

**Office of River Protection  
Tri-Party Agreement Milestone Review  
Meeting Minutes  
August 19, 2010**

Approval: *J.A. Hedges* Date: 9/16/10

**J.A. Hedges**  
*Ecology IAMIT Representative*

Approval: *S.L. Charboneau* Date: 9/20/10

**S.L. Charboneau**  
*DOE IAMIT Representative*

Approval: *D.A. Faulk* Date: 9/17/10

**D.A. Faulk**  
*EPA IAMIT Representative*

Minutes Prepared by:

*T.W. Noland*

Date: 9/21/10

**T.W. Noland**  
*Mission Support Alliance*

Abdul, W.*	ORP	Luke, J.J.*	WRPS
Barnes, M.W.*	Ecology	Lynch, J.J.	ORP
Becker, D.L.	Ecology	Lyon, J.J.*	Ecology
Bohnee, G.	NPT	McDonald, D.*	Ecology
Bruggeman, J.M.	ORP	Moore, S.L.*	MSA
Caggiano, J.A.	Ecology	Niles, K.	OOE
Cameron, C.E.	EPA	Noland, T.W.*	FFS
Charboneau, S.L.*	ORP	Noyes, D.L.	ORP
Cimon, S.*	ODE	Ollero, J.F.*	MSA
Dahl, S.L.*	Ecology	Olsen, G.B.*	ORP
Diediker, J.A.*	ORP	Pfaff, S.H.	ORP
Eberlein, S.J.	WRPS	Piippo, R.E.	MSA
Einan, D.R.	EPA	Price, J.B.*	Ecology
Faulk, D.A.*	EPA	Reed, G.R.	ORP
Fletcher, T.W.	ORP	Russell, R.W.*	ORP
Gonzaga, Y.*	MSA	Skinnarland, R.R.	Ecology
Harris, S.	CTUIR	Swarens, C.L.	ORP
Hedges, J.	Ecology	Trenchard, G.D.*	ORP
Hendrickson, M.L.*	Ecology	Trent, J.S.	ORP
Hidden, F.B.*	ORP	Uziemblo, N.H.	Ecology
Huffman, L.A.	ORP	Vance, J.G.	FH
Jim, R.	Yakama	Vanni, J.*	Yakama
Kemp, C.J.*	ORP	Wallace, J.J.*	Ecology
Killoy, S.E.*	WRPS	Whalen, C.L.*	Ecology
Koll, R.J.*	ORP		
Knox, K.E.*	KCR		
Lober, R.W.	ORP		
Long, J.D.*	ORP		

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Attendees

**Office of River Protection  
Tri-Party Agreement Quarterly Milestone Review  
Meeting Minutes  
August 19, 2010**

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

M-45-56F, Complete Implementation of Agreed to Interim Measures

DOE-ORP reported that the scope and actions from the M-45-56F annual meeting held June 9, 2010 were documented in the July 2010 project managers meeting and submitted to the Administrative Record. Examples of the scope that DOE-ORP is currently working to include: TY barrier construction, characterization in SX-1, and characterization in BY Farm in a joint leak loss investigation to support the barrier placement.

M-45-58, Submit to Ecology for Review and Approval as an Agreement Primary Document, a Phase 2 CMS Master Work Plan

DOE-ORP has prepared a response to Ecology's request for additional information on the Master Work Plan. The letter states that discussions will be undertaken on the path forward for the next Waste Management Area C (WMA C), identified via the proposed Consent Decree milestones, and a recommendation will be provided to Ecology within 12 months. DOE-ORP stated that the letter should go out in a week.

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

Ecology stated that changes to the work plan and SAP have been agreed to for the current update. Monthly meetings have been agreed to, if necessary, to review any questions or issues. EPA is reviewing the work plan, and the meetings provide the forum for answering EPA's questions.

Significant Accomplishments

An action to provide Ecology a report on the data analysis of well-to-well surface geological exploration (SGE) survey of A and AX Farms in support of potential interim barriers has been completed. Ecology confirmed that it received the report this week. Regarding the Data Quality Objective (DQO) scheduled next month for direct push characterization in the east side of BY Farm, Ecology requested a meeting with DOE-ORP to discuss the questions Ecology wants answered regarding the DQO.

Significant Planned Actions in the Next Six Months

Ecology requested an estimated completion date for the SGE data collection at UPR-86 in C

Farm. It was noted that the SGE is nearly complete, and the interim report should be released soon.

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

DOE-ORP noted that with the anticipated approval of the Consent Decree, the report on the M-45 milestones will change significantly.

Significant Accomplishments

DOE-ORP reported that start of retrieval in tank C-111 is anticipated for mid-September 2010. The articulating mast system is being developed to remove the obstruction in C-104, which is believed to be the foot plate of the heel jet jump.

Significant Planned Activities in the Next Six Months

DOE-ORP stated that the C-110 heel sample is planned for later this month, and C-109 heel sample is planned for October 2010. Ecology requested a copy of the C-109 TSAP. DOE-ORP will check on the status of the C-109 TSAP. EPA inquired about the number of tanks in C Farm that will be retrieved by the end of calendar year 2010. DOE-ORP responded that seven of the 16 tanks should be completed by the end of 2010. DOE-ORP added that the new tank retrieval approach is to do bulk retrieval, and then a second technology would be deployed if needed. Bulk retrieval will be completed on tanks C-104, C-108, C-109 and C-110 by the end of 2010, but the hard heel will be left to remove.

Ecology inquired about the status of the Tank Waste Retrieval Work Plans (TWRWPs) that have been submitted and whether the second technology will be affected by the new Consent Decree requirements. DOE-ORP responded that bulk retrieval has been approved in all of the TWRWPs, and after the Consent Decree is signed, a revision to the TWRWPs for the second technology will be done as needed. DOE-ORP added that the plan is to revise the TWRWPs one at a time in the hope that the mobile arm retrieval system (MARS) won't require a second technology deployment, and that it would be speculative to revise all of the TWRWPs until results of the MARS are realized. There is also the possibility that a caustic water strike would be the second technology deployed, for some tanks.

DOE-ORP noted that the summary schedule for C Farm retrieval through 2014 (page 14 of the handout) will be revised as sampling events provide more information. DOE-ORP expressed appreciation for Ecology's assistance through the sampling events that have taken place. Ecology provided clarification that the retrieval data report (RDR) listed on the summary schedule as the final step is not a primary document and is submitted for information only. Ecology considers submittal of a closure plan to be the final step towards completion of retrieval.

### Tank Retrievals with Individual Milestones

DOE-ORP noted that milestone M-45-15A, which is complete waste retrieval from tank S-102, will be deleted when the Consent Decree is signed, and that Ecology has stated its preference to replace S-102 with another tank. DOE-ORP stated that after the Consent Decree is signed, the plan is to submit a change package to align S-102 with the other tanks in S Farm. Ecology noted that it is not in agreement with that plan. DOE-ORP added that the change package will align S-102 in the current system planning, and following approval of the Consent Decree, discussions can be held about a replacement tank. Ecology responded that during Consent Decree negotiations, it was assumed that S-102 would be retrieved before startup of the Waste Treatment Plant (WTP) in 2019. Ecology stated that since the new system planning will likely push S-102 retrieval past 2019, it would prefer that S-102 is replaced with a tank in the near term. If the replacement tank is A/AX Farm, Ecology noted its preference that a tank farm is completed in a timely manner.

### **Interim Stabilization Consent Decree**

DOE-ORP reported that there was no physical change in status from the last quarter. The liquid level in tank S-102 is in the range of 3,000 gallons free liquid. Activity is ongoing to complete the interim stabilization consent decree. It was noted that SY Farm has been in a long-term electrical outage, which should end today.

### **In Tank Characterization and Summary**

#### Planned Actions Within the Next Six Months

DOE-ORP noted a correction to tank sampling. Tank C-108 should read C-109, and the off riser sampling for C-109 is scheduled for October 2010 instead of September. DOE-ORP reported that A-350 catch tank was sampled six weeks ago. Ecology stated it believed that A-350 sampling had been postponed, and were not informed that sampling was to take place. DOE-ORP will follow up to confirm the sampling was done and inform Ecology of the status.

### **242-A Evaporator Status**

DOE-ORP reported that the FY 2010 evaporator campaign is planned to start next week. Natural feed into the evaporator will start Thursday, and then 1.1 million gallons will be fed into the evaporator, with an overall waste volume reduction of 500,000 gallons.

### **M-62-40, Tank Waste System Plan**

Ecology stated that all of the assumptions for system plan 5 have been put into a table with columns for agreements, disagreements and changes. Once the table is filled in, it will be used as a baseline to assess what the scenarios will be. A meeting is scheduled for August 31, 2010 for the system plan one-on-one training. The intent of the meeting is twofold: to discuss the system

plan and generate a model with all of the assumptions; and to gain approval of the assumptions.

### **FY 2010 ORP TPA Cost & Schedule Performance (CHG)**

DOE-ORP provided an update on the four new deputy federal project directors that have been hired for the tank farms project. Several new capital projects will be starting within the overall tank farms project: the storage facility for high level waste; secondary waste treatment; and supplemental treatment (depending on waste feed).

DOE-ORP reported that WRPS is proactively managing its schedule recovery effort. There are currently no negative impacts to the critical path for important projects. Ecology requested a copy of the schedule recovery plan. DOE-ORP will provide Ecology a copy of the recovery plan, which will be through June 2010. Ecology asked if the positive cost variance for Recovery Act funds will be redirected to do additional work. DOE-ORP stated that about 20 million dollars have been added back into Recovery Act work scope.

Ecology inquired about the scope of work associated with supplemental treatment, which is listed under summary project performance 5.4. DOE-ORP stated that supplemental treatment was associated with preliminary work on the Hanford Interim Storage Facility. DOE-ORP stated that the supplemental treatment critical decision (CD) process has been activated, and CD-0 will be delivered to the acquisition executive (EM-1) at the end of September 2010 for approval. CD-0 will provide justification of mission need for supplemental Low Activity Waste (LAW) treatment. It is anticipated that there will be a short turnaround to gain approval for CD-0. Ecology requested a copy of CD-0 after it is approved. CD-1, which will determine the alternatives analysis, will be completed in FY 2011.

Although there is an unfavorable schedule variance of 5.9 million dollars, it is not impacting critical path work. There is a contract-to-date favorable cost variance of 35 million dollars.

DOE-ORP reported that integration activity between the tank farms and WTP is being established, and a new position at DOE-ORP has been created for that integration. An acting manager has been temporarily filling that position until it is filled permanently within a few months. The integration is being established in an effort to gain success on commissioning of WTP. Ecology stated that brief discussions have been held with the acting DOE-ORP integration manager regarding establishing meetings to discuss integration concepts. A request was noted by Ecology to DOE-ORP to reiterate interest in initiating integration discussions.

### **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**

There was no change in status to report.

**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.**

There was no change in status to report.

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

M-62-01T and M-62-01U, Submit Semi-Annual Project Compliance Report

DOE-ORP noted that retrievals have been added to the semi-annual project compliance report. The M-62-01U semi-annual report has been submitted.

**TPA Milestone Statistics**

DOE-ORP stated that the majority of the milestones in the milestone table will go away and be replaced with new ones with signing of the Consent Decree and the new milestone change packages. A revised format is being prepared and will be provided in the near future for Ecology review.

**BNI Cost & Schedule Performance for Immobilization Plant (WTP) Project**

WTP overall has a slight negative cost and schedule variance. DOE-ORP reported on a key activity associated with the Defense Nuclear Facilities Safety Board's (DNFSB) upcoming public hearing on October 7, 2010. Responses are being prepared to the 28-page questionnaire that was sent by the DNFSB. Two meetings are planned at DOE Headquarters to draft responses to the questionnaire. The final version to the DNFSB is due to be transmitted by September 7, 2010. Ecology requested a briefing after the DOE Headquarters meetings are held. The construction project review team (CPR) will be onsite in November 2010, and one of its key activities is coordination of technical issues. The CPR initially was on site in August 2009, with follow-up visits in November 2009 and May 2010. CPR will be verifying that the recommendations it made have been addressed. Ecology inquired about the contents of a comprehensive cost, scope and schedule profile that will be presented to the CPR. DOE-ORP responded that the cost will not be completed to provide to the CPR, but the scope and schedule will be provided. Ecology asked about the level of detail that will be provided to the CPR regarding the vessels. DOE-ORP stated that the design, fabrication and construction of the vessels will be provided in detail. The commissioning aspect won't be as detailed since it is further down in the flow diagram, along with the needs of certain systems. Ecology requested attendance at the November 2010 CPR meeting.

The Environmental Management Advisory Board (EMAB) will be conducting a public hearing in Albuquerque, New Mexico regarding its review of DOE's cleanup programs. Comments from the hearing will be provided to DOE-ORP around September 7, 2010.

### Pretreatment Facility (PT)

The first of the fifth lift wall placements have been rescheduled from August to September 2010, due to resolving issues with the temporary platform that was built to hang the embedded plates on the rebar. Piping installation has maintained above 1.0 for the last two months. Steel installation is ahead of schedule, although the cost is reflected slightly above budget due to a recent slow-down in installation. Concrete placement is also slightly above cost due to no recent major placements. However, it is anticipated that once the fifth wall placement is initiated, the concrete cost performance will recover. DOE-ORP noted that the HVAC installation is continuing to support the recovery schedule by April 2011. DOE-ORP has canceled the current contract for the fireproofing. The contractor will complete their work in Pretreatment and High Level Waste (HLW) by September and move out in October 2010. It was deemed more cost-effective to bring in a new contract in the 2012-2013 timeframe.

Issue resolution and a path forward regarding the five non-Newtonian vessels is anticipated by the end of this month (August 2010). Vessel testing to validate the model used for non-Newtonian characteristics is planned for the near future. Ecology inquired about the possibility that the testing will not validate the model as representative for non-Newtonian. DOE-ORP responded that additional planning would have to be done; however, BNI is confident that the model represents the configuration for non-Newtonian. There was a significant amount of testing done in the 2003 time frame that validated the non-Newtonian vessels, and all the related issues were closed. When the Newtonian testing was done in January through May 2010, it raised some issues that resulted in the decision to do additional review and testing.

### High Level Waste Facility (HLW)

The recovery schedule for HLW has been met and surpassed as of July 2010. As of August 4, 2010, all four of the interior shield doors were in place in the melter caves, which will allow the slab work to proceed above the melter caves.

### Low-Activity Waste (LAW) Facility

LAW is slightly behind in cost performance, mainly due to planned equipment cost being more than anticipated. There are no issues with the schedule performance. The primary critical path in LAW is procurement and installation of the thermo-catalytic oxidizer (TCO), and the second critical path shortly behind the TCO is procurement of the exhausters for the offgas system. The bid award for both of these systems is expected by the end of August 2010. DOE-ORP indicated that there are ten months of float in the schedule to complete the construction milestones.

The commissioning phase for WTP will start gearing up in late 2012, and the Balance of Facilities (BOF) will come on line first. Ecology stated that integrated discussions are needed regarding performance testing and commissioning and how they're interrelated. Ecology added that discussions regarding incorporation of operating conditions into the BOF and LAB and LAW portions of the permit are also needed.

### Analytical Laboratory (LAB)

DOE-ORP reported that the LAB is making good progress and there are no foreseen major technical issues. Major deliveries for the Autosampling System (ASX) equipment will be received in September 2010. There are some HEPA filter systems that are critical path through construction complete; however, there are five months of float and there are no issues anticipated. Ecology asked why the overall facility percent complete for LAB is lower than engineering and construction percent complete. DOE-ORP explained that engineering and construction are subsets of overall facility complete. There are other components to factor into overall facility complete, such as analytical method development, which is planned for the future and not yet reflected.

### Balance of Facilities (BOF)

Two main areas of focus in BOF are the emergency diesel generator (EDG) and the wet chemical storage facility. There are no issues anticipated for the wet chem facility, and planning is ongoing for acquisition strategy and safety management. Bids for the EDG are expected by the end of August 2010. The glass former facility is slightly behind schedule, but there are no impacts to the critical path. The BOF is doing well from a cost perspective year to date.







**Agenda**  
August 19, 2010

**Office of River Protection**  
**Quarterly Milestone Review Meeting**  
Ecology Conference Room 3A/B, 3100 Port of Benton Blvd., Richland

**Chairperson: Jane Hedges**

9:00 a.m. – 11:30 a.m.

