrastructure DST Receiver Tank 4 Procurement	80	80	01-May-12*	22-Aug-12	234	0																						
HNA-2NFC0D1	C-Farm Infrastructure DST Receiver Tank 4 Construction - Bid/Award	60	60	05-Dec-11	01-Mar-12	211	-20																						
HNA-2NFC0D	C-Farm Infrastructure DST Receiver Tank 4 Construction	165	165	02-Mar-12	23-Oct-12	211	-20																						
HNA-2NFC0E	C-Farm Infrastructure DST Receiver Tank 4 Startup/Readiness	70	70	28-Aug-12	06-Dec-12	211	-20																						



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

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

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 1,000,000 gallon 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

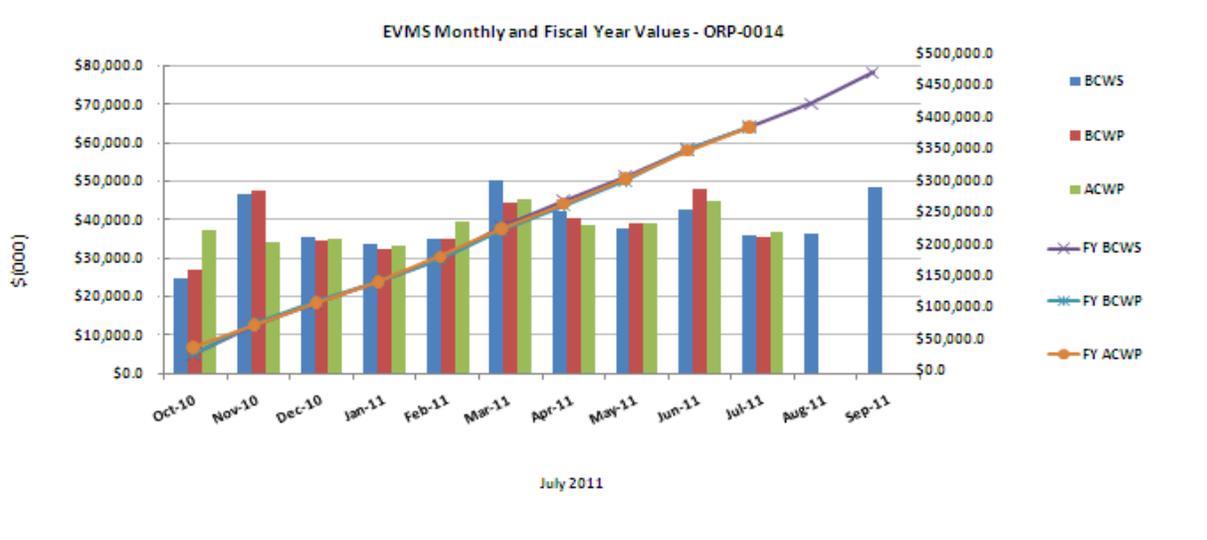
The earned value analysis is a comparison of cost and schedule contract-to-date performance. The earned value performance reporting reflects the format, Work Breakdown Structure (WBS) reporting levels, and variance thresholds as agreed to with the Tank Farms Operations Contractor (TOC) for monthly performance 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.

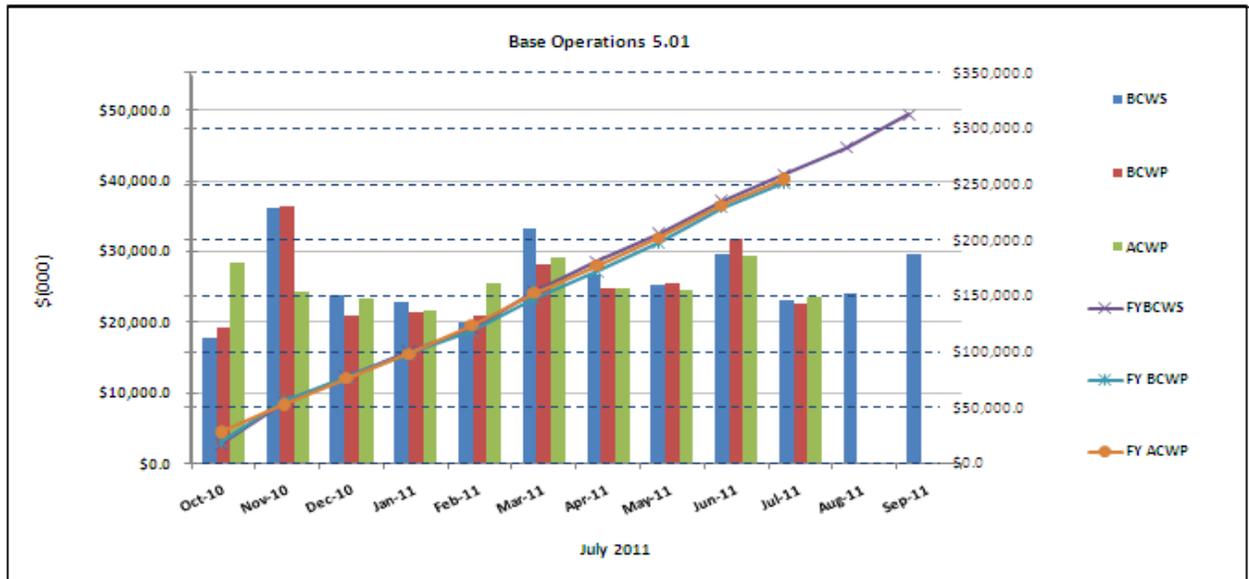
Current Month Significant Variance Contributors



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	\$35,157.1	\$34,800.5	\$39,288.6	0.99	0.89	\$175,935.9	\$175,766.8	\$179,106.4	1.00	0.98
Mar-11	\$50,219.3	\$44,202.5	\$45,098.7	0.88	0.98	\$226,155.2	\$219,969.3	\$224,205.1	0.97	0.98
Apr-11	\$42,344.0	\$40,218.8	\$38,772.0	0.95	1.04	\$268,499.2	\$260,188.1	\$262,977.1	0.97	0.99
May-11	\$37,492.6	\$39,240.0	\$38,843.5	1.05	1.01	\$305,991.8	\$299,428.1	\$301,820.6	0.98	0.99
Jun-11	\$42,816.6	\$48,027.1	\$44,871.5	1.12	1.07	\$348,808.4	\$347,455.2	\$346,692.1	1.00	1.00
Jul-11	\$35,958.2	\$35,669.0	\$36,839.3	0.99	0.97	\$384,766.6	\$383,124.2	\$383,531.4	1.00	1.00
Aug-11	\$36,269.3					\$421,035.9				
Sep-11	\$48,559.2					\$469,595.1				
CTD	\$1,108,864.0	\$1,100,689.0	\$1,038,815.0	0.99	1.06					

