

ORP Project Managers Meeting  
July 26-27, 2010  
2440 Stevens Ctr.  
Richland, Washington  
**Meeting Minutes Transmittal**

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J. J. Lyon	Ecology	H0-57
J. D. McDonald	Ecology	H0-57
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J. Price	Ecology	H0-57
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J.W. Donnelly	WRPS	R1-51
J. J. Luke	WRPS	R1-51
P. E. Peistrup	WRPS	R1-51
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ADMINISTRATIVE RECORD – Heather Childers (two copies): H6-08

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

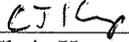
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The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above dated Project Managers Meeting.

  
Bob Lober, DOE-ORP

with page 4  
minor Edit update AS  
noted

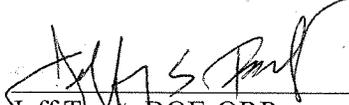
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Chris Kemp, DOE-ORP

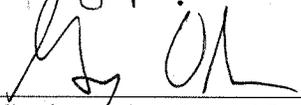
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Wahed Abdul, DOE-ORP

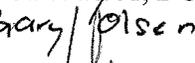
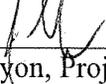
Date: 9/28/10

  
Jeff Trent, DOE-ORP

Date: 9/28/2010

  
Garth Reed, DOE-ORP

Date: 9/28/2010

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

Date: 9-27-10

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

Date: 9-28-10

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Purpose: ORP Project Managers Meeting

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July 26-27, 2010  
2440 Stevens Ctr.  
Richland, Washington  
**Meeting Minutes Transmittal**

**Table of Contents**

Meeting Minutes	8 Pages
Attachment A, Action Tracking	3 Pages
Attachment B, List of Attendees	4 Pages
Attachment C, Presentation Materials	73 Pages
Attachment D, Administration Record Items	3 Pages

ORP Project Managers Meeting  
July 26-27, 2010  
2440 Stevens Ctr.  
Richland, Washington  
**Meeting Minutes Transmittal**

**1.0 Administrative Items**

Previous month's Project Manager Meeting minutes (from 6-22-10) provided for approval.

Consent Decree (CD) Status: The CD response to public comments is being worked by the Parties.

Acton Items will be addressed at the end of each portion of the report. Attachment A is the current remaining open actions. Closed actions will be carried until the next monthly meeting.

The list of attendees for the July 26-27, 2010 PMM is provided as Attachment B. The Monthly Milestone Review Meeting Status Report and handouts are provided as Attachment C. The draft status report was provided to Ecology electronically on July 20, 2010. No comments were received.

The next PMM is scheduled for September 28, 2010.

The next Quarterly Milestone Review Meeting is scheduled for August 19, 2010.

Administrative Record Items (Attachment D)

Meeting Minutes from a June 9, 2010 Annual Meeting to discuss interim measures completed in FY 2010 and planned for FY 2011 were provided as closure for a deliverable ORP had from the July Project Summary.

**2.0 Review of the ORP Project Summary Discussion Agreements and Commitments (Attachment C, Project Summary/Handouts)**

(NOTE: The Tank Farms scope of the meeting was held on July 26, 2010 due to scheduling conflicts.)

**Tank Farms**

M-45-55: The meeting held 6-24-10 addressed the status of the Phase 1 RFI report, which was updated and submitted to Ecology April 22, 2010. It was agreed that these meeting minutes will record the agencies' agreement that this document is complete. The milestone will stay in the Project Summary for the August Quarterly meeting as completed and then be removed from the Project Summary.

M-45-56E: This milestone is also agreed to be complete as it was closed out in January 2010, and will be deleted from the Project Summary after the August Quarterly meeting.

ORP Project Managers Meeting  
July 26-27, 2010  
2440 Stevens Ctr.  
Richland, Washington  
**Meeting Minutes Transmittal**

M-45-56F: The annual meeting for this milestone was held June 9, 2010, and the minutes from that meeting are hereby provided to Ecology. These minutes were reviewed, revised slightly (pen and ink change to Item 2 on page 1), and concurred with on 7-26-10. These minutes will be submitted to the Administrative Record via an attachment to these meeting minutes (see above).

M-45-58: ORP requested and was granted an extension to 8-13-10 to prepare a response to Ecology's comments on the Phase 2 CMS Master Work Plan. ORP stated the response will be provided to Ecology on or before 8-16-10.

M-45-60: ORP is updating the Phase 2 RFI/CMS Work Plan to include a revised characterization schedule. They are also revising the Sampling and Analysis Plan to discuss the potential of deleting sampling for sulfide due to the difficulty of adequate analysis for it. ORP provided Ecology a draft Change Notice package for these revisions. Ecology stated they will review the package and make changes if appropriate. It was agreed the review will be done this week. A meeting was tentatively scheduled for Friday 7-30-10 to discuss the Change Notice package.

Ecology stated it appears this milestone is complete and that this issue could be moved into the Significant Accomplishments or Planned Actions; ORP requested to carry it as a milestone status.

**Significant Accomplishments:**

- TY Interim Barrier: Grading is underway in preparation for test lay down of asphalt this week for the Evapo-Transporation basin.
- Ecology requested ORP provide them a copy of the SGE survey of A and AX Farms (**Action 100-201**).
- Continue data analysis of SGE survey of URP-86. ORP noted this will be discussed at the meeting Friday (see above).
- The proof-of-principle performed in the BY proximity for known leaks is showing some promise. ORP has talked with analysts and are very pleased with signal production; they will track and have a meeting as it develops.

**Significant Planned Actions:**

ORP has submitted the updated work plan to Ecology. Ecology will be at C and BY Farms for the next set of pushes.

ORP Project Managers Meeting  
July 26-27, 2010  
2440 Stevens Ctr.  
Richland, Washington  
**Meeting Minutes Transmittal**

M-45-00: Series

Significant Accomplishments:

Construction Acceptance Testing for C-111 was completed and is planned for an 8-23-10 startup. Installation of the hydraulic arm for C-104 was scheduled for startup 7-22-10 and should be completed by end of year.

Significant Planned Activities:

Construction of C-108 heel retrieval system was scheduled to start 7-22-10. ORP noted the outage at 222S will be starting next week for a two week outage. Ecology asked if the electricity stayed on during the outage and ORP stated the ventilation remains on but electricity for the instruments will be off. The facility will have three days to bring the equipment back up and test it to be sure it is calibrated and running well. Ecology asked to have something in writing that says everything is working, some verification from QA or Operations.

Ecology stated they will be going to WSCF when the samples are sent out to ensure there are no problems with sample transfer, but noted they don't expect any. Ecology asked if ORP expects to operate the C-104 hydraulic arm. ORP stated they plan to restart and complete removal of the obstruction by the end of CY 2010.

C-Farm Life-Cycle Baseline: ORP noted that WRPS is preparing a Baseline Change Request to reflect the start of FY11 that moves some dates forward (closer). Ecology asked if the baseline in this month's Project Summary shows those new dates and ORP stated the information is what is in the baseline now. ORP is anticipating that, as they gain more understanding with hard-to-retrieve heel samples, they may be able to eliminate some sampling in the future.

SST Retrieval: These milestones are being replaced by the proposed Consent Decree. Ecology and DOE will each have the right to select a minimum of three scenarios that will be analyzed in the System Plan, and it is ORP's hope to have the Ecology scenarios by the end of CY 2010. ORP noted that the intent was to run a scenario with the QA data package so everybody would have the same knowledge; this needs to be done by the end of August 2010.

Tank 241-C-106: ORPs response to the NRC Request for Additional Information is dependent upon publishing the planned activities for the entire C Farm.

Tank 241-S-102: As ORP has previously stated, they do not plan to enter this tank until they gain more experience with tank heels. Ecology noted they would expect ORP to work on another tank to replace this work. This is not ORPs understanding and this issue has been elevated to the ORP Legal department.

ORP Project Managers Meeting  
July 26-27, 2010  
2440 Stevens Ctr.  
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**Meeting Minutes Transmittal**

Tank 241-S-112: ORP stated this tank has been retrieved but they are holding off on a closure plan and final risk assessment until the final EIS is issued in Spring or Summer of 2011.

Interim Stabilization Consent Decree: Ecology asked just how much liquid was in Tank S-102 and ORP responded there are about 33,000 gallons of liquid total. Ecology noted ORP is reporting only 2,400 gallons of supernatant liquid, but they should be reporting on the entire amount of liquid in the tank. Supernatant is liquid above the waste with no free-standing surface on top of salt cake. ORP stated they will correct and report on the total liquid rather than supernatant. Ecology asked how frequently they were required to sample the tank. ORP stated the requirement was annually but that they are sampling every quarter.

In Tank Characterization and Summary: ORP noted a correction on the Tank Sampling last bullet, C-108 should be C-109.

Tank Farms Cost and Schedule Performance: The agencies reviewed the budget information and no questions were asked. Contract-to-Date Performance, ORP stated they are performing better but it is still less than they had planned.

#### Action Items

- 100-167 – Ecology requested that the spreadsheet of document deliverables be provided as this will assist them in scheduling their work load. ORP stated they have provided some information, but they are not confident that it has everything on it. ORP stated they will check with others and get back to Ecology.
- 100-178 and 100-179 – ORP noted that discussions are ongoing but this issue is with Legal and cannot be discussed.
- 100-189 – ORP stated they will not be able to get this done until after a Budget Change Request is approved.
- 100-194 – There were discussions on the status of the Work Plan. ORP stated 100-194 is closed and Ecology is aware of their status.
- 100-195 – ORP stated this is with Legal. ORP's opinion is that although they have done what they could raising this issue to the Office of Chief Counsel, this should still be tracked until it is closed. Everyone should understand that the Legal department does not necessarily abide by the project schedules.
- 100-196 – This issue was covered with the UPR ~~85-86~~ discussion earlier. Ecology asked about the fact that 86 is close to a well and ORP stated there were no issues with any of the sampling. It was determined the parties will get into details in this Friday's meeting. ✓

TPA Milestone Statistics: ORP stated the CD should be signed off in General Counsel and noted they are working to the CD and milestones. Hopefully this will make the transition to the CD with few problems. ORP noted Ecology will see a future Project Summary that reflects the CD milestones. Ecology noted we need to make sure we know what trends and curves reflect actuals. Both sides need to communicate.

ORP Project Managers Meeting  
July 26-27, 2010  
2440 Stevens Ctr.  
Richland, Washington  
**Meeting Minutes Transmittal**

Ecology asked that ORP provide them with the updated Project Summary to show what it will look like. In order to be sure everybody understands what it looks like, it should be discussed at the next PMM (September) and then taken to the next Quarterly Meeting (November).

(NOTE: The WTP meeting was held on July 27, 2010.)

### **Waste Treatment Plant**

Material at Risk (MAR) – ORP stated most all technical issues have been closed and there are no exclusions on outstanding technical aspects.

Hydrogen in Piping and Ancillary Vessels (HPAV) – The Independent Review Team has completed their review and the results have been briefed with DNFSB. There were a number of recommendations and 35 findings but these do not prevent safety class work and gas generation models are appropriate. ORP will be addressing the series of recommendations and findings and will be quickly addressing anything that could affect the critical path.

During the next six months to a year ORP will be running tests and performing risk analysis to identify safety class issues. Ecology asked if there was a report available and ORP stated they will provide the report to Ecology. Ecology asked if they were notified when ORP was briefed by the Board and if the Board is planning to respond; ORP stated it is up to the Board. ORP noted there will be a public meeting in October and that ORP expects them to roll up support of or issues with all activities.

ORP stated they have addressed the technical issues with the Quantitative Risk <sup>Analysis</sup> Monitoring and they are executing HPAV which includes oversite to confirm that the approach is sound. Ecology asked if what ORP is doing could be subject to scrutiny by the Board and ORP stated this review provided them with that confirmation. This review was a totally outside activity and not WTP project staff. Ecology asked if ORP would get confirmation agreement from the Board and ORP stated that would be good but they do not expect to get anything. This kind of information will come out in the October meeting. ORP stated that how the project follows up with the teams' recommendations will be reviewed as it is assured ORP will address the findings. Ecology asked to be notified of the public meeting and ORP stated they will keep Ecology informed (meetings are October 7-8, 2010).

### **Pre-Treatment Facility:**

ORP noted construction is doing well and they are completing all walls of the 4<sup>th</sup> lift. The crane rail is affecting the piping work as it is a new design of support. Technical issues are key and ORP is already red lining and they plan to complete the integration plans for technical issues by September.

The vessel analysis is behind schedule and ORP is looking at outside companies that can do this analysis. Ecology asked if ORP is still trying to get a new schedule on the street in

ORP Project Managers Meeting  
July 26-27, 2010  
2440 Stevens Ctr.  
Richland, Washington  
**Meeting Minutes Transmittal**

September and ORP confirmed yes. The concurrence to close 33 of 38 vessel assessments leaves just the 5 non-Newtonian vessels; a briefing is scheduled for next Wednesday to discuss these.

Results of the independent review by SRNL are being summarized and ORP is 'crisping up' the definition of the technical issues. There will be a joint management meeting on Wednesday with open dialog to formulate a path forward, the results of which should be available next month.

ORP is working on how to separate out fabrication of the jumper frame from jumpers themselves as there are only a limited number of companies that can perform the combined fabrication. Performance is showing as less than 1.0 due to technical issues on the engineering side and construction ~~has been slow because we were so far ahead of schedule.~~

ORP is expecting a good amount of concrete placement in the next couple months. Ecology asked if there were any emerging concerns on the time it is taking to design the vessels. ORP stated they do not see any concerns as the schedule is for 2012 and noted they are working with the vendor on modifications of the nozzle. Ecology noted it will get interesting when it comes to permitting so they need to work very close together.

#### High Level Waste Facility:

ORP stated that engineering is the focus of the critical path and that it is ahead of schedule, which shows completion in late September but ORP notes they should be complete by the end of August. ORP was scheduled to review the contractor report but they have been working with the contractor and feel comfortable with what they are doing. The vendor is ahead of schedule and work is going well.

The isometric drawings of the off gas components won't be completed until August but it is still ahead of schedule. ORP will be holding a more detailed meeting with the subcontractor to get sequencing of work ready to go. Engineering is doing well on schedule but is struggling from the cost side. ORP noted they are still reviewing the contract activity milestone on HVAC design and expect a response by the end of next week. The goal for the doors is getting 12 delivered by the end of this year. July was another good month on slabs as they completed all to the 37' level. The C5 shield door for Melter 2 is being built and progress is good. EVMS is showing a real strong trend and ORP expects to stay that way on CPI.

#### Low Activity Waste:

Making good progress on electrical wall installation, the pipefitters have about one-third of the walls complete, 75% of piping is in. Acquiring remaining procurements and installing components is on the critical path; off gas treatment is on the critical path for this facility through construction completion. August 2014 is the current forecast for construction to be complete. ORP is evaluating the bid for the exhausters now.

ORP Project Managers Meeting  
July 26-27, 2010  
2440 Stevens Ctr.  
Richland, Washington  
**Meeting Minutes Transmittal**

Bids for the Thermal Catalytic Oxidizer system were received this month and ORP is evaluating them now; they may be delayed because bids are higher than anticipated. ORP stated they may slip the date to be sure they proceed on the correct path forward. Construction Melters are essentially complete; looking at some design documents with question on traceability from NQA 1 perspective. ORP does not expect any changes to the Melters, this is a document issue to verify pedigree.

ORP noted an event that will occur this fall is receiving the melters and storing them inside the LAW. They later will be moved to another building but this is cheaper than keeping them at the vendor. Ecology asked if the vendor is building a spare melter and ORP stated yes, they will be. The stainless steel housing requires a lot of assembly before it is useable and ORP noted there will be a lot of effort to get this ready for installation.

ORP noted they will have a press release on completion of the cooling panels as this reflects all work done on the pour caves. The CPI has been holding at 0.87 and ORP is throwing ideas on the table on how to improve it; most issues were procurement. The schedule is going well.

Analytical Laboratory (LAB):

Good progress on most major procurements; some fume hoods design is the biggest issue. A significant milestone just confirmed that the process marries up to the design and prevents future design problems. Building HVAC is about 99% done and 2/3 complete with piping.

Ecology asked if there are components that need to have Preventative Maintenance; ORP answered 'yes.' Frequency is already part of the normal maintenance procedure. The current process for determining what needs maintenance is - when the equipment arrives, it is entered into a database and maintenance is scheduled. Ecology asked if they were to go to a material sampling facility they should be able to find some records for them and ORP stated yes. The LAB is above target on cost and no significant issues on schedule.

Balance of Facility:

Making good progress; Emergency Diesel Generator (EDG) is the main focus. About \$70-80M in procurement was put on hold from March to June; performed tests and calculations and went out with RFP; expect it to be awarded in August.

ORP is looking for up to 70 MW for permanent plant power; the EDG is the only safety system. The HLW, PT, and LAW can go two hours without having battery power to run the ventilation system. Reliability on offsite power is very good at Hanford so a decision was made not to have backup power for the melter, but they will also run the HVAC. ORP stated there are two independent electrical services as well as the diesel generator.

ORP Project Managers Meeting  
July 26-27, 2010  
2440 Stevens Ctr.  
Richland, Washington  
**Meeting Minutes Transmittal**

The extension to 7-26 for WRPS to complete the report on options for upgrading the A6 Substation to deliver 70MW needs to be moved out. When WRPS put the schedule together it was too aggressive and they did not provide enough time for MSA to get on board. The report should be completed in September. There is nothing in the critical path that would be affected due to the report delay. ORP stated the power supply to A6 will need a maximum of 58 MW in 2018/19. Now A6 rates at 55MW so ORP is building in contingency by going to 70MW.

Ecology asked if this were necessary and ORP stated they would feel more comfortable with 70MW. ORP noted that all of the LAW is uses only about 8-1/2 to 9MW. ORP stated that once the report is in they will share it with Ecology.

Cost performance is good, they are a little behind in schedule but this is not critical path and they will recover.

ORP noted that looking at the bigger picture for FY 2011 there is a potential for continuing resolution and they ensured Ecology the project is moving forward.

Regarding the loss work time case Ecology asked if the employee were wearing steel toed shoes. ORP answered no, but noted that they would not have helped in this situation. ORP noted they have had a couple of reportable injuries and they will be increasing oversight in the field. ORP also noted they just received the VPP Star status. ORP conducted safety briefings last week and are conducting follow up actions and briefings.

ORP noted they are on the right pathway for completing technical issues and focusing on construction. With the Board public meeting in October and internal reviews ORP should be in good shape by the end of the calendar year and ORP noted their focus and goal is to achieve that. Ecology asked if implementing the CD would have an impact on their schedule and ORP stated they have a contingency of 3-6 months.

### **3.0 Agreements:**

It was agreed that the primary document associated with M-45-55 is complete. It was also agreed that M-45-56E was also complete. Various commitments by ORP and Ecology are captured in Section 2.0 of these meeting minutes.