<b>Topic</b>	<b>Leads</b>	<b>Time</b>
M-45, -50, -60 Single-Shell Tank Corrective Action	Bob Lober / Joe Caggiano	9:00
M-45-00, Complete Closure of All Single-Shell Tank Farms	Chris Kemp / Jeff Lyon	9:15
Interim Stabilization Consent Decree	John Long / Nancy Uziemblo	9:35
In Tank Characterization and Summary	John Long / Michael Barnes	9:40
242-A Evaporator Status		
M-62-40, Tank Waste System Plan	Ron Koll / Dan McDonald	9:45
FY 2010 ORP TPA Cost & Schedule Performance	Janet Diediker / Dan McDonald / Jeff Lyon	9:50
M-47-00, Tank Waste Treatment, Storage and Disposal Facilities	Glyn Trenchard / Michelle Hendrickson	10:05
M-90-00, Complete Acquisition of Facilities for Interim Storage of IHLW and Storage/ Disposal of ILAW and M-20, Part B Permits	Glyn Trenchard/ Dan McDonald	10:10
M-62-00, Complete Pretreatment Processing and Vitrification of Tank Wastes	Glyn Trenchard/ Dan McDonald	10:15
<b>BREAK</b>		
TPA Milestone Statistics	Woody Russell / Dan McDonald / Jeff Lyon	10:20
BNI Cost & Schedule Performance for Immobilization Plant (WTP) Project	Wahed Abdul / Jeff Trent / Gary Olsen / Dan McDonald	10:30

**Office of River Protection**

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**Tri-Party Agreement  
Quarterly Milestone Review Meeting  
August 19, 2010**



**Office of River Protection**

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

## Agenda

Office of River Protection  
Tri-Party Agreement  
Quarterly Milestone Review Meeting  
August 19, 2010  
9:00 a.m. – 12:00 p.m.

Page	Topic	Leads	Time
3	M-45, -50, -60 Single-Shell Tank Corrective Action	Bob Lober / Joe Caggiano	9:00
6	M-45-00, Complete Closure of All Single-Shell Tank Farms	Chris Kemp / Jeff Lyon	9:15
21	Interim Stabilization Consent Decree	John Long / Nancy Uziemblo	9:35
22	In Tank Characterization and Summary	John Long / Michael Barnes	9:40
23	242-A Evaporator Status		
XX	M-62-40, Tank Waste System Plan	Ron Koll / Dan McDonald	9:45
24	FY 2010 ORP TPA Cost & Schedule Performance	Janet Diediker / Dan McDonald / Jeff Lyon	9:50
63	M-47-00, Tank Waste Treatment, Storage and Disposal Facilities	Glyn Trenchard / Michelle Hendrickson	10:05
64	M-90-00, Complete Acquisition of Facilities for Interim Storage of IHLW and Storage/ Disposal of ILAW and M-20, Part B Permits	Glyn Trenchard / Dan McDonald	10:10
65	M-62-00, Complete Pretreatment Processing and Vitrification of Tank Wastes	Glyn Trenchard / Dan McDonald	10:15
	<b>BREAK</b>		
42	TPA Milestone Statistics	Woody Russell / Dan McDonald / Jeff Lyon	10:20
67	WTP - BNI Cost & Schedule Performance for Immobilization Plant Project	Wahed Abdul / Jeff Trent / Gary Olsen / 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). As documented in the July PMM minutes it was agreed the meeting minutes will record the agencies' agreement that this milestone 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-45-56F, 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 was submitted for the administrative record at the July PMM.
- **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. The updated workplan and supporting change package was submitted at the July 2010 PMM. Ecology has since requested additional changes. ORP and Ecology have scheduled meetings in August to define the additional changes and determine a timeline for further revisions.

- **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-Transporation basin nearing completion.
  - In-farm construction continues.
- 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).
- Continued remedial technology assessments in support of a Corrective Measures Study for WMA C.
- Continued analysis of 3-D SGE survey of SE portion of S farm.
- Continued analysis testing time-domain electromagnetic induction as a means of identifying locations of historical pipeline leaks.
- Initiated direct push characterization of western 241-BY farm in support of a potential barrier.
- Initiated design activities for a surface barrier in 241-SX farm.

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

- Continue direct push campaign in C Farm.
- Continue 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 August submittal. Anticipated updates to include SGE deployment with deep electrodes, revised Beta probe development and lab analysis schedules.
- Perform additional updates to WMA C RFI/CMS workplan based on requested changes from Ecology.
- Continue design of interim surface barrier for SX farm.

### **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.
- Completed C-111 Construction Acceptance Testing
- Completed design and procurement activities and initiated installation of AN-101 Supernatant pump. Procurement and testing of a spare replacement pump is underway.
- Completed design activities and commenced fabrication of articulated mast system (hydraulic arm) in C-104.
- Continued design activities for C-112 sluicing system.
- Completed design and continued procurements and fabrication of 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.
- Initiate construction of C-108 hard heel retrieval system, and start up of retrieval activities.
- Complete installation of new AN-101 supernatant pump.
- Initiate C-111 retrieval.
- Complete C-112 design and initiate procurement.
- Install hydraulic arm into C-104 to aid removal of obstruction underneath slurry pump.

## IV. Issues

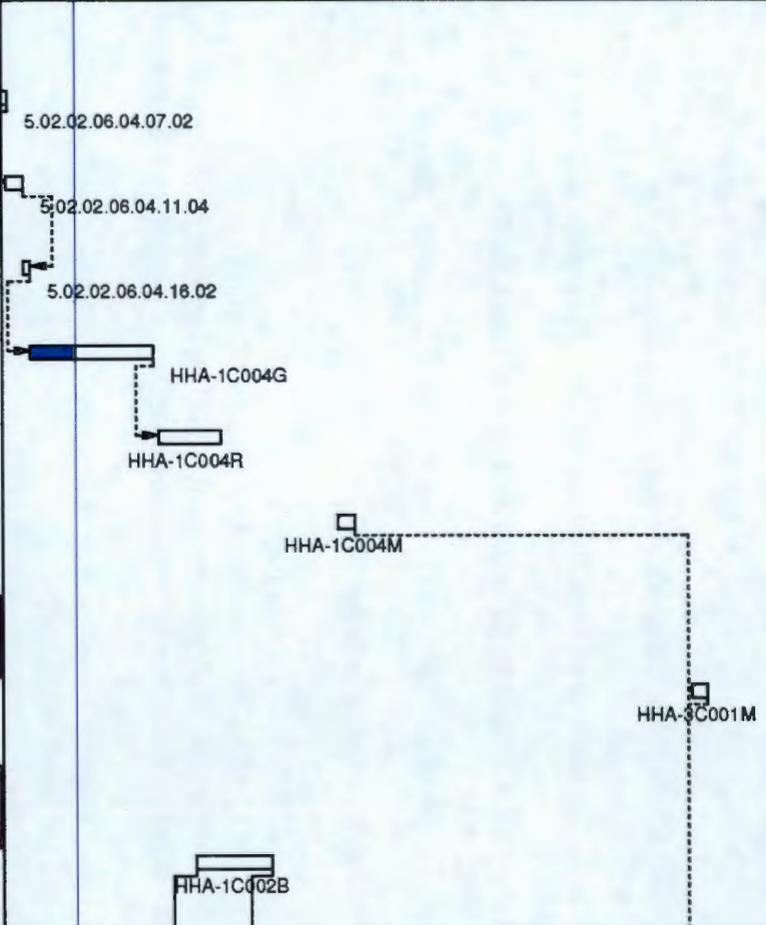
Milestones M-45-00B (retrieve all C Farm tanks), M-45-00C (initiate negotiations on SST retrievals for 2007-2008), and M-45-00D (initiate negotiations on SST retrievals for 2008-2013) were missed. TPA negotiations to address these and other milestones will be completed sometime after December 11, 2009, 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

M-TPA CP M-B-1 Complete C Farm Retrieval

02-Jul-10 09:45

Activity Name	Forecast Start	Forecast Finish	BL Project Start	BL Project Finish	Days Ahead + or Behind -	2010	2011	2012	2013	2014	5
<b>104</b>											
C-104 Retrieval Start-up/Testing Support	11-Feb-09 A	08-Jan-10 A	29-Apr-09	30-Jun-09		5.02.02.06.04.07.02					
C-104 Retrieval Operations to 25%	08-Jan-10 A	18-Feb-10 A	27-Jan-10	24-Feb-10		5.02.02.06.04.11.04					
C-104 Acceleration Tank Retrieval Ops (Supplemental)	18-Feb-10 A	03-Mar-10 A	22-Feb-10	30-Mar-10		5.02.02.06.04.16.02					
C-104 Retrieval Operations (MS)	03-Mar-10 A	21-Dec-10	22-Mar-10	13-Jun-10	909						
C-104 Sample for HHR Decision	03-Jan-11*	02-Jun-11	03-Jan-11	02-Jun-11	622						
C-104 Hard Heel Rmvl Operations	07-Mar-12	15-Apr-12	07-Mar-12	15-Apr-12	898						
<b>101</b>											
C-101 Hard Heel Rmvl Operations	03-Jul-14	11-Aug-14	03-Jul-14	11-Aug-14	50						
<b>102</b>											
C-102 Retrieval Design	01-Apr-11*	30-Sep-11	01-Apr-11	30-Sep-11	29						



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"

Page 1 of 4

Activity Name	Forecast Start	Forecast Finish	BL Project Start	BL Project Finish	Days Ahead + or Behind -	2010	2011	2012	2013	2014
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-12  
 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
M-B-1, Complete C-Farm Retrieval		30-Sep-14*		30-Sep-14	0					
105										
C-105 Hard Heel Rmvl Operations	26-Mar-14	04-May-14	26-Mar-14	04-May-14	149					HHA-3C005M
108										
C-108 Hard Heel Rmvl Operations	17-Nov-10	28-Jan-11	17-Nov-10	28-Jan-11	1341	HHA-1C008M				
109										
C-109 Hard Heel Rmvl Operations	12-Nov-11	21-Dec-11	12-Nov-11	21-Dec-11	1014		HHA-1C009M			
110										
C-110 Hard Heel Rmvl Operations	13-Jul-11	21-Aug-11	13-Jul-11	21-Aug-11	1136			HHA-1C010M		
111										
C-111 Retrieval Operations (MS)	07-Sep-10*	07-Oct-10	07-Sep-10	07-Oct-10	977	HHA-1C011G				

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

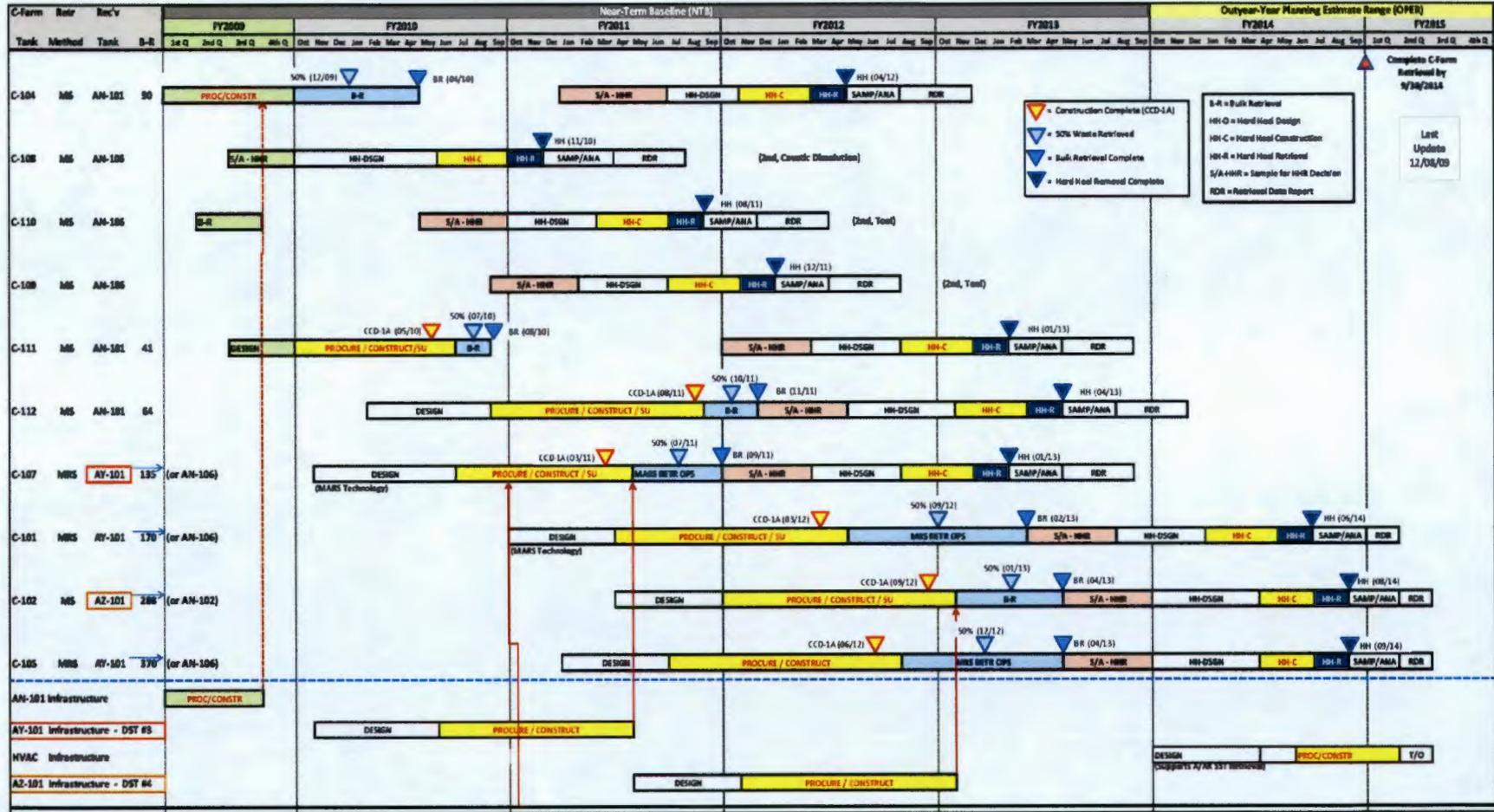
Critical Path for TPA Milestone M-B-1  
 "Complete C Farm Retrieval"

Activity Name	Forecast Start	Forecast Finish	BL Project Start	BL Project Finish	Days Ahead + or Behind -	2010	2011	2012	2013	2014	5
C-111 Hard Heel Rmvl Operations	13-Dec-12	21-Jan-13	13-Dec-12	21-Jan-13	617				HHA-1C011M		
112											
C-112 Retrieval Operations (MS)	01-Oct-11	03-Dec-11	01-Oct-11	03-Dec-11	556			HHA-1C012G			
C-112 Hard Heel Rmvl Operations	14-Mar-13	22-Apr-13	14-Mar-13	22-Apr-13	526				HHA-1C012M		

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"

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



## 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 July 1 – July 31, 2010:

### I. Accomplishments:

- Completed RPP-RPT-46618, *Hanford Waste Mineralogy Reference Report*, on June 29, 2010.
- Completed revision 2 of RPP-PLAN-46136, *Sampling and Analysis Plan for Liquid and Solids in Catch Tank 241-A-350*, on July 14, 2010.
- Completed revision 0 of RPP-PLAN-47036, *Sampling and Analysis Plan for Tank 241-C-111 Stack Chemical Emissions*, on July 22, 2010.
- Completed revision 0 of RPP-RPT-47139, *Derivation of Best-Basis Inventory for Tank 241-T-112*, on July 30, 2010.

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

- Tank Sampling
  - Tank 241-A-350 compatibility and closure scheduled for August 2010.
  - Tank 241-C-110 off riser sampling scheduled for August 2010.
  - Tank 241-C-108 off riser sampling scheduled for September 2010.
- BBI Updates
  - Five tank updates are scheduled for FY10.
    - One of the five updates was completed and two others have been started.
- Data Quality Objectives (DQO)
  - Complete revision 11 of the Chemistry Control DQO in August 2010.
  - Complete revision 18 of the Compatibility DQO in September 2010.

### III. Issues:

None.

## 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 processed approximately 2.1mgal of DST waste achieving 948kgals (45%) waste volume reduction.
FY09	09-02	AP-101/ AP-105	AP-104/ AP-101	
FY10	10-01	AW-106	AW-106	Planned waste processing start August 2010. Campaigns 10-01 and 10-02 will be performed back-to-back. Campaign 10-02 represents an acceleration of baseline Campaign 11-01. Campaigns renamed based on FY sequence.
FY10	10-02	AW-106	AW-106	
FY11	11-01	AP-107	AP-104/ AP-107	Planned start July 2011.
FY12	12-01	AZ-102	AP-017	Planned start March 2012.
FY13	13-01	AY-101	AP-017	Planned start March 2013.

## TANK OPERATIONS CONTRACT (TOC) OVERVIEW

### PROJECT 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 current month (CM) schedule variance (SV) for the TOC is **(\$1,627k)**. This variance reflects an adjustment in resource focus to support TOC critical path activities resulting in additional unfavorable SV on non-critical scope. The TOC is addressing emergent challenges which are being evaluated and layered into the critical path including: AN-101 pump replacement, 242-A Evaporator "burst" rupture disk impacts, and A350 Catch Tank pumping. The TOC is currently behind the target SV recovery plan by **(\$2,649k)**. The current forecast for overall schedule recovery is August 2010. Individual schedule recovery efforts are forecast to continue into early FY11. The May Schedule Recovery Plan was reviewed with the U.S. Department of Energy (DOE) Office of River Protection (ORP) on June 10, 2010. SV Recovery Plan updates will continue to be reviewed on a biweekly basis or as agreed upon with ORP.

