

**Office of River Protection
Tri-Party Agreement Milestone Review
Meeting Minutes
February 18, 2010**

Approval: Jane A. Hedges Date: 3/18/10
J.A. Hedges
Ecology IAMIT Representative

Approval: Woody Russell for Date: 3/24/10
S.L. Charboneau
DOE IAMIT Representative

Approval: D.A. Faulk Date: 3/22/2010
D.A. Faulk
EPA IAMIT Representative

Minutes Prepared by: T.W. Noland Date: 3/24/10
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
Brown, M.J.	Ecology	Niles, K.	OOE
Caggiano, J.A.*	Ecology	Noland, T.W.*	FFS
Cameron, C.E.	EPA	Noyes, D.L.*	ORP
Charboneau, S.L.	ORP	Olinger, S.J.	ORP
Cimon, S.*	ODE	Olsen, G.B.*	ORP
Dahl, S.L.*	Ecology	Pfaff, S.H.	ORP
Diediker, J.A.*	ORP	Piippo, R.E.*	MSA
Dixon, W.T.	WRPS	Price, J.B.*	Ecology
Eberlein, S.J.	WRPS	Reed, G.R.*	ORP
Einan, D.R.*	EPA	Russell, R.W.	ORP
Faulk, D.A.	EPA	Skinnarland, R.R.	Ecology
Furlong, P.T.	ORP	Swarens, C.L.*	ORP
Fredenburg, E.A.	Ecology	Trenchard, G.D.	ORP
Harp, B.J.	ORP	Trent, J.S.	ORP
Harris, S.	CTUIR	Uziemblo, N.H.*	Ecology
Hedges, J.*	Ecology	Vance, J.G.	FH
Hendrickson, M.L.*	Ecology	Vanni, J.*	Yakama
Hidden, F.B.	ORP	Wallace, J.J.	Ecology
Huffman, L.A.*	ORP	Whalen, C.L.*	Ecology
Jim, R.	Yakama	Wold, K	Ecology
Kemp, C.J.*	ORP	Administrative Record	
Knox, K.E.*	KCR		
Lober, R.W.*	ORP		
Long, J.D.*	ORP		

*Attendees

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**Office of River Protection
Tri-Party Agreement Quarterly Milestone Review
Meeting Minutes
February 18, 2010**

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

M-45-55, Submit to Ecology for Review and Approval as an Agreement Primary Document a Phase 1 RFI Report

ORP stated that it received a letter from Ecology yesterday identifying 12 revisions to the RCRA Facility Investigation (RFI) report, and ORP is working through those revisions. ORP is also revising Appendix G to update the U Farm work.

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

ORP reported that the TY barrier construction is under way. ORP briefed Ecology last week on the T barrier annual monitoring report, and the report has been released. Ecology reported that one public comment was received from the state of Oregon on the TY interim barrier during the public comment period. Ecology has prepared a response to the public comment, with input from ORP, and the response should be issued within the next week. ORP noted its appreciation to Ecology for assisting in getting the TY interim barrier work under way in a timely manner.

Other work that is under way in support of identified interim measures includes establishing the direct push station in the southeast area of S Farm. Direct pushes will be done there in an effort to identify surface geophysical exploration (SGE) anomalies that have been detected, which could be a possible area for a future barrier. Following that, work will proceed into BY, consistent with the prioritization agreed to with Ecology in 2008.

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

The master work plan has been revised and is in ORP concurrence for transmittal to Ecology. A draft copy of the master work plan has been provided to Ecology.

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 reported that it has prepared a letter transmitting approval of the RFI/CMS and SAP. Ecology added that given the sampling and analysis and the vapor issues that have been discussed, a meeting to discuss prioritization for the next set of pushes needs to be held. ORP noted that the C Farm area is very congested, and moving equipment in, in conjunction with

retrieval operations, is a challenge logistically. The next locations identified in the work plan are location H and I, and some of the ground penetrating radar (GPR) in K is being revisited. Direct push in location F went down 220 feet and ten samples were collected. Direct push in location L2 and R also went beyond 220 feet with multiple samples collected.

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

ORP noted that the status being reported on some of the milestones is still aligned with the current TPA. New milestones and dates are in the proposed consent decree, and those milestones are being worked to by the Tri-Parties.