ORP Project Managers Meeting  
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Richland, Washington  
**Meeting Minutes Transmittal**

**Attachment A: Action Tracking**  
**(3 pages including this cover sheet)**

ORP Project Managers Meeting  
 July 26-27, 2010  
 2440 Stevens Ctr.  
 Richland, Washington

**Meeting Minutes Transmittal**

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Date Opened	Status
O	100-167	ORP	W. Russell	General	Develop spreadsheet of document deliverables, scheduling tool of when due, status of Ecology review	3-23-10	ORP will update and provide to Ecology.
O	100-176	ORP	C. Kemp	Tank Farms	Within 30 days after the CD is signed, set up a meeting to discuss the M-45-15A-D and M-45-13A-D milestone path forward.	4-27-10	M-45-05A and M-45-03A will be removed by CD. M-45-15 and M-45-13 will remain in CD.
O	100-177	ORP	J. Long	Tank Farms	Provide Ecology with the WRPS evaluation report on S-102.	4-27-10	Remains open, is related to CD.
O	100-178	ORP	J. Long	Tank Farms	Once the report from Action 100-177 is received, schedule a meeting with Ecology.	4-27-10	Pending proposed CD. 7-27-10: With ORP Legal.
O	100-180	ORP	J. Diediker	Tank Farms	Provide Ecology with all areas doing Drawing Reconstitution activities.	4-27-10	Will double check to see if there is a list.
X	100-181	ORP	J. Diediker	Tank Farms	Provide Ecology (J.Lyon) with detailed budget data.	4-27-10	Closed: 7-2-10 Based on email dated 7-2-10.
X	100-183	ORP	J. Young/ W. Abdul	WTP/PT	Provide Ecology with information on scheduling activities that support the permit; provide more detailed information on CXP/MAR/HPAV activities; and provide a list of items to review.	4-27-10	<b>(Note: combined w/100-182)</b> Closed: 7-14-10 ORP/BNI met with ecology and discussed CXP/MAR/HPAV
O	100-189	ORP	C. Kemp	Tank Farms	Provide Ecology a briefing on the Critical Path for A-AX Farms	5-20-10	9-10-10: Can provide after the Budget Change Request has been approved by ORP. This meeting is scheduled for 9-20-10.
O	100-190	ORP	T. Fletcher	Tank Farms	Provide an explanation to the Tribes of the process for the 242-A Evaporator Campaign and the MARS	5-20-10	

ORP Project Managers Meeting  
 July 26-27, 2010  
 2440 Stevens Ctr.  
 Richland, Washington

**Meeting Minutes Transmittal**

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Date Opened	Status
X	100-193	ORP	W. Russell	General	Schedule future PMMs on attendees Outlook calendars.	6-22-10	7-13-10: Closed Meeting notice scheduled through 1-25-11.
X	100-194	ORP	R. Lober	Tank Farms	Set up meeting on Master Work Plan for M-45-55; also address M-45-58 issues.	6-22-10	7-26-10: ORP stated this is closed.
O	100-195	ORP	R. Lober	Tank Farms	Set up meeting to discuss M-45-60 Work Plan disclaimer language.	6-22-10	7-27-10: With ORP Legal.
O	100-196	ORP	R. Lober	Tank Farms	Set up meeting on 3-D SGE survey proof-in-principle from C Farm. Include iodine tech issue.	6-22-10	7-27-10: This was covered under UPR 83-86 discussions.
X	100-197	ORP	C. Kemp	Tank Farms	Have discussion on which tanks to sample, the C-110 TSAP, and sampling of risk constituents. (NOTE: Ecology requested this take place prior to next PMM.)	6-22-10	Closed: 7-16-10 Meeting held with WDOE (Mike Barnes) on 7-15-10.
X	100-198	ORP	C. Kemp	Tank Farms	Meet after 7-12-10 to discuss process of digging around C-107 and to explain the cutting process of riser.	6-22-10	Closed: 7-16-10 Meeting held with WDOE on 7-15-10.
O	100-199	ORP	G. Trenchard	242-A Evap	Put this issue on agenda. Also move M-47/90/62 to before break on agenda.	6-22-10	Complete pending approval of draft Project Summary for 7-27-10.
X	100-200	ORP	W. Abdul	WTP/PT	Send Ecology procedure on how and why CGD is performed.	6-22-10	7-27-10: Closed Per email, CGD documents provided to Ecology.
O	100-201	ORP		Tank Farms	Provide SGE survey of A and AX Farms to Ecology.	7-27-10	

ORP Project Managers Meeting  
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**Meeting Minutes Transmittal**

**Attachment B: List of Attendees**  
**(4 pages including this coversheet)**







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July 26-27, 2010  
2440 Stevens Ctr.  
Richland, Washington  
**Meeting Minutes Transmittal**

**Attachment C: Presentation Materials**

**ORP TPA Project Summary and Handouts  
(73 pages including this coversheet)**

**Office of River Protection**

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**Tri-Party Agreement  
Monthly Milestone Review Meeting  
July 27, 2010**



U.S. Department of Energy  
U.S. Environmental Protection Agency  
Washington State Department of Ecology

## Agenda

Office of River Protection  
Tri-Party Agreement  
Monthly Milestone Review Meeting  
July 27, 2010  
9:00 a.m. – 11:30 a.m.

Page	Topic	Leads	Time
<b>3</b>	M-45, -50, -60 Single-Shell Tank Corrective Action	Bob Lober / Joe Caggiano	9:00
<b>7</b>	M-45-00, Complete Closure of All Single-Shell Tank Farms	Chris Kemp / Jeff Lyon	9:15
<b>23</b>	Interim Stabilization Consent Decree	John Long / Nancy Uziemblo	9:35
<b>24</b>	In Tank Characterization and Summary	John Long / Michael Barnes	9:40
<b>52</b>	242-A Evaporator Status		
<b>XX</b>	M-62-40, Tank Waste System Plan	Ron Koll / Dan McDonald	9:45
<b>25</b>	FY 2010 ORP TPA Cost & Schedule Performance	Janet Diediker / Dan McDonald / Jeff Lyon	9:50
<b>51</b>	M-47-00, Tank Waste Treatment, Storage and Disposal Facilities	Ben Harp / Michelle Hendrickson	10:10
<b>53</b>	M-90-00, Complete Acquisition of Facilities for Interim Storage of IHLW and Storage/ Disposal of ILAW and M-20, Part B Permits	Ben Harp / Dan McDonald	10:10
<b>54</b>	M-62-00, Complete Pretreatment Processing and Vitrification of Tank Wastes	Ben Harp / Dan McDonald	10:10
	<b>BREAK</b>		
<b>30</b>	TPA Milestone Statistics	Woody Russell / Dan McDonald / Jeff Lyon	10:20
<b>56</b>	WTP - BNI Cost & Schedule Performance for Immobilization Plant Project	Wahed Abdul / Jeff Trent / Garth Reed / Dan McDonald	10:30

## Milestone M-45,-50,-60 Single-Shell Tank Corrective Action

### I. Near-Term Deliverables:

- **M-45-55, Submit to Ecology for Review and Approval as an Agreement primary document a Phase 1 RFI Report**  
Due: 1/31/08  
Status: Complete. RFI in primary document revision process. DOE revised RFI, based on Ecology comments and resubmitted to Ecology on 10/07/09 with final rev 1 update provided to Ecology on April 22, 2010 (10-TPD-036). ORP is expecting an approval of current submittal.
- **M-45-56E, Complete Implementation of Agreed to Interim Measures**  
Due: 07/31/09  
Status: Complete. ORP and Ecology met on July 21, 2009 to discuss completed FY2008 interim measures and future FY2009 anticipated activities. July 2009, meeting minutes drafted and jointly reviewed with signature obtained at January 2010 PMM. ORP would like to close this milestone.
- **M-45-56F, Complete Implementation of Agreed to Interim Measures**  
Due: 07/31/10  
Status: Meeting scheduled with Ecology on April 6, 2010 to discuss S/SX characterization results for potential barrier placement. Meeting minutes of proposed future barrier placement reviewed and signed with Ecology on May 10, 2010 and was submitted at May 2010 PMM. Ecology established a date of June 9, 2010 for M-45-56F annual meeting. ORP provided a draft agenda and meeting minutes were generated and submitted for review. A copy of the minutes will be submitted for administrative record at July TPA meeting.
- **M-45-58, 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. DOE provided comment resolutions to Ecology on 10/13/09. Ecology provided clarification to comments by letter on December 10, 2009. ORP provided updated Master Work Plan, based on January 6, 2010 Ecology meeting on proposed comment responses on March 11, 2010. Ecology provided conditional approval, but requested additional information in a letter dated June 2, 2010. ORP is evaluating the request.

- **M-45-60, 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 updated RFI/CMS Workplan and Sampling and Analysis Plan based on Ecology comments and resubmitted to Ecology, with approved Ecology RCRs on November 2, 2009 (letter 09-TPD-118). Ecology approved the Work Plan on March 29, 2010 and requested meetings to discuss characterization schedule in WMA C. Follow on meeting with Ecology occurred on April 26, 2010. Meeting minutes were submitted at May 2010 PMM with attached characterization schedule. Ecology has requested submittal of an update to the plan including a revised schedule by July 31, 2010. Updated workplan, with supporting change package will be submitted at July 2010 TPA PMM meeting.

- **M-45-61, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 RCRA Facility Investigation/Corrective Measures Study Report for WMA C**

Due: 12/31/10

Status: At Risk. See issues below. Proposed milestone M-045-61 (HFFACO Change Control Form M-45-09-01) will revise the due date for this document to 12-31-2014.

- **M-45-62, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 Corrective Measures Implementation Work Plan for WMA C**

Due: 7/31/12

Status: At Risk. See issues below. Proposed milestone M-045-62 (HFFACO Change Control Form M-45-09-01) will revise the due date for this document to 6-30-2015.

## **II. Significant Accomplishments:**

- T-Farm interim barrier monitoring continues; annual monitoring report issued.
- TY Interim Barrier Construction Continues.
  - Monitoring equipment for the TY barrier has been placed.
  - Evapo-Transpiration basin excavation complete, liner is in place and backfilling underway.
  - In-farm construction initiated.
- Continued direct push characterization in C Farm at various planned locations
- Completed Direct Push in support of interim barrier development in S-SX.
- 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.
- Completed data analysis of well-to-well SGE Survey of A and AX Farms, in support of potential interim barriers.
- Continued data analysis of 3D SGE survey of URP-86 (WMA-C).
- Initiated remedial technology assessments in support of a Corrective Measures Study for WMA C.
- Initiated analysis of 3-D SGE of the southern portion of 241-S tank farm. Completed direct push sampling in S Farm based on findings of SGE analysis of SX data, to support evaluation of a potential future barrier site
- Completed data collection and initiated analysis of 3-D SGE survey of SE portion of S farm.
- Completed data collection and initiated analysis testing time-domain electromagnetic induction as a means of identifying locations of historical pipeline leaks.

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

- Continue direct push campaign in C Farm.
- Initiate direct push campaign in BY Farm, supporting Interim Barrier Design and Placement.
- Complete data analysis of SGE data collection at UPR-86 site in C Farm.
- Complete construction of an interim surface barrier at TY farm.
- Continue remedial technology assessments in support of a Corrective Measures Study for WMA C.
- Update workplan for end of July submittal. Anticipated updates to include SGE deployment with deep electrodes, revised Beta probe development and lab analysis schedules.

#### **IV. Issues**

- The transmittal letter for M-45-50 (WMA C work plan and SAP) indicated that the scope of characterization activities identified in the plan could not be completed in time to support the currently scheduled dates for M-45-61 and M-45-62. The draft consent decree has been modified to include changes to the dates for these milestones.

## **Milestone M-45-00, Complete Closure of All Single-Shell Tank Farms SST Retrieval and Closure Program**

### **I. Deliverables**

- **M-45-00, Complete Closure of all Single-Shell Tank Farms**  
Due: 9/30/24  
Status: To Be Missed (based on current DOE Baseline planning).
  
- **M-45-00B, Complete Specified “Near-Term” SST Waste Retrieval and Interim Closure Activities, to Result in the Retrieval of all Tank Wastes in WMA-C SSTs Pursuant to the Agreement Criteria in Milestone M-45-00**  
Due: 9/30/06 (Or as otherwise indicated within the descriptive text of this milestone.)  
Status: Missed.
  - Completion of four limits of technology retrieval demonstrations:
    - Saltcake dissolution (S-112): Completed (M-45-03C).
    - Modified sluicing (C-106): Completed.
    - Vacuum retrieval (C-200s): Completed; C-203 field retrieval operations completed on March 24, 2005; C-202 retrieval completed on August 11, 2005; C-201 retrieval completed on March 23, 2006; C-204 retrieval completed on December 11, 2006.
    - Mobile retrieval (C-101, C-105, C-110 or C-111): Not completed. C-101 start of retrieval is currently projected for FY 2011. (Note: C-110 retrieval commenced using modified sluicing in compliance with a TWRWP approved by Ecology on 7/3/08. C-111 will have retrieval performed using modified sluicing in compliance with a TWRWP submitted to Ecology on 5/28/09.)
  
  - Implementation of full-scale leak detection monitoring and mitigation (LDMM) technologies for the first three 100-series tank retrievals following Tank S-112:
    - Tank S-102: High Resolution Resistivity System (HRR) installed; supporting retrieval operations.
    - Tank C-103: HRR demonstration complete.
    - Tank C-108: HRR installed; supporting retrieval operations.
    - Completed HRR injection tests at S-102.
    - Submitted HRR evaluation report and recommendation for further deployment.

- Submittal of Tank Waste Retrieval Work Plans (TWRWP):
  - Tanks C-201, C-202, C-203, and C-204: Completed on April 8, 2004.
  - Two (2) 100-series tanks by July 31, 2004: Completed on July 29, 2004 (C-103 and C-109).
  - Four (4) 100-series tanks by 10/31/04: Completed on October 8, 2004 (C-102, C-104, C-107, C-108, and C-112).
  - Five (5) 100-series tanks by January 31, 2005: Completed on January 24, 2005 (C-101, C-105, C-110, and C-111).
  
- **M-45-00C, Initiate Negotiation of SST Waste Retrieval and Closure Activities and Associated Schedules (for the period February 2007 through August 2008)**  
Due: 9/30/06  
Status: Missed.
  
- **M-45-00D, Initiate Negotiation of the SST Waste Retrieval and Closure Activities (for the period September 2008 to September 2013)**  
Due: 1/31/08  
Status: Missed.
  
- **M-45-00D-A, Ecology and DOE Negotiations Shall Be Completed within 150 days.**  
Due: 06/28/08  
Status: Missed
  
- **M-45-00E, Initiate Negotiation of SST Waste Retrieval and Closure Activities for the Remainder of the SST Program**  
Due: 10/31/12  
Status: To Be Missed (based on current DOE Baseline planning).
  
- **M-45-00E-A, Ecology and DOE Negotiations Shall Be Completed within 120 Days.**  
Due: 02/27/13  
Status: To Be Missed
  
- **M-45-05, Retrieve Waste from all Remaining Single-Shell Tanks**  
Due: 9/30/18  
Status: To Be Missed (based on current DOE Baseline planning).
  
- **M-45-05-T05, Initiate Tank Retrieval from Five Additional Single-Shell Tanks**  
Due: 9/30/07  
Status: Missed.

- **M-45-05-T06, Initiate Tank Retrieval from Five Additional Single-Shell Tanks**  
Due: 9/30/08  
Status: Missed.
- **M-45-05-T07, Initiate Tank Retrieval from Seven Additional Single-Shell Tanks**  
Due: 9/30/09  
Status: Missed
- **M-45-05-T08, Initiate Tank Retrieval from Eight Additional Single-Shell Tanks**  
Due: 9/30/10  
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T09, Initiate Tank Retrieval from Ten Additional Single-Shell Tanks**  
Due: 9/30/11  
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T10, Initiate Tank Retrieval from 12 Additional Single-Shell Tanks**  
Due: 9/30/12  
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T11, Initiate Tank Retrieval from 14 Additional Single-Shell Tanks**  
Due: 9/30/13  
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T12, Initiate Tank Retrieval from 17 Additional Single-Shell Tanks**  
Due: 9/30/14  
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T13, Initiate Tank Retrieval from 20 Additional Single-Shell Tanks**  
Due: 9/30/15  
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T14, Initiate Tank Retrieval from 20 Additional Single-Shell Tanks**  
Due: 9/30/16  
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T15, Initiate Tank Retrieval from 20 Additional Single-Shell Tanks**  
Due: 9/30/17  
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-06, Complete Closure of all Single-Shell Tank Farms in Accordance with Approved Closure/Post Closure Plan(s)**

Due: 9/30/24

Status: To Be Missed (based on current DOE Baseline planning).

- **M-45-06-T03, Initiate Closure Actions on a WMA Basis**

Due: 3/31/12

Status: To Be Missed (based on current DOE Baseline planning).

- **M-45-06-T04, Complete Closure Actions on one WMA**

Due: 3/31/14

Status: To Be Missed (based on current DOE Baseline planning).

## **II. Significant Accomplishments**

- Retrieved C-104 to ~75% complete.
- Initiated C-111 Construction Acceptance Testing
- Continued design and procurement activities for AN-101 Supernatant pump replacement along with another spare replacement pump purchase.
- Continued design activities for installation of articulated mast system (hydraulic arm) in C-104.
- Continued design activities for C-112 sluicing system.
- Continued design and procurements for C-108 Hard Heel Retrieval System.
- Approved TSAP for C-110 heel sampling.

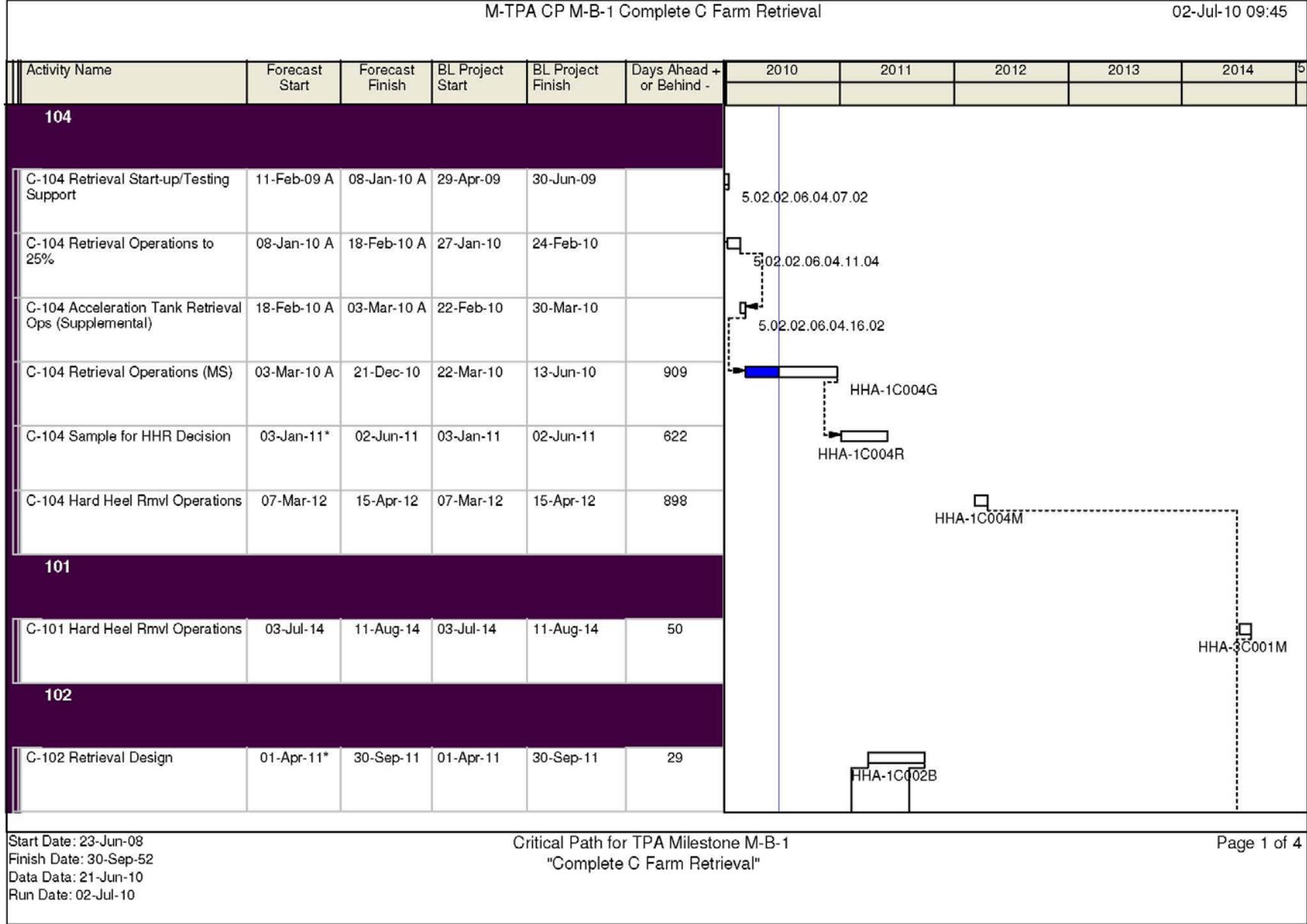
## **III. Significant Planned Activities in the Next Six Months**

- Obtain C-109 and C-110 heel samples
- Complete construction of MARs with a sluicing end-effector for C-107 retrieval.
- Complete design for C-108 hard to retrieve heel retrieval system, and initiate construction along with start up of retrieval activities.
- Complete installation of new AN-101 supernatant pump.
- Complete C-111 construction and initiate retrieval.
- Complete C-112 design and initiate procurement.
- Install hydraulic arm into C-104 to aid removal of obstruction underneath slurry pump.