## SUMMARY PROJECT PERFORMANCE

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 Plng/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 CM unfavorable SV of (\$1,627k) is driven by:

#### 1) Retrieval and Closure SSTs, (\$2,310k):

- 1) *C Farm Facility Enhancements*, (\$1,616k): additional time 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) *Interim Barrier*, (\$443k): the decision to move BY Tank Farm activities to FY11 and delays in S Farm setup activities due to delays in completing direct push activities in C Farm.

#### 2) Offset by, Base Operations, \$961k:

- 1) *RA- DST Valve Assembly Upgrades*, \$836k: a management decision that specific startup and testing activities would not be required for AN-A, AN-B, and AP Valve Pits allowing the activities to be considered 100% complete at no cost; and receiving all 88 valves for jumper replacement three (3) months ahead of schedule.

### TOC CM favorable CV of \$2,795k is driven by:

#### 1) Retrieval and Closure SSTs, \$1,945k:

- 1) *C Farm Infrastructure*, \$872k: construction costs have been mischarged to C-111. Cost will be transferred by August. In addition, removal and preparation for pump removal have been completed more efficiently.
- 2) *Retrieval Technology Development*, \$440k: labor and subcontractor efficiencies.
- 3) *C Farm Infrastructure DST Receiver Tank 3*, \$435k: procurement efficiencies achieved from changing the designation of the receiver tank from AY-101 to AN-106.

#### 2) Base Operations, \$472k:

- 1) *RA- DST Valve Assembly Upgrades*, \$614k: a management decision that specific startup and testing activities would not be required for AN-A, AN-B, and AP Valve Pits allowing the activities to be considered 100% complete at no cost, and the reduced pricing negotiated that reduced the cost for the fabrication of jumpers in the AP Valve Pit.

**3) WFD/Treatment Png/DST Retrieval/Closure, \$439k:**

- 1) *RPP System Plan*, \$131k: efficiencies with the current staffing level gained through G2 software training, HTWOS model improvements and judicious use of overtime; enabling completion of parallel activities including HTWOS Modeling and System Plan Reporting.
- 2) *WFD PE/Flow Sheet*, \$130k: lack of contract support and staffing vacancies.
- 3) *RA- Secondary Waste Form Testing*, \$110k: subcontractor preparing test monoliths and Caststone/Fluidized Bed Steam Reforming test plans for less than planned.

WRPS May CTD Project Performance by Level 2 WBS (\$k)										
	CTD BCWS	CTD BCWP	CTD ACWP	CTD SV	CTD CV	CTD SPI	CTD CPI	BAC	EAC	VAC
5.1- Base Operations	384,745.0	386,509.9	367,976.9	1,764.8	18,533.0	1.00	1.05	1,247,043.6	1,233,109.5	13,934.1
5.2- Retrieval and Close SSTs	113,786.0	105,915.5	100,635.4	(7,870.5)	5,280.1	0.93	1.05	418,165.5	407,692.5	10,473.0
5.3- WFD/Treatment Png/DST Retrieval/Closure	52,783.4	53,157.8	42,092.4	374.4	11,065.4	1.01	1.26	352,444.5	344,104.4	8,340.1
5.4- Supplemental Treatment	1,577.5	1,353.5	1,228.6	(224.0)	125.0	0.86	1.10	23,500.7	23,812.8	(312.1)
5.5- Treat Waste	0.0	0.0	0.0	0.0	0.0	0.00	0.00	13,452.2	13,452.2	0.0
Total	552,892.0	546,936.7	511,933.2	(5,955.3)	35,003.5	0.99	1.07	2,054,606.5	2,022,171.4	32,435.1

**TOC CTD unfavorable SV of (\$5,955k) is driven by:****1) Retrieval and Closure SSTs, (\$7,871k):**

- 1) *C Farm Facility Enhancements*, (\$2,567k): additional time 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*, (\$2,017k): 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*, (\$983k): 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*, (\$870k): additional time required to process sub-tier contractor procurements.
- 5) *Interim Barriers*, (\$739k): 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*, (\$627k): 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 downpost the basin area from a Radiation Buffer Area (RBA).

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

- 1) *All-Terrain Crane*, \$1,878k: 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*, \$5,491k: lower allocation of applicable General and Administrative (G&A)/COP costs than planned resulting from RA Program under runs.
- 2) *SST Safe Storage & Operations*, \$4,038k: continuous cost under runs realized in operations; partially offset with maintenance over runs.
- 3) *Finance Support*, \$2,470k: 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*, \$2,048k: lower material expenditures due to receipt of items from Yucca Mountain and document control's utilization of current staff.
- 5) *RA- Program Mgmt*, \$1,485k: less Request for Offsite Services (ROS) Support, labor charges (staffing vacancies), and less material cost than planned.
- 6) *RA- Drawing Reconstitution*, \$1,411k: 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*, \$1,400k: less training cost for RA employees decreasing HAMMER cost and use of training professionals.

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

- 1) *RA- AW COB Isolation*, \$1,337k: 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*, \$1,024k: contract to support flow sheet development has not been awarded and staff vacancies.
- 3) *RA -WFD Tank Mixing & Sampling*, \$752k: 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*, \$734k: 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*, \$564k: the use of fewer resources to complete the TWINS database diagnostic activities.
- 6) *RA- WFE-Specific Site & Regulatory Interfaces*, \$501k: 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*, \$459k: utilization of incorrect Earned Value Method from October 2009 through February 2010.
- 8) *Secondary Waste Treatment/ETF Program Mgmt*, \$458k: budgeted resources charging to project support.

- 9) *Hanford IHLW Storage Project Support*, \$433k: current staff using prior knowledge to limit the need for engineering support.
- 10) *RA-AWA Project Planning and Mobilization*, \$419k: 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.

### CM PROJECT PERFORMANCE by Work Breakdown Structure (WBS)

WRPS May Project Performance - CM (\$k)							
WBS	CM BCWS	CM BCWP	CM ACWP	CM SV	CM CV	CM SPI	CM CPI
<b>5.1.1 - Base Operations</b>							
5.1.1.1 - Base Operations Project Mgmt	218.5	218.5	279.4	0.0	(60.9)	1.00	0.78
5.1.1.2 - TSR Surveillance & Maintenance	3,810.3	3,739.5	3,819.3	(70.8)	(79.8)	0.98	0.98
5.1.1.3 - TSR Administrative Controls	211.2	199.1	264.2	(12.1)	(65.2)	0.94	0.75
5.1.1.4 - Core Services	130.6	130.6	119.2	0.0	11.4	1.00	1.10
5.1.1.5 - Tank Chemistry and Integrity	1,175.3	1,309.5	760.7	134.2	548.8	1.11	1.72
5.1.1.6 - Solid Waste Management	433.0	433.0	450.0	0.0	(17.0)	1.00	0.96
5.1.1.7 - RA Tank Farm Operations	1,782.5	1,627.1	1,581.9	(155.4)	45.1	0.91	1.03
5.1.1.8 - RA- TOC Support Facility Construct/Refurb	40.5	40.5	52.8	0.0	(12.3)	1.00	0.77
<b>5.1.1 - Base Operations Total*</b>	<b>7,801.9</b>	<b>7,697.8</b>	<b>7,327.6</b>	<b>(104.1)</b>	<b>370.2</b>	<b>0.99</b>	<b>1.05</b>
<b>5.1.2 - DST Space Management</b>	539.9	540.9	525.0	0.9	15.9	1.00	1.03
<b>5.1.3 - TOC Facility Operations</b>	3,099.6	3,084.5	3,202.8	(15.2)	(118.3)	1.00	0.96
<b>5.1.4 - Tank Farm Upgrades</b>	4,270.1	5,120.6	3,922.4	850.6	1,198.3	1.20	1.31
<b>5.1.5 - Project Support</b>							
5.1.5.1 - Project Integration	961.8	957.2	811.7	(4.6)	145.5	1.00	1.18
5.1.5.2 - ESH&Q	1,521.1	1,369.5	1,538.3	(151.6)	(168.8)	0.90	0.89
5.1.5.3 - Security and Emergency Services	67.3	67.3	78.9	0.0	(11.7)	1.00	0.85
5.1.5.4 - Central Engineering	609.6	578.2	628.4	(31.5)	(50.2)	0.95	0.92
5.1.5.5 - Workforce Resources	738.8	738.8	755.8	0.0	(17.0)	1.00	0.98
5.1.5.6 - Business Services**	636.1	636.9	1,467.2	0.8	(830.3)	1.00	0.43
5.1.5.7 - Executive Management	299.9	299.9	351.7	0.0	(51.8)	1.00	0.85
5.1.5.8 - Hanford Pension and Benefits	1,738.1	1,738.1	1,851.5	0.0	(113.4)	1.00	0.94
5.1.5.9 - RA - Project Support	2,258.8	2,674.2	2,570.7	415.4	103.5	1.18	1.04
<b>5.1.5 - Project Support Total*</b>	<b>8,831.4</b>	<b>9,059.9</b>	<b>10,054.1</b>	<b>228.5</b>	<b>(994.2)</b>	<b>1.03</b>	<b>0.90</b>
<b>5.2.1 - Retrieval/Closure Program</b>	5,349.7	3,939.7	2,854.1	(1,410.0)	1,085.7	0.74	1.38
<b>5.2.2 - SST Retrieval East Area</b>	6,125.4	4,806.0	4,017.8	(1,319.4)	788.2	0.78	1.20
<b>5.2.3 - SST Retrieval West Area</b>	75.5	0.0	13.0	(75.5)	(13.0)	0.00	0.00
<b>5.2.4 - Closure Program</b>	188.8	148.3	146.4	(40.6)	1.8	0.79	1.01
<b>5.2.5 - SST Closure</b>	(363.8)	172.0	89.9	535.9	82.2	(0.47)	1.91
<b>5.3.1 - WTP Feed Delivery Program</b>	1,843.5	1,900.3	1,500.8	56.8	399.5	1.03	1.27
<b>5.3.2 - Construct DST Systems</b>	464.1	294.4	271.7	(169.7)	22.7	0.63	1.08
<b>5.3.3 - RA - Transfer System Mods Project</b>	885.7	325.3	331.1	(560.4)	(5.7)	0.37	0.98
<b>5.3.6 - Immobilization Program</b>	349.3	445.5	471.7	96.1	(26.2)	1.28	0.94
<b>5.3.7 - WTP Operational Readiness</b>	359.0	354.8	340.9	(4.1)	13.9	0.99	1.04
<b>5.3.8 - East Area Waste Receiving Facility (WRF)</b>	0.0	39.5	6.1	39.5	33.4	0.00	6.49
<b>5.3.9 - Tank Waste Pretreatment Project</b>	(397.4)	39.4	(2.4)	436.8	41.8	(1.10)	(16.52)
<b>5.3.10 - Secondary Waste Treatment/ETF</b>	161.2	404.6	295.0	243.4	109.6	0.00	1.37
<b>5.3.11 - Next Generation Projects</b>	1,709.9	1,271.1	1,420.7	(438.9)	(149.6)	0.74	0.89
<b>5.4.1 - Supplemental Treatment</b>	225.0	247.4	309.1	22.4	(61.7)	1.10	0.80
<b>TOTAL</b>	<b>41,519.0</b>	<b>39,892.1</b>	<b>37,097.6</b>	<b>(1,626.9)</b>	<b>2,794.5</b>	<b>0.96</b>	<b>1.08</b>

Yellow cells indicate variance is reportable; CM = (+/- \$150K) and 10% - Refer to Appendix B for variance detail. \* Reportable at Level 4 \*\*Includes Liquidations