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

ORP reported that retrieval on tank C-104 started on January 11, 2010, and there have been with several stops and starts due to the flow and pressure elements in portable valve box 138, which is part of the retrieval system. The starting point in tank C-104 was at 259,000 gallons and it currently is at 25 percent retrieval. Ecology inquired about the path forward regarding the vapor issue that was affecting the workers at C-104. ORP stated that there was a stop work order issued last week, and WRPS, ORP and the workers met with the local HAMTC union. The stop order was lifted last Friday (2/12/10). WRPS is investigating whether additional filtration beyond the HEPA filters and the moisture separator on the exhauster could be employed. There are no carbon filters on the exhauster. CHPRC noted that a meeting was held yesterday with HAMTC to discuss other engineering options to address vapor concerns and the results of that meeting will be provided to ORP and Ecology.

Significant Accomplishments

The analytical work on the C-108 heel sample has been completed. Tank C-108 has been retrieved to the limit of technology using modified sluicing, and a second technology will be needed to continue retrieval. Before a second technology is started, ORP wanted to get a heel sample. PNNL is doing a water leach study on the mineralogy from the C-108 heel sample. Ecology inquired about a tentative start date for retrieval of the C-108 heel. ORP responded that it is scheduled at the start of FY2011. Ecology requested a copy of the tank retrieval configuration, which ORP agreed to provide.

C-Farm Retrieval Summary Schedule Forecasts

ORP provided a draft handout illustrating the C-Farm retrieval life-cycle baseline, which was requested by Ecology. ORP will continue to present the document, and suggested forwarding any comments after a review of the document.

M-62-40, Tank Waste System Plan

SST Retrieval Sequence Document

The elements of the SST retrieval sequence document will be incorporated into proposed Milestone M-62-40, Tank Waste System Plan, when the consent decree is approved.

M-45-02O - Ecology and ORP signed an Agreement in Principle stating that the parties agree to hold this milestone in abeyance pending approval of the consent decree. Ecology requested establishing a series of meetings with ORP to discuss the proposed milestone M-62-40, Tank Waste System Plan.

Interim Stabilization Consent Decree

The current status for tank S-102 is that the supernatant liquid volume has been reduced to less than 5,000 gallons, which is below the criteria for interim stabilization. There are videos documenting the level in the tank, and S-102 will be declared interim stabilized. The exhauster will continue to operate, and there are no plans at this time to shut off the exhauster. Ecology asked if there will be videos taken in the future to confirm the level continues to stay under 5,000 gallons. ORP responded that if there is a need for confirmatory videos, they will be taken. ORP added that all entry points into the tank have been blocked to preclude liquid entering the tank from an outside source; however, it was noted that there have been problems in the past with intrusion into other tanks. Ecology stated that without a planned retrieval date for S-102, and just running the exhauster, does not give a clear path forward for the tank. ORP acknowledged there are no plans for active retrieval in the near future, and the best option is to continue to run the exhauster.

The Yakama tribal representative expressed concern regarding any contamination being released through the exhauster. ORP responded that all the exhausters have HEPA filters and are permitted both by the Department of Health with a radiological Notice of Construction (NOC), and by the Department of Ecology for toxics.

In Tank Characterization and Summary

Planned Actions Within the Next Six Months

Tank 241-C-108 off riser sampling should be corrected to read C-109. Ecology noted that tank C-110 is scheduled for off riser sampling in April 2010, and a meeting should be scheduled to discuss how the sampling will proceed. ORP will schedule a meeting with Ecology.

BBI Updates

There are 12 tank updates under way for the second quarter of fiscal year 2010. Four tank updates have been completed: AN-101, AZ-101, SY-102, and AY-102.

Data Quality Objectives (DQO)

ORP stated that Ecology had requested a discussion during this meeting about the process for documenting approval of the SST Component Closure DQO Revision 4 RPP-23403. The Ecology representative responsible for that DQO and SAP stated it had been approved. Ecology and ORP agreed that noting the approval today in the meeting minutes was sufficient documentation.

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 from the last quarterly report on this milestone.

242-A Evaporator Status

A table was provided for the 242-A Evaporator campaigns. There were no changes to report in the schedule.