- **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

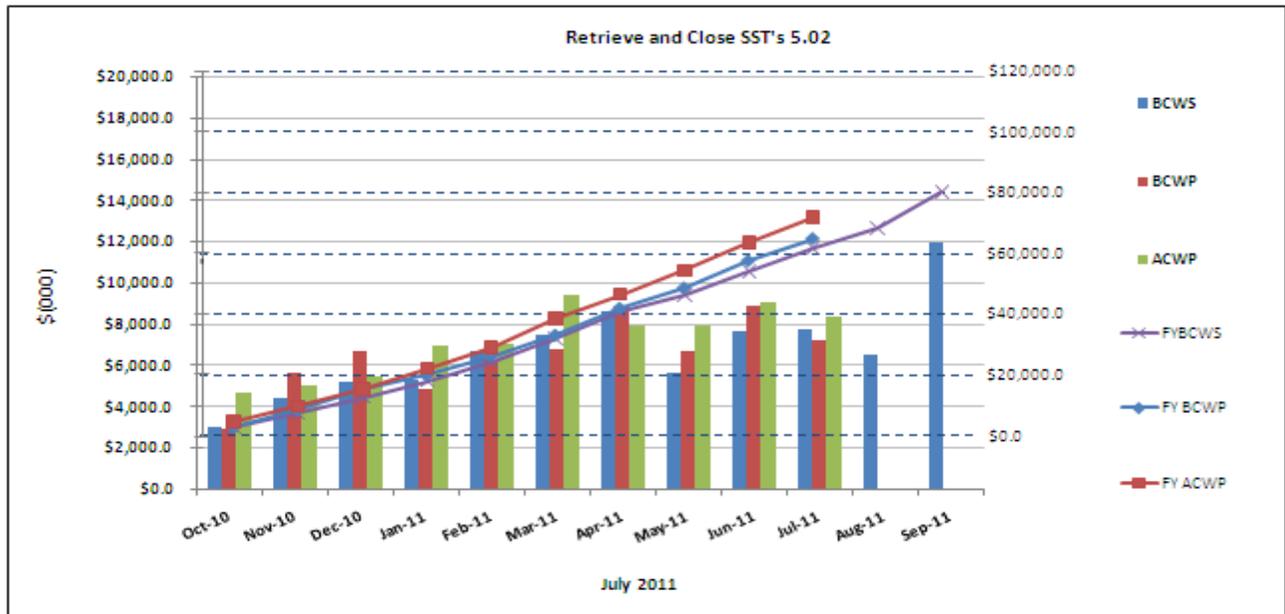


Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-10	\$17,777.2	\$19,285.1	\$28,549.6	1.08	0.68	\$17,777.2	\$19,285.1	\$28,549.6	1.08	0.68
Nov-10	\$36,143.1	\$36,366.3	\$24,452.2	1.01	1.49	\$53,920.3	\$55,651.4	\$53,001.8	1.03	1.05
Dec-10	\$23,775.6	\$20,995.7	\$23,448.8	0.88	0.90	\$77,695.9	\$76,647.1	\$76,450.6	0.99	1.00
Jan-11	\$22,876.6	\$21,370.0	\$21,705.1	0.93	0.98	\$100,572.5	\$98,017.1	\$98,155.7	0.97	1.00
Feb-11	\$20,031.0	\$21,023.0	\$25,607.6	1.05	0.82	\$120,603.5	\$119,040.1	\$123,763.3	0.99	0.96
Mar-11	\$33,329.2	\$28,292.6	\$29,059.6	0.85	0.97	\$153,932.7	\$147,332.7	\$152,822.9	0.96	0.96
Apr-11	\$26,817.9	\$24,728.9	\$24,769.1	0.92	1.00	\$180,750.6	\$172,061.6	\$177,592.0	0.95	0.97
May-11	\$25,422.8	\$25,669.7	\$24,548.6	1.01	1.05	\$206,173.4	\$197,731.3	\$202,140.6	0.96	0.98
Jun-11	\$29,540.0	\$31,789.1	\$29,306.5	1.08	1.08	\$235,713.4	\$229,520.4	\$231,447.1	0.97	0.99
Jul-11	\$23,168.0	\$22,540.5	\$23,499.9	0.97	0.96	\$258,881.4	\$252,060.9	\$254,947.0	0.97	0.99
Aug-11	\$24,147.8					\$283,029.2				
Sep-11	\$29,554.9					\$312,584.1				

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 overruns 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

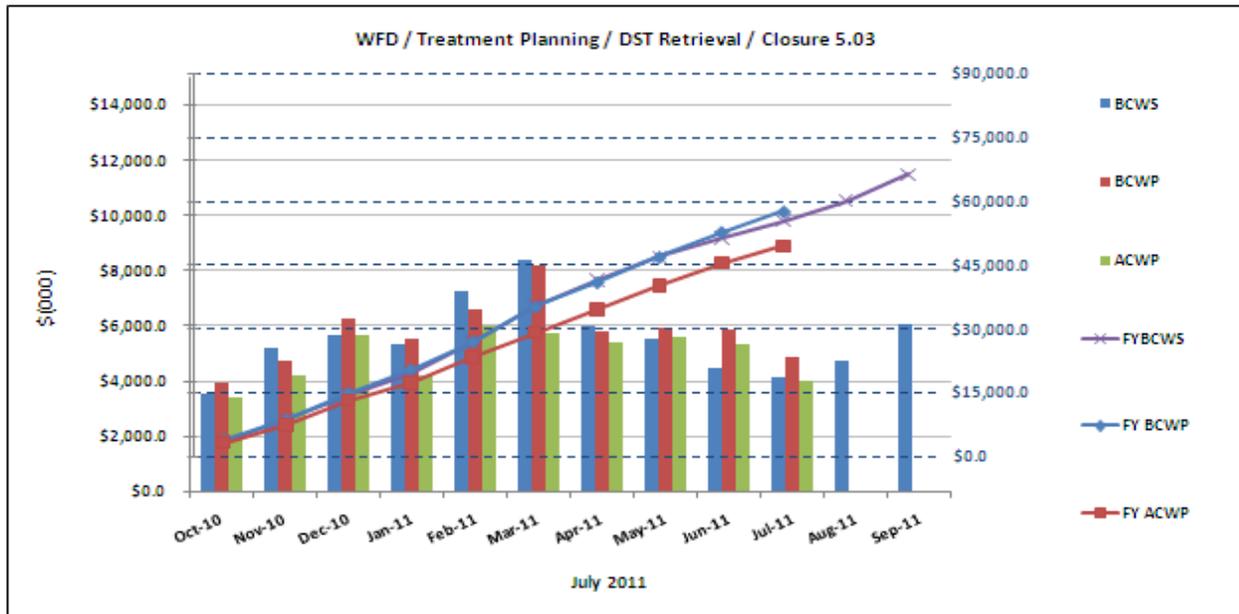


Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-10	\$2,991.6	\$2,932.6	\$4,707.6	0.98	0.62	\$2,991.6	\$2,932.6	\$4,707.6	0.98	0.62
Nov-10	\$4,412.7	\$5,622.7	\$5,006.7	1.27	1.12	\$7,404.3	\$8,555.3	\$9,714.3	1.16	0.88
Dec-10	\$5,209.7	\$6,682.7	\$5,494.0	1.28	1.22	\$12,614.0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

CTD	\$215,268.5	\$211,848.8	\$206,098.7	0.98	1.03
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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 (ORP-0014) Fiscal Year 2011 - Monthly EVMS