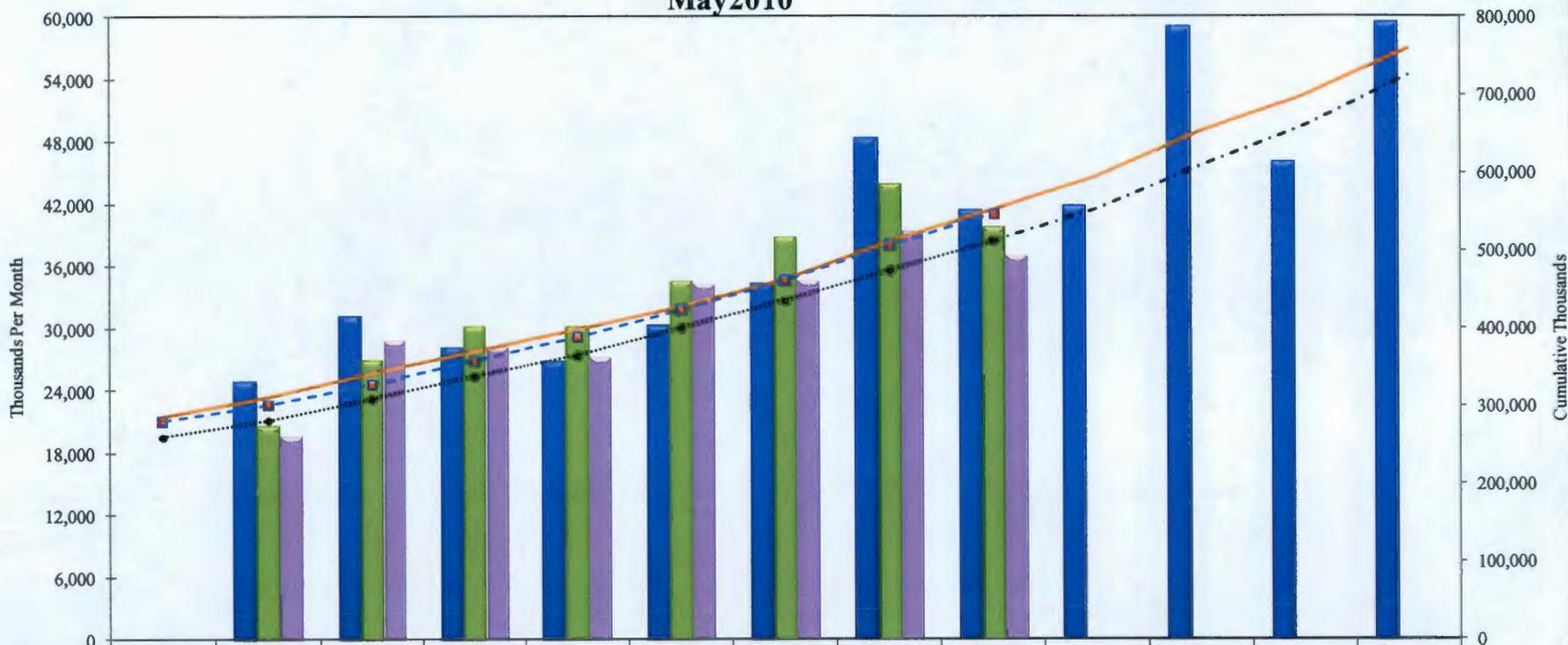
## CTD PROJECT PERFORMANCE by WBS

WRPS May Project Performance - CTD (\$k)								
WBS	CTD BCWS	CTD BCWP	CTD ACWP	CTD SV	CTD CV	CTD SPI	CTD CPI	BAC
<b>5.1.1 - Base Operations</b>								
5.1.1.1 - Base Operations Project Mgmt	5,304.2	5,304.2	4,911.4	0.0	392.8	1.00	1.08	15,181.4
5.1.1.2 - TSR Surveillance & Maintenance	74,166.1	74,209.7	78,230.1	43.6	(4,020.4)	1.00	0.95	234,539.5
5.1.1.3 - TSR Administrative Controls	5,630.5	5,447.6	6,245.0	(182.9)	(797.4)	0.97	0.87	14,289.4
5.1.1.4 - Core Services	3,726.2	3,726.2	3,035.5	0.0	690.8	1.00	1.23	9,518.2
5.1.1.5 - Tank Chemistry and Integrity	16,348.4	16,105.1	12,575.4	(243.4)	3,529.6	0.99	1.28	71,674.8
5.1.1.6 - Solid Waste Management	8,741.7	8,741.7	8,749.9	0.0	(8.2)	1.00	1.00	29,980.6
5.1.1.7 - RA Tank Farm Operations	12,813.5	12,972.6	12,771.3	159.1	201.3	1.01	1.02	28,765.7
5.1.1.8 - RA- TOC Support Facility Construct/Refurb	237.0	112.0	56.5	(125.0)	55.5	0.47	1.98	3,909.6
5.1.1.9 - TOC Support Facility Construction/Refurbishment	0.0	0.0	0.0	0.0	0.0	0.00	0.00	182.1
<b>5.1.1 - Base Operations Total*</b>	<b>126,967.6</b>	<b>126,619.0</b>	<b>126,575.0</b>	<b>(348.5)</b>	<b>44.0</b>	<b>1.00</b>	<b>1.00</b>	<b>408,041.1</b>
<b>5.1.2 - DST Space Management</b>	<b>12,630.4</b>	<b>9,900.7</b>	<b>13,063.3</b>	<b>(2,729.7)</b>	<b>(3,162.5)</b>	<b>0.78</b>	<b>0.76</b>	<b>41,416.8</b>
<b>5.1.3 - TOC Facility Operations</b>	<b>44,752.8</b>	<b>44,621.0</b>	<b>41,270.2</b>	<b>(131.8)</b>	<b>3,350.8</b>	<b>1.00</b>	<b>1.08</b>	<b>149,984.4</b>
<b>5.1.4 - Tank Farm Upgrades</b>	<b>29,609.1</b>	<b>35,081.7</b>	<b>27,653.7</b>	<b>5,472.6</b>	<b>7,428.1</b>	<b>1.18</b>	<b>1.27</b>	<b>126,688.2</b>
<b>5.1.5 - Project Support</b>								
5.1.5.1 - Project Integration	15,799.9	15,729.3	12,771.5	(70.6)	2,957.8	1.00	1.23	60,695.8
5.1.5.2 - ESH&Q	27,147.6	26,930.7	25,279.6	(216.9)	1,651.0	0.99	1.07	88,502.1
5.1.5.3 - Security and Emergency Services	1,232.5	1,232.5	1,396.4	0.0	(163.9)	1.00	0.88	4,215.5
5.1.5.4 - Central Engineering	9,349.1	9,195.4	9,766.5	(153.6)	(571.1)	0.98	0.94	34,543.9
5.1.5.5 - Workforce Resources	16,138.0	16,138.0	15,565.5	0.0	572.5	1.00	1.04	48,309.2
5.1.5.6 - Business Services**	27,939.0	27,927.5	31,513.5	(11.5)	(3,586.0)	1.00	0.89	82,723.8
5.1.5.7 - Executive Management	7,072.5	7,072.5	6,992.6	(0.0)	79.9	1.00	1.01	20,297.6
5.1.5.8 - Hanford Pension and Benefits	30,128.2	30,128.2	29,758.3	0.0	369.8	1.00	1.01	110,742.1
5.1.5.9 - RA - Project Support	35,978.4	35,933.3	26,370.8	(45.1)	9,562.6	1.00	1.36	70,883.1
<b>5.1.5 - Project Support Total*</b>	<b>170,785.1</b>	<b>170,287.3</b>	<b>159,414.7</b>	<b>(497.8)</b>	<b>10,872.6</b>	<b>1.00</b>	<b>1.07</b>	<b>520,913.1</b>
<b>5.2.1 - Retrieval/Closure Program</b>	<b>59,128.5</b>	<b>56,623.2</b>	<b>48,914.6</b>	<b>(2,505.3)</b>	<b>7,708.6</b>	<b>0.96</b>	<b>1.16</b>	<b>163,854.3</b>
<b>5.2.2 - SST Retrieval East Area</b>	<b>49,375.5</b>	<b>43,907.0</b>	<b>47,781.6</b>	<b>(5,468.5)</b>	<b>(3,874.6)</b>	<b>0.89</b>	<b>0.92</b>	<b>218,349.5</b>
<b>5.2.3 - SST Retrieval West Area</b>	<b>1,267.2</b>	<b>1,253.1</b>	<b>1,033.0</b>	<b>(14.1)</b>	<b>220.1</b>	<b>0.99</b>	<b>1.21</b>	<b>3,544.0</b>
<b>5.2.4 - Closure Program</b>	<b>2,611.8</b>	<b>2,538.5</b>	<b>2,155.4</b>	<b>(73.3)</b>	<b>383.2</b>	<b>0.97</b>	<b>1.18</b>	<b>8,965.4</b>
<b>5.2.5 - SST Closure</b>	<b>1,403.0</b>	<b>1,593.7</b>	<b>750.9</b>	<b>190.7</b>	<b>842.9</b>	<b>1.14</b>	<b>2.12</b>	<b>23,452.3</b>
<b>5.3.1 - WTP Feed Delivery Program</b>	<b>23,466.3</b>	<b>23,298.9</b>	<b>17,934.6</b>	<b>(167.4)</b>	<b>5,364.3</b>	<b>0.99</b>	<b>1.30</b>	<b>86,873.8</b>
<b>5.3.2 - Construct DST Systems</b>	<b>6,766.4</b>	<b>6,647.2</b>	<b>5,975.3</b>	<b>(119.2)</b>	<b>672.0</b>	<b>0.98</b>	<b>1.11</b>	<b>102,852.1</b>
<b>5.3.3 - RA - Transfer System Mods Project</b>	<b>3,241.3</b>	<b>3,921.3</b>	<b>2,998.1</b>	<b>680.0</b>	<b>923.2</b>	<b>1.21</b>	<b>1.31</b>	<b>20,726.1</b>
<b>5.3.6 - Immobilization Program</b>	<b>4,515.8</b>	<b>4,375.6</b>	<b>3,025.8</b>	<b>(140.2)</b>	<b>1,349.8</b>	<b>0.97</b>	<b>1.45</b>	<b>36,281.7</b>
<b>5.3.7 - WTP Operational Readiness</b>	<b>4,206.1</b>	<b>4,151.6</b>	<b>3,743.3</b>	<b>(54.5)</b>	<b>408.3</b>	<b>0.99</b>	<b>1.11</b>	<b>16,348.8</b>
<b>5.3.8 - East Area Waste Receiving Facility (WRF)</b>	<b>490.8</b>	<b>490.8</b>	<b>191.2</b>	<b>(0.0)</b>	<b>299.5</b>	<b>1.00</b>	<b>2.57</b>	<b>490.8</b>
<b>5.3.9 - Tank Waste Pretreatment Project</b>	<b>1,400.2</b>	<b>1,316.8</b>	<b>889.9</b>	<b>(83.4)</b>	<b>427.0</b>	<b>0.94</b>	<b>1.48</b>	<b>1,544.3</b>
<b>5.3.10 - Secondary Waste Treatment/ETF</b>	<b>3,662.7</b>	<b>3,951.3</b>	<b>3,302.2</b>	<b>288.6</b>	<b>649.1</b>	<b>1.08</b>	<b>1.20</b>	<b>35,542.3</b>
<b>5.3.11 - Next Generation Projects</b>	<b>5,033.8</b>	<b>5,004.3</b>	<b>4,032.0</b>	<b>(29.5)</b>	<b>972.3</b>	<b>0.99</b>	<b>1.24</b>	<b>51,784.5</b>
<b>5.4.1 - Supplemental Treatment</b>	<b>1,577.5</b>	<b>1,353.5</b>	<b>1,228.6</b>	<b>(224.0)</b>	<b>125.0</b>	<b>0.86</b>	<b>1.10</b>	<b>23,500.7</b>
<b>5.5.2 - Waste Treatment Facility (WTP)</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.00</b>	<b>0.00</b>	<b>13,452.2</b>
<b>TOTAL</b>	<b>562,892.0</b>	<b>546,936.7</b>	<b>511,933.2</b>	<b>(5,955.3)</b>	<b>35,003.5</b>	<b>0.99</b>	<b>1.07</b>	<b>2,054,606.5</b>

Yellow cells indicate variance is reportable; CTD = (+/- \$500K) and 10% - Refer to Appendix B for variance detail. \* Reportable at Level 4 \*\*Includes Liquidations

Variance explanations are reported in Section 10.0 (Appendix B)

### FY10 WRPS Contract-to-Date Performance (\$) May2010



	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				
■ CMA 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

## EARNED VALUE PERFORMANCE AT WBS LEVELS 3 and 4

Earned value performance reporting that follows reflects the format, WBS reporting levels, and variance thresholds agreed to with the DOE-ORP for this TOC Monthly Performance Report. Generally, performance is reported at WBS level 3 with the exception of WBS 5.01.01, Base Operations, and WBS 5.01.05, Project Support, wherein reporting is at level 4 to provide additional visibility and analysis.

The schedule and cost variance analysis thresholds at the reporting levels are as follows:

Current Month (CM) = +/- 10% and \$150k

Cumulative to Date (CTD) = +/- 10% and \$500k

**\*YELLOW SHADED CELLS ON THE FOLLOWING TABLES DENOTE REPORTABLE VARIANCES.**

### 5.01.01 - BASE OPERATIONS

#### WBS 5.01.01.03 - TSR Administrative Controls

May 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	211.2	199.1	264.2	(12.1)	(6%)	(68.2)	(33%)	0.94	0.75	
CTD	5,630.5	5,447.6	6,245.0	(182.9)	(3%)	(797.4)	(15%)	0.97	0.87	14,289.4

#### Schedule and Cost Variance Analysis

The unfavorable CTD CV of (\$732k) is reportable:

Description/Cause: due to *Tank Waste Sampling*, (\$789k): increased labor in FY09 was needed to support AZ-102 grab samples that had higher dose rates than originally expected requiring extensive re-work of the work package and several additional mock-ups were held to determine how the higher dose rate samples would be obtained. Additional downtime occurred in April and May which increased the variance.

#### WBS 5.01.01.04 - Core Services

May 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	130.6	130.6	119.2	0.0	0%	11.4	9%	1.00	1.10	
CTD	3,726.2	3,726.2	3,035.5	0.0	0%	690.8	19%	1.00	1.23	9,518.2

#### Schedule Variance and Cost Variance Analysis

The favorable CTD CV of \$691k is reportable:

Description/Cause: due to *Bargaining Unit Training*, \$538k: under utilization in FY09; the account has been discounted and the cost have been moved to DST/SST Maintenance and Essential Services accounts.

### WBS 5.01.01.05 - Tank Chemistry and Integrity

#### May 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	1,175.3	1,309.5	760.7	134.2	11%	548.8	42%	1.11	1.72	
CTD	16,348.4	16,105.1	12,575.4	(243.4)	(1%)	3,529.6	22%	0.99	1.28	71,674.8

#### Schedule and Cost Variance Analysis

*The favorable CM CV of \$549k is reportable:*

Description/Cause: due to 1) *SST Integrity Project*, \$368k: delayed statistical analysis; current work is being performed by interns at minimum cost. 2) *Tank Chemistry Control*, \$216k: efficiencies realized by utilizing the same labor resources, testing materials and contractor design support that is associated with the RA AN-107 Corrosion Probe design, fabrication and installation activities.

*The favorable CTD CV of \$3,530k is reportable:*

Description/Cause: due to 1) *Tank Chemistry Control*, \$1,306k: efficiencies in the AY-101 Corrosion Probe activity were achieved by the subcontractors during the design and fabrication efforts as a result of designing two (2) similar probes with the same functional characteristics as opposed to each probe having unique functional characteristics. Labor efficiencies were also achieved as a result of installing the AY-101 and AY-102 Corrosion Probes at the same time due to the close proximity of the tanks and the ability to combine the field work. Additional savings are due to DST Integrity Laboratory activities requiring less support than estimated. 2) *SST Integrity Project*, \$1,284k: FY09 efficiencies from using expert panel support contracts, efficient research and implementation of the plan by Staff Aug personnel, and the use of interns for data collection. 3) *DST Integrity Project*, \$940k: labor efficiencies in AW-101 and AW-105 UT Examinations were realized during field activities when these examinations were performed back-to-back due to the availability of resources and the close proximity of the tanks. Labor efficiencies were also realized with the AW-106 UT field preparations and UT field scanning activities due to cleaner than expected surface conditions of the tank wall that required less than normal wall cleaning.

### 5.01.02 - DST SPACE MANAGEMENT

#### May 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	539.9	540.9	525.0	0.9	0%	15.9	3%	1.00	1.03	
CTD	12,630.4	9,900.7	13,063.3	(2,729.7)	(22%)	(3,162.5)	(32%)	0.78	0.76	41,416.8

#### Schedule and Cost Variance Analysis

*The unfavorable CTD SV (\$2,730k) is reportable:*

Description/Cause: due to 1) *DST to DST Transfer*, (\$1,388k): as-found conditions in the valve pits and degrading transfer equipment requiring repairs prior to the transfer (leak at nozzle "L" in AZ valve

pit). 2) 242-A Evaporator Operations & Maintenance, (\$1,346k): the five (5) month delayed start and completion on the Evaporator Campaign and the implementation of a schedule correction for the Evaporator Corrective Maintenance/ Preventive Maintenance (CM/PM) activities.

*The unfavorable CTD CV (\$3,163k) is reportable:*

Description/Cause: due to 1) 242-A Evaporator Operations & Maintenance, (\$2,371k): additional cost associated with pre-campaign maintenance, FY09 carryover scope, and several unplanned, high-risk corrective maintenance activities with overtime being utilized to recover/maintain the FY10 Campaign schedule. 2) DST to DST Transfer, (\$897k): the utilization of overtime to identify the extent of the problems with the leaking nozzle L in AZ valve pit and to revise the procedures to account for the pre/post flushing of the valve pit. Additional issues were found with the drain seals assemblies installed as part of the W-211/W-314 which needed to be addressed.

#### 5.01.04 – TANK FARM UPGRADES

##### May 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	4,270.1	5,120.6	3,922.4	850.6	20%	1,198.3	23%	1.20	1.31	
CTD	29,609.1	35,081.7	27,653.7	5,472.6	18%	7,428.1	21%	1.18	1.27	126,688.2

#### Schedule and Cost Variance Analysis

*The favorable CM SV of \$851k of which \$634k is RA is reportable:*

Description/Cause: See explanation below

*The favorable CM CV of \$1,198k of which \$846k is RA is reportable:*

Description/Cause: due to 1) RA- DST Valve Assembly Upgrades, \$614k: a management decision that specific startup and testing activities would not be required for AN-A, AN-B, and AP Valve Pits allowing the activities to be considered 100% complete at no cost, and the reduced pricing negotiated that reduced the cost for the fabrication of jumpers in the AP Valve Pit. 2) RA- All Terrain Crain, \$235k: the cost of the crane being fully accrued in April with only the taxes being charged in CM. 3) RA- Electrical Upgrades, \$179k: labor resource efficiencies realized during the Phase 1 Work Document preparation, Field Work, and Startup/Testing activities for the SY Electrical Upgrades.

*The favorable CTD SV of \$5,473k of which \$5,211k is RA is reportable:*

Description/Cause: due to 1) RA- DST Valve Assembly Upgrades, \$2,151k: a management decision that specific startup and testing activities would not be required for AN-A, AN-B, and AP Valve Pits allowing the activities to be considered 100% complete at no cost, and receiving all 88 valves for jumper replacement three (3) months ahead of schedule. 2) RA- All Terrain Crane, \$1,878k: delivery of the crane three (3) months earlier than expected. 3) RA- 242-A Evaporator Upgrades, \$1,145k: completion of PC-5000 Leak Detection Upgrades five (5) months ahead of schedule; the acceleration of the Condenser Room Ductwork project by five (5) months; and the progress made on the Vendor's Preliminary Design Package of the Exhauster Upgrade.

*The favorable CTD CV of \$7,428k of which \$6,065k is RA is reportable:*

**Description/Cause:** due to 1) *RA- Drawing Reconstitution*, \$1,410k: lower cost for ROS staff as a result of a lower field rate than planned and efficiencies gained through tank farm walk downs. 2) *RA- DST Farm Upgrades*, \$1,393k: the Vent Reliability Study completing significantly under budget because it is determined through technical evaluations that the AN Exhauster Evaluation bounds all the heating, ventilation, and air conditioning (HVAC) systems and resolving the National Electrical Code (NEC) issues in the SY Farm and the DST Farm Replace Drain Seals project efficiently than planned because a dedicated team was assigned to support the projects and once in the field the team worked the job until complete. 3) *RA- Remove Obsolete Equipment*, \$1,120k: the use of plant forces to remove obsolete equipment versus construction forces, fewer hours were required to prepare engineering documents to support demolish AN and AW Exhauster projects, and lower engineering rates. 4) *RA- DST Valve Assembly Upgrades*, \$950k: a management decision that specific startup and testing activities would not be required for AN-A, AN-B, and AP Valve Pits allowing the activities to be considered 100% complete at no cost, and labor efficiencies realized during the installation of the valve funnel and positioning plates in AP Valve Pit. 5) *RA- Electrical Upgrades*, \$787k: efficiencies gained in the SST Electrical Upgrade Project for activities involved with the gathering of baseline field information. 6) *DST Infrastructure Upgrades*, \$749k: subcontractor cost for drawings/evaluations for Cathodic Protection was less than estimated.