#### **IV. Issues**

Milestones M-45-00B (retrieve all C Farm tanks), M-45-00C (initiate negotiations on SST retrievals for 2007-2008), and M-45-00D (initiate negotiations on SST retrievals for 2008-2013) were missed. TPA negotiations to address these and other milestones will be completed sometime after December 11, 2009, when Ecology and DOE complete their disposition of public comments on the newly proposed Consent Decree.

### C-Farm Critical Path Retrieval Schedule and Life Cycle Baseline 2014 Compliance Schedule



Start Date: 23-Jun-08  
 Finish Date: 30-Sep-52  
 Data Date: 21-Jun-10  
 Run Date: 02-Jul-10

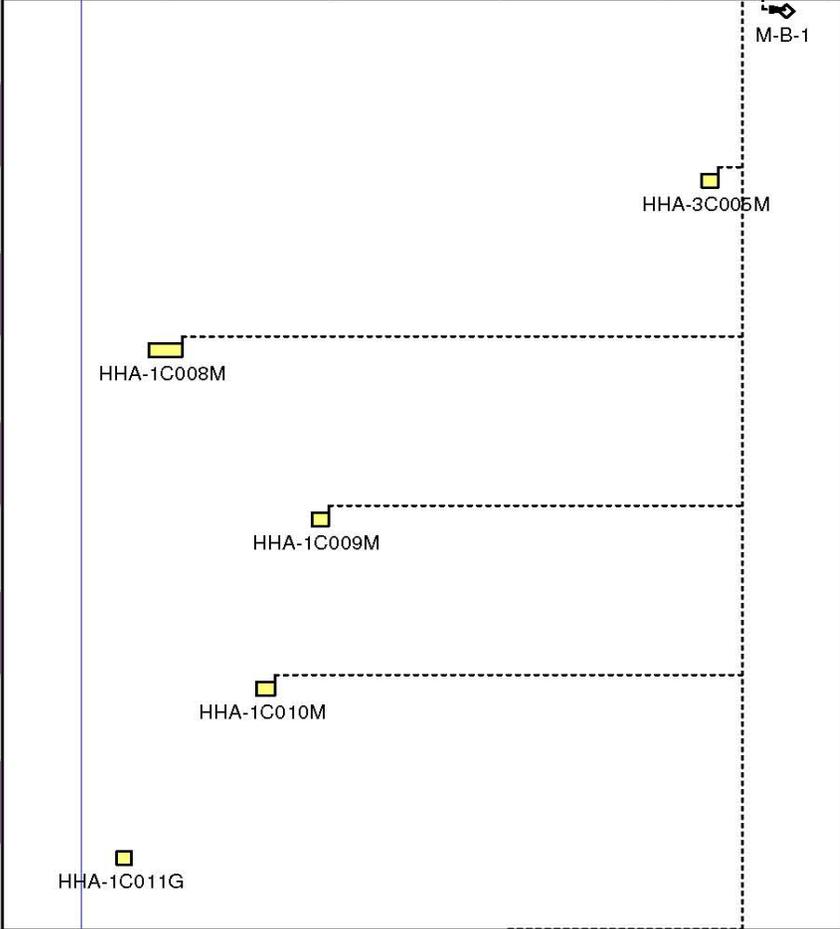
Critical Path for TPA Milestone M-B-1  
 "Complete C Farm Retrieval"

Activity Name	Forecast Start	Forecast Finish	BL Project Start	BL Project Finish	Days Ahead + or Behind -	2010	2011	2012	2013	2014	5
C-102 Retrieval Procurement	03-Oct-11	02-Apr-12	03-Oct-11	02-Apr-12	29			HHA-1C002C			
C-102 Retrieval System Installation	03-Apr-12	20-Sep-12	03-Apr-12	20-Sep-12	29			HHA-1C002E			
C-102 Engineering Support	01-Apr-11	01-Nov-12	01-Apr-11	01-Nov-12	29			HHA-1C002D			
C-102 Retrieval Startup and Readiness	26-Jul-12	01-Nov-12	26-Jul-12	01-Nov-12	29			HHA-1C002F			
C-102 Retrieval Operations (MS)	02-Nov-12	20-Apr-13	02-Nov-12	20-Apr-13	44			HHA-1C002G			
C-102 Sample for HHR Decision	22-Apr-13	30-Sep-13	22-Apr-13	30-Sep-13	30			HHA-1C002R			
C-102 Hard Heel Rmvl Procurement	26-Nov-13	28-May-14	26-Nov-13	28-May-14	30			HHA-1C002J			
C-102 Hard Heel Rmvl Installation	02-Apr-14	10-Jul-14	02-Apr-14	10-Jul-14	30			HHA-1C002K			
C-102 Hard Heel Rmvl Design & Engineering Support	01-Oct-13	10-Jul-14	01-Oct-13	10-Jul-14	30			HHA-1C002H			
Complete C-Farm Retrieval		19-Aug-14		19-Aug-14	42			HHC-3C005R			
C-102 Hard Heel Rmvl Operations	11-Jul-14	19-Aug-14	11-Jul-14	19-Aug-14	42			HHA-1C002M			

Start Date: 23-Jun-08  
 Finish Date: 30-Sep-52  
 Data Date: 21-Jun-10  
 Run Date: 02-Jul-10

Critical Path for TPA Milestone M-B-1  
 "Complete C Farm Retrieval"

Activity Name	Forecast Start	Forecast Finish	BL Project Start	BL Project Finish	Days Ahead + or Behind -	2010	2011	2012	2013	2014	5
						M-B-1, Complete C-Farm Retrieval		30-Sep-14*		30-Sep-14	0
<b>105</b>											
C-105 Hard Heel Rmvl Operations	26-Mar-14	04-May-14	26-Mar-14	04-May-14	149						
<b>108</b>											
C-108 Hard Heel Rmvl Operations	17-Nov-10	28-Jan-11	17-Nov-10	28-Jan-11	1341						
<b>109</b>											
C-109 Hard Heel Rmvl Operations	12-Nov-11	21-Dec-11	12-Nov-11	21-Dec-11	1014						
<b>110</b>											
C-110 Hard Heel Rmvl Operations	13-Jul-11	21-Aug-11	13-Jul-11	21-Aug-11	1136						
<b>111</b>											
C-111 Retrieval Operations (MS)	07-Sep-10*	07-Oct-10	07-Sep-10	07-Oct-10	977						

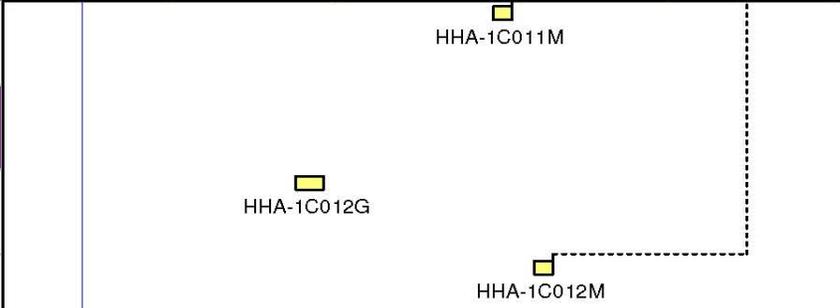


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Critical Path for TPA Milestone M-B-1  
 "Complete C Farm Retrieval"

Page 3 of 4

Activity Name	Forecast Start	Forecast Finish	BL Project Start	BL Project Finish	Days Ahead + or Behind -	2010	2011	2012	2013	2014	5
C-111 Hard Heel Rmvl Operations	13-Dec-12	21-Jan-13	13-Dec-12	21-Jan-13	617						
<b>112</b>											
C-112 Retrieval Operations (MS)	01-Oct-11	03-Dec-11	01-Oct-11	03-Dec-11	556						
C-112 Hard Heel Rmvl Operations	14-Mar-13	22-Apr-13	14-Mar-13	22-Apr-13	526						

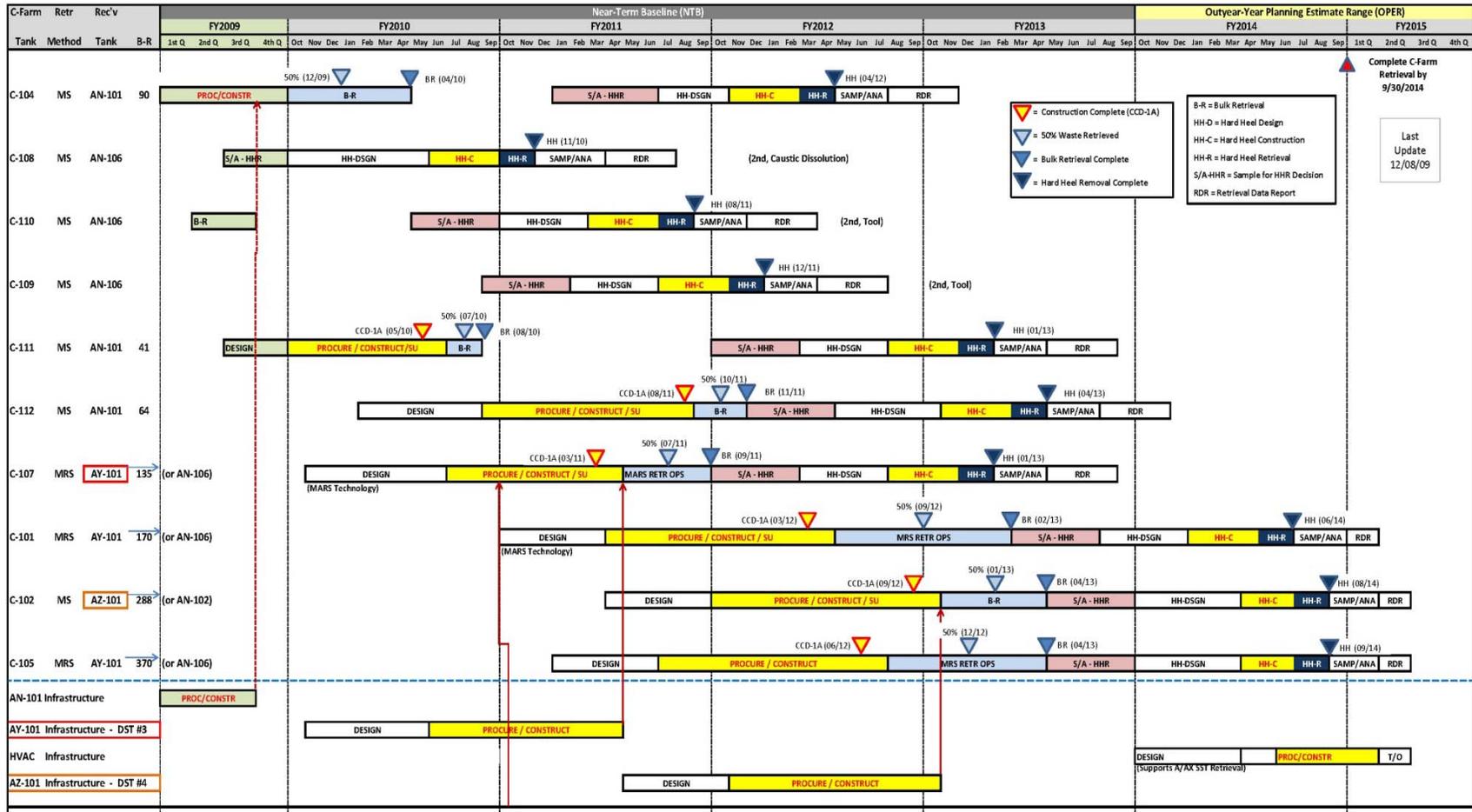


Start Date: 23-Jun-08  
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Critical Path for TPA Milestone M-B-1  
 "Complete C Farm Retrieval"

C-Farm Retrieval  
Life-Cycle Baseline PMB  
2014 Compliance Case

12/8/20



## SST RETRIEVAL SEQUENCE DOCUMENT

### I. Deliverables

- **M-45-02N, Submit Biennial Update of SST Retrieval Sequence Document (Agreement Appendix I, Section 2.1.2), and Double-Shell Tank Space Evaluation Document and Ecology Concurrence of Additional Tank Acquisition Within 60-days (see text of M-45-02N for further details)**  
Due: 3/1/08 (Parties to meet annually to agree on SSTs to be retrieved during the coming year from the tank pool.)  
Status: Complete.
- **M-45-02N-A, Embedded Milestone; Within 60 days of receiving the DST Space Evaluation Document, the Three Parties Shall meet to Establish New Milestones, If Required, for Acquisition of Additional Tanks**  
Due: 06/02/08  
Status: Complete. On May 15, 2008, Ecology transmitted comments on the M45-02N deliverable. On July 23, 2008, ORP transmitted letter 08-TF-049 to Ecology with a plan for responding to Ecology comments on and updating the Retrieval Sequence Document (RPP-21216). The revised document was submitted to Ecology on September 12, 2008, by letter 08-TF-062. Ecology approved the document on January 22, 2009, by letter 0900343.
- **M-45-02O, Submit Biennial Update of SST Retrieval Sequence Document (Agreement Appendix I, Section 2.1.2), and Double-Shell Tank Space Evaluation Document and Ecology Concurrence of Additional Tank Acquisition Within 60-days (see text of M-45-02M for further details)**  
Due: 3/1/10 (Parties to meet annually to agree on SSTs to be retrieved during the coming year from the tank pool.)  
Status: In Abeyance per AIP, see issues below.
- **M-45-02O-A, 3 Parties Shall Meet To Establish New Milestones Within 60 Days**  
Due: 04/30/10  
Status: In Abeyance per AIP
- **M-45-02P, Submit Biennial Update of SST Retrieval Sequence Document (Agreement Appendix I, Section 2.1.2), and Double-Shell Tank Space Evaluation Document and Ecology Concurrence of Additional Tank Acquisition Within 60-days (see text of M-45-02M for further details)**  
Due: 3/1/12 (Biennially thereafter. Parties to meet annually to agree on SSTs to be retrieved during the coming year from the tank pool.)  
Status: In negotiation. See discussion below under "Issues".

- **M-45-02P-A, Embedded Milestone; Within 60 days of receiving the DST Space Evaluation Document, the Three Parties Shall meet to Establish New Milestones, If Required, for Acquisition of Additional Tanks**  
Due: 4/30/12  
Status: In negotiation. See discussion below under “Issues”.
- **M-45-02Q, Submit Biennial Update to SST Retrieval Sequence Document**  
Due: 03/01/14  
Status: In negotiation. See discussion below under “Issues”.
- **M-45-02Q-A, 3 Parties Shall Meet to Establish New Milestones Within 60 Days**  
Due: 04/30/14  
Status: In negotiation. See discussion below under “Issues”.
- **M-045-02R, Submit Biennial Update to SST Retrieval Sequence Document**  
Due: 03/01/16  
Status: In negotiation. See discussion below under “Issues”.
- **M-045-02R-A, 3 Parties Shall Meet to Establish New Milestones Within 60 Days**  
Due: 04/30/16  
Status: In negotiation. See discussion below under “Issues”.
- **M-45-02S, Submit Biennial Update to SST Retrieval Sequence Document**  
Due: 03/01/18  
Status: In negotiation. See discussion below under “Issues”.
- **M-45-02S-A, 3 Parties Shall Meet to Establish New Milestones Within 60 Days**  
Due: 04/30/18  
Status: In negotiation. See discussion below under “Issues”.

## II. Issues

- The proposed TPA milestone, M-62-40, supersedes and provides an expanded set of information and data when compared to the requirements of the M-45-02 series milestones. To develop and submit the M-45-02O deliverable requires the same resources that are required to develop and submit the M-62-40 deliverable. In order to meet the proposed M-62-40 milestone due date, resources must be allocated to the development of the deliverable at this time, which would preclude the development of the M45-02O deliverable. On January 11, 2010, Ecology and ORP signed an Agreement In Principle stating the parties agree to hold milestone M-45-02O in abeyance pending disposition of TPA Change Form M-45-09-01 (part of the Consent Decree package released for public comment on October 1, 2009). The M-45-09-01 Change Form proposes the creation of new milestone M-62-40.

## **TANK RETRIEVALS WITH INDIVIDUAL MILESTONES**

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

#### **I. Deliverables**

- **M-45-05M-T01, Submit C-106 Waste Retrieval Results, Analysis of Residual Waste(s), and (if appropriate) Request for Exception to the Criteria Pursuant to Agreement Appendix H**

Due: 2/27/04

Status: Complete.

#### **II. Significant Accomplishments**

- None.

#### **III. Significant Planned Activities (PA) 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.)
- Continue PA workshops with Ecology, EPA, NRC, and DOE HQ focused on residual waste in C Farm tanks and pipelines following retrieval.

#### **IV. Issues**

- C-106 Closure Plan approval and SST radiological Categorical Notice of Construction (NOC) Phase 3 (closure) and a toxics categorical NOC application are pending completion of the Tank Closure and Waste Management Environmental Impact Statement (EIS) and associated Record of Decision (ROD); forecast completion for the final EIS ROD is in the Spring or Summer of 2011.

### **Tank 241-S-102**

#### **I. Deliverables**

- **M-45-05A, Complete Waste Retrieval from Tank S-102**

Due: 3/31/07

Status: Missed. As a result of equipment failure on March 14, 2007, retrieval operations were suspended at Tank S-102 with retrieval approximately 79% complete.

- **M-45-15, Interim Completion of Tank S-102 SST Waste Retrieval and Closure Demonstration Project**  
Due: 6/30/11  
Status: At Risk. See discussion below under “Issues”. Change Request M-45-07-01 approved by DOE and Ecology on December 4, 2007.
- **M-45-15A, Embedded Milestone, Submit a Retrieval Data Report Pursuant to Agreement Appendix I**  
Due: 6/30/11  
Status: At risk. See discussion below under “Issues”.
- **M-45-15B, Embedded Milestone, Remaining Wastes have been adequately Characterized, and a Risk Assessment has been completed for residuals that remain in the tank**  
Due: 6/30/11  
Status: At risk. See discussion below under “Issues”.
- **M-45-15C, Embedded Milestone, An update to the S-102 Component Closure Activity Plan has been submitted by DOE**  
Due: 6/30/11  
Status: At risk. See discussion below under “Issues”.
- **M-45-15D, Embedded Milestone, if appropriate, DOE has requested an exception to waste retrieval criteria pursuant to Agreement Appendix H**  
Due: 6/30/11  
Status: At risk.

## II. Significant Accomplishments

None

## III. Significant Planned Activities in the Next Six Months

None.

## IV. Issues

- Retrieval of Tank 241-S-102 was not completed by TPA milestone date of March 31, 2007, due to pump failure. It is technically imprudent to attempt to accelerate retrieval of S-102, at this time, because of the rheological nature of the waste.

- In a letter dated August 15, 2006, Ecology stated that submittal of Component Closure Activity Plans, for retrieved tanks, should continue to be suspended until June 30, 2009, or within 120 days after the Final Tank Closure and Waste Management Environmental Impact Statement (TC&WM EIS) Record Of Decision (ROD) is issued, whichever is earlier. In a letter dated November 12, 2009, Ecology extended its suspension until 180 days after the issuance of the final TC&WM EIS. It is anticipated that the final TC&WM EIS will not be issued until the Spring or Summer of 2011. Submittal of the Closure Plan could not occur, then, until several months after the M-45-15 milestone is due.

## **Tank 241-S-112**

### **I. Deliverables**

- **M-45-03C, Complete Full-Scale Saltcake Waste Retrieval Technology Demonstration at Single-Shell Tank S-112**  
Due: 6/30/05  
Status: Complete.
- **M-45-13, Interim Completion of Tank S-112 SST Waste Retrieval and Closure Demonstration Project**  
Due: 6/30/11  
Status: At risk. See discussion below under "Issues". Change Request M-45-07-01 approved by DOE and Ecology on December 4, 2007.
- **M-45-13A, Embedded Milestone, Submit a Retrieval Data Report Pursuant to Agreement Appendix I**  
Due: 12/31/07  
Status: Completed (ORP letter, 07-TPD-066, dated December 21, 2007). Added by Change Request M-45-07-01 approved by DOE and Ecology on December 4, 2007.
- **M-45-13B, Embedded Milestone, Remaining Wastes have been adequately Characterized, and a Risk Assessment has been completed for residuals that remain in the tank**  
Due: 12/31/07  
Status: Completed (ORP letter, 07-TPD-066, dated December 21, 2007). Added by Change Request M-45-07-01 approved by DOE and Ecology on December 4, 2007.
- **M-45-13C, Embedded Milestone, An update to the S-112 Component Closure Activity Plan has been submitted by DOE**  
Due: 6/30/11  
Status: At risk. See discussion below under "Issues".