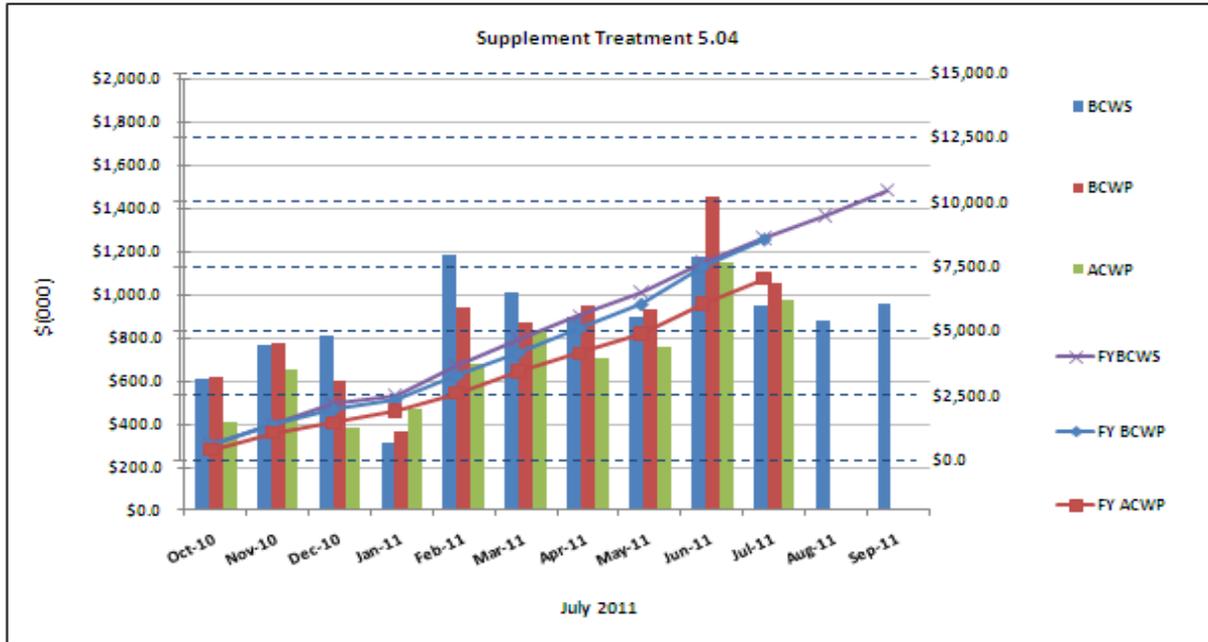


Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-10	\$3,540.0	\$3,944.3	\$3,413.8	1.11	1.16	\$3,540.0	\$3,944.3	\$3,413.8	1.11	1.16
Nov-10	\$5,203.6	\$4,748.8	\$4,184.7	0.91	1.13	\$8,743.6	\$8,693.1	\$7,598.5	0.99	1.14
Dec-10	\$5,677.1	\$6,277.7	\$5,689.4	1.11	1.10	\$14,420.7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

CTD	\$134,330.3	\$134,580.0	\$108,286.0	1.00	1.24
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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

Number	Title	Due Date	Status
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 4th-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 5th-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 5th-lift wall placements, make eight 98-ft slab placements, four 6th-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 4th-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%
Total WTP w/o UB	10,559.6	6,356.3	60%	2,459.7	2,036.0	83%	2,008.8	1,276.9	64%	3,566.3	2,005.4	56%	1,175.6	153.5	13%
Undistributed Budget	0.0	n/a	n/a	n/a	n/a	n/a									
Total WTP	10,559.6	6,356.3	60%	2,459.7	2,036.0	83%	2,008.8	1,276.9	64%	3,566.3	2,005.4	56%	1,175.6	153.5	13%

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 31st and July 31st 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

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

Significant Accomplishments:

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

Number	Title	Due Date	Status
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 4th-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.

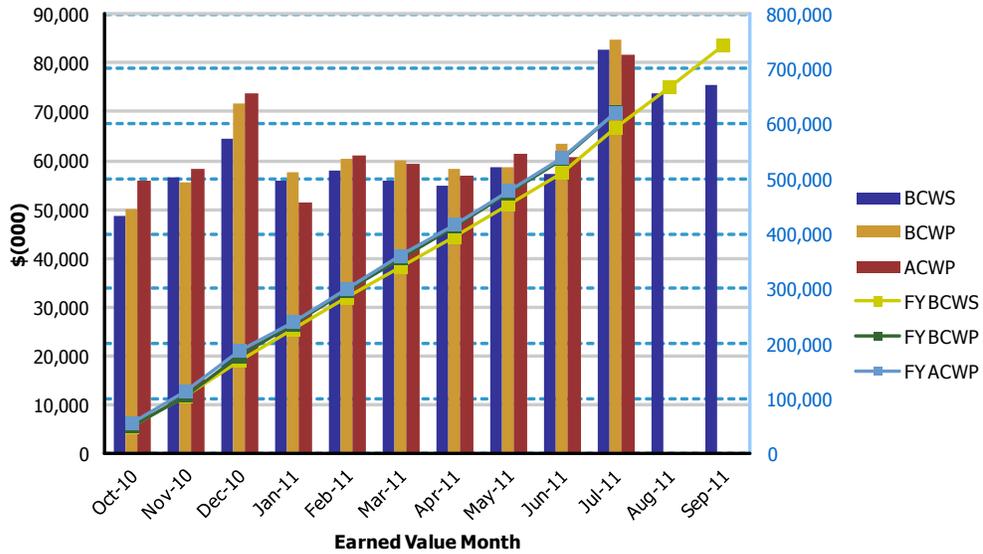
WTP – Fiscal Year-to-Date Performance.

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					
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PRETREATMENT (PT) FACILITY

Number	Title	Due Date	Status
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 5th-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 5th-lift wall placements, make eight 98-ft slab placements, four 6th-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 4th-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:

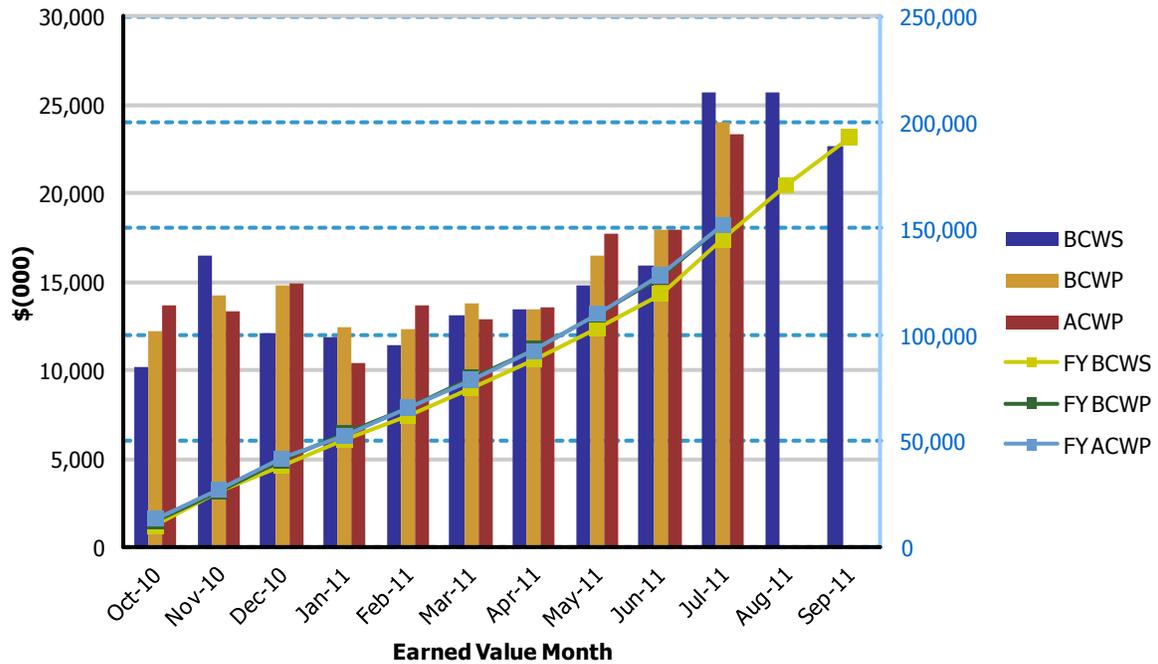
- Vessel Critical Path: Fabrication of vessel HLP-22 continues to be the primary critical path for the PT Facility. The fabrication of the vessel is in progress, but the completion date has slipped from October to December 2012. This is still ahead of the construction need date of February 2013. However,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