### 5.01.05 - PROJECT SUPPORT

#### WBS 5.01.05.01 - Project Integration (PI)

##### May 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	961.8	957.2	811.7	(4.6)	(0%)	145.5	15%	1.00	1.18	
CTD	15,799.9	15,729.3	12,771.5	(70.6)	(0%)	2,957.8	19%	1.00	1.23	60,695.8

#### Schedule Variance and Cost Variance Analysis

The favorable CTD CV of \$2,958k is reportable:

**Description/Cause:** due to 1) *Project Integration & Interface Mgmt*, \$1,065k: is a result of lower labor cost from using administrative staff to backfill needs, lower labor rates than planned, realized cost quantities of materials was lower than anticipated, and lower subcontractor costs associated with effectiveness reviews. 2) *Construction/Commissioning Mgmt*, \$1,063k: fewer FTE and contracts than planned to support planned activities. 3) *Project(s) Mgmt*, \$568k: labor under runs as a result of vacant staff positions and limited use of ROS support for Estimating and PRB.

#### WBS 5.01.05.02 - Environmental, Safety, Health and Quality Assurance (ESH&Q)

##### May 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	1,521.1	1,369.5	1,538.3	(151.6)	(10%)	(168.8)	(12%)	0.90	0.89	
CTD	27,147.6	26,930.7	25,279.6	(216.9)	(1%)	1,651.0	6%	0.99	1.07	88,502.1

#### Schedule Variance and Cost Variance Analysis

The unfavorable CM SV of (\$152k) is reportable:

**Description/Cause:** due to *Environmental*, (\$158k): delays in completing Executive Order 13514 "Federal Leadership in Environmental, Energy, and Economic Performance;" additional reports are needed to further understand the impacts and develop the implementation cost going forward.

*The unfavorable CM CV of (\$169k) is reportable:*

**Description/Cause:** due to 1) *Radiation Protection*, (\$90k): additional Staff Aug and contract labor needed to work on the Corrective Action Plan (CAP) Improvement Team. 2) *Environmental*, (\$75k): additional contract staff coming on board to assist with the additional work needed for the Environmental compliance dealing with the NOV received earlier this year.

#### **WBS 5.01.05.06 - Business Services**

##### **May 2010 (\$k)**

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	636.1	636.9	1,467.2	0.8	0%	(830.3)	(130%)	1.00	0.43	
CTD	27,939.0	27,927.5	31,513.5	(11.5)	(0%)	(3,586.0)	(13%)	1.00	0.89	82,723.8

#### **Schedule Variance and Cost Variance Analysis**

*The unfavorable CM CV of (\$830k) is reportable:*

**Description/Cause:** due to 1) *Liquidations*, (\$406k): liquidations for the TD&D scope were planned at a much higher rate than the funding received. 2) *Finance Support*, (\$208k): travel was higher than planned due to large number of people attending VPP Conference, and B&O tax was higher because high tech credit was not incorporated pending final appeal.

3) *Procurements and Contracts*, (\$160k): subcontract support for the Material Request for Equitable Adjustment (REA) scope.

*The unfavorable CTD CV of (\$3,586k) is reportable:*

**Description/Cause:** due to *Liquidations*, (\$9,823k): COP and G&A to non-TOC Program (RA, Work for Others (WFOs), and TD&D) have not been as high as originally projected.

Business Services, excluding Liquidation, would have a \$13.4M favorable CTD CV. The \$13.4M offset the unfavorable CTD CV by 1) *Finance Support*, \$2,470k: due to the reduction of the planned Washington State Department of Revenue B&O tax rate due to utilizing the high tech credit. 2) *Information Resource Management*, \$2,048k: due to lower material cost due to the receipt of items from Yucca Mountain. 3) *Facility and Property Management*, \$1,077k: due to staffing vacancies.

#### **WBS 5.01.05.09 – RA- Project Support**

##### **May 2010 (\$k)**

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	2,258.8	2,674.2	2,370.7	415.4	18%	103.5	4%	1.18	1.04	
CTD	35,978.4	35,933.3	26,370.8	(45.1)	(0%)	9,562.6	27%	1.00	1.36	70,883.1

## Schedule and Cost Variance Analysis

*The favorable CM SV of \$416k is reportable:*

Description/Cause: due to RA- Facility and Property Management, \$416k: construction delays resulting from delays in design.

*The favorable CTD CV of \$9,563k is reportable:*

Description/Cause: due to 1) RA- Finance Support, \$5,491k: is due to lower allocation of applicable G&A/COP costs than planned. 2) RA- Program Management, \$1,484.5k: rate for subcontracts, including ROS, was less than planned and two (2) unfilled labor positions. 3) RA-TOC Training Program, \$1,400k: less training cost for RA employees decreasing HAMMER cost and use of training professionals.

### 5.02.01 - RETRIEVAL/CLOSURE PROGRAM

#### May 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	5,349.7	3,939.7	2,854.1	(1,410.0)	(26%)	1,085.7	28%	0.74	1.38	
CTD	59,128.5	56,623.2	48,914.6	(2,505.3)	(4%)	7,708.6	14%	0.96	1.16	163,854.3

## Schedule Variance and Cost Variance Analysis

*The unfavorable CM SV of (\$1,410k) is reportable:*

Description/Cause: due to 1) Interim Barrier, (\$443k): 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. 2) RA- Retrieval Technology Development, (\$411k): additional time required to process sub-tier contractor procurements. 3) RA- Interim Barrier Construction, (\$379k): differences between the basis for planned construction and actual construction activities being performed for example: type of barrier and construction schedule. Additional delays occurred when subcontractor experienced shortage of trained laborers and WRPS decided not to downpost the basin area from a Radiation Buffer Area (RBA).

*The favorable CM CV of \$1,086k is reportable:*

Description/Cause: due to 1) Retrieval Technology Development, \$440k: labor and subcontractor efficiencies. 2) Hose in Hose Transfer Line Disposition, \$206k: several lines were less contaminated than anticipated, therefore not requiring flushing. 3) RA- Interim Barrier Construction, \$167k: efficiencies gained by using a modified asphalt barrier versus the planned spray-on polyurea. 4) Surface Geophysical Exploration (SGE), \$130k: subcontractor performing work scope for less than planned due to experience and process improvements.

*The favorable CTD CV of \$7,709k is reportable:*

Description/Cause: due to 1) Hose in Hose Transfer Line Disposition (SST), \$4,057k: efficiencies realized in engineering and field by grouping multiple hoses together to work in parallel and several HIHTLs were less contaminated than anticipated, therefore not requiring flushing or high radiation controls. 2) Catch Tank & Pipeline Reporting, \$1,773k: efficiencies gained by using direct labor

rather than contract support for the initial planning scope, preparing the report using an existing database, and the use of in house, rather than subcontract personnel for finalization and comment resolution of the report. 3) *RA-Technology Development*, \$854k: efficiencies realized while constructing test facility.

#### 5.02.02 - SST RETRIEVAL EAST AREA

##### May 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	6,125.4	4,806.0	4,017.8	(1,319.4)	(22%)	788.2	16%	0.78	1.20	
CTD	49,375.5	43,907.0	47,781.6	(5,468.5)	(11%)	(3,874.6)	(9%)	0.89	0.92	218,349.5

#### Schedule Variance and Cost Variance Analysis

*The unfavorable CM SV of (\$1,319k) is reportable:*

Description/Cause: due primarily to *C Farm Facility Enhancements*, (\$1,616k): additional time required by the subcontractor for mobilization and training for the construction contract for the Lighting Upgrades, Enhanced Walkways, and Trailer Complex. Additional quality reviews were needed for the Shield Booth fabrication design and modifications to the Power Station design.

*The favorable CM CV of \$788k is reportable:*

Description/Cause: due primarily to *C Farm Infrastructure*, \$872k: construction costs have been mischarged to C-111. Cost will be transferred by August. In addition, removal and preparation for pump removal have been completed more efficiently.

*The unfavorable CTD SV of (\$4,149k) is reportable:*

Description/Cause: due to 1) *C Farm Facility Enhancements*, (\$2,567k): additional time 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*, (\$2,017k): delays in construction (equipment removal activities, frozen ground conditions, and issues with POR-008 exhauster) and receipt of procured equipment.

- Receive AGI submersible pumps (2 spares).
- Install new AN-101 Transfer Pump and jumpers.
- Complete construction and operational testing of new AN-101 Transfer Pump.

#### 5.02.05 - SST CLOSURE

##### May 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	(363.8)	172.0	89.9	535.9	(147%)	82.2	48%	(0.47)	1.91	
CTD	1,403.0	1,593.7	750.9	190.7	14%	842.9	53%	1.14	2.12	23,452.3

### Schedule Variance and Cost Variance Analysis

The favorable CM SV of \$536k is reportable:

Description/Cause: due primarily to *Closure Demonstration*, \$510k: the deferral of C-301 Direct Push activities to FY11.

The favorable CTD CV of \$543k is reportable:

Description/Cause: due to *Closure Demonstration*, \$779k: efficiencies realized in project management and in Situ Stabilization that required fewer FTEs than planned.

#### 5.03.01 - WTP FEED DELIVERY PROGRAM

May 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	1,843.5	1,900.3	1,500.8	56.8	3%	399.5	21%	1.03	1.27	
CTD	23,466.3	23,298.9	17,934.6	(167.4)	(1%)	5,364.3	23%	0.99	1.30	86,873.8

### Schedule Variance and Cost Variance Analysis

The favorable CM CV of \$400k is reportable:

Description/Cause: due to 1) *RPP System Plan*, \$131k: efficiencies with the current staffing level gained through G2 training, HTWOS model improvements and judicious use of overtime; enabling completion of parallel activities including HTWOS Modeling and System Plan Reporting. 2) *WFD PE/Flow Sheet*, \$130k: lack of contract support and staffing vacancies. 2) *WFD Technical Baseline*, \$102k: work scope completed more efficiently than planned.

The favorable CTD CV of \$5,364k is reportable:

Description/Cause: due to 1) *WFD PE/Flow Sheet*, \$1,024k: lack of contract support and staff vacancy. 2) *RA –WFD Tank Mixing & Sampling*, \$752k: resulting from a \$587k transfer to SRNL for the Bench-Scale Demonstration which is not captured as actual cost (ACWP); and the Small-Scale Mixing Demonstration Plan completed significantly under original estimate. 3) *WFD Technical Baseline*, \$738k: delays in hiring staff resulting in labor cost under runs and delays in issuing contracts for managed task resulting in subcontract under runs. 4) *Tank Waste Database Management*, \$564k: the use of fewer resources to complete the TWINS database diagnostic activities. 5) *RA–AWA Project Planning and Mobilization*, \$418k: 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 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 CLIN 3 was finalized; therefore the cost for new hires is under run. 6) *RPP System Plan*, \$282k: efficiencies gained through G2 training, HTWOS model improvements, and judicious use of overtime. 7) *Waste Compatibility Program*, \$395k: performance realized on the level of effort cone penetrometer activity that will complete in the last three (3) months of FY10. 8) *WFD Technology Development*, \$275k: resulting from a \$150k transfer to SRNL and additional labor was not required to support subcontract work tasks due to the high quality of the subcontract work products.

**5.03.02 - CONSTRUCT DST SYSTEMS**

May 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	464.1	294.4	271.7	(169.7)	(37%)	22.7	8%	0.63	1.08	
CTD	6,766.4	6,647.2	5,975.3	(119.2)	(2%)	672.0	10%	0.98	1.11	102,852.1

**Schedule Variance and Cost Variance Analysis**

*The unfavorable CM SV of (\$170k) is reportable:*

Description/Cause: due to 1) RA- Waste Feed EPCC- Strategic Plan, (\$86k): the complexity associated with Phase 2 (Waste Feed Delivery) RAMI modeling impacting the start of Phase 3 (WTP Operations Research Model). 2) RA- AW Farm Infrastructure, (\$52k): performance was taken 3 months earlier for 30% design.

*The favorable CTD CV of \$672k is reportable:*

Description/Cause: due to 1) RA- SY D&D (SHMS-GCS), \$378k: efficiencies gained in designing the removal of obsolete equipment that is similar in AW and SY Farms and use of smaller work crew. 2) DST Feed Delivery Project Management, \$284k: staff vacancies in the first half of FY10. Work is now complete.

**5.03.03- RA- TRANSFER SYSTEM MOD PROJECT**

May 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	885.7	325.3	331.1	(560.4)	(63%)	(3.7)	(2%)	0.37	0.98	
CTD	3,241.3	3,921.3	2,998.1	680.0	21%	923.2	24%	1.21	1.31	20,726.1

**Schedule Variance and Cost Variance Analysis**

*The unfavorable CM SV of (\$560k) is reportable:*

Description/Cause: due to 1) RA- AW COB Isolation, (\$167k): project acceleration and near completion of work scope. 2) RA - SN-278/SN-279 and SN-285/SN-286 TL Upgrades, (\$152k): delays in awarding the pipe refurbishment, fabrication, and construction contracts. 3) RA - SL-177/SN-277 and SL-180/SN-280 TL Upgrades, (\$144k): delays in awarding the pipe refurbishment, fabrication, and construction contracts.

*The favorable CTD SV of \$680k is reportable:*

Description/Cause: due to RA- AW COB Isolation, \$1,674k: acceleration of COB removal activities and less field time required than planned as a result of a strong working relation between HAMTC (HPTs), engineering (with support from subcontract ARES) and experienced construction craft. This CTD SV is offset by 1) RA - SL-177/SN-277 and SL-180/SN-280 TL Upgrades, (\$596k): cost for unexpected design work. 2) RA - SN-278/SN-279 and SN-285/SN-286 TL Upgrades, (\$364k):

unanticipated effort was required during the review of construction bids due to the complexity of the work to ensure accurate bids.

*The favorable CTD CV of \$923k is reportable:*

Description/Cause: due to RA- AW COB Isolation, \$1,337k: awarding construction contract which is significantly below initial estimates and fewer resources required resulting from a strong working relationship between HAMTC (HPTs), engineering (with support from subcontract ARES) and experienced construction craft.

**This CTD CV is offset by RA - SL-177/SN-277 and SL-180/SN-280 TL Upgrades, (\$461k):** cost for unexpected design work.

### 5.03.06 - IMMOBILIZATION PROGRAM

#### May 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	349.3	445.5	471.7	96.1	28%	(26.2)	(6%)	1.28	0.94	
CTD	4,515.8	4,375.6	3,025.8	(140.2)	(3%)	1,349.8	31%	0.97	1.45	36,281.7

#### Schedule Variance and Cost Variance Analysis

*The favorable CTD CV of \$1,349k is reportable:*

Description/Cause: due to 1) IDF Glass Testing, \$459k: the utilization of the wrong earned value method in the beginning of FY10. 2) Hanford IHLW Storage Project Support, \$433k: labor efficiencies realized by using prior knowledge limiting the need for additional engineering support. 3) Hanford IHLW Storage Project Management, \$258k: labor efficiencies realized by using prior knowledge limiting the need for additional engineering support, and the ramping-down status of the project.

### 5.03.09 – TANK WASTE PRETREATMENT PROJECT

#### May 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	(397.4)	39.4	(2.4)	436.8	(110%)	41.8	106%	(0.10)	(16.52)	
CTD	1,400.2	1,316.8	889.9	(83.4)	(6%)	427.0	32%	0.94	1.48	1,544.3

#### Schedule Variance and Cost Variance Analysis

*The favorable CM SV of \$437k is reportable:*

Description/Cause: due to Lithium/Bayer Pretreatment Program, \$485k: letter of direction from ORP to defer scope out of Near Term Performance Baseline (NTB) into the Out-Year Planning Estimate Range (OPER) period.

**5.03.10 – SECONDARY WASTE TREATMENT/ETF****May 2010 (\$k)**

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	161.2	404.6	295.0	243.4	151%	109.6	27%	2.51	1.37	
CTD	3,662.7	3,951.3	3,302.2	288.6	8%	649.1	16%	1.08	1.20	35,542.3

**Schedule Variance and Cost Variance Analysis**

*The favorable CM SV of \$243k is reportable:*

Description/Cause: due to RA- Secondary Waste Form Testing, \$262k: an early start on long-term Secondary Waste Form Testing set-up and preparation.

*The favorable CTD CV of \$649k is reportable:*

Description/Cause: due to Secondary Waste Treatment/EFT Project Mgmt, \$458k: budgeted labor charging to Secondary Waste Treatment/ EFT Project Support account.

**5.03.11 – NEXT GENERATION PROJECTS****May 2010 (\$k)**

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	1,709.9	1,271.1	1,420.7	(438.9)	(26%)	(149.6)	(12%)	0.74	0.89	
CTD	5,033.8	5,004.3	4,032.0	(29.5)	(1%)	972.3	19%	0.99	1.24	51,784.5

**Schedule Variance and Cost Variance Analysis**

*The unfavorable CM SV of (\$439k) is reportable:*

Description/Cause: due to 1) Next Generation Flowsheet/Glass Chemistry Support, (\$200k): delay in implementation of BCR which provided detail to work scope. 2) Next Generation JHCM & Test Facility Design, (\$189k): delay in implementation of BCR which provided detail to work scope.

*The unfavorable CM CV of (\$150k) is reportable:*

Description/Cause: due to Next Generation Flowsheet/Glass Chemistry Support, (\$192k): delay in implementation of BCR which provided detail to work scope.