- **M-45-13D, Embedded Milestone, if appropriate, DOE has requested an exception to waste retrieval criteria pursuant to Agreement Appendix H**

Due: 6/30/11

Status: At risk. See discussion below under "Issues".

## **II. Significant Accomplishments**

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

## **III. Significant Planned Activities in the Next Six Months**

None.

## **IV. Issues**

- In a letter dated August 15, 2006, Ecology stated that submittal of Component Closure Activity Plans, for retrieved tanks, should continue to be suspended until June 30, 2009, or within 120 days after the Final Tank Closure and Waste Management Environmental Impact Statement (TC&WM EIS) Record Of Decision (ROD) is issued, whichever is earlier. In a letter dated November 12, 2009, Ecology extended its suspension until 180 days after the issuance of the final TC&WM EIS. It is anticipated that the final TC&WM EIS will not be issued until the Spring or Summer of 2011. Submittal of the Closure Plan could not occur, then, until several months after the M-45-15 milestone is due.

## **Interim Stabilization Consent Decree**

### **I. Near-Term Deliverables:**

#### **D-001-00, Complete Interim Stabilization of all 29 SSTs**

Due: 09/30/04

Status: Completed on March 31, 2004, with discontinuation of pumping in U-108 and subsequent consultation with Ecology staff. Interim stabilization of S-102 and S-112 is held in abeyance by third amendment to the Consent Decree. ORP's obligation to interim stabilize S-112 was satisfied upon completion of retrieval operations. Retrieval of S-102 has been impacted by the spill at this tank. A review of the January 25, 2010, video of the tank has shown approximately 2,400 gallons of supernatant liquid remaining. This is below the criteria for interim stabilization of less than 5000 gallons supernatant liquid.

### **II. Significant Accomplishments:**

None.

### **III. Significant Planned Actions in the Next 6 Months:**

Prepare and submit formal documentation that S-102 is interim stabilized.

### **IV. Issues**

Tank S-102 retrieval not completed by milestone M-45-05A date of March 31, 2007.

## In Tank Characterization and Summary

For the period from June 1 – June 30, 2010:

### I. Accomplishments:

- Completed 241-AN-107 corrosion mitigation grab sampling on June 16, 2010.
- Completed 241-AN-101 pre 241-C-111 retrieval sampling on June 22, 2010.
- Completed revision 0 of RPP-PLAN-46196, *Tank Sampling and Analysis Plan for Waste Solids in Tank 241-C-110*, on June 9, 2010.
- Completed revision 1 of RPP-PLAN-46136, *Sampling and Analysis Plan for Liquid and Solids in Catch Tank 241-A-350*, on June 29, 2010.
- Completed revision 0 of RPP-RPT-46616, *Derivation of Best-Basis Inventory for Tank 241-C-101*, on June 14, 2010.
- Completed revision 1 of RPP-RPT-44814, *Derivation of Best-Basis Inventory for Tank 241-AN-101*, on June 15, 2010.
- Completed revision 0 of RPP-RPT-46686, *Derivation of Best-Basis Inventory for Tank 241-AW-101*, on June 24, 2010.
- Completed revision 0 of RPP-RPT-46180, *Final Report for Tank 241-AN-101 Mid-Retrieval Grab Samples in Support of Corrosion Mitigation During Tank 241-C-104 Retrieval* on June 16, 2010.

### II. Planned Action within the next Six Months:

- Tank Sampling
  - Tank 241-A-350 compatibility and closure scheduled for July 2010.
  - Tank 241-AN-103 corrosion mitigation liquid grabs scheduled for October 2010.
  - Tank 241-AN-104 corrosion mitigation liquid grabs scheduled for October 2010.
  - Tank 241-C-110 off riser sampling scheduled for July 2010.
  - Tank 241-C-108 off riser sampling scheduled for September 2010.
- BBI Updates
  - Seven tank updates planned for FY10 Quarter 3 were completed.
- Data Quality Objectives (DQO)
  - Complete revision 11 of the Chemistry Control DQO in July 2010.

### III. Issues:

None.

## Tank Farm Project Executive Summary May 2010

### General

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. The following information is a summary of cumulative-to-date earned value performance.

WRPS May Project Performance - (\$k)								
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC
CM	41,519.0	39,892.1	37,097.6	(1,626.9)	2,794.5	0.96	1.08	
FYTD	266,152.4	269,662.0	250,265.7	3,509.6	19,396.3	1.01	1.08	472,978.7
CTD	552,892.0	546,936.7	511,933.2	(5,955.3)	35,003.5	0.99	1.07	2,054,606.5
Red shaded cells indicates a SPI/CPI less than .90; Green shaded cells indicate a SPI/CPI between .90 and .99; and Blue shaded indicates a SPI/CPI greater than or equal to 1.								

The contract-to-date (CTD) cost performance index (CPI) through May is 1.07 with a schedule performance index (SPI) of .99.

WRPS May CM Project Performance by Level 2 WBS (\$k)							
	CM BCWS	CM BCWP	CM ACWP	CM SV	CM CV	CM SPI	CM CPI
5.1- Base Operations	24,542.9	25,503.7	25,031.9	960.8	471.8	1.04	1.02
5.2- Retrieval and Close SSTs	11,375.7	9,066.1	7,121.2	(2,309.6)	1,944.9	0.80	1.27
5.3- WFD/Treatment PIng/DST Retrieval/Closure	5,375.4	5,074.9	4,635.5	(300.4)	439.4	0.94	1.09
5.4- Supplemental Treatment	225.0	247.4	309.1	22.4	(61.7)	1.10	0.80
5.5- Treat Waste	0.0	0.0	0.0	0.0	0.0	0.00	0.00
Total	41,519.0	39,892.1	37,097.6	(1,626.9)	2,794.5	0.96	1.08

**TOC CTD unfavorable SV of (\$5,955k) is driven by:**

**1) Retrieval and Closure SSTs, (\$7,871k):**

- 1) *C Farm Facility Enhancements*, additional time was needed for an accurate bid phase and additional time required by the subcontractor for mobilization and training for the construction contract for the Lighting Upgrades, Enhanced Walkways, and Trailer Complex.
- 2) *C-111 Retrieval*, delays in construction (equipment removal activities, frozen ground conditions earlier in the year, and issues with POR-008 exhauster) and receipt of procured equipment.
- 3) *C-104 Retrieval*, retrieval operations being halted due to an obstruction beneath the C-104 slurry pump, preventing it from being lowered, and due to the failure of the nitrogen seals in the AN-101 supernatant pump.
- 4) *RA- Technology Development*, additional time required to process sub-tier contractor procurements.
- 5) *Interim Barriers*, the decision to move BY Tank Farm activities to FY11 and delays in S Farm setup activities due to delays in Direct Push activities in C Farm.
- 6) *RA- Interim Barrier Construction*, differences between the bases for planned construction and actual construction activities being performed including the type of barrier and construction schedule. Additional delays occurred when subcontractor experienced shortage of trained laborers and WRPS decided not to down post the basin area from a Radiation Buffer Area (RBA).

**2) Offset by, Base Operations, \$1,765k:**

- 1) *All-Terrain Crane*, early delivery of the all-terrain crane by vendor.

**TOC CTD favorable CV of \$35,004k is driven by:**

**1) Base Operations, \$18,533k:**

- 1) *RA- Finance Support*, lower allocation of applicable General and Administrative (G&A)/COP costs than planned resulting from RA Program under runs.
- 2) *SST Safe Storage & Operations*, continuous cost under runs realized in operations; partially offset with maintenance over runs.
- 3) *Finance Support*, the reduction of the planned Washington State Department of Revenue Business and Occupation (B&O) tax rate due to the utilization of the high tech credit, a continuity of services over liquidation which occurred in FY09, and travel credits for trips that did not occur.
- 4) *Information Resource Management*, lower material expenditures due to receipt of items from Yucca Mountain and document control's utilization of current staff.
- 5) *RA- Program Mgmt*, less Request for Offsite Services (ROS) Support, labor charges (staffing vacancies), and less material cost than planned.
- 6) *RA- Drawing Reconstitution*, lower cost for ROS staff as a result of a lower field rate than planned and efficiencies gained through tank farm walk downs.

- 7) *RA- TOC Training Program*, less training cost for RA employees decreasing HAMMER cost and use of training professionals.

2) **WFD/Treatment Plng/DST Retrieval/Closure, \$11,065k:**

- 1) *RA- AW COB Isolation*, awarding of construction contract which was significantly below initial estimates and less resources required resulting from a strong working relationship between HAMTC (HPT's), engineering (with support from subcontract ARES) and experienced construction craft.
- 2) *WFD PE/Flow Sheet*, contract to support flow sheet development has not been awarded and staff vacancies.
- 3) *RA –WFD Tank Mixing & Sampling*, resulting from a \$587k transfer to SRNL for the Bench Scale Demonstration which is not captured as actual cost; and the Small Scale Mixing Demonstration Plan completed significantly under original estimate.
- 4) *WFD Technical Baseline*, delays in hiring staff resulting in labor cost under runs and delays in issuing contracts for managed task resulting in subcontract under runs.
- 5) *Tank Waste Database Management*, the use of fewer resources to complete the TWINS database diagnostic activities.
- 6) *RA- WFE-Specific Site & Regulatory Interfaces*, current staff using prior knowledge to limit the need for engineering support, Colombia Energy contract not being finalized, and the use of a revised strategy for only a single identified interfacing system specification.
- 7) *IDF Glass Testing*, utilization of incorrect Earned Value Method from October 2009 through February 2010.
- 8) *Secondary Waste Treatment/ETF Program Mgmt*, budgeted resources charging to project support.
- 9) *Hanford IHLW Storage Project Support*, current staff using prior knowledge to limit the need for engineering support.
- 10) *RA–AWA Project Planning and Mobilization*, due to delays in technical and cost evaluations that had to be resolved before issuance of the contract, therefore cost under runs occurred during the Advanced Work Authorization (AWA) 45 day time period. Also due to the uncertainties of the work scope to be funded by the RA, Project managers delayed hiring staff until RA work scope for contract line item number (CLIN) 3 was finalized; therefore the cost for new hires is under run

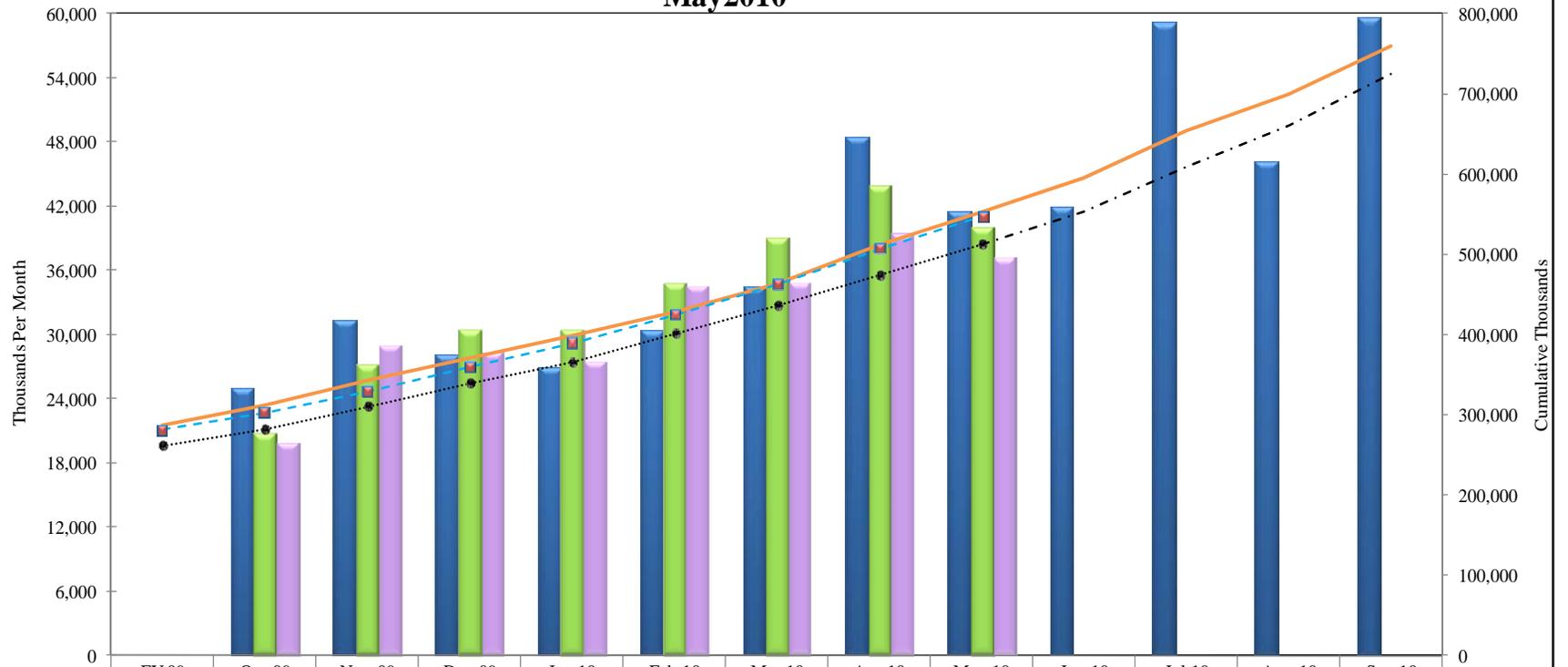
**CONTRACT-TO-DATE PERFORMANCE MEASUREMENT - 10/2008 - 05/2010**

**BY WORK BREAKDOWN STRUCTURE**

Dollars in Thousands

		Cumulative Contract-To-Date							
WBS	TITLE	Budgeted Cost		Actual Cost Work Performed	Variance			Budget at Completion (BAC)	
		Work Scheduled	Work Performed		Schedule	SV%	Cost		CV%
<b>5.1</b>	<b>BASE OPERATIONS</b>								
5.1.1	Base Operations	126,967.6	126,619.0	126,575.0	(348.6)	-0.3%	44.0	0.0%	408,041.1
5.1.2	DST Space Management	12,630.4	9,900.7	13,083.3	(2,729.7)	-21.6%	-3,162.6	-31.9%	41,416.8
5.1.3	TOC Facility Operations	44,752.8	44,821.0	41,270.2	(131.8)	-0.3%	3,350.8	7.5%	149,984.4
5.1.4	Tank Farm Upgrades	29,609.1	35,081.7	27,653.7	5,472.6	18.5%	7,428.0	21.2%	128,688.2
5.1.5	Project Support	170,785.1	170,287.3	159,414.7	(497.8)	-0.3%	10,872.6	6.4%	520,913.1
	<b>TOTAL</b>	<b>384,745.0</b>	<b>386,509.7</b>	<b>367,976.9</b>	<b>1,764.7</b>	<b>0.5%</b>	<b>18,532.8</b>	<b>4.8%</b>	<b>1,247,043.6</b>
<b>5.2</b>	<b>RETRIEVE AND CLOSE SSTs</b>								
5.2.1	Retrieval/Closure Program	59,128.5	56,823.2	48,914.6	(2,505.3)	-4.2%	7,708.6	13.6%	163,854.3
5.2.2	SST Retrieval East Area	49,375.5	43,907.0	47,781.6	(5,468.5)	-11.1%	-3,874.6	-8.8%	218,349.5
5.2.3	SST Retrieval West Area	1,267.2	1,253.1	1,033.0	(14.1)	-1.1%	220.1	17.6%	3,544.0
5.2.4	Closure Program	2,611.8	2,538.5	2,155.4	(73.3)	-2.8%	383.1	15.1%	8,966.4
5.2.5	SST Closure	1,403.0	1,589.7	750.9	190.7	13.6%	842.8	52.9%	23,452.3
	<b>TOTAL</b>	<b>113,786.0</b>	<b>105,915.5</b>	<b>100,635.5</b>	<b>(7,870.5)</b>	<b>-6.9%</b>	<b>5,280.0</b>	<b>5.0%</b>	<b>418,165.5</b>
<b>5.3</b>	<b>WFD/TREATMENT PLNG/DST RETRIEVAL/CLOSURE</b>								
5.3.1	WTP Feed Delivery Program	23,466.3	23,298.9	17,934.6	(167.4)	-0.7%	5,364.3	23.0%	86,873.8
5.3.2	Construct DST Retrieval Systems	6,766.4	6,647.2	5,975.3	(119.2)	-1.8%	671.9	10.1%	102,852.1
5.3.3	RA - Transfer System Mod Project	3,241.3	3,921.3	2,998.1	680.0	21.0%	923.2	23.5%	20,726.1
5.3.6	Immobilization Program	4,515.8	4,375.6	3,025.8	(140.2)	-3.1%	1,348.8	30.8%	36,281.7
5.3.7	WTP Operational Readiness	4,206.1	4,151.6	3,743.3	(54.5)	-1.3%	408.3	9.8%	16,348.8
5.3.8	East Area Waste Receiving Facility	490.8	490.8	191.2	0.0	0.0%	298.6	61.0%	490.8
5.3.9	Tank Waste Pretreatment Project	1,400.2	1,316.8	889.9	(83.4)	-6.0%	426.9	32.4%	1,544.3
5.3.10	Secondary Waste Treatment/ETF	3,662.7	3,951.3	3,302.2	288.6	7.9%	649.1	16.4%	35,542.3
5.3.11	Next Generation Projects	5,033.8	5,004.3	4,032.0	(29.5)	-0.6%	972.3	19.4%	51,784.5
	<b>TOTAL</b>	<b>52,783.4</b>	<b>53,157.8</b>	<b>42,092.4</b>	<b>374.4</b>	<b>0.7%</b>	<b>11,065.4</b>	<b>20.8%</b>	<b>352,444.4</b>
<b>5.4</b>	<b>SUPPLEMENTAL TREATMENT</b>								
5.4.1	Supplemental Treatment	1,577.5	1,353.5	1,228.6	(224.0)	-14.2%	124.9	9.2%	23,500.7
<b>5.5</b>									
5.5.2	Waste Treatment Facility	0.0	0.0	0.0	0.0	0.0%	0.0	0.0%	13,452.20
<b>TFC TOTAL</b>		<b>552,891.9</b>	<b>546,936.5</b>	<b>511,933.4</b>	<b>(5,955.4)</b>	<b>-1.1%</b>	<b>35,003.1</b>	<b>6.4%</b>	<b>2,054,606.40</b>