HIGH-LEVEL WASTE (HLW) FACILITY

Number	Title	Due Date	Status
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:

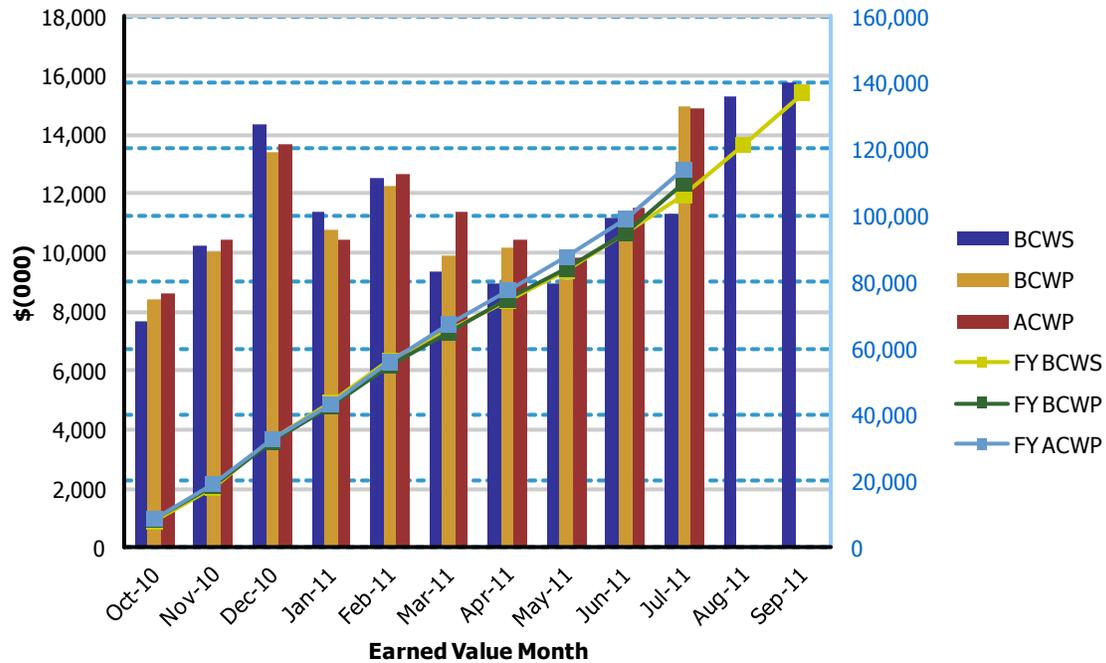
No significant issues at this time.

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

Number	Title	Due Date	Status
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:

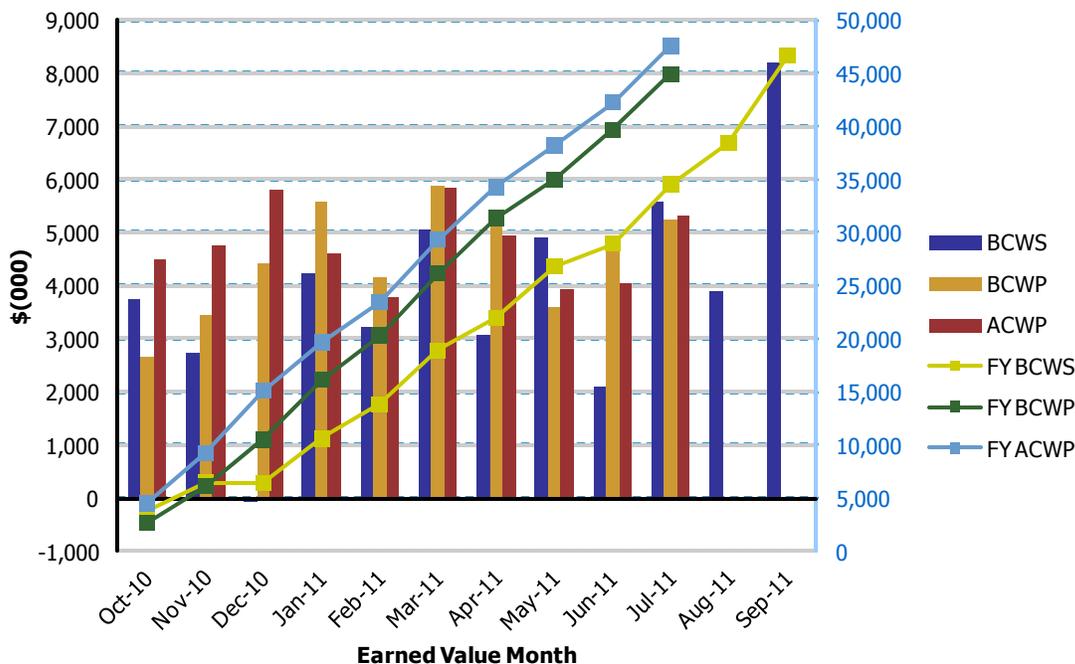
No major issues at this time.

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				

PTD	\$623,144	\$625,850	\$670,644	1.00	0.93
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ANALYTICAL LABORATORY

Number	Title	Due Date	Status
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:

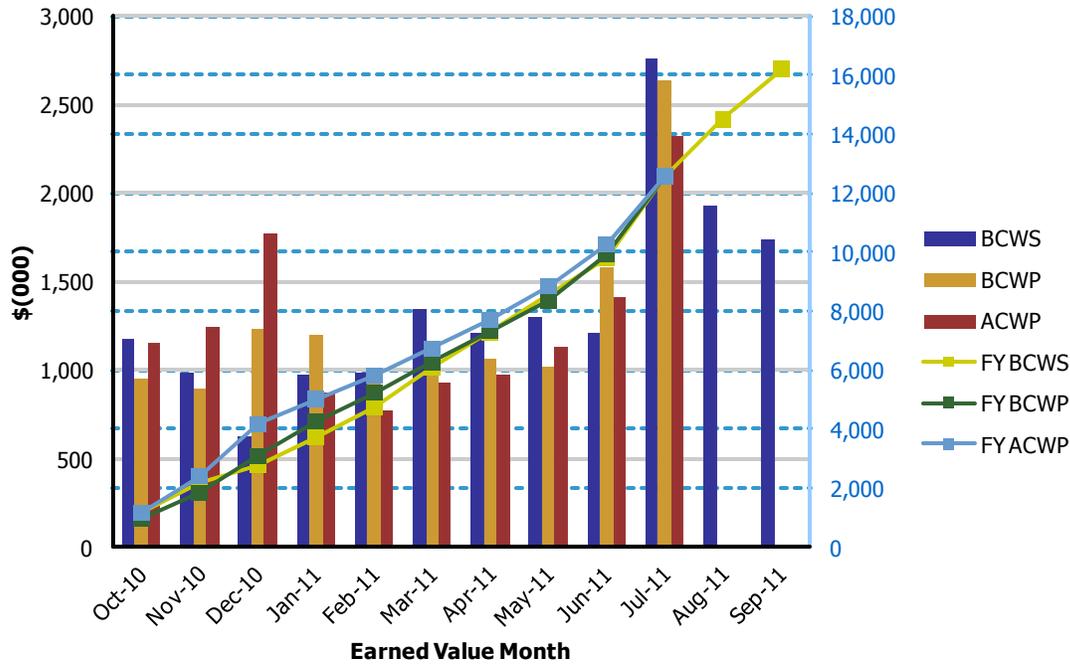
No major issues.