*The favorable CTD CV of \$972k is reportable:*

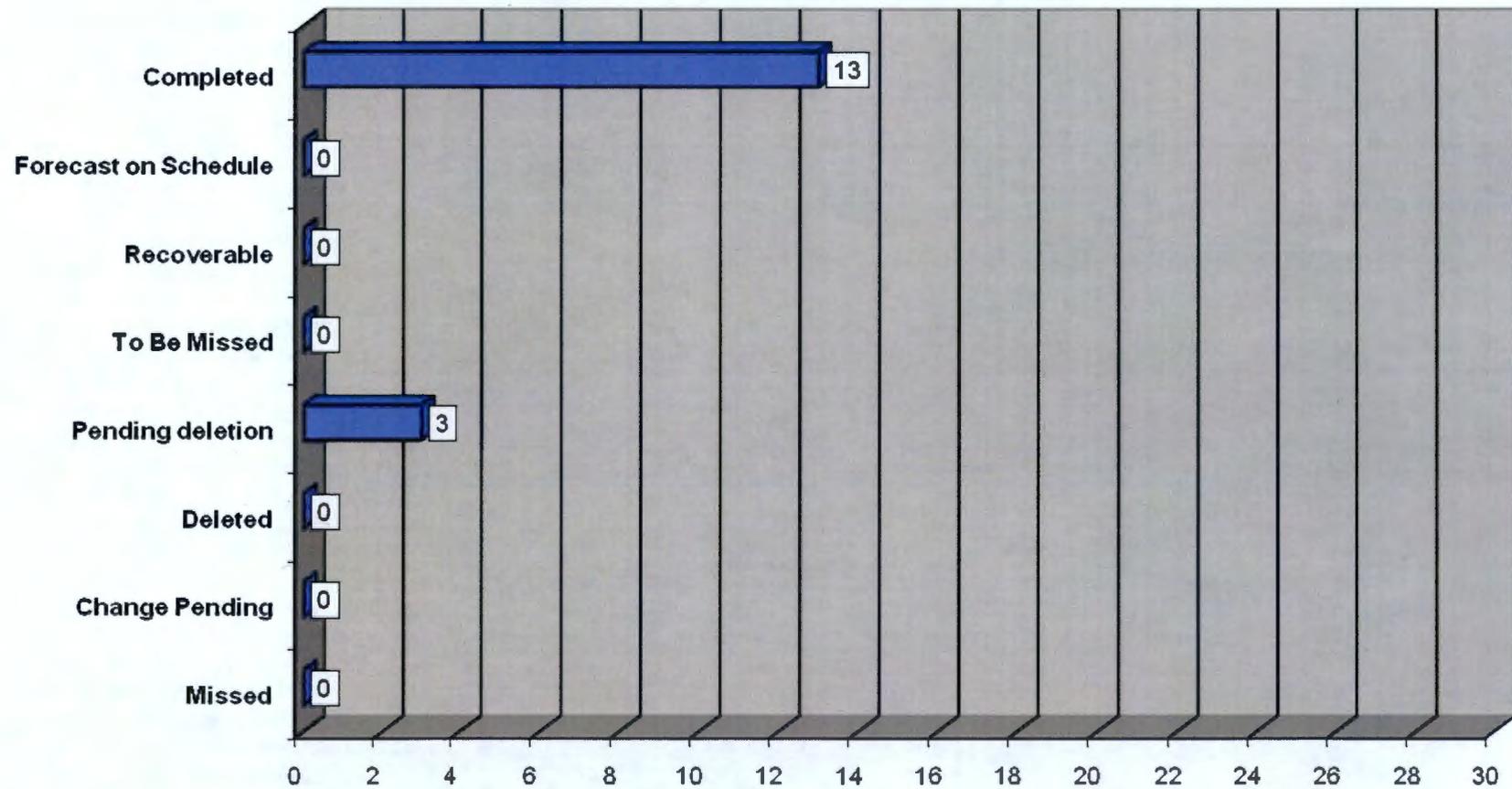
Description/Cause: due to 1) RA-WFE-Specific Site & Regulatory Interfaces, \$501k: less labor cost than planned and revised strategy for interfacing system specifications. 2) RA- WFE Application Viability, \$413k: efficiencies gained by performing test, plans, and procedures in parallel.

## 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> <b>07/31/10</b>  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	

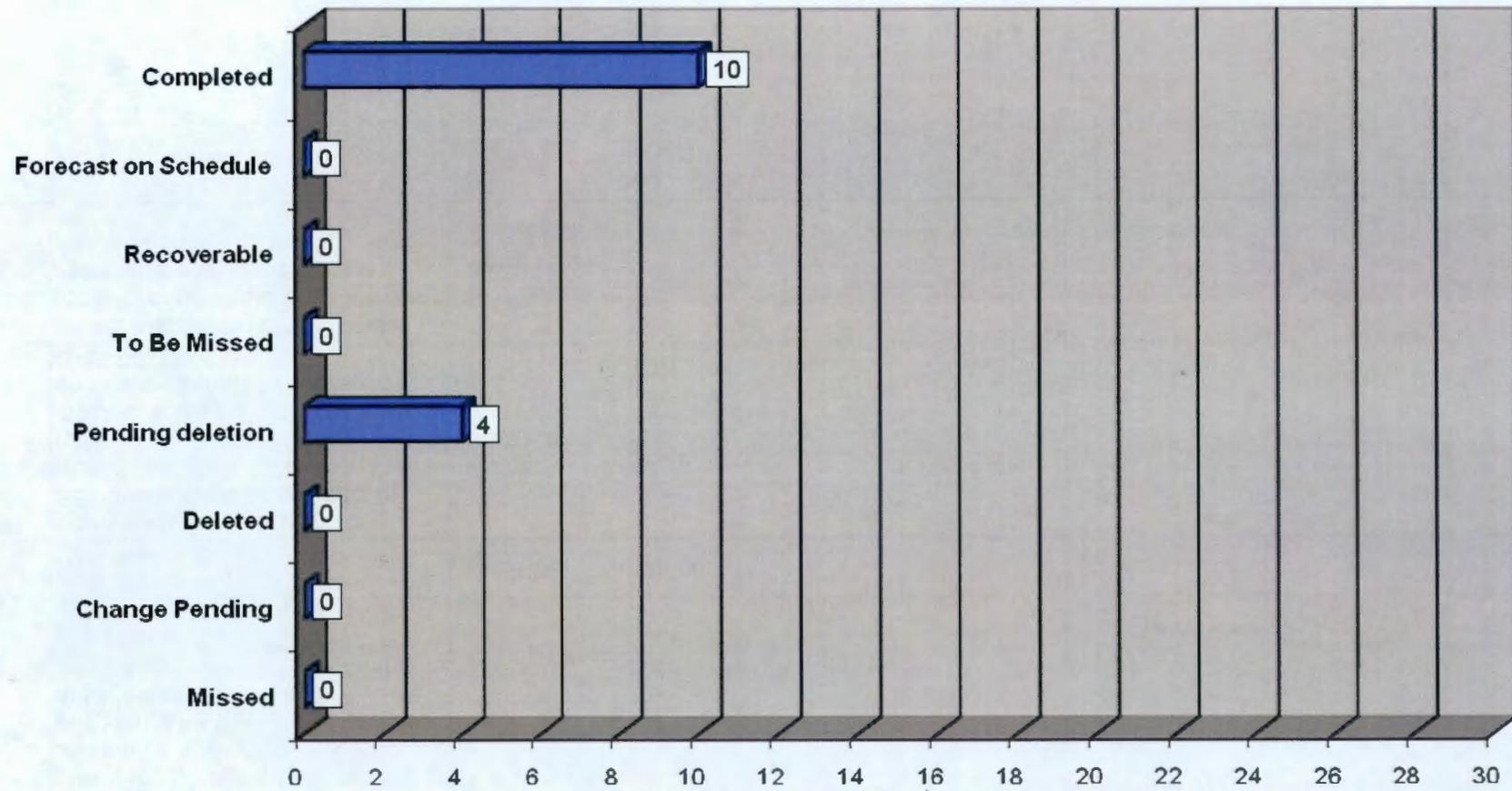
### Fiscal Year 2006 Tri-Party Agreement Milestone Status

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

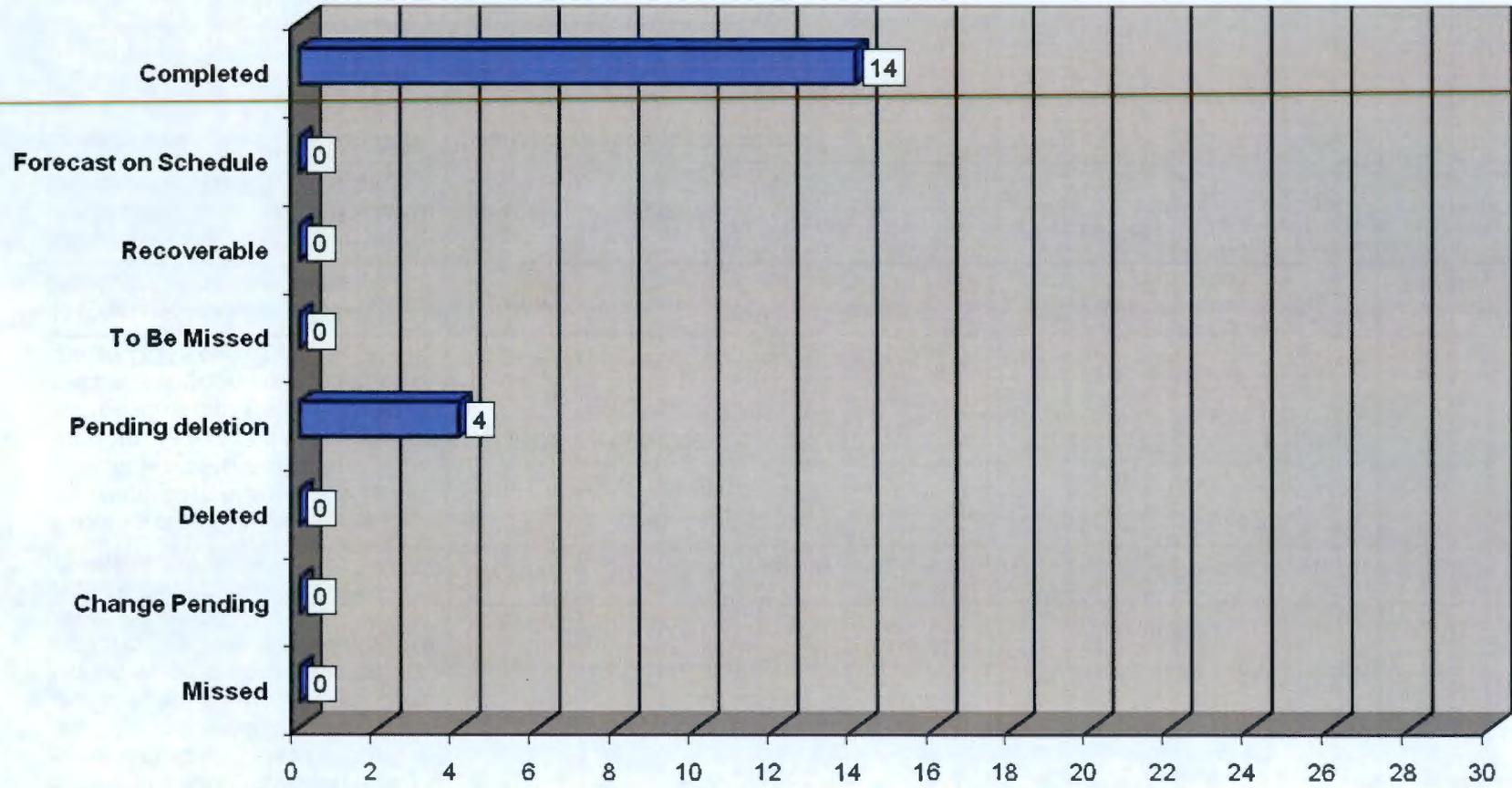
Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
M-045-05A	Complete Waste Retrieval from S-102.	3/31/07							X		
D-001-00-R32	DOE shall, on a quarterly basis, submit to Ecology a written 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-062-010	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								

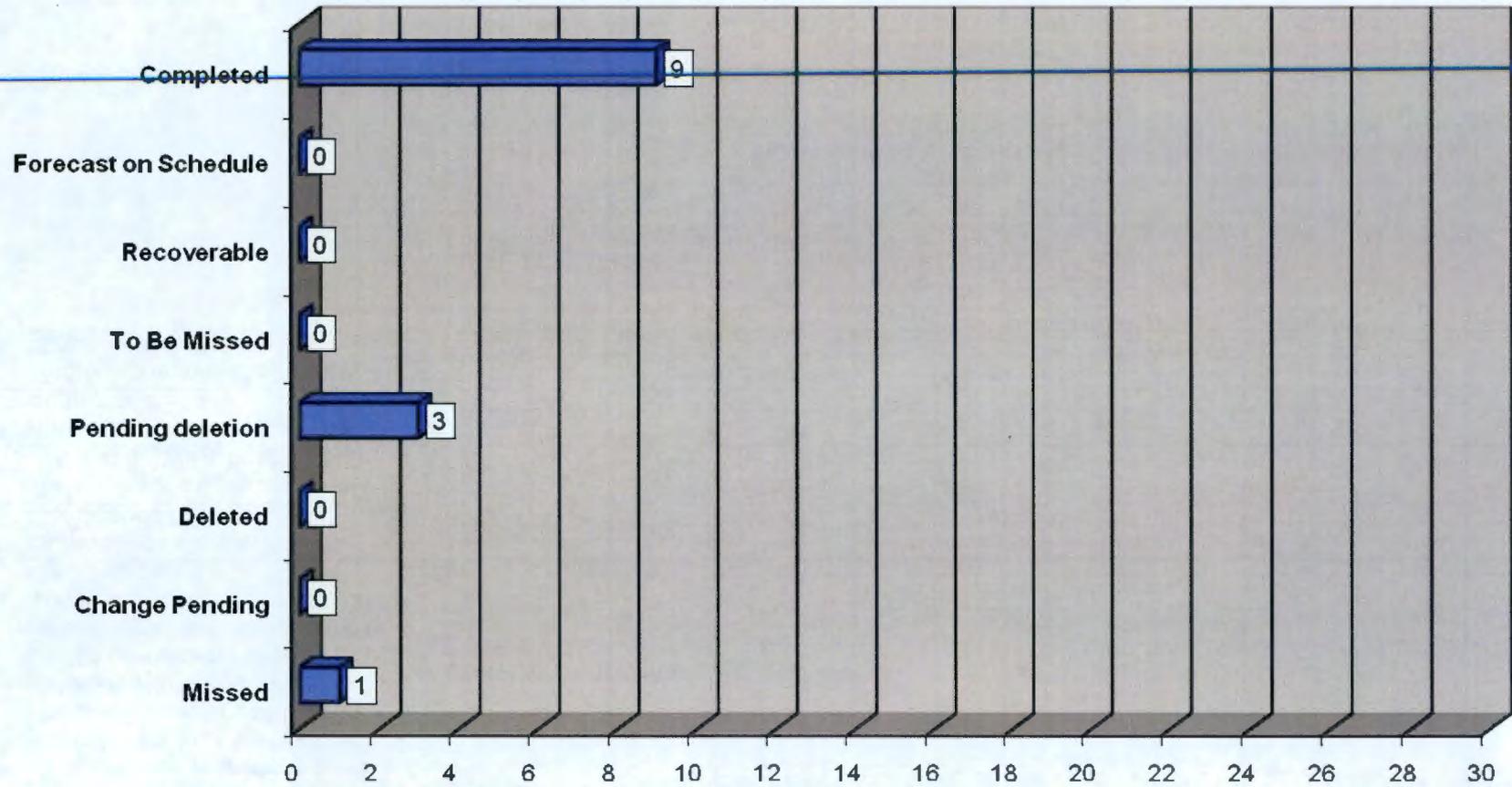
### Fiscal Year 2008 Tri-Party Agreement Milestone Status

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		
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								