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

There was no change in status from the last quarterly report on this milestone.

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

There was no change in status to report.

TPA Milestone Statistics

ORP reported that two milestones have been completed in FY 2010: 1) D-001-00R-42, quarterly report; 2) A-18 Interim, complete structural steel erection below elevation 56' in PT Facility. There was discussion regarding whether A-18 is properly stuated as complete on the table handout. The contractor has declared completion and submitted documentation to ORP. ORP has reviewed the documentation, but has not formally submitted anything to Ecology under the consent decree indicating the milestone is complete. It was noted that the process has not been defined for closure of a milestone under the consent decree. The parties agreed to revise the status of A-18 as on schedule until the completion process is defined. ORP noted that Milestone A-20 (not reflected on the table) to complete structural steel erection to the 14' elevation in HLW by 12/31/10 has also been declared complete by the contractor and is in ORP review. This milestone will not be considered complete until the process is defined.

On the FY 2010 milestone performance graph, the one milestone to be missed will be identified for Ecology.

FY 2009 ORP TPA Cost & Schedule Performance (CHG)

ORP reported on the cost and schedule performance through December 2009. The contract-to-date cost performance is positive at 1.06. A schedule recovery plan has been developed to recover the unfavorable contract-to-date schedule performance of 0.97. The goal is to be at a one or above. It is believed the schedule will be recovered by July 2010; however, it does not take into account the schedule delay starting in January 2010 with tank C-104. In December 2009, WRPS split base operations into two groups. It is now base operations projects and base operations routine.

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

Hanford Waste Treatment and Immobilization Plant (WTP) Project

ORP took an action to set up a meeting with Ecology to provide interface with the new BNI and ORP management. Ecology requested a WTP representative at the biweekly meetings. ORP will coordinate with DOE-RL to provide WTP support at the biweekly meetings.

ORP noted that the WTP performance to date chart showing planned work for the January and July 2010 time frame is significantly higher due to a longer reporting period of six weeks versus the usual four weeks.

ORP reported that a schedule of M3 actions (vessel mixing), which is due by tomorrow, will be transmitted to Ecology today. It is a 27-page, detailed schedule that is considered active, with continual updates and day-to-day communications. Ecology stated that following receipt of the schedule, the question would be how to proceed with all of the activities and complete them in a timely manner. Ecology noted some of the current critical path activities have been identified, such as vessel design and fabrication, and then asked if ORP will continue to identify what the life cycle for the critical path will be. ORP acknowledged the logic of Ecology's questions, and responded that when it is understood what design changes to the key tanks will be necessary through the testing process, the next critical path can be defined.

Ecology inquired about the issue the Defense Nuclear Facilities Safety Board (DNFSB) raised regarding modeling of structural steel components in LAW, PT and HLW, and if the schedule would recognize a tie-in with the resolution of the seismic issues. ORP responded that it is addressing the DNFSB's concerns through a formal response, and that issue is not part of the schedule. The current schedule is to identify, test and resolve design changes for M3. Ecology stated that beyond M3, issues such as seismic mitigation, criticality mitigation and mixing mitigation will need to be addressed for each of the vessels. Ecology suggested that the biweekly technical meeting would be the appropriate place to discuss that level of detail.

Ecology asked about receiving a list of assumptions with the schedule. ORP responded that the schedule will not be documented with all the assumption sets, but once Ecology has reviewed the schedule, a meeting could be scheduled to discuss assumptions.

Pretreatment Facility (PT)

PT construction performance is ahead of schedule, with the exception of the HVAC duct installation. There is a significant increase from last year (24,000 pounds of duct) to this year (200,000 pounds) in the amount of HVAC installation. The recovery plan is to recover the schedule by next spring or summer, with 150,000 pounds of HVAC installed this year. No other systems are affected by this schedule delay.

A decision regarding mitigation of solids formation in the Cesium Ion Exchange Process (CXP) system will be made by ORP at the end of February 2010. Bechtel has submitted two options to ORP. One is a heat and dilute option, and the other is an equipment option.

High Level Waste Facility (HLW)

HLW fiscal year-to-date schedule performance is close to on track. Cost performance has been challenged by building in the melter and filter caves and with plant material. BNI anticipates the schedule variance will be made up by the end of the year.