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)

Number	Title	Due Date	Status
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:

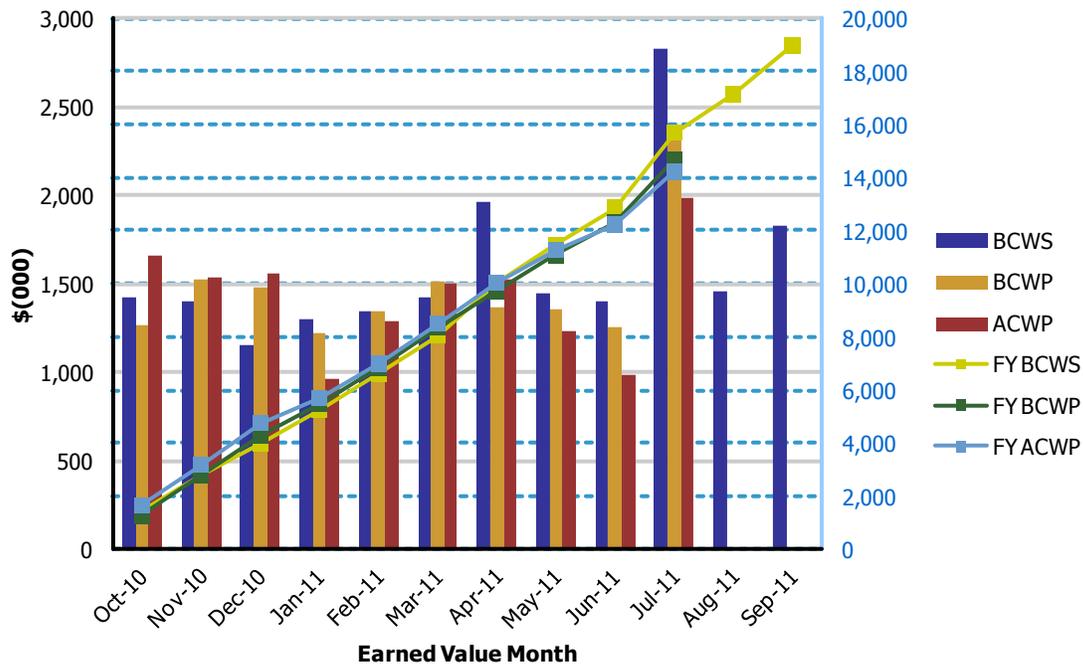
No major issues.

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%
Total WTP w/o UB	10,559.6	6,356.3	60%	2,459.7	2,036.0	83%	2,008.8	1,276.9	64%	3,566.3	2,005.4	56%	1,175.6	153.5	13%
Undistributed Budget	0.0	n/a	n/a	n/a	n/a	n/a									
Total WTP	10,559.6	6,356.3	60%	2,459.7	2,036.0	83%	2,008.8	1,276.9	64%	3,566.3	2,005.4	56%	1,175.6	153.5	13%

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 July 26, 2011**

Milestone Title	Milestone Number	Document	TPA Milestone Due Date (if applicable) ¹	ORP Delivery to Regulators Date ²	Anticipated Regulatory Review Completion Date ³	Final Completion Date ⁴	DOE-ORP Lead	Contractor Lead	Ecology Lead	Comments/Issues
Submit to Ecology for Review and Approval as an Agreement Primary Document, a Phase 2 RCRA Facility Investigation/Corrective Measure Study Report for WMA C	Supports M-045-61	WMA C PA Ecological Risk Assessment Data Package, RPP-RPT-49425, Rev 0		04/19/11			B. Lober	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Feeds input for M-045-61 and all Closure Plans Document was posted on the working group website with email notification on 04/19/11
	Supports M-045-61	WMA C Characterization Summary 2011		09/30/11			B. Lober	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Feeds input for M-045-61 and all Closure Plans
	Supports M-045-61	WMA C PA Initial Model Run Data Package		05/31/12			C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Feeds input for M-045-61 and all Closure Plans
	Supports M-045-61	PA Data Package--Numeric Codes		12/31/10			C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Feeds input for M-045-61 and all Closure Plans RPP-RPT-48490, Rev. 1 addressed this item, signed Rev. 1 RCR on 05/09/11.
	Supports M-045-61	WMA C PA Initial Document		08/31/12			C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Feeds input for M-045-61 and all Closure Plans
	Supports M-045-61	WMA C Characterization Summary 2012		09/30/12			B. Lober	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Feeds input for M-045-61 and all Closure Plans
	Supports M-045-61	WMA C Characterization Summary 2013		09/30/13			B. Lober	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Feeds input for M-045-61 and all Closure Plans
	M-045-61	Phase 2 RCRA Facility Investigation/Corrective Measures Study Report for WMA C	12/31/14	12/31/14			B. Lober	S. Eberlein	J. Lyon	
Submit to Ecology for Review and Approval as an Agreement Primary Document, a Phase 2 Corrective Measures Implementation Work Plan for WMA C.	M-045-62	Phase 2 Corrective Measures Implementation Work Plan for WMA C	06/30/15	06/30/15			B. Lober	S. Eberlein	J. Lyon	
Complete portions of the C-200 Closure Demonstration Plan necessary to complete closure plan development for the SST system.	M-045-80	Description of Radioactive Waste Determination Process	01/31/11	12/28/10	06/30/11		C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Initial ORP letter, 10-TPD-166 sent to ECY on 12/28/10 ECY review extension to 04/18/11 received by ORP on 02/11/11. ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11. 2nd ECY review extension letter 11-NWP-028 received by ORP on 04/20/11. 3rd ECY review extension letter 11-NWP-049 received by ORP on 06/02/11.
	M-045-80 (S) ⁵	RCRA/CERCLA Integration White Paper	01/31/11	12/28/10	05/27/11		C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Initial ORP letter, 10-TPD-166 sent to ECY on 12/28/10 ECY review extension to 04/18/11 received by ORP on 02/11/11 ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11 2nd ECY review extension letter 11-NWP-028 received by ORP on 04/20/11. ECY review comment record (RCR) letter 11-NWP-051 received by ORP on 06/02/11. ORP sent comment response extension letter 11-TF-067 on 06/16/11 to ECY to extend final response date to 09/25/11.

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

² "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.

³ 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.

⁴ "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."

⁵ (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.