### 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-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								

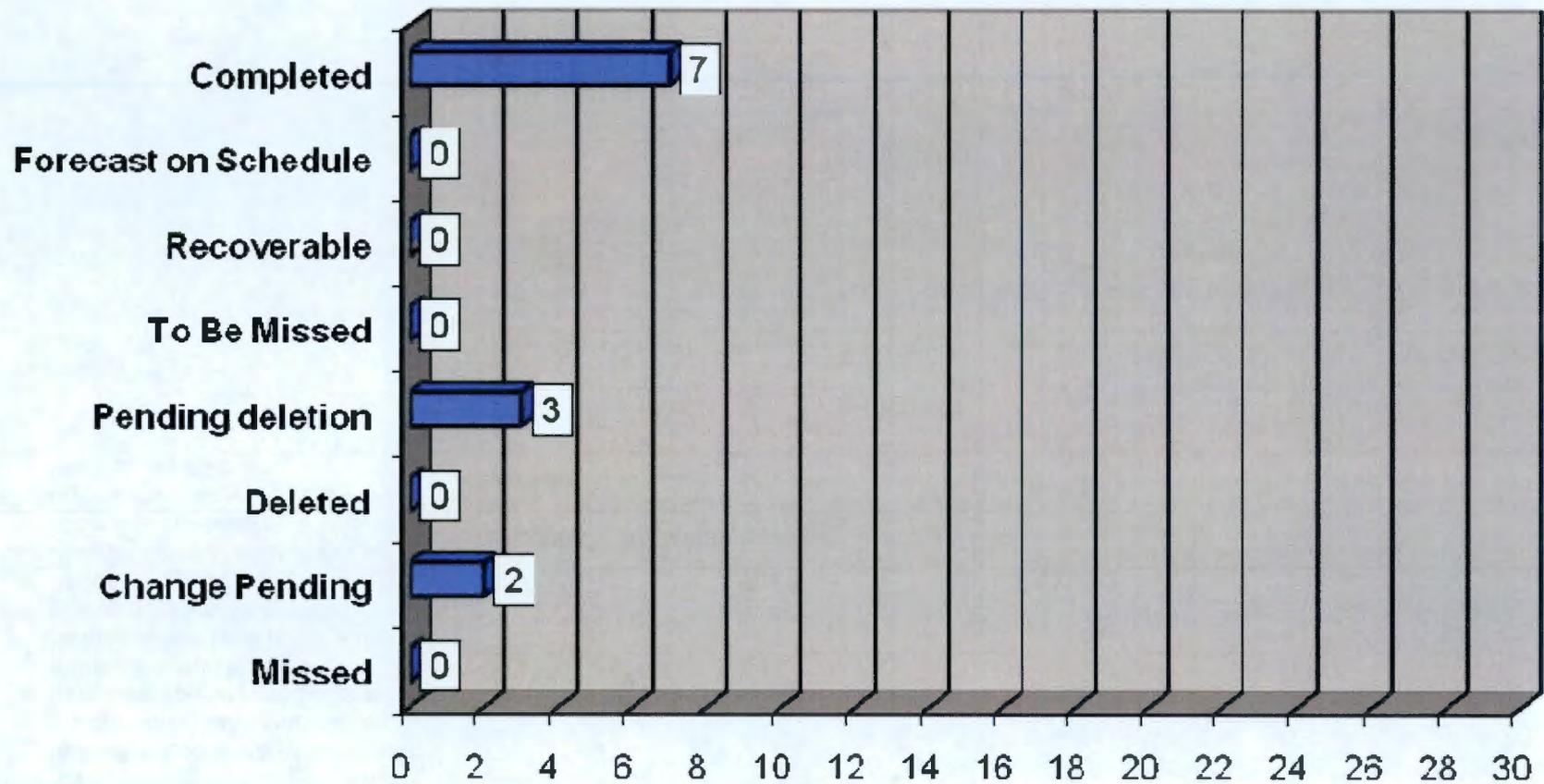
### Fiscal Year 2009 Tri-Party Agreement Milestone Status

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	07/29/10								
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	06/09/10								
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	07/26/10								
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.

**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 959 craft, 410 non-manual, and about 286 subcontractor personnel FTE equivalents working at the WTP construction site (all facilities). Overall project percent complete through June 2010 is 55%, design and engineering is 80% complete, and construction is 52% complete.

The overall WTP Project schedule variance (SV) in June was a negative (\$818K), the Cost Variance (CV) was a negative (\$2.7M). The negative SV came from Plant Equipment and Plant Material. The negative CV came from Engineering and Plant Material.

Following is the status through the end of July 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). All have now been closed except for the mixing uncertainty in COA 3. BNI is preparing a resubmittal of the PDSA Addendum that will incorporate the COA resolutions closed to date. ORP considers the integrated MAR/HPAV 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 Defense Nuclear Facilities Safety Board (DNFSB) recently scheduled a public meeting and hearing concerning safety-related aspects of the design and construction of the WTP. Starting in FY09, DOE made major changes to the WTP design philosophy and design, including the safety approach. The changes included reductions in the assumed radioactivity of the waste due to radioactive decay, and more realistic assumptions about the waste feed, as well as reducing the plant's operational complexity.

Technical issues to be discussed at the meeting include:

1. Changes in safety related design criteria resulting from modification of the material-at-risk (MAR),
2. Changes in design strategy to address hydrogen in pipes and ancillary vessels (HPAV),

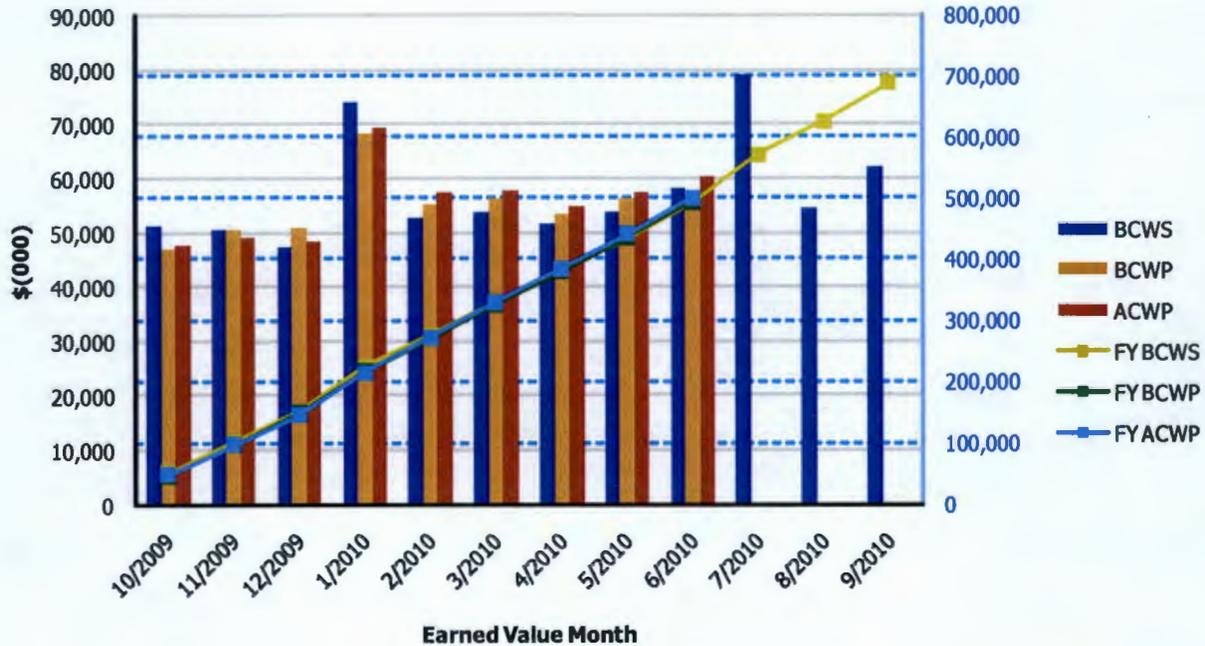
3. Criticality safety concerns and other safety-related risks for the pulse jet mixing system,
4. Reclassification of safety-related systems, structures, and components, and
5. Safety-related design aspects of new facilities or modifications of existing facilities needed to deliver HLW feed.

The meeting and hearing will take place October 7-8, 2010, in Richland, Washington.

### WTP – Fiscal Year To-Date Performance

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

Monthly EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2009	\$51,264	\$46,742	\$47,659	\$51,264	\$46,742	\$47,659	0.91	0.98
Nov 2009	\$50,479	\$50,256	\$48,883	\$101,743	\$96,998	\$96,542	0.95	1.00
Dec 2009	\$47,078	\$50,905	\$48,202	\$148,821	\$147,903	\$144,744	0.99	1.02
Jan 2010	\$74,085	\$68,098	\$69,303	\$222,906	\$216,001	\$214,047	0.97	1.01
Feb 2010	\$52,534	\$55,070	\$57,409	\$275,440	\$271,071	\$271,456	0.98	1.00
Mar 2010	\$53,617	\$56,053	\$57,679	\$329,057	\$327,124	\$329,135	0.99	0.99
Apr 2010	\$51,463	\$53,194	\$54,714	\$380,520	\$380,318	\$383,849	1.00	0.99
May 2010	\$53,809	\$56,024	\$57,113	\$434,329	\$436,342	\$440,962	1.00	0.99
Jun 2010	\$58,177	\$57,357	\$60,051	\$492,506	\$493,699	\$501,013	1.00	0.99
Jul 2010	\$78,838			\$571,344				
Aug 2010	\$54,528			\$625,872				
Sep 2010	\$62,156			\$688,028				
PTD	\$5,414,756	\$5,421,197	\$5,443,627	1.00	1.00			

### **Pretreatment (PT) Facility – July 2010 Accomplishments (June 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 52%, engineering/design is 80% complete, and construction is 32% complete.

Overall construction continues to perform well, especially in the area of concrete and steel installation. Construction installations for the month of July include: 232 cubic yards (CY) of concrete and 322 tons of structural steel.

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. Piping install rate improvements continue this month.

2984 ft of piping isometric drawings have been issued this month. Engineering issued structural steel drawings releasing 54 tons of ductwork for HVAC Flues as well as issuing 19 miscellaneous steel drawing revisions resulting in releases of 13 separate structural steel "holds. A contract was awarded for 2 commercial vessels. Material Requisitions were issued to purchase process reagent flush vessels, 2 Chilled Water Service Vessels, ultrafilters and one-micron filters for the waste Feed Evaporation Process(FEP) Treated LAW Evaporations Process (TLP), and Cesium Nitric Acid Recovery Process (CNP) systems

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 planning efforts

have been completed to 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. Discussions are ongoing with Ecology regarding the schedules for the analysis and fabrication of all these vessels. Discussions with Ecology have been finalized regarding the types of permit modifications required for the on-site vessel modifications, and their impacts on the schedule.

The results of the HPAV Independent Review team were issued with their final report on July 12, 2010. Bechtel National, Inc. (BNI) has developed a draft implementation and closure plan (ICP) to address the findings documented by the review. This plan is currently under parallel review by DOE/ORP and BNI management. The ICP will be issued prior to any future meeting with the DNFSB.

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 measurable 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.

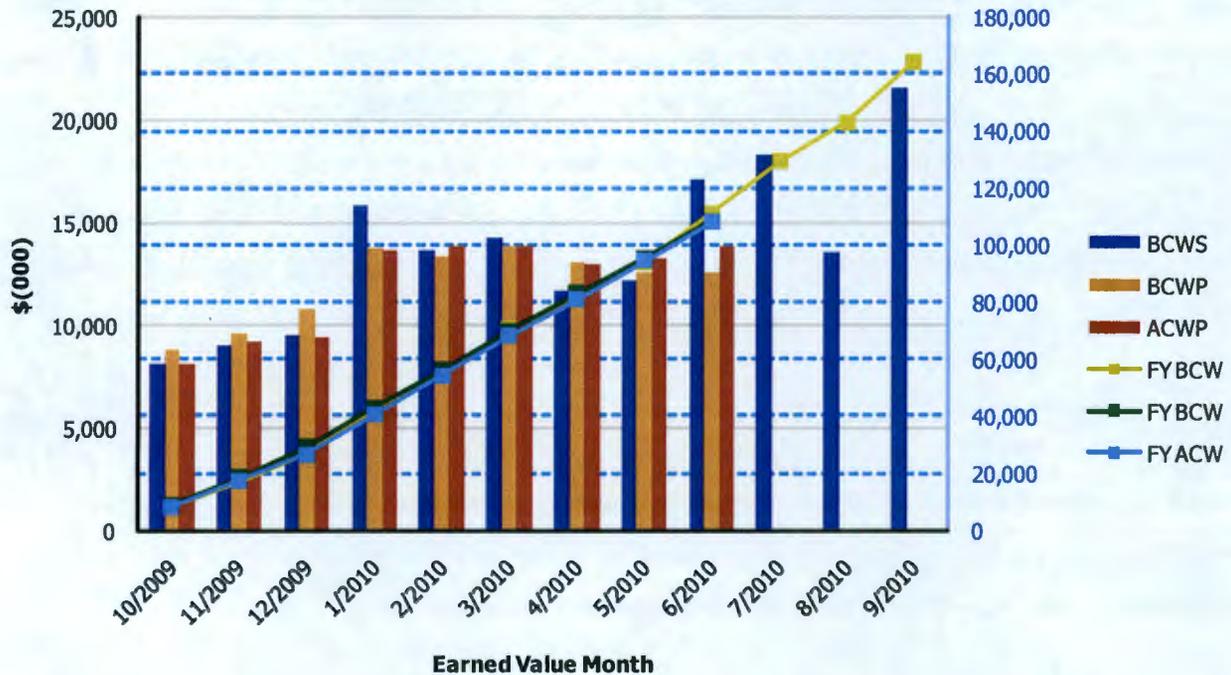
Resolution of major technical issues is inter-related and proper coordination of engineering efforts is needed to minimize the amount of document rework resulting from implementation of technical solutions. The full impact of implementation will not be known until the integrated plans for all currently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

Upcoming significant planned accomplishments for August include completion of the filter cave coupled analysis, fabrication of the Pulse Jet Ventilation Demisters, continued alignment and installation of hot cell crane girders, and placements of two slabs and five 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	\$17,107	\$12,571	\$13,829	0.73	0.91	\$111,115	\$108,201	\$108,049	0.97	1.00
Jul 2010	\$18,224					\$129,339				
Aug 2010	\$13,546					\$142,885				
Sep 2010	\$21,528					\$164,413				
PTD	\$1,010,718	\$1,019,926	\$991,239	1.01	1.03					

### High-Level Waste (HLW) Facility – July 2010 Accomplishments (June 10 EVM Data)

The HLW Facility will receive the separated high-level waste from the Pretreatment (PT) Facility. The concentrate is blended with glass formers and converted into molten glass in one of the two joule-heated HLW melters and then poured into cylindrical stainless steel canisters. The canisters are sealed and decontaminated prior to shipment to interim storage. HLW engineering design is 85% complete and construction is 28% complete. The facility is 52% complete overall.

The critical path schedule to complete design and build-out of the Filter Cave is being maintained through coordinated efforts by engineering, procurement, and construction staff. The Filter Cave's primary ventilation and 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. The vendor's HEPA Filter Housing seismic analysis began in March 2010; the reports are being written and will be completed in August. The Remote Operated Damper vendor has initiated its seismic analysis and will be completed at the end of August. BNI engineering completed the isometric drawings of the large-bore C5V duct in July and issued the designs to the subcontractor to begin buying and fabricating the ducting.

Late in June, WTP Engineering claimed completion of Contract Activity Milestone, *Complete HLW Heating, Ventilation, and Air Conditioning (HVAC) Design (Title II)*. Title II Design Complete is the definitive stage of system design and signifies that the engineering is technically mature, stable, and the project may proceed with the procurement of necessary equipment and components for installation. ORP reviewed the HVAC design deliverables and approved the contract milestone completion on July 28, 2010. The HLW HVAC system design was finalized two and a half months early and BNI earned \$4.428M of incentive fee for successfully completing this milestone. Other engineering activities in July included issuing 299 isometric drawings for pipe (representing nearly 3,900 lineal feet of piping) and reviewing 550 liner plate and structural steel fabrication drawings.

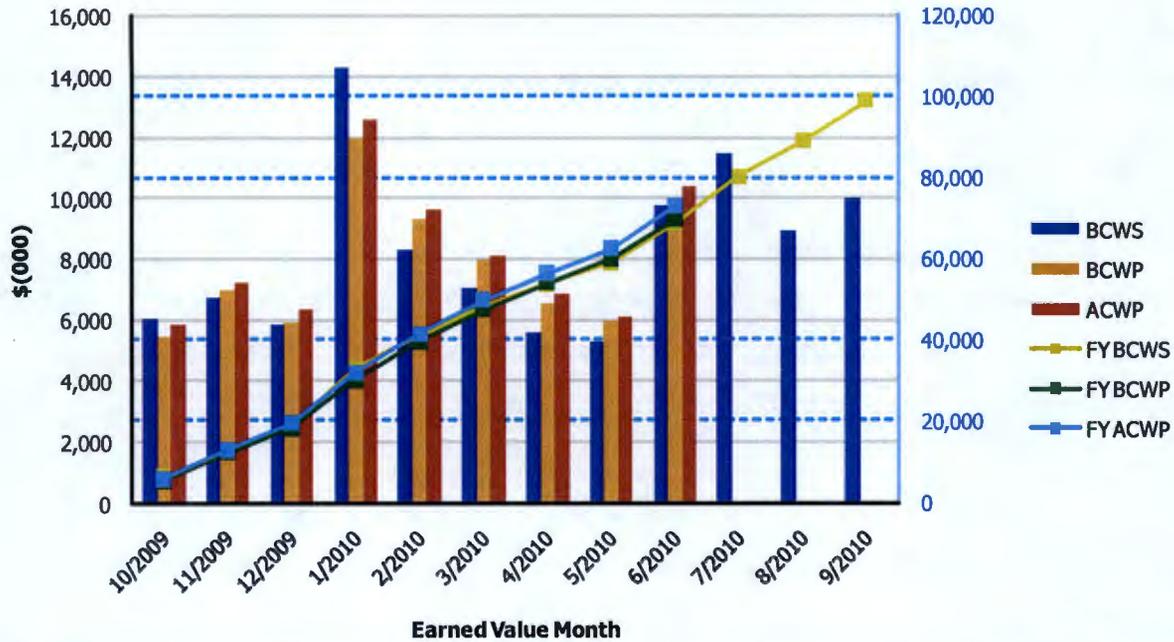
HLW construction has maintained its accelerated pace for seven consecutive months. For calendar year 2010, construction has averaged 5.7 placements per month. In July, construction forces completed four slabs and two walls for a total of 908 cubic-yards (CY) of concrete. The three remaining elevation +37' Annex area slabs (slabs 3003, 3004, and 3005) were completed in July. Construction will place one slab and four walls in August for a total of 895 CY of concrete.