Concrete slab 2014 was placed in January 2010, two months early, which pushed the HLW critical path from civil construction to engineering and procurement for buildup of the filter cave. This includes the C5 ventilation system and the offgas components that go into the filter cave. Engineering of the equipment and design for the steel and pipe will run through the next six months. Once procurement, delivery and qualification of the materials and equipment is completed, the systems will be built out in the filter cave. Placement of slab 3027 over the top of the filter cave is scheduled for May 2012.

Twelve major shield doors are scheduled to be delivered and installed this year. The first shield door was delivered in December 2009, and will be installed next week.

Low-Activity Waste (LAW) Facility

Resolution of the technical issue for excessive heat retention in some of the melter pour cave equipment continues, and the subcontractor Energy Solutions is expected to propose solutions in March 2010. Ecology asked about any impact to the concept of getting a higher waste load into the glass and whether that would increase the temperature. ORP responded that most of the waste loading isn't dependent on a major increase in temperature. Ecology indicated that the parties should follow up on the question of higher waste loading.

Resolution of the secondary offgas system issue has been reached. The exhausters will be moved to the end of the stream, just upstream of the stacks. Ecology noted that due to the reconfiguration of the secondary offgas system, the emission estimates will need to be reviewed

since they affect the risk assessment.

Analytical Laboratory (LAB)

LAB Engineering is still on track to complete confirmation of design in November 2010. LAB construction complete is on track for December 31, 2012. The LAB Autosampling System (ASX) factory acceptance testing has been pushed out from January 2010 to the end of February or first of March 2010. The delay will not impact construction.

Balance of Facilities (BOF)

Work continues with excavating and recoating the connections and bolts associated with the fire service water piping

BNI continues to focus on the emergency diesel generators (EDG) and is working through the procurement process. One of the potential impacts could be the solution regarding the M3 issue and whether more air would be required. Ecology expressed concern about powering the melters and offgas system. ORP responded that the melters and offgas system would not be powered by the EDGs. The EDGs would primarily power the mixing of tanks in PT and the C5 exhaust systems. ORP added that BNI has committed to revisiting the EFRT M7 issue regarding the EDGs.

The cathodic protection system (CPS) is operating. ORP has not completed its validation of the CPS calculations.



Agenda
February 18, 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.

Topic	Leads	Time
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	9:10
M-62-40, Tank Waste System Plan	Chris Kemp / Michelle Mandis	9:20
Interim Stabilization Consent Decree	John Long / Nancy Uziemblo	9:30
In Tank Characterization and Summary	John Long / Michael Barnes	9:35
M-47-00, Tank Waste Treatment, Storage and Disposal Facilities	Ben Harp / Michelle Mandis	9:40
M-90-00, Complete Acquisition of Facilities for Interim Storage of IHLW and Storage/ Disposal of ILAW and M-20, Part B Permits	Ben Harp / Dan McDonald	9:45
M-62-00, Complete Pretreatment Processing and Vitrification of Tank Wastes	Ben Harp / Dan McDonald	9:50
BREAK		
TPA Milestone Statistics	Woody Russell / Dan McDonald / Jeff Lyon	10:15
FY 2009 ORP TPA Cost & Schedule Performance (CHG)	Janet Diediker / Dan McDonald / Jeff Lyon	10:25
BNI Cost & Schedule Performance for Immobilization Plant (WTP) Project	Wahed Abdul / Jeff Trent / Garth Reed / Dan McDonald	10:40