### FY10 WRPS Contract-to-Date Performance (\$k) May 2010



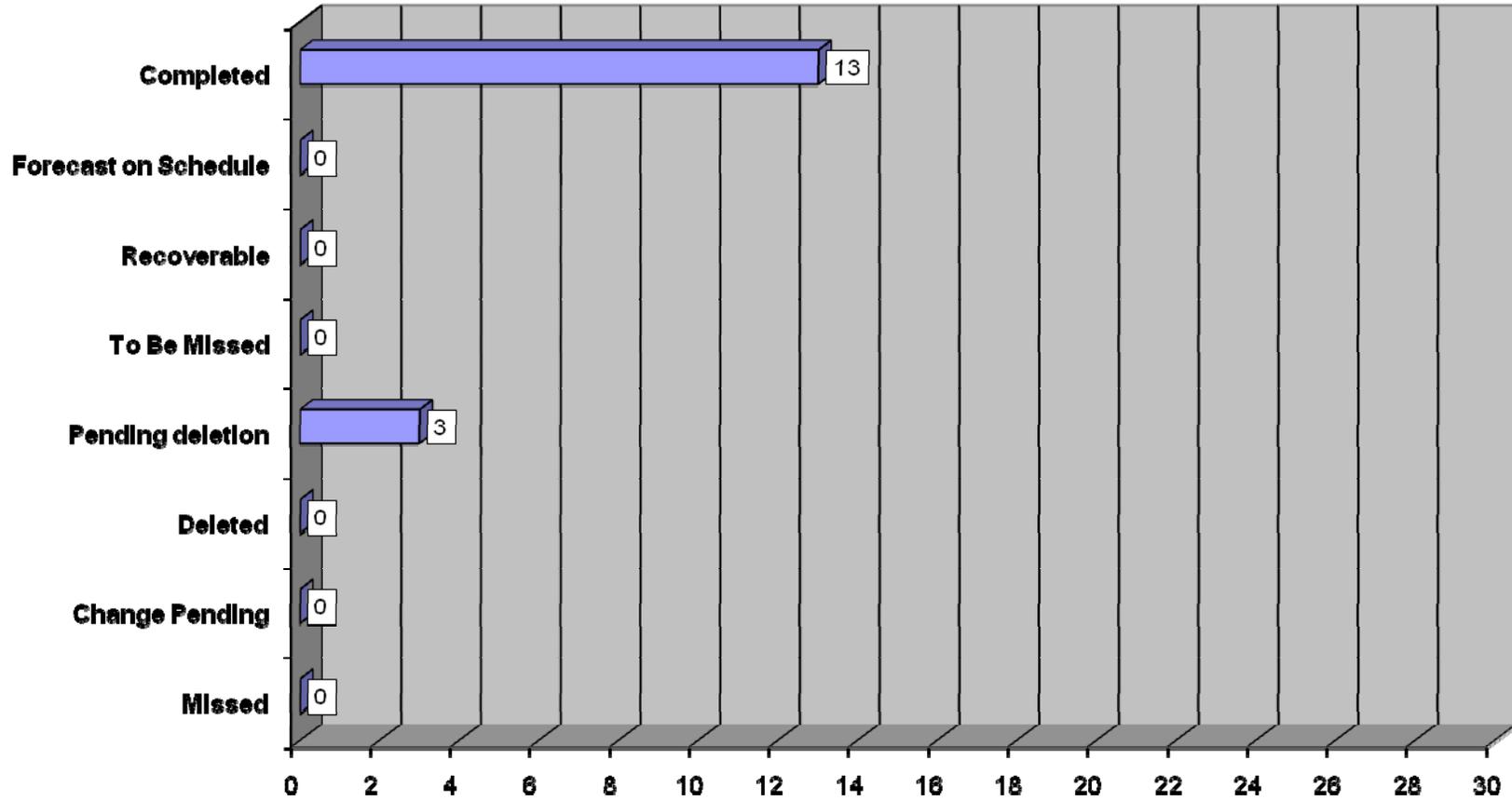
	FY 09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10
CM Plan (BCWS)		24,992	31,267	28,227	26,984	30,345	34,431	48,387	41,519	41,962	59,128	46,124	59,613
CM Perf (BCWP)		20,677	27,086	30,260	30,306	34,634	38,856	43,927	39,892				
CM Actuals (ACWP)		19,801	28,941	28,292	27,436	34,416	34,820	39,463	37,098				
CTD Plan (BCWS)	286,740	311,732	342,999	371,226	398,210	428,555	462,986	511,374	552,892	594,853	653,981	700,105	759,718
CTD Perf (BCWP)	281,299	301,976	329,062	359,322	389,628	424,262	463,118	507,045	546,937				
CTD Actuals (ACWP)	261,668	281,468	310,409	338,701	366,137	400,553	435,373	474,836	511,933				
CTD Actuals/FY ETC									511,933	553,841	608,828	659,929	725,406

## TPA Milestone Statistics

(Including target milestones)

Milestone	Due Date	Total Active as of 10/01/09	Milestone Number	Due Date	Milestone Number	Due Date
<b>M-42-00A</b> , Provide Additional DST Capacity	TBD	1	M-42-00A	TBD		
<b>M-45-00</b> , Complete Closure of all SST Farms	01/31/43	19	M-45-70 M-45-80 M-45-81 M-45-82 M-45-83 M-45-84 M-45-85  M-45-86	12/31/40 01/31/11 09/30/14 09/30/15 06/30/19 01/31/17 01/31/22  12 months after each tank retrieval	<b>M-45-13</b> <b>M-45-15</b> <b>M-45-56</b> <b>M-45-59</b>  <b>M-45-61</b> <b>M-45-62</b>  M-45-90 M-45-91 M-45-92  M-45-100  M-45-101	<b>06/30/11</b> <b>06/30/11</b> <b>TBD</b> <b>TBD</b>  12/31/14 06/30/15  09/30/10 09/30/10 09/30/16  60 days after milestone adoption  60 days after milestone adoption
<b>M-47-00</b> , Complete Work Necessary to Provide Facilities for Management of Secondary Waste from the WTP.	When WTP Achieves Initial Plant Operation	2	<b>M-47-00</b>	When WTP Achieves Initial Plant Operation	<b>M-47-06</b>	06/30/12
<b>M-62-00</b> , Complete Pretreatment Processing and Vitrification of Hanford High Level (HLW) and Low Activity (LAW) Tank Wastes	12/31/47	12	<b>M-62-01T</b> <b>M-62-01U</b>  M-62-20 M-62-21  M-62-30	<b>01/31/10</b> 07/31/10  06/30/10 02/28/23  12 months after milestone adoption	M-62-31-T01 M-62-32-T01 M-62-33-T01 M-62-34-T01 M-62-40 M-62-45 M-62-49	TBD TBD TBD TBD 10/31/10 04/30/15 10/31/11
<b>M-90-00</b> , Interim Storage and Disposal of LAW and Interim Storage of HLW	When WTP Achieves Hot Start	2	<b>M-90-00</b>	When WTP Achieves Hot Start	<b>M-90-11</b>	12/31/12

### FY 2006 MILESTONE PERFORMANCE



## Fiscal Year 2006 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R26	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	10/31/05	10/31/05								
M-048-07A-A	Complete construction of the AZ-301 condensate return system and remove the AZ-151 catch tank system from service by October 31, 2005. This scheduled deliverable is a subset of M-48-07A, and thus labeled as M-48-07A-A.	10/31/05	10/24/05								
M-046-21	Complete Implementation Of Double Shell Tank Space Optimization Study Recommendations (Tank Space Options Report Document No. RPP-7702, April 12, 2001).	12/31/05	12/15/05								
M-062-01L	Submit Semi-Annual Project Compliance Report.	01/31/06	01/31/06								
M-045-02M	Submit biennial update to SST retrieval sequence document (agreement Appendix I. Section 2.1.2), double-shell tank space evaluation document and Ecology concurrence of additional tank acquisition.	3/1/06	3/13/06								

## Fiscal Year 2006 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
M-048-07A-B	Completion of construction for the 241-AP-106A central pump pit upgrade (remove existing equipment, evaluate pit integrity, and replace pit coating, if necessary). This scheduled deliverable is a subset of M-48-07A, and thus labeled as M-48-07A-B.	3/31/06	3/30/06								
M-048-14	Submit Written Integrity Report For The Double-Shell Tank System.	3/31/06	3/31/06								
M-047-05A	Complete startup and turnover activities for waste retrieval and mobilization systems for selected initial low-activity waste feed tank (other than AZ-101 or AZ-102).	4/30/06	12/29/04								
M-45-55-T04	Submit to Ecology for review and comment a draft Field Investigation Report combining the results of field investigations and analysis for WMAs A-AX, C and U. As part of the Phase 2 Vadose Zone project renegotiations being developed, this target milestone scope has been included in M-45-55 Phase 1 rollup documentation due in 1/08.	4/30/06								X	

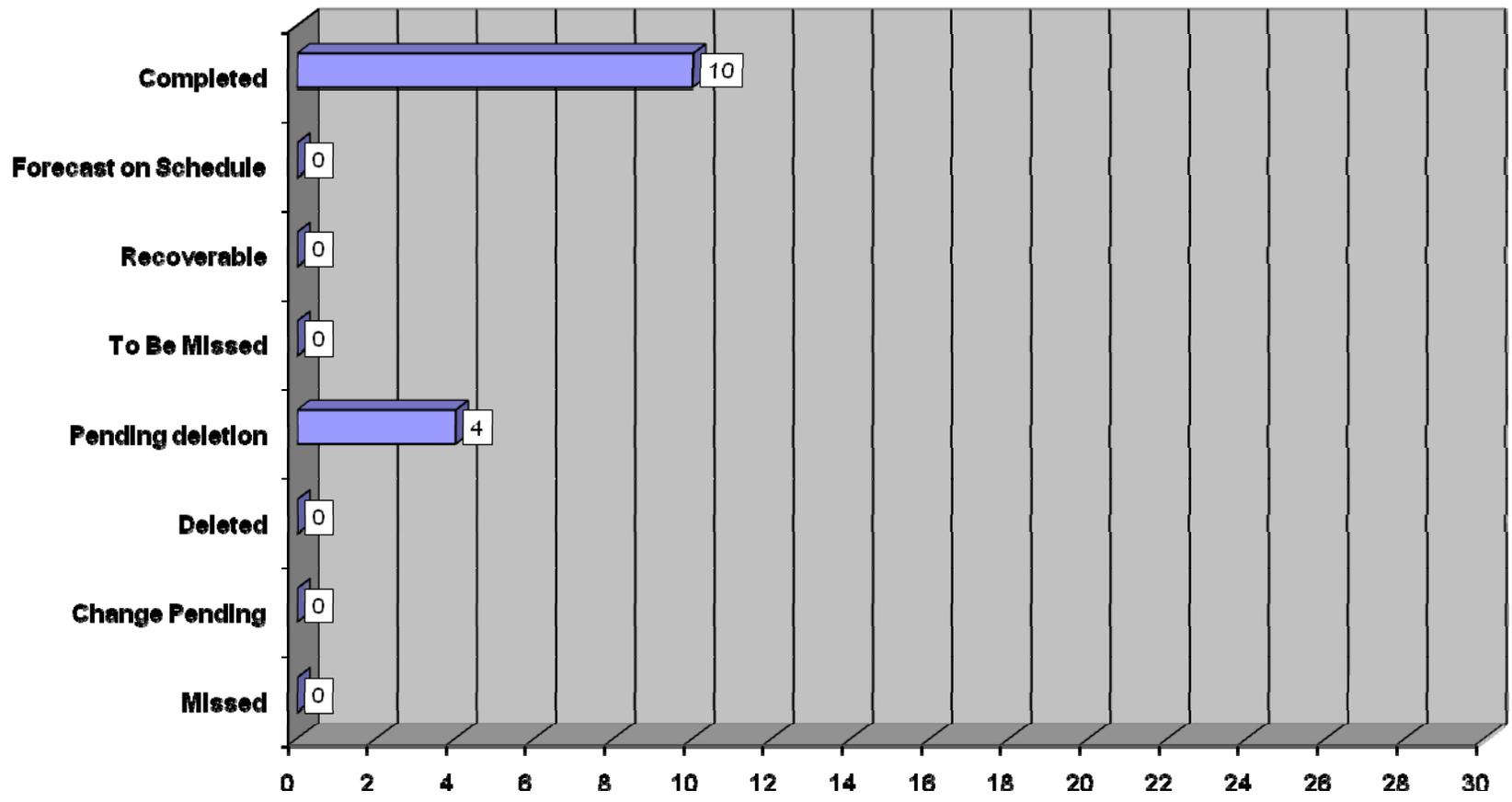
## Fiscal Year 2006 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
M-048-07A	Complete construction of the AZ-301 condensate return system and pit upgrades. This includes: 1) Complete construction of the AZ-301 condensate return system and remove the AZ-151 catch tank system from service [see M 45-07A-A]; 2) Complete construction of AP-106A Central Pump upgrade [M-48-07A-B]; and 3) complete construction of SY-B Valve Pit upgrade [see M 48-07A-C].	06/30/06	06/08/06								
M-048-07A-C	Completion of construction for the 241-SY-B valve pit upgrade (remove existing equipment, evaluate pit integrity, and replace pit coating, if necessary). This scheduled deliverable is a subset of M-48-07A, and thus labeled as M-48-07A-C.	06/30/06	06/08/06								
M-048-07B	The Disposition of all Double-Shell Tank Transfer System Components that will not remain in use beyond June 30, 2005.	06/30/06	6/22/06								
M-062-08	Submittal Of Hanford Tank Waste Supplemental Treatment Technologies Report, Draft Hanford Tank Waste Treatment Baseline, And Draft Negotiations Agreement In Principle (AIP).	06/30/06							X		

## Fiscal Year 2006 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
M-045-56B	Ecology and DOE agree, at a minimum, to meet yearly (by July or as needed to support annual budgeting) for the specific purpose of assessing the adequacy of information, and the need for the establishment of additional agreement interim measures.	07/01/06	07/01/06								
M-062-01M	Submit Semi-Annual Project Compliance Report.	07/31/06	07/31/06								
M-045-00B	Complete specified "near term" SST waste retrieval and interim closure activities, to result in the retrieval of all tank wastes in WMA-C SSTs pursuant to the agreement criteria in milestone M-45-00.	09/30/06							X		
M-045-00C	Initiate negotiation of SST waste retrieval and closure activities and associated schedules (for the period February 07 through August 08).	09/30/06							X		

### FY 2007 MILESTONE PERFORMANCE



## Fiscal Year 2007 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R30	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	10/31/06	10/31/06								
M-062-03	Submit DOE Petition for RCRA Delisting of Vitrified HLW.	12/31/06	12/22/06								
M-045-00C-A	Ecology and DOE negotiations under this milestone shall be completed within 120 days. In the event the parties do not reach agreement within timeframe, the negotiations will be resolved as a resolution of dispute via final determination. Unless otherwise agreed by Ecology and DOE, this final determination will be issued within 150 days of initiation of negotiations.	01/28/07							X		
M-062-01N	Submit Semi-Annual Project Compliance Report.	01/31/07	01/31/07								
D-001-00-R31	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	01/31/07	01/26/07								

## Fiscal Year 2007 Tri-Party Agreement Milestone Status

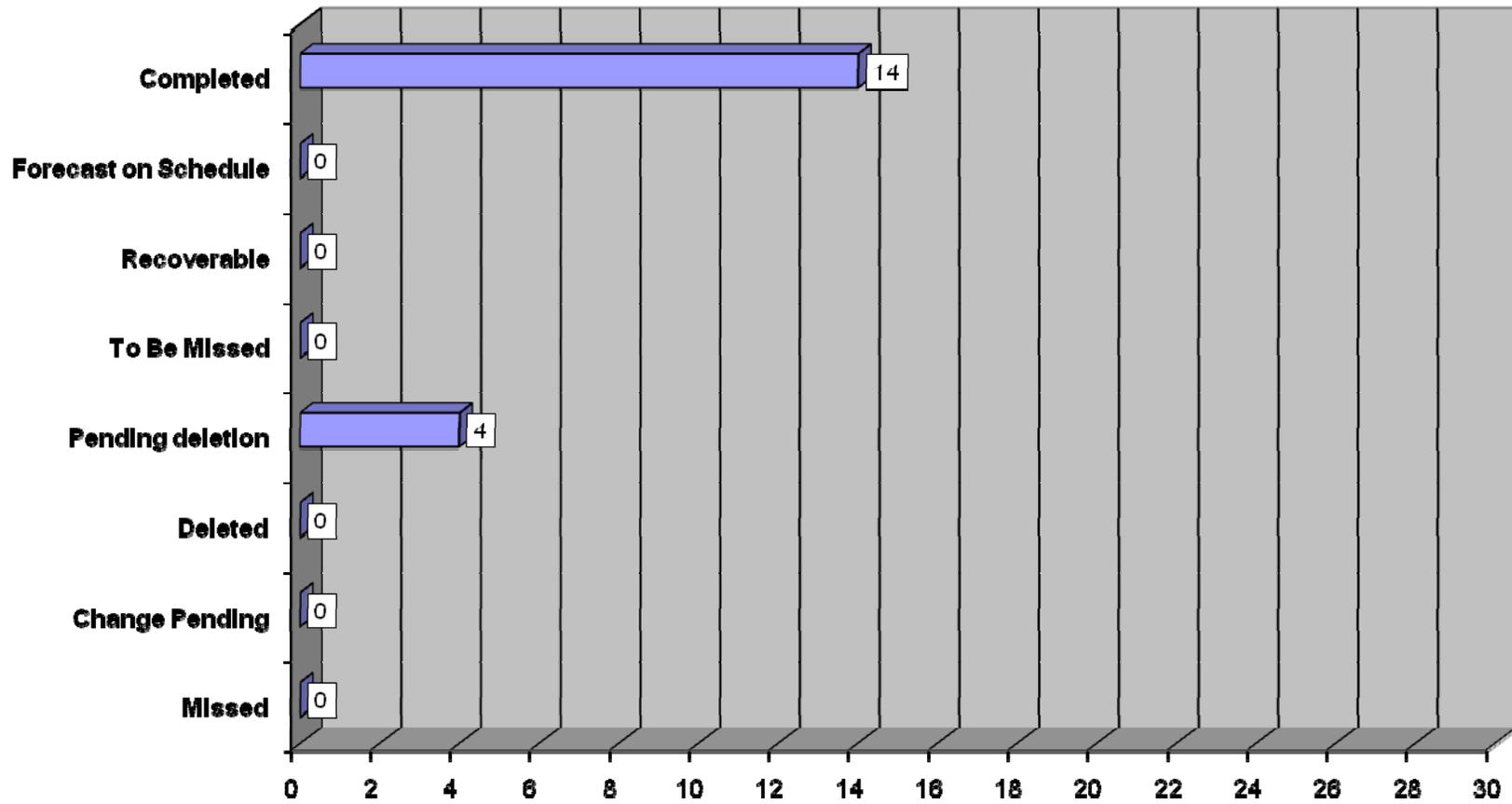
Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
M-045-05A	Complete Waste Retrieval from S-102.	3/31/07							X		
D-001-00-R32	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	04/30/07	04/27/07								
M-062-11	Submit a Final Hanford Tank Waste Treatment Baseline. Following completion of negotiations required by M-62-08, DOE will modify its draft baseline as required and submit its revised, agreed-to baseline for treating all Hanford Tank Waste (HLW, LAW, and TRU) by 12/31/2028.	06/30/07							X		
M-045-56C	Ecology and DOE agree, at a minimum, to meet yearly (by July or as needed to support annual budgeting) for the specific purpose of assessing the adequacy of information, and the need for the establishment of additional agreement interim measures.	07/31/07	07/24/07								

## Fiscal Year 2007 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R33	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	07/31/07	07/30/07								
M-062-01O	Submit Semi-Annual Project Compliance Report.	07/31/07	07/31/07								
M-048-15	Submit a report to Ecology for the re-examination of six (6) DSTs by ultrasonic testing in all areas previously examined to provide comparative data from which to calculate corrosion rates in each of the six DSTs examined.	09/30/07	09/26/07								
M-045-05-T05	Initiate tank retrieval from five additional single-shell tanks.	09/30/07							X		
M-048-00	Complete Tank Integrity Assessment activities for Hanford's Double Shell Tank (DST) system.	09/30/07	09/26/07								

\* Milestone has been completed by ORP; Ecology has not yet concurred.