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 July 26, 2011**

Milestone Title	Milestone Number	Document	TPA Milestone Due Date (if applicable) ¹	ORP Delivery to Regulators Date ²	Anticipated Regulatory Review Completion Date ³	Final Completion Date ⁴	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	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Initial ORP letter, 10-TPD-166 sent to ECY on 12/28/10 ECY letter for review extension to 04/18/11 received by ORP 01/13/2011 ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11 2nd ECY review extension letter 11-NWP-028 received by ORP on 04/20/11. ECY RCR letter 11-NWP-047 received by ORP on 05/31/11. ORP sent comment response extension letter 11-TF-067 on 06/16/11 to ECY to extend final response date to 09/25/11.
	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	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Initial ORP letter, 10-TPD-166 sent to ECY on 12/28/10 ECY review extension to 04/18/11 received by ORP on 02/11/11 ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11 2nd ECY review extension letter 11-NWP-028 received by ORP on 04/20/11. ECY comments letter 11-NWP-045 received by ORP on 05/27/11. ORP sent comment response extension letter 11-TF-067 on 06/16/11 to ECY to extend final response date to 09/25/11.
Implement and Complete All Remaining Activities in the June 6, 2007 C-200 Closure Demonstration Plan (with any revisions as agreed to by Ecology and DOE).	Supports M-045-81 (S)	Pipeline Feasibility Study, RPP-RPT-45723		12/28/10	06/01/11		C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Feeds input to M-045-81. Initial ORP letter 10-TPD-166 sent to ECY on 12/28/10 ECY review extension to 04/18/11 received by ORP on 02/11/11 ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11 2nd ECY review extension letter 11-NWP-028 received by ORP on 04/20/11. ECY RCR letter 11-NWP-052 received by ORP on 06/03/11. ORP sent comment response extension letter 11-TF-067 on 06/16/11 to ECY to extend final response date to 09/25/11.
	Supports M-045-81	Update C Closure Demonstration Plan		TBD			C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Feeds input to M-045-81 Awaiting language decision for LDR.
	M-045-81	Other Closure Demonstration Deliverables	09/30/14				C. Kemp	S. Eberlein	J. Lyon	
M-45-91 Interim Milestones and Target Dates for SSTs Implementing the Expert Panel's Recommendations (created via TPA Change Request CR M-45-10-01, approved on 01/03/2011)	M-045-91G-T05	Provide Report of the Visual Inspection of 12 SSTs Table P3.3	03/31/11	03/11/11	05/12/11	05/12/11	J. Johnson	S. Sax	J. Lyon	<ul style="list-style-type: none"> ORP submitted report via letter 11-TF-039 on 03/11/11 ECY issued approval letter 11-NWP-041 to ORP on 05/12/11.
	M-045-91C	Implement DQO Process, Test Plan to Evaluate the Chemistries	09/30/11	09/30/11			J. Johnson	S. Sax	J. Lyon	<ul style="list-style-type: none"> 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.
	M-045-91G-T01	Provide AOR Final Doc. for SSTS on 530,000 Gallon Tanks	09/30/11	09/30/11			J. Johnson	S. Sax	J. Lyon	<ul style="list-style-type: none"> Currently on schedule for submittal to ECY in August, 2011.
	M-045-91B	DOE Submit a Sampling and Analysis Plan to Ecology	12/30/11	12/30/11			J. Johnson	S. Sax	J. Lyon	<ul style="list-style-type: none"> SAP has been provided to ECY for informal review.
	M-045-91F-T01	Provide Report of the Liquid Leak Rate Assessments	01/31/12	01/31/12			J. Johnson	S. Sax	J. Lyon	<ul style="list-style-type: none"> On-going bi-weekly meetings.
	M-045-91F-T02	Provide Report of Liner Failures for SSTs	07/31/13	07/31/13			J. Johnson	S. Sax	J. Lyon	<ul style="list-style-type: none"> On-going bi-weekly meetings.
M-045-91G-T02	Provide AOR Final Doc. for SSTS on 750,000 Gallon Tanks	01/31/12	01/31/12			J. Johnson	S. Sax	J. Lyon	<ul style="list-style-type: none"> Currently on schedule for submittal to ECY in November, 2011. 	

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**WORKING ORP Key Documents List
For July 26, 2011**

Milestone Title	Milestone Number	Document	TPA Milestone Due Date (if applicable) ¹	ORP Delivery to Regulators Date ²	Anticipated Regulatory Review Completion Date ³	Final Completion Date ⁴	DOE-ORP Lead	Contractor Lead	Ecology Lead	Comments/Issues
M-45-91 Interim Milestones and Target Dates (continued)	M-045-91D	Submit Analytical Test Plan for Cores Removed from C-107 Plug	03/31/12	06/28/11			J. Johnson	S. Sax	J. Lyon	<ul style="list-style-type: none"> Test plan incorporating ECY comments is on schedule to be accelerated by 9 months. Plan submitted for ECY approval via letter 11-TPD-043 on 06/28/11.
	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	S. Sax	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	S. Sax	J. Lyon	<ul style="list-style-type: none"> 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	S. Sax	J. Lyon	
	M-045-91F-T03	Provide Report on Testing for Ionic Conductivity of SSTs	05/31/13	05/31/13			J. Johnson	S. Sax	J. Lyon	<ul style="list-style-type: none"> 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	S. Sax	J. Lyon	<ul style="list-style-type: none"> 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	S. Sax	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	S. Sax	J. Lyon	<ul style="list-style-type: none"> 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	S. Sax	J. Lyon	
	M-045-91G	Provide Summary Conclusions Report of AOR for SSTS	04/30/14	04/30/14			J. Johnson	S. Sax	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	S. Sax	J. Lyon	
	M-045-91H	Submit Change Pckg (if necessary) to est. Additional Milestones	07/31/15	07/31/15			J. Johnson	S. Sax	J. Lyon	
	M-045-91I	Provide IQRPE Certification of SSTs Structural Integrity	09/30/18	09/30/18			J. Johnson	S. Sax	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 1	06/30/11	05/19/11	05/19/11	05/19/11	B. Lober	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> ECY agreed to review at 90% design completion ECY approval given via email for 1st and 2nd barriers to facilitate ET Basin Construction this year. ECY Completion Letter 11-NWP-044 dated 05/19/11 ORP Final Completion Letter 11-TF-064 sent to ECY on 06/15/11.
	M-045-92	Future Barrier Design 2	06/30/12	05/19/11	05/19/11	05/19/11	B. Lober	S. Eberlein	J. Lyon	
	M-045-92	Future Barrier Design 3	06/30/13	06/30/13			B. Lober	S. Eberlein	J. Lyon	
	M-045-92	Future Barrier Design 4	06/30/14	06/30/14			B. Lober	S. Eberlein	J. Lyon	
Submit to Ecology as an Agreement Primary Document a 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	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Initial ORP letter 10-TPD-176 sent to ECY on 12/28/10 ECY letter for extension to 04/18/11 received by ORP on 02/11/11 ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11 2nd ECY review extension letter 11-NWP-028 received by ORP on 04/20/11. ECY Notice of Violation (NOV) received via letter 11-NWP-038 on 05/25/11. Included 3 criteria, 3 responses, and ECY RCR. ORP initiated dispute of NOV via letter 11-TF-065 on 06/01/11. ORP sent comment response extension letter 11-TF-067 on 06/16/11 to ECY to extend final response date to 08/31/11. 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.

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**WORKING ORP Key Documents List
For July 26, 2011**

Milestone Title	Milestone Number	Document	TPA Milestone Due Date (if applicable) ¹	ORP Delivery to Regulators Date ²	Anticipated Regulatory Review Completion Date ³	Final Completion Date ⁴	DOE-ORP Lead	Contractor Lead	Ecology Lead	Comments/Issues
Submit to Ecology as an Agreement Primary Document a report on all Catch Tanks and associated pipelines that are identified in the SST System Part A, or otherwise used in operations.	M-045-101 (P)	SST System Component Identification and Proposed Closure Strategy (RPP-PLAN-41977)	12/27/10	12/28/10	05/30/11		C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Initial ORP letter 10-TPD-176 sent to ECY on 12/28/10 ECY letter for extension to 04/18/11 received by ORP on 02/11/11 ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11 2nd ECY review extension letter 11-NWP-028 received by ORP on 04/20/11. ECY RCR letter 11-NWP-052 received by ORP on 06/02/11. ORP sent comment response extension letter 11-TF-067 on 06/16/11 to ECY to extend final response date to 08/31/11.
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-062-40	Submit System Plan to ECY/Select Minimum 3 Scenario's	TBD	TBD			R. Koll	C. Burrows	J. Lyon	<ul style="list-style-type: none"> Created via CR M-62-09-01 and establishes System Plan milestones
	M-062-40B	Submit System Plan	10/31/11	10/31/11			R. Koll	C. Burrows	J. Lyon	
	M-062-40ZZ	Submit One Time Tank Waste Supplemental Treatment Tech. Report	10/31/14	10/31/14			S. Pfaff	C. Burrows	D. McDonald	
	M-062-45-ZZ	Technologies Selection Report	04/30/15	04/30/15			S. Pfaff		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	
Complete final design and submit RCRA Part B Permit Modification Request	M-062-31-T01	RCRA Part B Permit Modification--Final Design	04/30/16	04/30/16			S. Pfaff		D. McDonald	