On July 15, construction crews successfully completed the precision installation of the second C5 shield door in Melter Cave #2. This door is identical to the C5 shield door installed in Melter Cave #1 in April. These steel shield doors are eight inches thick, 15 feet tall, 18 feet wide, and weigh 50 tons. The C5 shield doors serve as part of the primary contamination boundary and provide access so melter can be replaced. The HLW melter is designed to have a five-year operating lifetime. Other July construction activities in the HLW Facility include:

- At the +37' elevation, iron workers installed slab rebar, structural steel, and decking while other crews continued the installation of embeds, edge forms, and railing.
- At the +14' elevation, crews continued to install rebar, embeds, and structural steel. Crews also continued installing forms, setting construction joints, installing embeds and pipe sleeves, equipment liners, and piping modules. Subcontractors continued sandblasting, and applying coatings.
- At the +0' elevation, crews continued working on multiple shield doors and their rails. Electricians continued installing cable tray supports. Subcontractors continued installing fire water piping at multiple locations, sandblasting, and coating structural steel.
- At the -21' elevation, crews continued installing steel members, rack piping and supports, cable tray and supports, and piping and ducting at various locations. Subcontractors continued to work on the grillage in the wet process 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	\$9,717	\$9,820	\$10,355	1.01	0.95	\$68,659	\$69,669	\$72,826	1.01	0.96
Jul 2010	\$11,450					\$80,109				
Aug 2010	\$8,926					\$89,035				
Sep 2010	\$9,981					\$99,016				
<b>PTD</b>	<b>\$661,638</b>	<b>\$661,752</b>	<b>\$650,068</b>	<b>1.00</b>	<b>1.02</b>					

**Low-Activity Waste (LAW) Facility – July 2010 Accomplishments (June 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 canisters that will be disposed on site in the Integrated Disposal Facility. Overall facility percent complete is 70%, engineering is 91%, and construction is 61%.

**Engineering**

Engineering is still on track to complete LAW Confirmed design by September 2011. Engineering issued 45 piping isometrics for construction totaling 595 linear feet of pipe. BNI engineering also completed the final equipment lists for mechanical handling systems. All mechanical handling equipment lists have now been placed in their final state as opposed to a "working" state.

**Procurement**

BNI completed the evaluation of the LAW Offgas exhauster bids. However, they will not meet the planned award date of August 5<sup>th</sup> due to the need for BNI to complete additional pre-award documentation. The exhauster award is forecast for August 31<sup>st</sup>. This schedule shift does not impact the receipt date of the equipment.

**Construction**

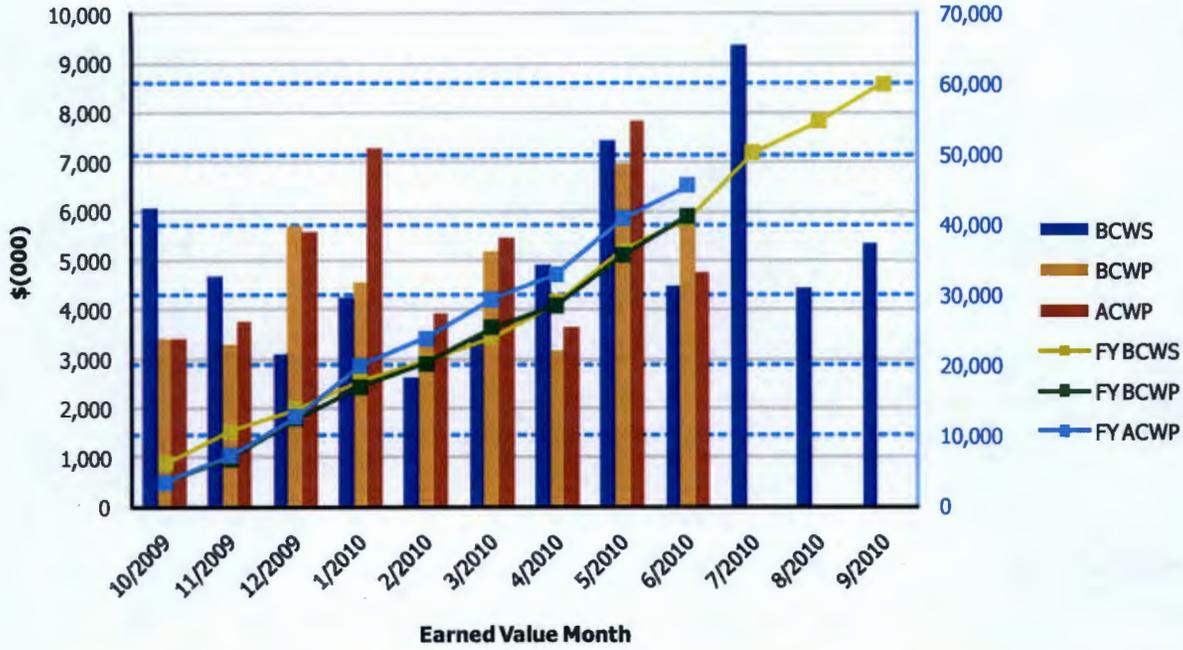
Construction continued to install the cooling panels on the walls of the pour caves. Installation of the cooling panels is a time intensive activity with some of the panels taking as much as a full day to install. Construction continued work on the normal activities such as installation of piping and hangers, conduit, cable tray, instrument enclosures and lighting fixtures, gypsum wallboard, and perimeter sealants.

**Commissioning**

BNI Plant Operations reviewed proposed changes to the LAW Architectural Floor Plans with the Civil, Structural and Architectural and the Environmental and Nuclear Safety groups to ensure the proposed changes do not impact the current LAW flooding scenarios. Additionally, DOE met with to review the concentration of CO<sub>2</sub> during normal pelletizer operation.

**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	\$4,472	\$5,749	\$4,758	1.29	1.21	\$40,831	\$41,316	\$45,550	1.01	0.91
Jul 2010	\$9,369					\$50,200				
Aug 2010	\$4,435					\$54,635				
Sep 2010	\$5,335					\$59,970				
<b>PTD</b>	<b>\$567,354</b>	<b>\$565,836</b>	<b>\$606,379</b>	<b>1.00</b>	<b>0.93</b>					

**Analytical Laboratory (LAB) – July 2010 Accomplishments (June 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 66%.

**Engineering**

In July BNI issued the last of the confirmed Piping and Instrumentation Diagrams for the LAB facility. In addition, BNI engineering completed the final equipment lists for mechanical handling systems. All mechanical handling equipment lists have now been placed in their final state as opposed to a "working" state. BNI engineering is still on schedule to complete confirmed design (incorporating vendor information) in November 2010

**Procurement**

The major procurement activity for the LAB is the autosampling system (ASX) equipment. The ASX hotcell receipt station and hotcell receipt and disposal station have been packaged for shipment. BNI plans to receive the hotcell receipt station and hotcell receipt and disposal station in August. Factory acceptance testing for the low activity waste receipt stations is scheduled to start in August.

**Construction**

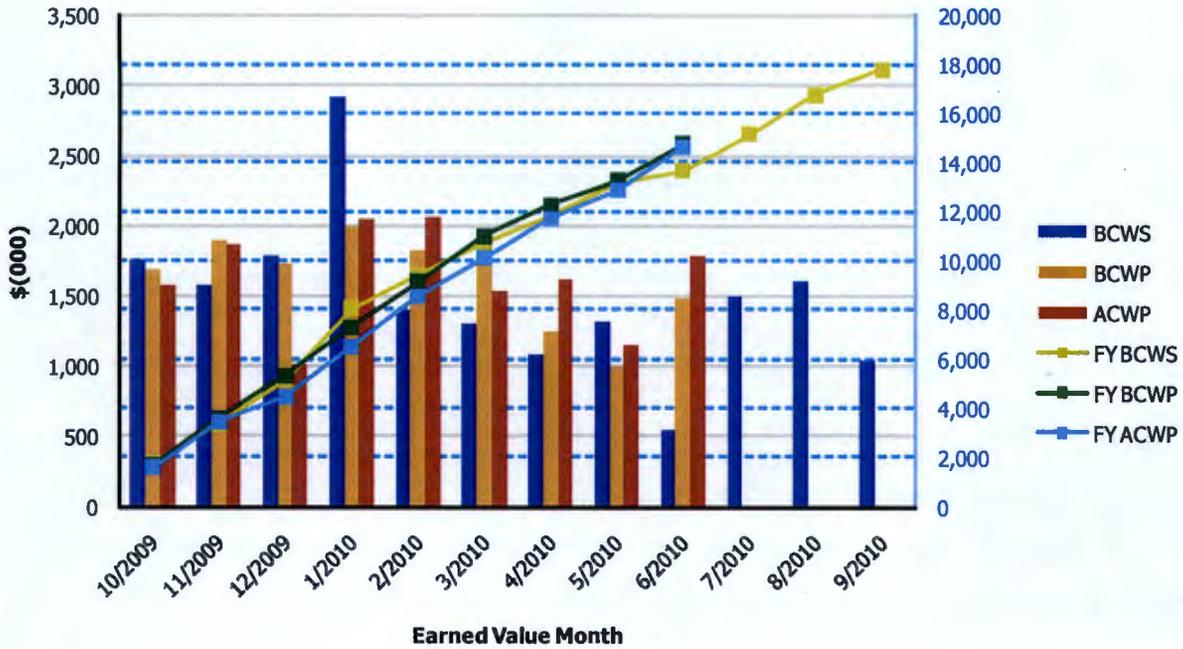
Major construction activities in the LAB during July were installation of C2, C3, and C5 ventilation duct, piping installation in the C2, C3, and C5 pits, and continued installation work on the waste drum bogie/transfer hatch. Construction also made progress on the ongoing activities such as installation of piping and hangers, conduit, gypsum wall board, lighting and electrical equipment, and steam piping.

**Commissioning**

BNI LAB Plant Operations reviewed the Commissioning Strategy Plan and provided comments to the Operations lead for resolution. BNI also continued work on several of the LAB administrative procedures such as Control of Equipment and Material and Laboratory Waste Management.

**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	\$541	\$1,481	\$1,786	2.74	0.83	\$13,653	\$14,736	\$14,637	1.08	1.01
Jul 2010	\$1,496					\$15,149				
Aug 2010	\$1,608					\$16,757				
Sep 2010	\$1,041					\$17,798				

PTD	\$148,748	\$148,244	\$160,511	1.00	0.92
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**Balance of Facilities (BOF) – July 2010 Accomplishments (June 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 58%.

**Engineering**

Engineering is focused on those activities necessary for the emergency diesel generator facility and completion of the Water Treatment Building and Steam plant. Major Emergency Diesel Generator facility design work will occur after approval of the Authorization Basis Amendment Request, which is expected in August, and receipt of vendor information for the EDG machines.

**Procurement**

The main engineering and procurement focus is on the Emergency Diesel Generator (EDG). In response to a request from the bidders, BNI extended the bid closing date to 8/31/2010. This due date extension does not impact the schedule for awarding the EDGs.

**Construction**

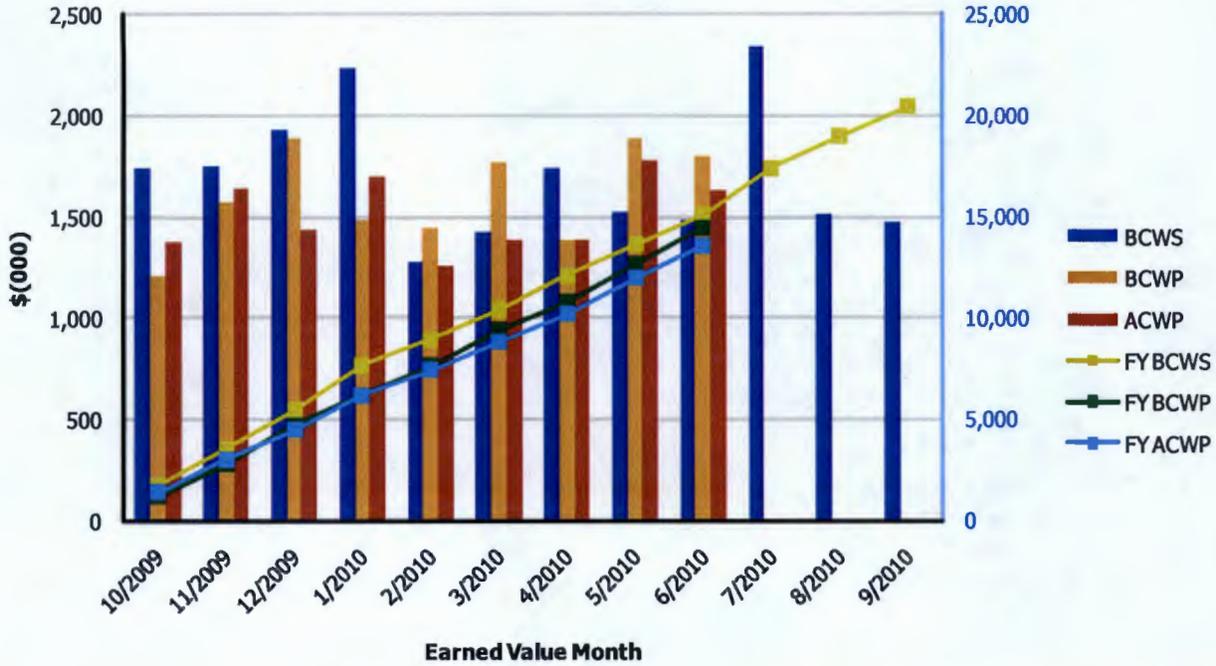
BNI continued to make progress on the anhydrous ammonia storage facility by installing formwork and rebar for electrical duct banks and piping for the Plant Service Air and Ammonia Reagent systems. BNI is also working on multiple construction activities in the Water Treatment Building to support completion and turnover to startup during the first quarter of calendar year 2011.

**Commissioning**

BNI is working on developing a cost effective solution for ashfall mitigation in the EDG facility. Several items have been discussed including mobile filtration units. BNI is also working to resolve the issue on the use of double block and bleed valves for high energy systems in the Steam Plant.

**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	\$1,481	\$1,800	\$1,630	1.22	1.10	\$15,077	\$14,432	\$13,568	0.96	1.06
Jul 2010	\$2,338					\$17,415				
Aug 2010	\$1,515					\$18,930				
Sep 2010	\$1,471					\$20,401				
<b>PTD</b>	<b>\$228,661</b>	<b>\$227,750</b>	<b>\$226,973</b>	<b>1.00</b>	<b>1.00</b>					

### Waste Treatment Plant Project - Percent Complete Status Through June 2010

(Dollars - Millions)	Overall Facility Percent Complete Allocated Dollars			Design/Engineering Unallocated Dollars			Construction Unallocated Dollars		
	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete
<b>Facilities</b>									
Low-Activity Waste	1,701.5	1,196.1	70%	211.2	192.8	91%	301.6	184.9	61%
Analytical Lab	635.6	324.1	51%	50.0	40.5	81%	85.9	57.0	66%
Balance of Facilities	991.8	536.7	54%	70.1	57.0	81%	220.0	127.5	58%
High-Level Waste	2,613.9	1,359.5	52%	322.0	272.7	85%	517.6	143.1	28%
Pretreatment	4,103.1	2,118.1	52%	604.5	481.4	80%	818.9	259.6	32%
Shared Services	incl. above	incl. above	incl. above	1,066.4	820.7	77%	1,344.9	922.9	69%
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>10,051.9</b>	<b>5,534.5</b>	<b>55%</b>	<b>2,324.2</b>	<b>1,865.1</b>	<b>80%</b>	<b>3,288.9</b>	<b>1,695.0</b>	<b>52%</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.