### FY 2008 MILESTONE PERFORMANCE



### Fiscal Year 2008 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R34	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	10/31/07	10/31/07								
M-045-13-A	Submit to Ecology a Retrieval Data Report for S-112 pursuant to Agreement Appendix I.	12/31/07	12/21/07								
M-045-13-B	Remaining waste has been adequately characterized, and a risk assessment completed for S-112 residuals that remain in the tank.	12/31/07	12/21/07								
M-062-07B	Complete Assembly of LAW Vitrification Facility melter #1 and complete move of #1 melter into the HLW Vitrification Facility	12/31/07							X		
M-062-01P	Submit Semi-Annual Project Compliance Report.	01/31/08	01/31/08								
M-045-55	Submit to Ecology a Phase 1 RFI report integrating results of data gathering activities and evaluations for all SST WMAs.	01/31/08	01/30/08								

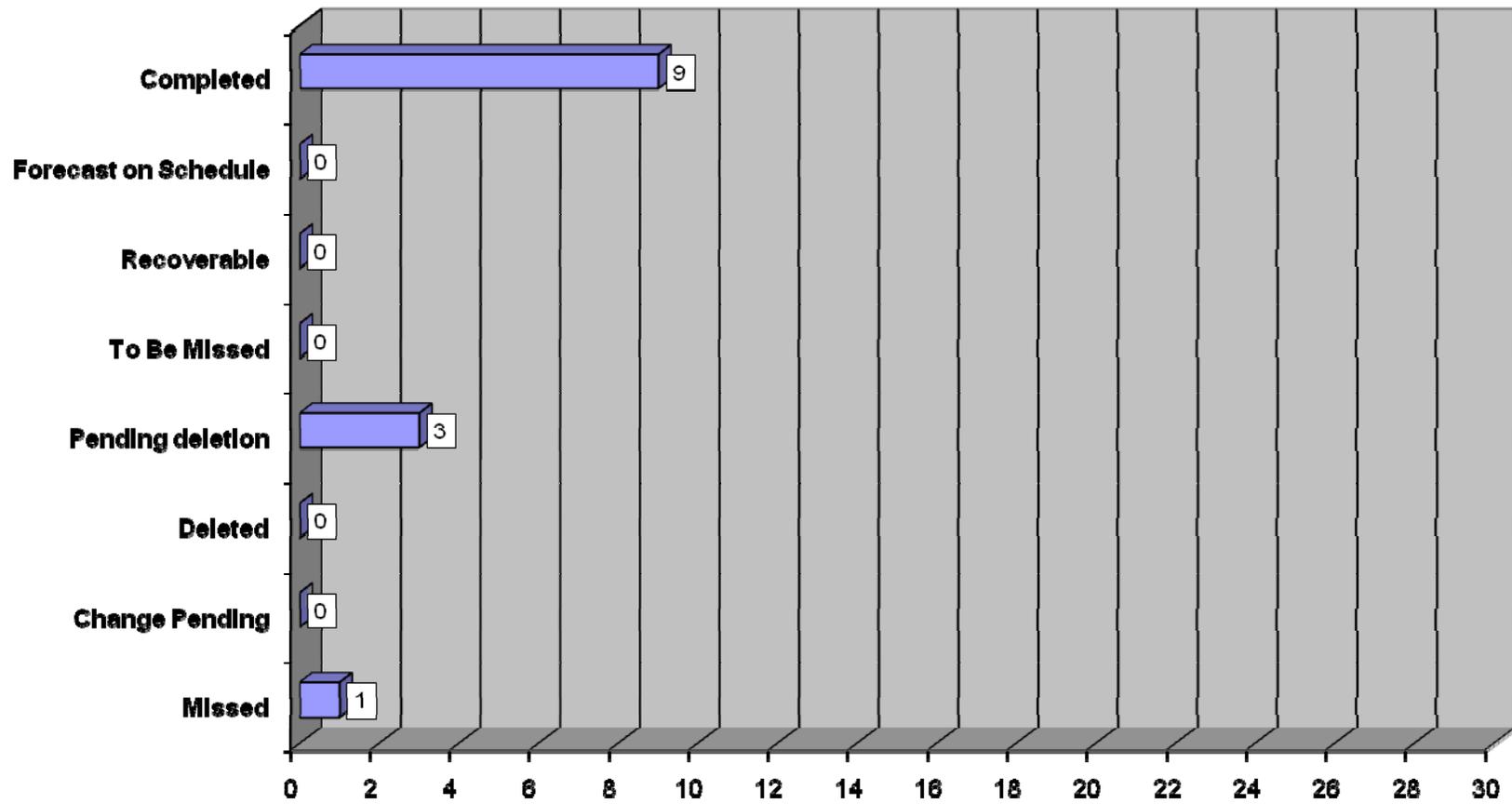
### Fiscal Year 2008 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R35	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	01/31/08	01/31/08								
M-045-00D	Initiate negotiations of SST waste retrieval and closure for 2008-2013.	01/31/08							X		
M-045-02N	Submit Biennial Update.	03/01/08	02/29/08								
M-045-02N-A	Three Parties shall meet to establish new milestones within 60 days, if required, for acquisition of additional tanks.	06/02/08	01/22/09								
D-001-00-R36	DOE shall, on a quarterly basis, submit to ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	04/30/08	04/30/08								
M-045-00D-A	Negotiations shall be complete within 150 days.	06/29/08							X		

### Fiscal Year 2008 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
M-045-56D	Ecology and DOE agree, at a minimum, to meet yearly (by July or as needed to support annual budgeting) for the specific purpose of assessing the adequacy of information, and the need for the establishment of additional agreement interim measures.	07/31/08	07/22/08								
D-001-00-R37	DOE shall, on a quarterly basis, submit to ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	07/31/08	07/31/08								
M-062-01Q	Submit Semi-Annual Project Compliance Report.	07/31/08	07/30/08								
M-090-10	Ready to accept placement of ILAW in ILAW Disposal Facility.	08/31/08	02/13/07								
M-45-05-T06	Initiate tank retrieval from five additional SSTs.	09/30/08							X		
M-045-XX	Remove pumpable liquid from Catch Tank S-302	9/30/08	9/30/08								

### FY 2009 MILESTONE PERFORMANCE



### Fiscal Year 2009 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R38	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	10/31/08	10/28/08								
M-045-58	Submit to Ecology for Review and Approval as an Agreement Primary Document Phase 2 Master Work Plan that describes the proposed approach for the completion of Corrective Action to meet final closure requirements in the Waste Management Areas as described in Appendix I, Section 2.3	12/31/08	12/18/08								
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.	12/31/08	12/18/08								
M-062-01R	Submit Semi-Annual Project Compliance Report	01/31/09	01/30/09								

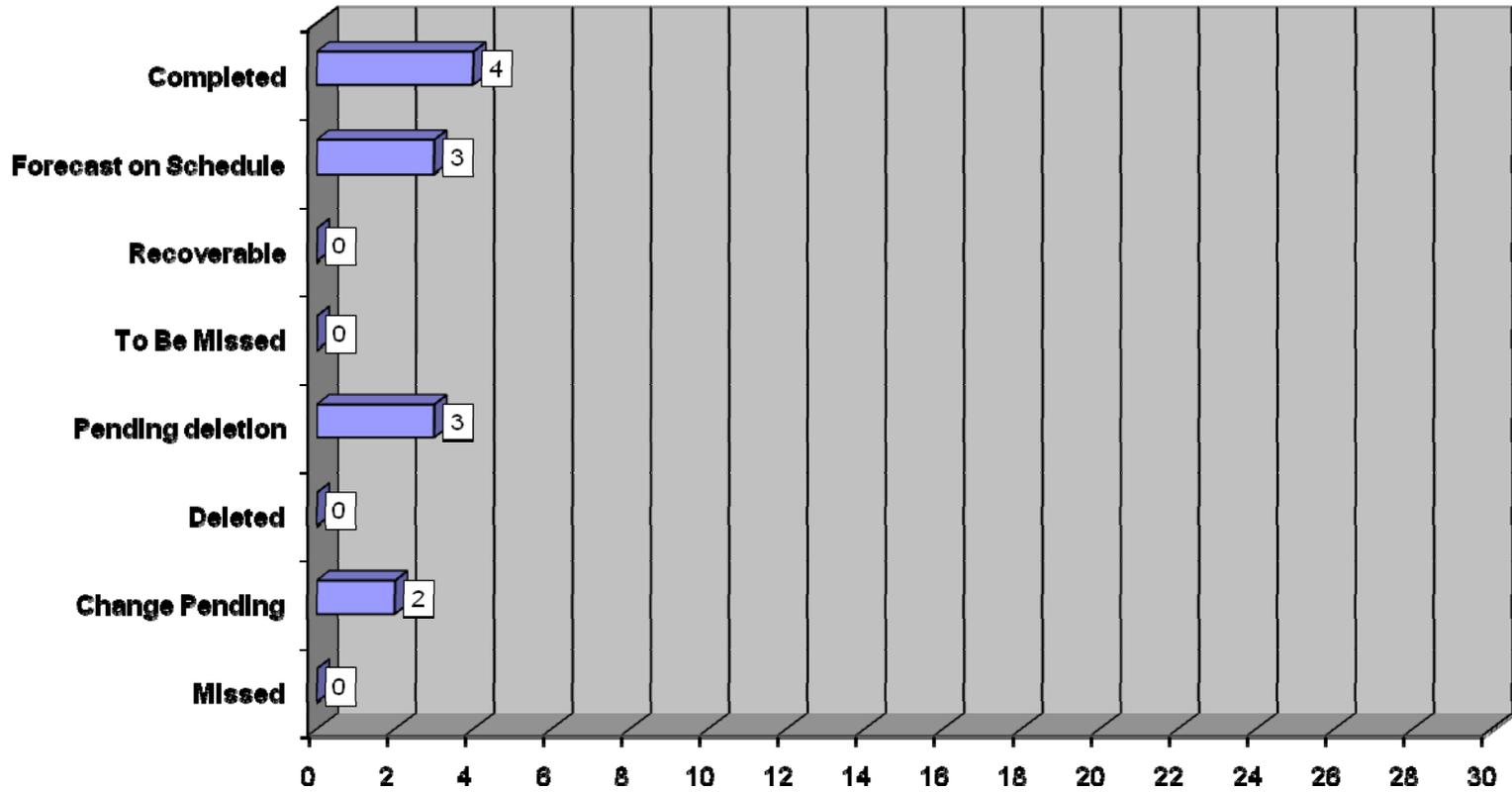
### Fiscal Year 2009 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R39	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	01/31/09	01/30/09								
M-062-09	Start Cold Commissioning – Waste Treatment Plant	02/28/09							X		
M-47-03A	Complete startup/turnover for waste retrieval mobilization systems for selected initial tank high-level waste feed tank	03/31/09							X		
D-001-00-R40	DOE shall, on a quarterly basis, submit to ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	04/30/09	04/29/09								
M-045-56E	Ecology and DOE agree, at a minimum, to meet yearly (by July or as needed to support annual budgeting) for the specific purpose of assessing the adequacy of information, and the need for the establishment of additional agreement interim measures.	07/31/09	07/21/09								

### Fiscal Year 2009 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R41	DOE shall, on a quarterly basis, submit to ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	07/31/09	07/31/09								
M-062-01S	Submit Semi-Annual Project Compliance Report	07/31/09	07/31/09								
M-045-05-T07	Initiate tank retrieval from 7 additional SSTs	09/30/09						X	X		

### FY 2010 MILESTONE PERFORMANCE



### Fiscal Year 2010 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00R-42	Quarterly Report	10/31/09	10/28/09								
D-001-00R-43	Quarterly Report	01/31/09	1/28/10								
D-001-00R-44	Quarterly Report	04/30/10	4/30/2010								
D-001-00R-45	Quarterly Report	07/31/10		X							
M-45-02O	Biennial Update to SST Waste Retrieval Sequence	03/01/10							X		
M-45-02O-A	New SST milestones within 60 days	04/30/10							X		
M-45-05-T08	Initiate Tank Retrieval from 8 Additional SSTs	09/30/10							X		
M-45-56F	Ecology and DOE agree, at a minimum, to meet yearly (by July or as needed to support annual budgeting) for the specific purpose of assessing the adequacy of information, and the need for the establishment of additional agreement interim measures.	07/31/10		X							
M-62-01T	Submit Semi-Annual Project Compliance Report	01/31/10	1/29/10								
M-62-01U	Submit Semi-Annual Project Compliance Report	07/31/10		X							
M-47-06	Complete Negotiation of Agreement Requirements-Treatment Complex	06/30/10									X

### Fiscal Year 2010 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
M-90-11	Complete Canister Storage Facility Construction	08/31/10									X

## **Milestone M-47-00, Complete Work Necessary to Support Acquisition and Phase I Operations of Hanford Site High-Level Radioactive Waste Treatment, Storage, and Disposal Facilities**

### **I. Near-Term Deliverables:**

- **M-47-03A, Complete startup and turnover activities for waste retrieval and mobilization systems for selected initial high-level waste feed tank**  
Due: 03/31/09  
Status: Missed.
- **M-47-06, Complete negotiation of additional agreement requirements (milestones, target dates, and associated language) governing work necessary to support completion of treatment complex Phase I operations by 2018**  
Due: 06/30/10  
Status: Negotiations are not yet underway.

### **II. Significant Accomplishments:**

None.

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

None.

### **IV. Near-term Actions Needed by DOE or Ecology:**

None.

### **V. Issues:**

Nothing to report.

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

### 242-A Campaign strategy:

- FY10. 1 campaign using AW-106 as the feed and slurry tank. This waste requires 1 pass to achieve forecast waste volume reduction.
- FY11. 2 campaigns with feed from AP-107 and AZ-102. Slurry tanks will be AP-104/AP-107.
- FY12. 1 campaign with feed from AY-101 and slurry to AP-107. This campaign replaces a Cold Run in the baseline.

Fiscal Year	Campaign No.	Feed Source	Slurry Tank	Comments
FY09	09-01	AP-101/ AP-105	AP-104	Entered OPERATION MODE on 3/17/09 and returned to SHUTDOWN MODE on 6/25/09. Campaign 09-01/09-02
FY09	09-02	AP-101/ AP-105	AP-104/ AP-101	processed approximately 2.1mgal of DST waste achieving 948kgals (45%) waste volume reduction.
FY10	10-01	AW-106	AW-106	Planned waste processing start August 2010.
FY11	11-01	AP-107	AP-104	Planned start March 2011. Campaigns 11-01 and 11-02 to be performed back-to-back
FY11	11-02	AZ-102	AP-104/ AP-107	
FY12	12-01	AY-101	AP-017	Planned start March 2012.
FY13	13-01	AY-101	AP-017	Planned start March 2013.

**Milestone M-90-00, Complete Acquisition of New Facilities, Modifications of Existing facilities, and/or Modifications of Planned Facilities, as Necessary for Storage of Hanford Site Immobilized High Level Waste (IHLW), Immobilized Low Activity Waste (ILAW), and Disposal of ILAW, and M-20-00, Submit Part B Permit Applications**

**I. Near-Term Deliverables:**

- **M-90-10, Ready to Accept Placement of ILAW Waste in ILAW Disposal Facility**  
Due: 8/31/08  
Status: Complete.
- **M-90-11, Complete Canister Storage Facility Construction**  
Due: 8/31/10  
Status: To Be Missed. To be renegotiated to align with WTP schedule.

**II. Significant Accomplishments:**

None to report.

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

None to report.

**IV. Issues**

None to report.

## **Milestone M-62-00, Complete Pretreatment Processing and Vitrification of Hanford High-Level (HLW) and Low-Activity (LAW) Tank Wastes**

### **I. Near-Term Deliverables:**

- **M-62-00, Complete Pretreatment Processing and Vitrification of Hanford High-Level (HLW) and Low-Activity (LAW) Tank Wastes**  
Due: 12/31/2028  
Status: To Be Missed.
- **M-62-00A, Complete WTP Pretreatment Processing and Vitrification of Hanford HLW and LAW Tank Wastes**  
Due: 02/28/2018  
Status: To Be Missed.
- **M-62-01R, Submit Semi-Annual Project Compliance Report**  
Due: 12/31/2009  
Status: Complete.
- **M-62-01S, Submit Semi-Annual Project Compliance Report**  
Due: 07/31/2009  
Status: Complete.
- **M-62-01T, Submit Semi-Annual Project Compliance Report**  
Due: 12/31/2010  
Status: Complete.
- **M-62-01U, Submit Semi-Annual Project Compliance Report**  
Due: 07/31/2010  
Status:
- **M-62-07B, Complete Assembly of Low Activity Waste Vitrification Facility Melter #1 So That It Is Ready for Transport and Installation in the LAW Vitrification Building (BNI Baseline Schedule Activity 4DL321A200 as Part of DOE Contract No. DEAC27-01RV14136), and Complete Schedule Activity ID 4DH46102A2 – Move #1 Melter into the High Level Waste Vitrification Facility**  
Due: 12/31/2007  
Status: Missed.
- **M-62-08, Submittal of Hanford Tank Waste Supplement Treatment Technologies Report, Draft Hanford Tank Waste Treatment Baseline and Draft Negotiations Agreement in Principle**  
Due: 06/30/2006

Status: Missed.

- **M-62-09, Start Cold Commissioning – Waste Treatment Plant**

Due: 02/28/2009

Status: To Be Missed (based on current DOE Baseline planning).

- **M-62-10, Complete Hot Commissioning – Waste Treatment Plant**

Due: 01/31/2011

Status: To Be Missed (based on current DOE Baseline planning).

- **M-62-11, Submit a Final Hanford Tank Waste Treatment Baseline**

Due: 06/30/2007

Status: Missed.

## **II. Significant Accomplishments:**

None to report.

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

None to report.

## **IV. Issues:**

None

## Hanford Waste Treatment and Immobilization Plant (WTP) Project

There are about 3,150 FTE equivalent contractor [Bechtel National Inc. (BNI)] and subcontractor personnel working on the WTP Project, including 912 craft, 409 non-manual, and about 286 subcontractor personnel FTE equivalents working at the WTP construction site (all facilities). Overall project percent complete through May 2010 is 55%, design and engineering is 80% complete, and construction is 51% complete.

The overall WTP Project schedule variance (SV) was positive in April at \$2.2M, the Cost Variance (CV) was a negative (\$1.1M). The negative CV came from Engineering, and Construction Subcontracts.

Following is the status through the end of May for current project issues:

### Material at Risk (MAR)

The MAR/HPAV Integrated Change Package (ICP) Safety Evaluation Report (SER) was approved by the ORP Manager on October 31, 2009, with four Conditions of Acceptance (COA). The four COAs address the following subject areas: (1) Hydrogen in Piping and Ancillary Vessels (HPAV) piping design criteria (Closed in February 2010); (2) BNI to develop a plan and schedule for resolving technical comments on six primary reports referenced in the SER (Completed in December 2009); (3) Develop a plan and schedule for resolving the uncertainties identified in PDSA Addendum Section 2.7 (No further action); and (4) BNI will recommend application of seismic criteria for piping performing a safety significant confinement function (Closed in March 2010). The ICP approval enables elimination of many active process controls located outside of the hot cell and reclassification of several Safety Class controls to Safety Significant, while retaining a core set of Safety Class controls sufficient to ensure safety for the public and the workers. ORP considers these changes essential to ensuring a more reliable Pretreatment Facility that is critical to fulfilling the tank waste treatment mission, the cornerstone to the cleanup of tank waste at Hanford. The schedule for completion of the COAs was aligned with critical design and procurement need dates, so overall construction schedules are not affected.

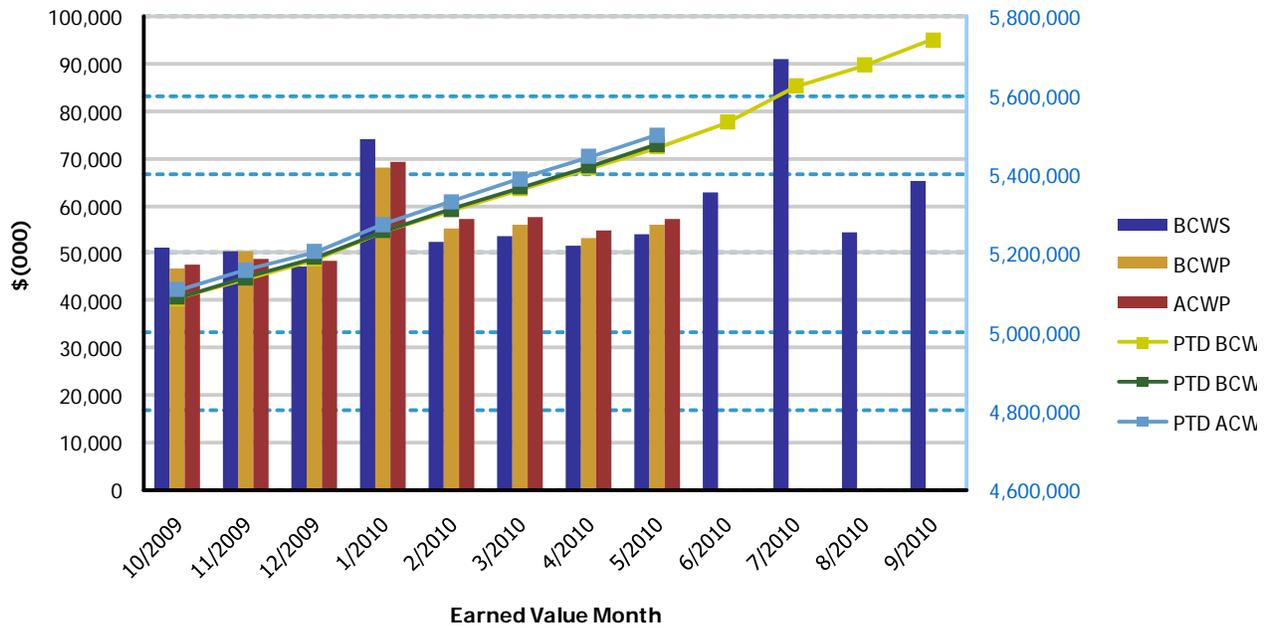
### Hydrogen in Piping and Ancillary Vessels (HPAV)

Based on discussions between DOE, BNI and the Defense Nuclear Facility Safety Board (DNFSB), BNI has chartered an independent review team to address Hydrogen in Piping and Ancillary Vessels (HPAV) hazard at the Pretreatment Facility (PTF). The HPAV Independent Review Team (HIRT) has reviewed the design criteria (approved by ORP in February 2010) and proposed implementation methods for evaluating postulated hydrogen events (deflagration and detonation) in piping and ancillary vessels in the PTF. The results of the review have been briefed to the DNFSB on July 8, 2010 and the HIRT report documenting their review has been provided to BNI as of July 2010. A corrective action plan is being developed by BNI to address the review team comments and will be completed in August 2010.