Tri-Party Agreement Major Milestone Management Review
February 18, 2010

<u>Name</u>	<u>Organization</u>	<u>Mail Stop</u>	<u>Phone</u>
Terry Noland	MSA		376-6574
Kathy Knox	Knox Court Reporting		946-5535
Bob Lopez	ORP		873-7249
KOB P/1020	MSA		373-3285
JOE CAGGIANO	ECOLOGY		372-7915
Sharon Simon	ODDG		(541) 963-0853
Chris Keys	ORP	H6-60	373-0649
Jan McInaw	Ecology		372-7988
Dave Einar	EPA		376-3883
Mike Barner	Ecology		372-7927
Michelle Hendrickson	ECY		2-7970
Jane Hedger	ECY		372-7905
Suzanne Dahl	ECY		372-7892
Cheryl Whalen	ECY		372-7972
Jean Danni	YN		509-945-1100
Nancy Uziembler	Ecology		372-7928
Jeff Luke	WRP		
Kristi Wood	Ecology		372-7985
John D. Long	ORP		376-5416
Belmar Noyes	ORP	H6-60	376-5166
Jane Dudiker	ORP	H6-60	372-3043
John Price	ECOLOGY		372-7921
WAHED ABDUL	ORP	H6-60	438-0455
Jeff Trent	ORP	H6-60	205-7116
Cecil Swarens	ORP	H6-60	376-1760
Garth Reed	ORP	H6-60	376-2625

Office of River Protection

**Tri-Party Agreement
Quarterly Milestone Review Meeting
February 18, 2010**

The logo for the Office of River Protection features the text "Office of River Protection" in a bold, black, sans-serif font. The text is centered within a blue, wavy, brush-stroke-like graphic that resembles a river or a stylized wave.

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

January 2010

Agenda

Office of River Protection
Tri-Party Agreement
Quarterly Milestone Review Meeting
Ecology Conference Rooms
February 18, 2010
9:00 a.m. – 11:30 a.m.

Page	Topic	Leads	Time
39	M-45, -50, -60 Single-Shell Tank Corrective Action	Bob Lober / Joe Caggiano	9:00
41	M-45-00, Complete Closure of All Single-Shell Tank Farms	Chris Kemp / Jeff Lyon	9:10
48	M-62-40, Tank Waste System Plan	Chris Kemp / Michelle Mandis	9:20
53	Interim Stabilization Consent Decree	John Long / Nancy Uziemblo	9:30
54	In Tank Characterization and Summary	John Long / Michael Barnes	9:35
55	M-47-00, Tank Waste Treatment, Storage and Disposal Facilities	Ben Harp / Michelle Mandis	9:40
57	M-90-00, Complete Acquisition of Facilities for Interim Storage of IHLW and Storage/ Disposal of ILAW and M-20, Part B Permits	Ben Harp / Dan McDonald	9:45
58	M-62-00, Complete Pretreatment Processing and Vitrification of Tank Wastes	Ben Harp / Dan McDonald	9:50
	BREAK		
3	TPA Milestone Statistics	Woody Russell / Dan McDonald / Jeff Lyon	10:15
25	FY 2009 ORP TPA Cost & Schedule Performance	Janet Diediker / Dan McDonald / Jeff Lyon	10:25
60	BNI Cost & Schedule Performance for Immobilization Plant (WTP) Project	Wahed Abdul / Jeff Trent / Garth Reed / Dan McDonald	10:40

TPA Milestone Statistics

(Including target milestones)