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**WORKING ORP Key Documents List
For July 26, 2011**

Topic Areas	Document	ORP Delivery to Regulators Date ¹	Anticipated Regulatory Review Completion Date ²	Final Completion Date ³	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
	DST Exhausters Notice of Construction and HIA	09/30/11			L. Huffman	F. Miera	J. Lyon	
	Supplemental Treatment Technology Notice of Construction	09/30/13			L. Huffman	F. Miera	J. Lyon	
	Submit Part B Permit Application for Selected Supplemental Treatment Technology	09/30/13			L. Huffman	F. Miera	J. Lyon	
	Wiped Film Evaporator Notice of Construction	09/30/14			L. Huffman	F. Miera	J. Lyon	
	Submit Wiped Film Evaporator Class 3 Permit Modification or Part B Permit Application	09/30/14			L. Huffman	F. Miera	J. Lyon	
IDF Performance Assessment (ORP/WRPS has support role to RL/CHPRC)	09/30/12			T. Fletcher	F. Miera	J. Lyon		
MISCELLANEOUS DOCUMENTS	Process for Coring of an SST	06/28/11			J. Johnson	F. Miera	J. Lyon	• Formal letter 11-TPD-043 submitted to Ecology on 06/28/11.
	Submit Categorical TOC HIA	09/30/11				F. Miera	J. Lyon	
	RPP-32681, Rev. 1, Process to assess tank farm leaks in support of retrieval and closure planning	03/10/11			J. Johnson	S. Sax	J. Lyon	• Released on 03/10/11 with ECY on distribution.
	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.
	Waste Feed Delivery DQO Report	05/26/11			J. Johnson		J. Lyon	• ORP delivered document to ECY via email on 05/26/11.
TWRPS DOCUMENTS	C-101, RPP-22520	TBD			C. Kemp	K. Smith	J. Lyon	• Pending Approval of 2 nd treatment technology
	C-105, RPP-22520	TBD			C. Kemp	K. Smith	J. Lyon	• Pending Approval of 2 nd treatment technology
	C-110, RPP-33116	TBD			C. Kemp	K. Smith	J. Lyon	• Pending Approval of 2 nd treatment technology
	C-111, RPP-37739	TBD			C. Kemp	K. Smith	J. Lyon	• Pending Approval of 2 nd treatment technology

¹ 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.

² 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.

³ 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
July 26, 2011
2440 Stevens Ctr.
Richland, Washington
Meeting Minutes Transmittal

Attachment D: Administrative Record Items

(6 pages including this coversheet)

Peloquin, Michael G

From: Peloquin, Michael G
Sent: Tuesday, July 12, 2011 1:52 PM
To: Lyon, Jeffery; 'kowalski.edward@epa.gov'; 'bartus.dave@epa.gov'
Cc: Bechtol, Susan E; Charboneau, Stacy L; Fletcher, Thomas W; Johnson, Susan C; Kemp, Christopher J; Mccusker, Marc T; Norton, Joanne; Vanderpol, Jeffrey J; Allen-Floyd, Julie C; Conrad, James S (Scott); Dixon, William T; Donnelly, Jack W; Dunning, Abel B; Garcia, Lisa D; Johnson, Gloria J; Johnson, Michael D; Kent, Sandra H; Mulkey, Charles H; Peloquin, Michael G; Penn, Lucinda L; Sax, Scott M; Skwarek, Raymond J; Thomas, Brian R; Joyner, Jessica A; Smith, Donald K (Kent); Breshears, Jerralee A
Subject: Environmental Notification of the Retrieval Spatial Boundaries of 241-C-107
Attachments: WRPS-1103371 Enclosure.pdf; TOC-ENV-NOT-2011-003.pdf

Date: 7/12/2011

TOC-ENV-NOT-2011-0003

Tank Farm: C-107

Distribution: Attached

RE: Environmental Notification of the Retrieval Spatial Boundaries of 241-C-107

Reference: Letter, M. A. Bussell, EPA, to R. J. Schepens, ORP, "Approval of the Toxic Substances Control Act (TSCA) Risk-based Disposal Approval (RBDA) Application for the Mobilization of Single-Shell Tank Solid Waste Using Double-Shell Tank Supernate – Phase II Approval for Tanks 241-C-102, 241-C-104, 241-C-107, 241-C-108 and 241-C-112 and Amended Phase II Approval Conditions for Tanks 241-C-103/C-109," dated June 1, 2006.

This email is being sent to provide spatial boundary information for the 241-C-107 retrieval to the U. S. Environmental Protection Agency (EPA) and Washington Department of Ecology (Ecology) as required by condition #1 of the Phase II approval referenced above. The condition requires U. S. Department of Energy (DOE) to provide written documentation to EPA and Ecology of the final receiving Double-Shelled Tanks (DST) and the associated DST Valve pit supernate/slurry return connection point, and DST return riser.

The attached depicts the spatial boundary and satisfies this condition.

If you have any questions or require additional information, please contact me at 509-539-5357 or Michael_G_Peloquin@rl.gov.

Thanks,

Michael Peloquin
WRPS Environmental Protection

Attachment: Drawing No. H-14-107927, Rev. 0, Mobile Arm Retrieval System PFD Bulk System
(1 page)

Date: 7/12/2011

TOC-ENV-NOT-2011-0003

Tank Farm: C-107

Distribution: Attached

RE: Environmental Notification of the Retrieval Spatial Boundaries of 241-C-107

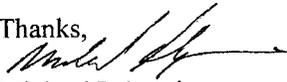
Reference: Letter, M. A. Bussell, EPA, to R. J. Schepens, ORP, "Approval of the Toxic Substances Control Act (TSCA) Risk-based Disposal Approval (RBDA) Application for the Mobilization of Single-Shell Tank Solid Waste Using Double-Shell Tank Supernate – Phase II Approval for Tanks 241-C-102, 241-C-104, 241-C-107, 241-C-108 and 241-C-112 and Amended Phase II Approval Conditions for Tanks 241-C-103/C-109," dated June 1, 2006.

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Thanks,



Michael Peloquin
WRPS Environmental Protection

Attachment: Drawing No. H-14-107927, Rev. 0, Mobile Arm Retrieval System PFD Bulk System
(1 page)