## WTP – Fiscal Year To-Date Performance

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

Monthly EVMS Monthly and Project -to-Date (PTD) Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	PTD BCWS	PTD BCWP	PTD ACWP	PTD SPI	PTD CPI
Oct 2009	\$51,264	\$46,742	\$47,659	0.91	0.98	\$5,085,500	\$5,087,621	\$5,107,437	1.00	1.00
Nov 2009	\$50,479	\$50,256	\$48,883	1.00	1.03	\$5,135,979	\$5,137,877	\$5,156,320	1.00	1.00
Dec 2009	\$47,078	\$50,905	\$48,202	1.08	1.06	\$5,183,057	\$5,188,782	\$5,204,522	1.00	1.00
Jan 2010	\$74,085	\$68,098	\$69,303	0.92	0.98	\$5,257,142	\$5,256,880	\$5,273,825	1.00	1.00
Feb 2010	\$52,534	\$55,070	\$57,409	1.05	0.96	\$5,309,676	\$5,311,950	\$5,331,234	1.00	1.00
Mar 2010	\$53,617	\$56,053	\$57,679	1.05	0.97	\$5,363,293	\$5,368,003	\$5,388,913	1.00	1.00
Apr 2010	\$51,463	\$53,194	\$54,714	1.03	0.97	\$5,414,756	\$5,421,197	\$5,443,627	1.00	1.00
May 2010	\$53,809	\$56,024	\$57,113	1.04	0.98	\$5,468,565	\$5,477,221	\$5,500,740	1.00	1.00
Jun 2010						\$5,531,357				
Jul 2010						\$5,622,454				
Aug 2010						\$5,677,002				
Sep 2010						\$5,742,093				

FY- To-Date	\$434,329	\$436,342	\$440,962	1.00	0.99					
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**Pretreatment (PT) Facility – June 2010 Accomplishments (May 10 EVM Data)**

The PT Facility will separate radioactive tank waste into High-Level Waste (HLW) and Low-Activity Waste (LAW) fractions and transfer each waste type to the respective vitrification facility for immobilization. Overall facility percent complete is 51%, engineering/design is 79% complete, and construction is 31% complete.

Overall construction continues to perform well, especially in the area of concrete and steel installation. Construction installations for the month of June include: 422 cubic yards (CY) of concrete and 84 tons of structural steel. Concrete placements that included placement of two slabs remain ahead of the cumulative baseline schedule. The plan to place three 4<sup>th</sup> lift walls was pushed out to July in order to coordinate the simultaneous placement of these adjoining walls.

Installation of HVAC ducts continues to support the recovery plan developed to meet the baseline schedule by April 2011. Rebar installation continues to support additional slab placements at the 77-ft elevation. Progress on the setting of 5<sup>th</sup> lift wall rebar curtains continues and supports the first 5<sup>th</sup> lift wall placements scheduled for August. Structural steel installation continues to progress. Installation of piping and liner plates, welding of vessels in Black Cells; installation of HVAC ductwork, fabrication of rebar curtains, application of Special Protective coatings, and installation of hotcell crane rail girder are on-going.

3039 ft of piping isometric drawings have been issued this month exceeding the cumulative baseline. Engineering completed the calculation for UFP-VSL-00062C. C&I issued datasheets for a total of 289 components. Structural steel drawings were issued, releasing the roof decking at the 120 foot elevation. A contract was awarded for 32 jet pump pairs. Material Requisitions were issued to purchase the pulse jet mixer/reverse flow diverter drive and suction valves. The filter cave coupled analysis calculation was not issued due to some stress concerns raised during the review process. These concerns are being addressed and should be resolved for calculation issuance in July.

Accelerated work continues in the areas of 5<sup>th</sup> lift wall placements and the installation of piping in various Black Cells. Both of these advancements will reduce future schedule risks, and allow acceleration of some future activities. Piping install rates continue to improve over the past months.

Re-analysis and fabrication modifications of vessels due to seismic and other dynamic load increases are ongoing. Furthermore changes, as a result of M3 resolution, are impacting the design analysis of some vessels. Additional vendors are being sought to mitigate the BNI resource constraints for the

vessel analysis. Design and fabrication of vessels UFP-1A and 1B, and HLP-27A and 27B, is the current critical path for PT. Recently, fabrication for UFP-1A was suspended in anticipation of the potential modification resulting from M3 testing. The final UFP- 1A/B re-analysis and drawing issuance with M3 changes incorporated is forecasted to be complete in March 2011. Mitigating efforts are underway that would allow advancement of portions of the modifications in order to accelerate completion. In order to aid with the changes, some of the vessel modifications will be contracted out to mitigate the contractor resource constraints and expedite fabrication. Ecology was briefed on June 9, regarding the schedules for the analysis and fabrication of all these vessels. Discussions are ongoing with Ecology regarding the types of permit modifications required for the on-site vessel modifications, and their impacts of the schedule.

The HPAV Independent Review Team (HIRT) completed their review. The review resulted in approximately 30 findings and 30 recommendations. The plan is to issue the report by the middle of July with a follow-up briefing to the DNFSB by the end of July. Some of the general conclusions were that the most substantial work required is in the area of QRAs. They further concluded that the design criteria and fatigue analysis is consistent with the code and that the fragmentation failure is not credible.

The BNI/ORP Technical Steering Group has formally concurred in closing vessel assessments for 33 of 38 vessels on June 30, 2010. 9 of these vessels require PJM modifications. The only vessels remaining are the 5 non-Newtonian vessels. ORP has completed its review of the BNI assessment report, and is continuing with the comment resolutions.

An independent review was completed by Savannah River National Laboratory chartered by BNI. This review concluded: Waste characterization data is adequate for use in the design of the non-Newtonian PJM mixing systems, the proposed lower bound rheology is not readily measureable and should be raised, the draft vessel mixing assessment did not clearly present a defensible assessment, the solids heel management strategy was found to be a prudent engineering design feature, and recommended additional analysis and potentially testing to reduce the risk of vessel performance.

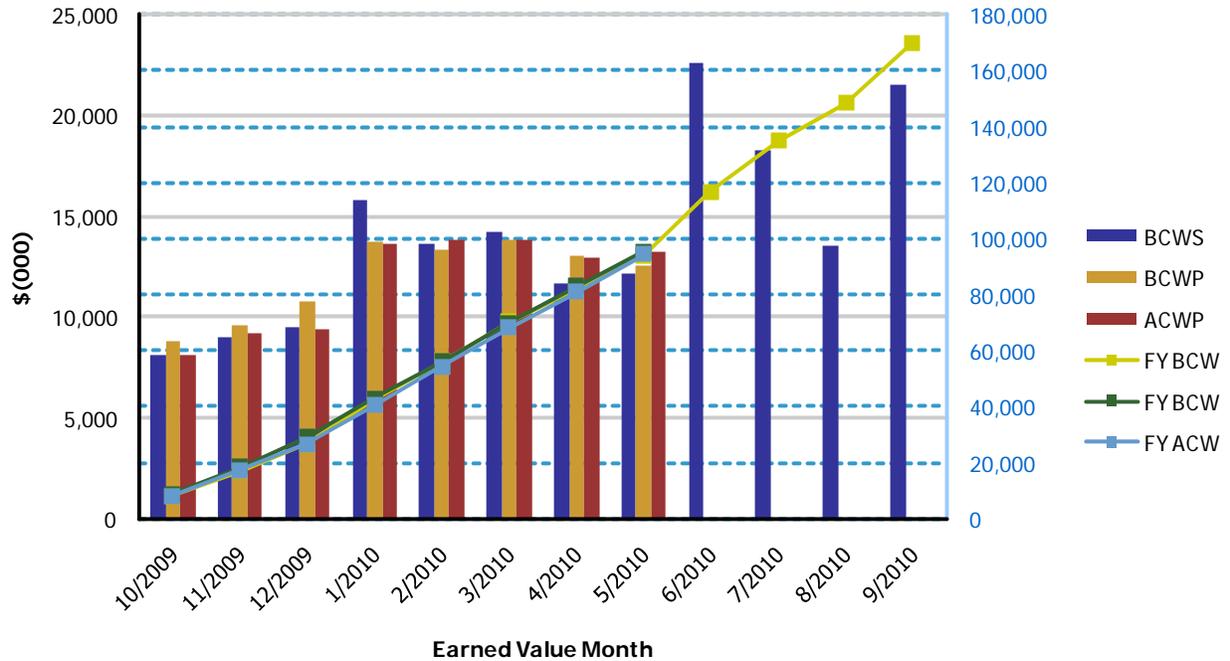
Resolution of major technical issues is inter-related and proper coordination of engineering efforts is needed to minimize the amount of document rework resulting from implementation of technical solutions. The full impact of implementation will not be known until the integrated plans for all currently known technical issues are developed. The completion of these plans is forecasted to be complete in September 2010.

Upcoming significant planned accomplishments for July include completion of the filter cave coupled analysis, fabrication of the Pulse Jet Ventilation Demisters, continue alignment and installation of hot cell crane girders, and placements of two slabs and three walls.

There are no near-term Consent Decree Milestones.

**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 2009	\$8,121	\$8,762	\$8,153	1.08	1.07	\$8,121	\$8,762	\$8,153	1.08	1.07
Nov 2009	\$8,991	\$9,625	\$9,213	1.07	1.04	\$17,112	\$18,387	\$17,366	1.07	1.06
Dec 2009	\$9,493	\$10,767	\$9,366	1.13	1.15	\$26,605	\$29,154	\$26,732	1.10	1.09
Jan 2010	\$15,776	\$13,724	\$13,599	0.87	1.01	\$42,381	\$42,878	\$40,331	1.01	1.06
Feb 2010	\$13,597	\$13,349	\$13,852	0.98	0.96	\$55,978	\$56,227	\$54,183	1.00	1.04
Mar 2010	\$14,245	\$13,801	\$13,823	0.97	1.00	\$70,223	\$70,028	\$68,006	1.00	1.03
Apr 2010	\$11,668	\$13,040	\$12,983	1.12	1.00	\$81,891	\$83,068	\$80,989	1.01	1.03
May 2010	\$12,117	\$12,562	\$13,231	1.04	0.95	\$94,008	\$95,630	\$94,220	1.02	1.01
Jun 2010	\$22,626					\$116,634				
Jul 2010	\$18,224					\$134,858				
Aug 2010	\$13,546					\$148,404				
Sep 2010	\$21,528					\$169,932				

PTD	\$993,612	\$1,007,355	\$977,409	1.01	1.03
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**High-Level Waste (HLW) Facility – June 2010 Accomplishments (May 10 EVM Data)**

The HLW Facility will receive the high-level waste fraction from the Pretreatment (PT) Facility. The concentrate is sampled and analyzed to determine the optimum blend of glass formers to add to the waste that will produce a vitrified waste form that is compliant with disposal requirements and will also meet the required production rate. The blended slurry is converted into molten glass in one of the two HLW melters and then poured into cylindrical stainless steel canisters for cooling. The canisters are sealed and moved to a decontamination cell where any surface contamination is removed prior to shipment to interim or final storage. HLW engineering design is 85% complete and construction is 27% complete. The facility is 52% complete overall.

The HLW Facility and WTP Project critical path schedule to complete build-out of the Filter Cave is being maintained. The Filter Cave contains the HLW Facility's primary ventilation (C5V) filtration units, as well as the pulse jet vent (PJV) and melter off-gas filtration (HOP) systems. The radial HEPA filters are replaced with a crane-mounted power manipulator controlled remotely by an operator outside the Filter Cave. The secondary C5V HEPA filters are moving to a room above the Filter Cave and being converted to "safe-change" units in order to maintain facility ventilation in case the primary filters become loaded and the Filter Cave crane is disabled or unavailable. The vendor's HEPA Filter Housing seismic analysis began in March 2010 and is scheduled to complete in early August. The Remote Operated Damper vendor has also initiated its seismic analysis and scheduled to complete the end of August. BNI civil and structural engineers completed the detailed design and analysis of the large bore ducting in June. The isometric drawings of the large-bore C5V duct will be completed and issued to construction in July. For constructability sequencing reasons, the Filter Cave's sizable offgas components, support steel, and large-bore ducting will be placed via crane "over the top" of the surrounding Filter Cave walls and installed before the slab overhead (slab 3027 at the +40' elevation) is placed in May 2012.

WTP Engineering issued 820 tons of rebar drawings for elevation 58'-72' walls as well as 162 piping isometric drawings (representing nearly 1,500 lineal feet of piping) to construction. Other HLW engineering design issued control logic diagrams for the nitric acid reagent (NAR) and demineralized water (DIW) systems, and completed the penetration schedule for the 37-foot elevation. In addition, WTP Engineering issued drawings for 30 tons of deck plate for the Filter Cave and reviewed nearly 700 liner plate and structural steel fabrication drawings.

The fascia for the Melter Cave C5 Shield Doors was released for shipment in June as well as the Canister Storage Cave crane maintenance shield door for the HLW canister export handling (HEH) system. Multiple electrical joggles and the master-slave manipulator for the filter cave handling (HFH) system were released and shipped by the vendors.

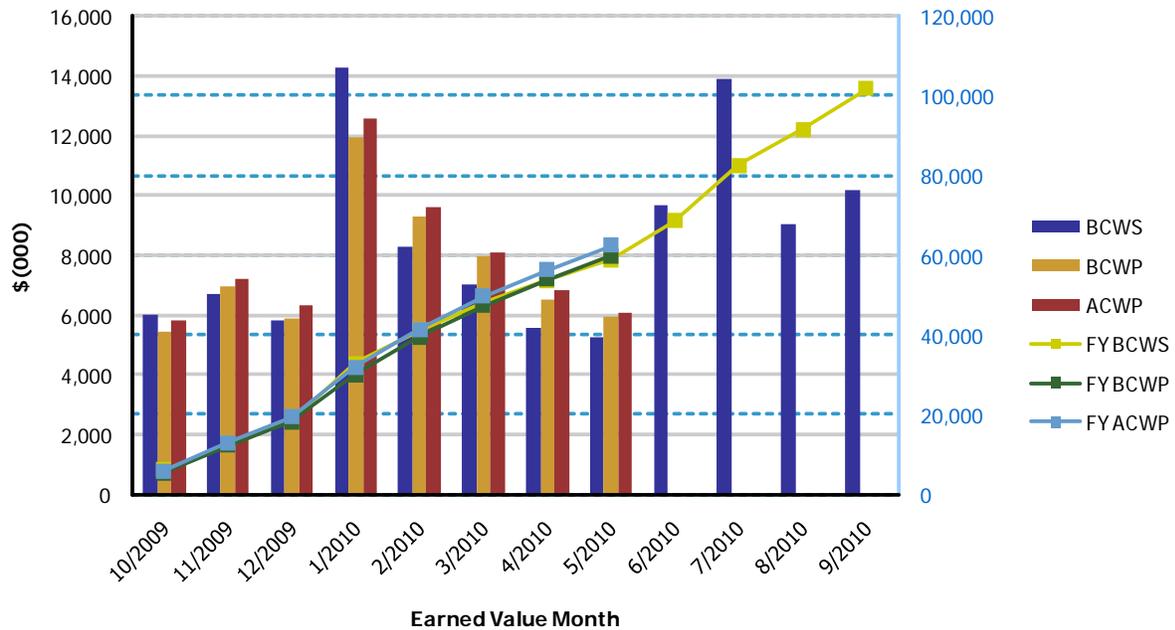
In June, Construction forces completed the placement of five walls and one slab for a total of 697 cubic-yards of concrete. The last Filter Cave wall (2114A) was placed on June 17. Construction will place four slabs and two walls in July for a total of 801 cubic-yards of concrete.

Other construction activities in the HLW Facility include:

- In the west end of the facility at the +37' elevation, crews continued installing slab rebar, embeds, formwork, edge forms, and structural steel. Three concrete slabs (3003, 3004, and 3005) will be placed in July and will complete the 37-foot elevation Annex area at the west end of the facility.
- At the +14' elevation, iron workers continued to install rebar and embeds. Welders continued welding pipe to the wall modules in Melter Caves #1 and #2. Carpenters worked on forms and stairs were installed in the Annex area.
- At the +0' elevation, crews were sandblasting and applying fire protection to structural steel. Millwrights continued work on installing the lower rails for the two Melter Cave C5 shield doors. Pipefitters continued installing non-radioactive liquid waste (NLD) piping in west corridor and piping for SBS condensate vessel 903. Iron workers continued installing steel and rebar in the export bay at the east end of the facility. Subcontractors continued installing fire water piping at multiple locations.
- At the -21' elevation, crews continued installing cable tray, rack piping and supports, miscellaneous steel, and ducting. Iron workers continued installing beams and handrails. Platforms and stairs were installed in the Cask Handling Tunnel and crews continued installing rails in the Canister Import tunnel. Subcontractors continued repairing grillage in the Wet Process Cell and installing liner plate in the Rinse Tunnel and the Wet Cell

**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 2009	\$6,029	\$5,415	\$5,799	0.90	0.93	\$6,029	\$5,415	\$5,799	0.90	0.93
Nov 2009	\$6,675	\$6,939	\$7,190	1.04	0.97	\$12,704	\$12,354	\$12,989	0.97	0.95
Dec 2009	\$5,810	\$5,887	\$6,316	1.01	0.93	\$18,514	\$18,241	\$19,305	0.99	0.94
Jan 2010	\$14,300	\$11,915	\$12,602	0.83	0.95	\$32,814	\$30,156	\$31,907	0.92	0.95
Feb 2010	\$8,283	\$9,263	\$9,594	1.12	0.97	\$41,097	\$39,419	\$41,501	0.96	0.95
Mar 2010	\$7,007	\$7,936	\$8,065	1.13	0.98	\$48,104	\$47,355	\$49,566	0.98	0.96
Apr 2010	\$5,555	\$6,519	\$6,811	1.17	0.96	\$53,659	\$53,874	\$56,377	1.00	0.96
May 2010	\$5,283	\$5,975	\$6,094	1.13	0.98	\$58,942	\$59,849	\$62,471	1.02	0.96
Jun 2010	\$9,679					\$68,621				
Jul 2010	\$13,888					\$82,509				
Aug 2010	\$9,064					\$91,573				
Sep 2010	\$10,181					\$101,754				
PTD	\$651,921	\$651,933	\$639,714	1.00	1.02					

**Low-Activity Waste (LAW) Facility – June 2010 Accomplishments (May 10 EVM Data)**

The LAW Facility will vitrify low-activity waste from the PT Facility. Waste will be mixed with glass formers, vitrified into glass at an average daily rate of 30 metric tons, and placed in stainless-steel containers that will be disposed on site in the Integrated Disposal Facility. Overall facility percent complete is 70%, engineering is 91%, and construction is 60%.