Distribution

Department of Ecology

Jeff Lyons

U.S. Environmental Protection Agency

Ed Kowalski

Dave Bartus

Department of Energy, Office of River Protection

S. E. Bechtol, ORP

S. L. Charboneau, ORP

T. W. Fletcher, ORP

S. C. Johnson, ORP

C. J. Kemp, ORP

M. T. McCusker, ORP

J. F. Norton, ORP

H. N. Taylor, ORP

J. J. Vanderpol, ORP

Washington River Protection Solutions LLC

J. C. Allen-Floyd, WRPS

J. S. Conrad, WRPS

W. T. Dixon, WRPS

J. W. Donnelly, WRPS

A. B. Dunning, WRPS

L. D. Garcia, WRPS

G. J. Johnson, WRPS

M. D. Johnson, WRPS

J. A. Joyner, WRPS

S. H. Kent, WRPS

C. H. Mulkey, WRPS

M. G. Peloquin, WRPS

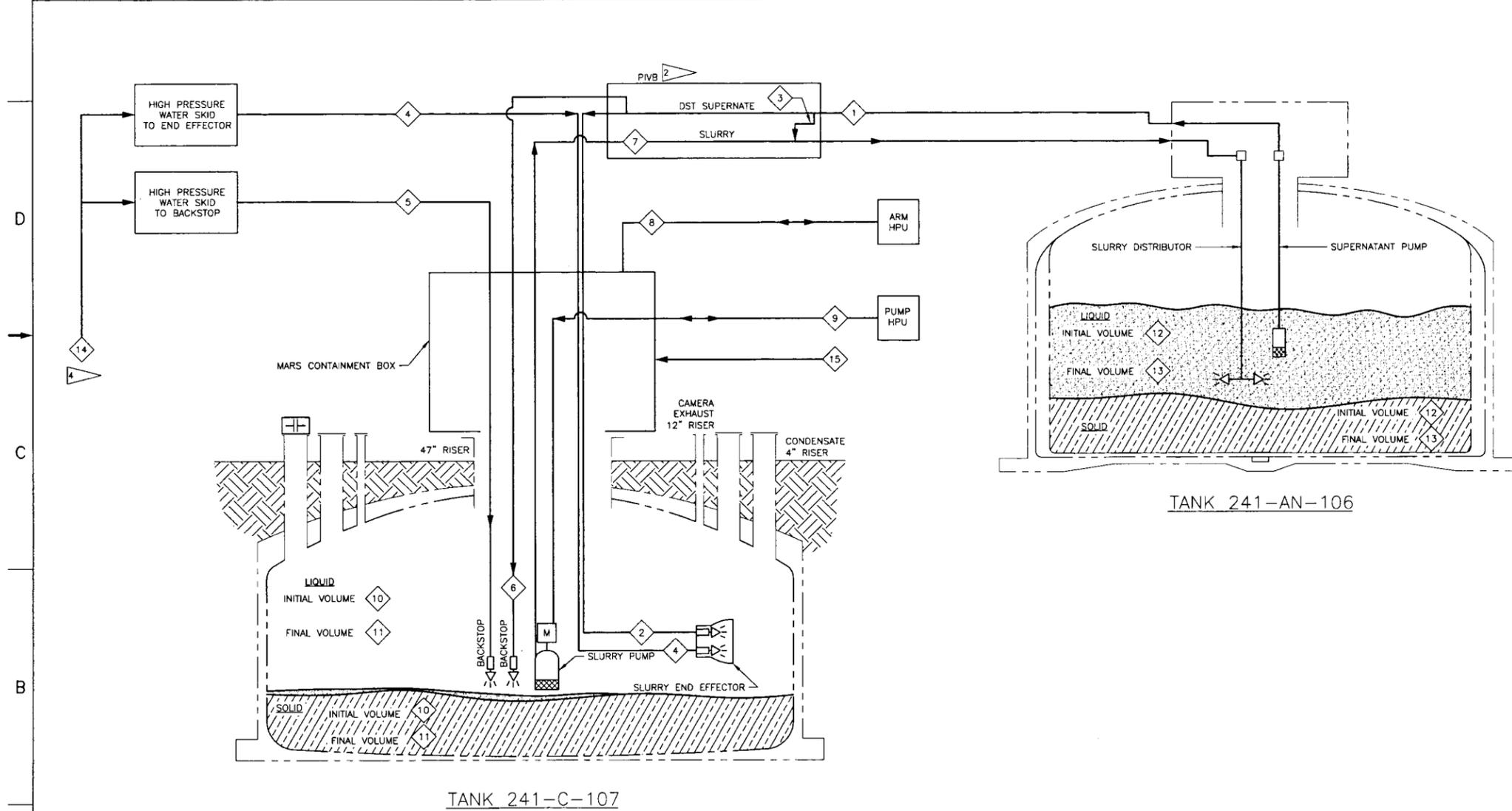
L. L. Penn, WRPS

S. M. Sax, WRPS

R. J. Skwarek, WRPS

B. R. Thomas, WRPS

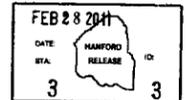
8	7	6	5	4	3	2	1
STREAM NUMBER	1	2	3	4	5	6	7
STREAM NAME	DST RECYCLE SUPERNATANT	SUPERNATANT TO END EFFECTOR	SUPERNATANT BYPASS	HIGH PRESSURE WATER TO END EFFECTOR	HIGH PRESSURE WATER TO BACKSTOP	SUPERNATANT TO BACKSTOP	SLURRY
F	OPERATING PRESSURE (PSIG) RANGE	0-245	0-141	0-245	0-4,950	0-4,950	0-4
	OPERATING PRESSURE (PSIG) NOMINAL	100	100	100	4,950	4,950	4
	TEMPERATURE (°F) RANGE	75-120	75-120	75-120	40-100	40-100	75-120
	TEMPERATURE (°F) NOMINAL	87	87	87	70	70	80
	FLOW RATE (GPM) RANGE	0-142	0-84.4	0-142	0-20	0-20	0-12.5
	FLOW RATE (GPM) NOMINAL	84.4	84.4	84.4	20	20	12.5
	LIQUID FLOW RATE (GPM) RANGE	0-141	0-83.6	0-141	0-20	0-20	0-12.4
	LIQUID FLOW RATE (GPM) NOMINAL	83.6	83.6	83.6	20	20	12.4
	SOLIDS FLOW RATE (GPM) RANGE	0-1.4	0-0.84	0-1.4	0	0	0-0.13
	SOLIDS FLOW RATE (GPM) NOMINAL	0.84	0.84	0.84	0	0	0.13
	LIQUID VOLUME (GALLONS)	1,408,645	1,378,674	7,896	46,800	25,200	22,275
	SOLIDS VOLUME (GALLONS)	14,229	13,926	77.7	0	0	225
E	TOTAL VOLUME (GALLONS)	1,422,874	1,392,600	7,774	46,800	25,200	22,500



- GENERAL NOTES:** (UNLESS OTHERWISE SPECIFIED)
- VALUES CONTAINED IN THIS TABLE ARE DEVELOPED IN RPP-CALC-42345.
 - PORTABLE INSTRUMENT AND VALVE BOX.
 - STREAM IS INTERMITTENT. NOMINAL FLOWS ARE SHOWN FOR INFORMATION PURPOSES ONLY.
 - STREAM IS SHOWN TO HIGH PRESSURE WATER SKIDS ONLY FOR CLARITY. RAW WATER WILL ALSO BE AVAILABLE FOR LINE FLUSHES AS NECESSARY.
 - ARM HYDRAULICS PERFORMANCE CHARACTERISTICS WILL BE UPDATED UPON TESTING COMPLETION.
 - STREAM IS INTERMITTENT. NOMINAL FLOWS ARE SHOWN FOR INFORMATION PURPOSES ONLY. STREAM IS NOT SHOWN INSIDE TANK FOR CLARITY.
 - VALUES MAY BE UPDATED UPON RELEASE OF TESTING DOCUMENTATION AND ANY SUBSEQUENT MODIFICATIONS.

LEGEND

- X PROCESS STREAM IDENTIFIER
- - - EXISTING STRUCTURE
- PROCESS LINE
- NEW STRUCTURE



NAME		DATE	COMPANY
HY POISS		2/28/11	CSG
DESIGN AUTHORITY		2/28/11	WSPS
SCALE AS SHOWN		824196	SHEET 1 OF 1

U.S. DEPARTMENT OF ENERGY
Office of River Protection
MOBILE ARM RETRIEVAL SYSTEM PFD BULK SYSTEM
H-14-107927-0

DWG NO	TITLE	REF NUMBER	TITLE	DESCRIPTION	REV	DATE	BY	CHKD	APP'D
H-14-107924	DRAWING TRACEABILITY LIST								