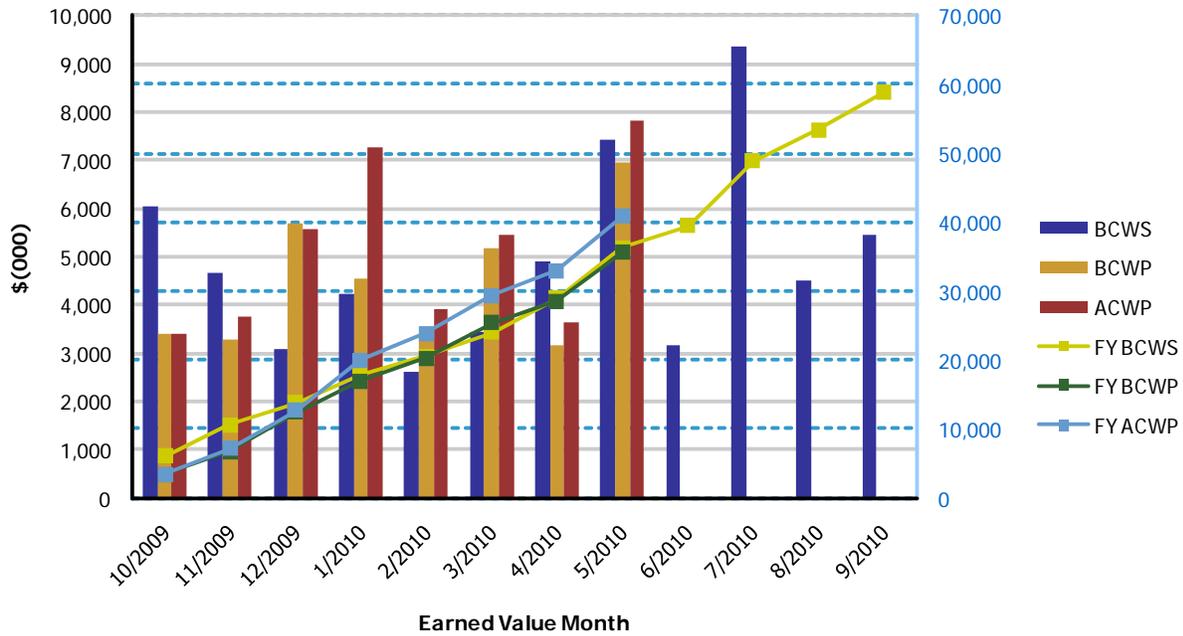
BNI received and evaluated the bids for the LAW Offgas system exhausters. BNI is still on track for award of the exhauster subcontract by August 5th. BNI has received, and is beginning the evaluation of, bids for the Thermo Catalytic Oxidizer.

Construction continued installing: piping and hangers, conduit, cable tray, instrument enclosures and lighting fixtures, gypsum wallboard, and perimeter sealants. Melter 2 lid and balance of components fabrication was completed in June 2010. Melter shipment has shifted from September 2010 to October 2010 due to road construction. Moving the shipment of the melters to October does not impact the construction schedule.

BNI is currently installing the cooling panels in the melter pour caves and has commenced work on the steel structure for the LAW Annex Elevator.

**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 2009	\$6,032	\$3,420	\$3,401	0.57	1.01	\$6,032	\$3,420	\$3,401	0.57	1.01
Nov 2009	\$4,657	\$3,275	\$3,738	0.70	0.88	\$10,689	\$6,695	\$7,139	0.63	0.94
Dec 2009	\$3,082	\$5,679	\$5,577	1.84	1.02	\$13,771	\$12,374	\$12,716	0.90	0.97
Jan 2010	\$4,215	\$4,555	\$7,254	1.08	0.63	\$17,986	\$16,929	\$19,970	0.94	0.85
Feb 2010	\$2,618	\$3,342	\$3,910	1.28	0.85	\$20,604	\$20,271	\$23,880	0.98	0.85
Mar 2010	\$3,428	\$5,165	\$5,459	1.51	0.95	\$24,032	\$25,436	\$29,339	1.06	0.87
Apr 2010	\$4,901	\$3,170	\$3,651	0.65	0.87	\$28,933	\$28,606	\$32,990	0.99	0.87
May 2010	\$7,426	\$6,961	\$7,802	0.94	0.89	\$36,359	\$35,567	\$40,792	0.98	0.87
Jun 2010	\$3,152					\$39,511				
Jul 2010	\$9,352					\$48,863				
Aug 2010	\$4,487					\$53,350				
Sep 2010	\$5,432					\$58,782				
PTD	\$562,882	\$560,087	\$601,621	1.00	0.93					

**Analytical Laboratory (LAB) – June 2010 Accomplishments (May 10 EVM Data)**

The LAB will support WTP operations by analyzing feed, vitrified waste, and effluent streams. Overall facility complete for LAB is 51%, engineering is 81%, and construction is 65%.

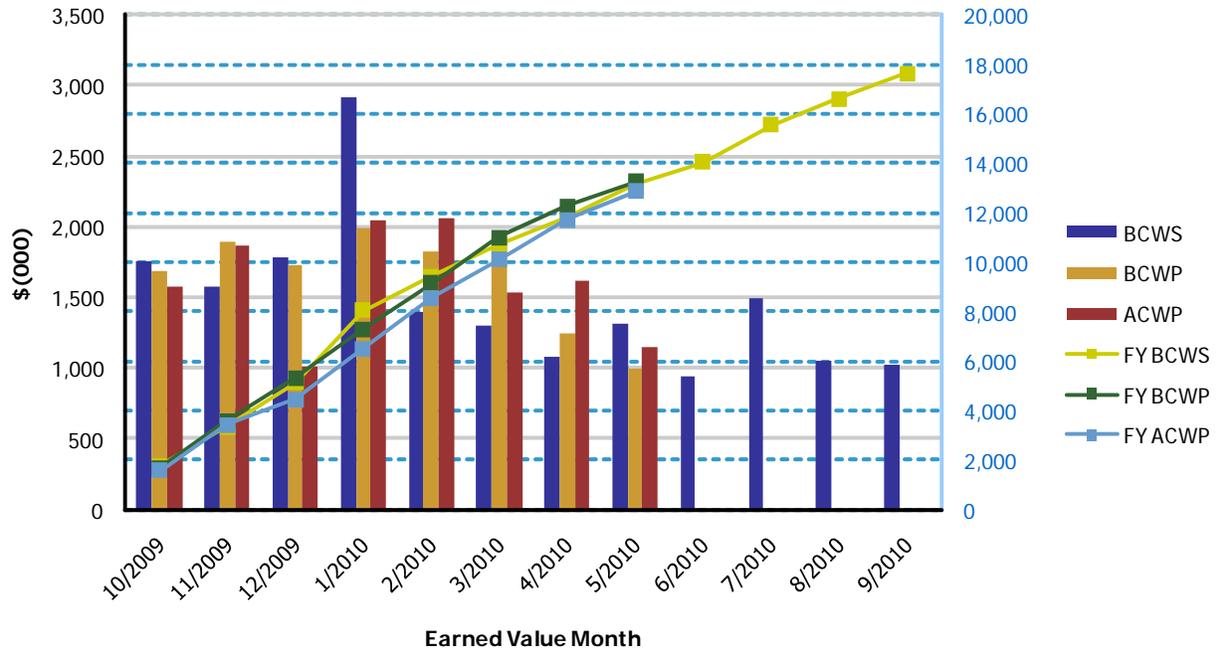
Construction continued installing the waste drum bogie/transfer hatch, overhead coiling doors in the drum room and hot cell, piping and hangers, conduit, gypsum wall board, lighting and electrical equipment, and steam piping.

BNI engineering continues to work on confirming design assumptions and is still on schedule for completion of Confirmed Design (incorporating vendor information) in November 2010. For upgrade of the C5 HEPA filter area, BNI held several internal working level meetings. The first Integrated Safety Meetings on the protection of the C5 HEPA Filter Area has not been scheduled.

Delivery of LAB Autosampling Equipment shifted from July 2010 to August 2010 in order for BNI's subcontractor to complete the necessary administrative activities.

**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 2009	\$1,756	\$1,681	\$1,579	0.96	1.06	\$1,756	\$1,681	\$1,579	0.96	1.06
Nov 2009	\$1,583	\$1,896	\$1,864	1.20	1.02	\$3,339	\$3,577	\$3,443	1.07	1.04
Dec 2009	\$1,779	\$1,735	\$1,015	0.98	1.71	\$5,118	\$5,312	\$4,458	1.04	1.19
Jan 2010	\$2,916	\$1,993	\$2,040	0.68	0.98	\$8,034	\$7,305	\$6,498	0.91	1.12
Feb 2010	\$1,397	\$1,826	\$2,057	1.31	0.89	\$9,431	\$9,131	\$8,555	0.97	1.07
Mar 2010	\$1,296	\$1,881	\$1,539	1.45	1.22	\$10,727	\$11,012	\$10,094	1.03	1.09
Apr 2010	\$1,076	\$1,251	\$1,612	1.16	0.78	\$11,803	\$12,263	\$11,706	1.04	1.05
May 2010	\$1,309	\$992	\$1,145	0.76	0.87	\$13,112	\$13,255	\$12,851	1.01	1.03
Jun 2010	\$940					\$14,052				
Jul 2010	\$1,490					\$15,542				
Aug 2010	\$1,053					\$16,595				
Sep 2010	\$1,026					\$17,621				
PTD	\$148,207	\$146,763	\$158,724	0.99	0.92					

**Balance of Facilities (BOF) – June 2010 Accomplishments (May 10 EVM Data)**

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 54%, engineering is 81%, and construction is 57%.

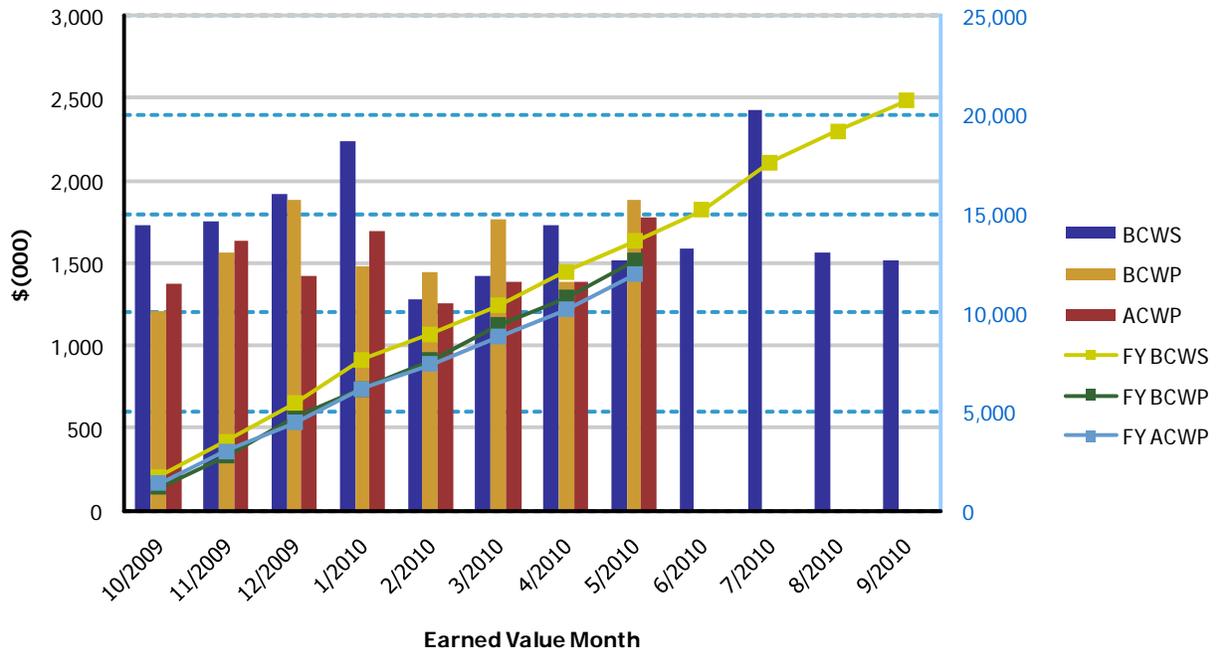
Construction completed installing electrical grounding/placing controlled density backfill at the LAW truck bay. Construction activities for June were primarily focused on trench work, Water Treatment Facility (WTF), Glass Former Storage Facility, and the Chiller Compressor Plant

The main engineering and procurement focus is on the Emergency Diesel Generator (EDG). BNI released the request for proposals document in June and is working with vendors. BNI also issued a report that documented M3 impacts to other systems and additional EDG capacity is not required.

ORP continues to work with the Tank Farms Operating Contracting (TOC) to analyze and prepare viable options for upgrading the A6 Substation to deliver up to 70 MW under worst case substation configuration. WRPS requested and was granted an extension on their report due date to July 26, 2010.

**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 2009	\$1,733	\$1,205	\$1,374	0.70	0.88	\$1,733	\$1,205	\$1,374	0.70	0.88
Nov 2009	\$1,752	\$1,567	\$1,636	0.89	0.96	\$3,485	\$2,772	\$3,010	0.80	0.92
Dec 2009	\$1,921	\$1,889	\$1,428	0.98	1.32	\$5,406	\$4,661	\$4,438	0.86	1.05
Jan 2010	\$2,233	\$1,482	\$1,700	0.66	0.87	\$7,639	\$6,143	\$6,138	0.80	1.00
Feb 2010	\$1,279	\$1,442	\$1,258	1.13	1.15	\$8,918	\$7,585	\$7,396	0.85	1.03
Mar 2010	\$1,426	\$1,771	\$1,383	1.24	1.28	\$10,344	\$9,356	\$8,779	0.90	1.07
Apr 2010	\$1,733	\$1,387	\$1,382	0.80	1.00	\$12,077	\$10,743	\$10,161	0.89	1.06
May 2010	\$1,519	\$1,889	\$1,777	1.24	1.06	\$13,596	\$12,632	\$11,938	0.93	1.06
Jun 2010	\$1,589					\$15,185				
Jul 2010	\$2,431					\$17,616				
Aug 2010	\$1,569					\$19,185				
Sep 2010	\$1,521					\$20,706				
PTD	\$227,181	\$225,950	\$225,342	0.99	1.00					

<b>Waste Treatment Plant Project - Percent Complete Status Through May 2010</b>									
<b>(Dollars - Millions)</b>	<b>Overall Facility Percent Complete Allocated Dollars</b>			<b>Design/Engineering Unallocated Dollars</b>			<b>Construction Unallocated Dollars</b>		
	<b>Performance Measurement Baseline (PMB)</b>	<b>Budgeted Cost of Work Performed (BCWP)</b>	<b>% Complete</b>	<b>Performance Measurement Baseline (PMB)</b>	<b>Budgeted Cost of Work Performed (BCWP)</b>	<b>% Complete</b>	<b>Performance Measurement Baseline (PMB)</b>	<b>Budgeted Cost of Work Performed (BCWP)</b>	<b>% Complete</b>
<b>Facilities</b>									
Low-Activity Waste	1,699.3	1,183.8	70%	211.0	192.2	91%	301.7	180.6	60%
Analytical Lab	635.2	321.5	51%	49.9	40.3	81%	85.9	55.6	65%
Balance of Facilities	991.0	533.3	54%	70.0	56.4	81%	220.0	126.4	57%
High-Level Waste	2,601.7	1,341.8	52%	320.9	271.2	85%	511.3	139.7	27%
Pretreatment	4,102.9	2,096.7	51%	604.0	477.6	79%	817.0	255.1	31%
Shared Services	incl. above	incl. above	incl. above	1,066.3	815.3	76%	1,341.0	914.1	68%
Undistributed Budget	6.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
<b>Total WTP</b>	<b>10,036.1</b>	<b>5,477.1</b>	<b>55%</b>	<b>2,322.1</b>	<b>1,853.0</b>	<b>80%</b>	<b>3,276.9</b>	<b>1,671.5</b>	<b>51%</b>

**Source:** WTP Contract Performance Report

**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.

ORP Project Managers Meeting  
July 26-27, 2010  
2440 Stevens Ctr.  
Richland, Washington  
**Meeting Minutes Transmittal**

**Attachment D: Administrative Record Items**

**(3 pages including this coversheet)**

Reviewed/consented 6/26/2010

R. W. J. M.  
7/26/10

## Meeting Minutes

### Annual Meeting Between the U.S. Department of Energy, Office of River Protection (ORP) and the State of Washington, Department of Ecology (Ecology) to Discuss Interim Measures Completed in Fiscal Year 2010 and Planned for Fiscal Year 2011

Meeting Date: June 9, 2010  
Location: Department of Ecology

Purpose: Fulfill Hanford Federal Facility and Consent Order commitment M-45-56, "to meet yearly...for the establishment of Additional Agreement Interim Measures."

Attendees: Jeff Lyon, Mike Barnes (Ecology), Bob Lober (ORP), Susan Eberlein, Jeff Luke (Washington River Protection Solutions)

The meeting was held on June 9, 2010, to discuss interim measures completed in the past year, and plan interim measures for the coming year, completing the annual requirements for milestone M-45-56.

The following topics were discussed:

#### **Actions Completed Late in FY2009:**

1. Evaluate (with Ecology input) the merit of proceeding with SX characterization and planning for a future interim barrier: The FY2009 characterization of SX farm confirmed the presence of significant mobile contamination. The farm is considered a candidate for one or more barriers.
2. Identify (with Ecology input) the next tank farm to undergo characterization for purposes of designing an interim surface barrier: A series of discussions among Ecology, OPR and WRPS led to identification of additional candidate farms for characterization. These meetings were documented in a February 16, 2010, meeting in Ecology's offices. The meeting minutes were signed at the March 23, 2010, TPA Project Managers' Monthly Meeting. *Minutes identified SX + By as Farms for Interim Barriers*
3. Provide a plan for decommissioning up to five existing boreholes per year in future years: A set of criteria were developed with Ecology concurrence in late 2009. These criteria were applied, and it was determined that no boreholes currently meet the criteria. This information was documented and provided to Ecology by email, and subsequently discussed in a February 16, 2010, meeting in Ecology's offices. The meeting minutes were signed at the March 23, 2010, TPA Project Managers' Monthly Meeting. *Followings*

7-26-10

### **Actions Completed in FY2010:**

1. Provide design of an interim surface barrier in TY farm for Ecology approval: The barrier design was provided to Ecology for review, and their approval received.
2. Complete characterization in support of an interim surface barrier in SX farm: The report of surface geophysical exploration in SX farm, completed in late FY2009, had been provided to Ecology in early 2010.
3. Implement plan for borehole decommissioning – none meeting criteria: As noted in 3 above, no boreholes met criteria for decommissioning.

### **Actions Remaining to be Completed in FY2010:**

1. Construct an interim surface barrier in TY farm per the approved design: Barrier construction is underway and will be completed before the end of the fiscal year.
2. Additional characterization for potential future barriers: Characterization of the future priority sites is underway. Well to well resistivity work in A and AX farms is nearing completion. Direct push logging and sampling in the southeastern area of S farm, bordering SX farm, is nearing completion, including analysis of soil samples for nitrate and technetium. Meetings will continue to be scheduled with Ecology to provide briefings on results.

### **Actions Proposed for FY2011:**

1. Complete additional characterization in support of future barriers: Characterization planned for FY2011 includes completing resistivity work with deep electrodes placed in S farm southeast/SX farm northeast, completing direct push work in BY farm, and performing resistivity work including deep electrodes in BY farm.
2. Additional evaluations of barrier effectiveness: T barrier monitoring will continue, and TY barrier monitoring will be performed.
3. Additional leak loss assessments and applicability to future interim measures: Leak loss assessments will continue using the joint process that includes Ecology, until all tank farms have undergone an initial assessment. If new information warrants it, re-assessment of farms or regions of farms will be undertaken, by mutual agreement of the participants.
4. Evaluate interim action for A-350 catch tank: ORP, Ecology and WRPS will work together to evaluate the path for a potential interim action for A-350 catch tank.
5. Catch tanks: Upon completion of proposed new M-45-101 milestone, Ecology, ORP and WRPS will meet to determine if future interim actions on catch tanks or ancillary equipment are warranted.