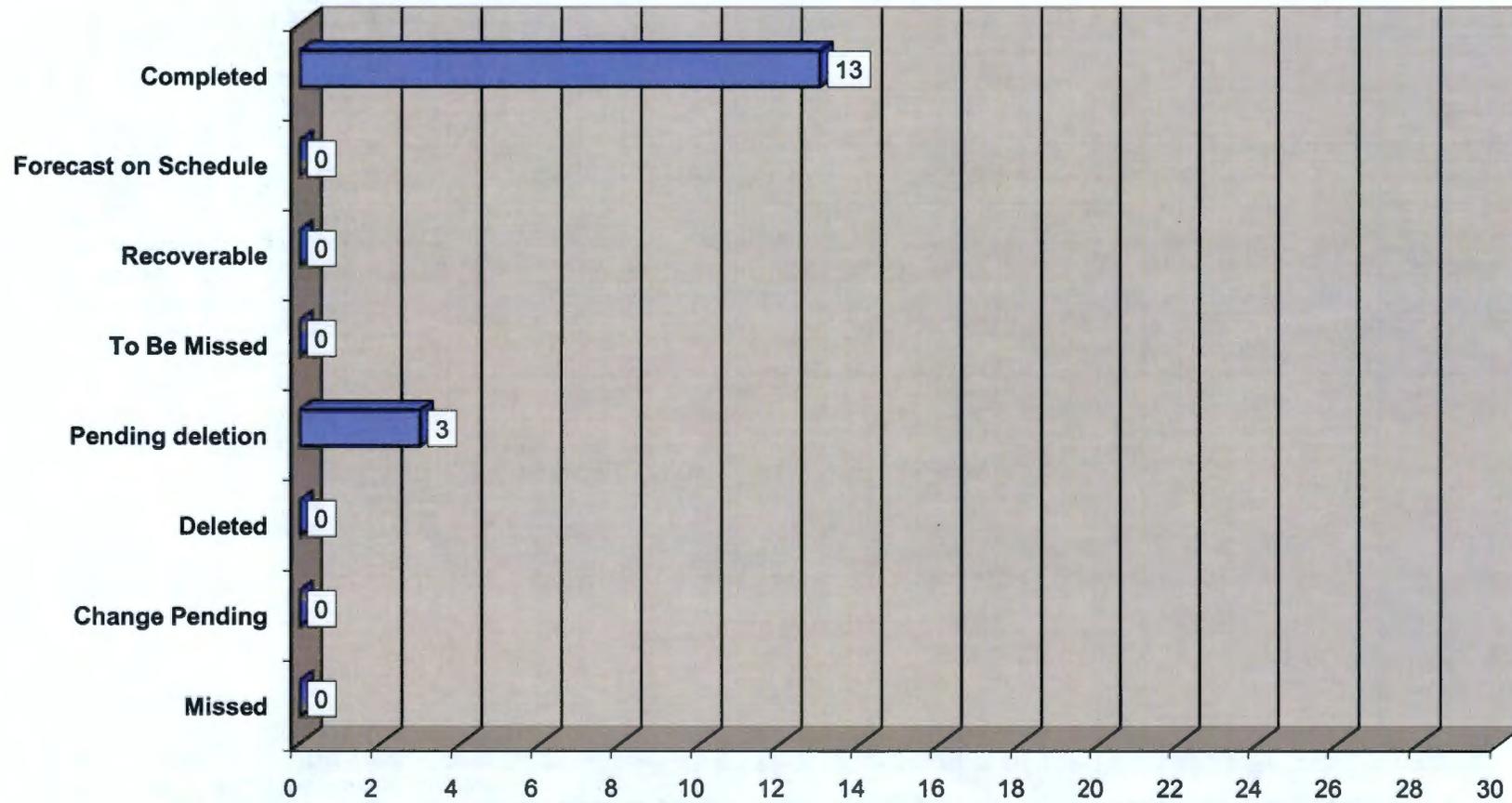
Milestone	Due Date	Total Active as of 10/01/09	Milestone Number	Due Date	Milestone Number	Due Date
M-42-00A , Provide Additional DST Capacity	TBD	1	M-42-00A	TBD		
M-45-00 , Complete Closure of all SST Farms	01/31/43	19	M-45-70 M-45-80 M-45-81 M-45-82 M-45-83 M-45-84 M-45-85 M-45-86	12/31/40 01/31/11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

TPA Milestone Statistics

(Including target milestones)

Milestone	Due Date	Total Active as of 10/01/09	Milestone Number	Due Date	Milestone Number	Due Date
Interim Stabilization Consent Decree	(D-001-00)	1	D-001-00			
RPP Consent Decree			A-1	12/31/22	A-17	12/31/19
			A-2 Interim	12/31/16	A-18 Interim	12/31/09
			A-3 Interim	06/30/18	A-19 Interim	12/31/14
WTP Construction and Startup: Appendix A	12/31/22	19	A-4 Interim	12/31/19	A-20 Interim	12/31/10
			A-5 Interim	12/31/12	A-21 Interim	12/31/12
			A-6 Interim	12/31/17		
			A-7 Interim	12/31/14		
			A-8 Interim	12/31/18		
			A-9 Interim	12/31/19		
			A-12 Interim	12/31/12		
			A-13 Interim	12/31/15		
			A-14 Interim	12/31/17		
			A-15 Interim	12/31/18		
			A-16 Interim	12/31/19		
Tank Waste Retrievals: Appendix B	9/30/22	4	B-1	09/30/14		
			B-2	09/30/14		
			B-3	12/31/17		
			B-4	09/30/22		
Total Active Milestones:		61				

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	

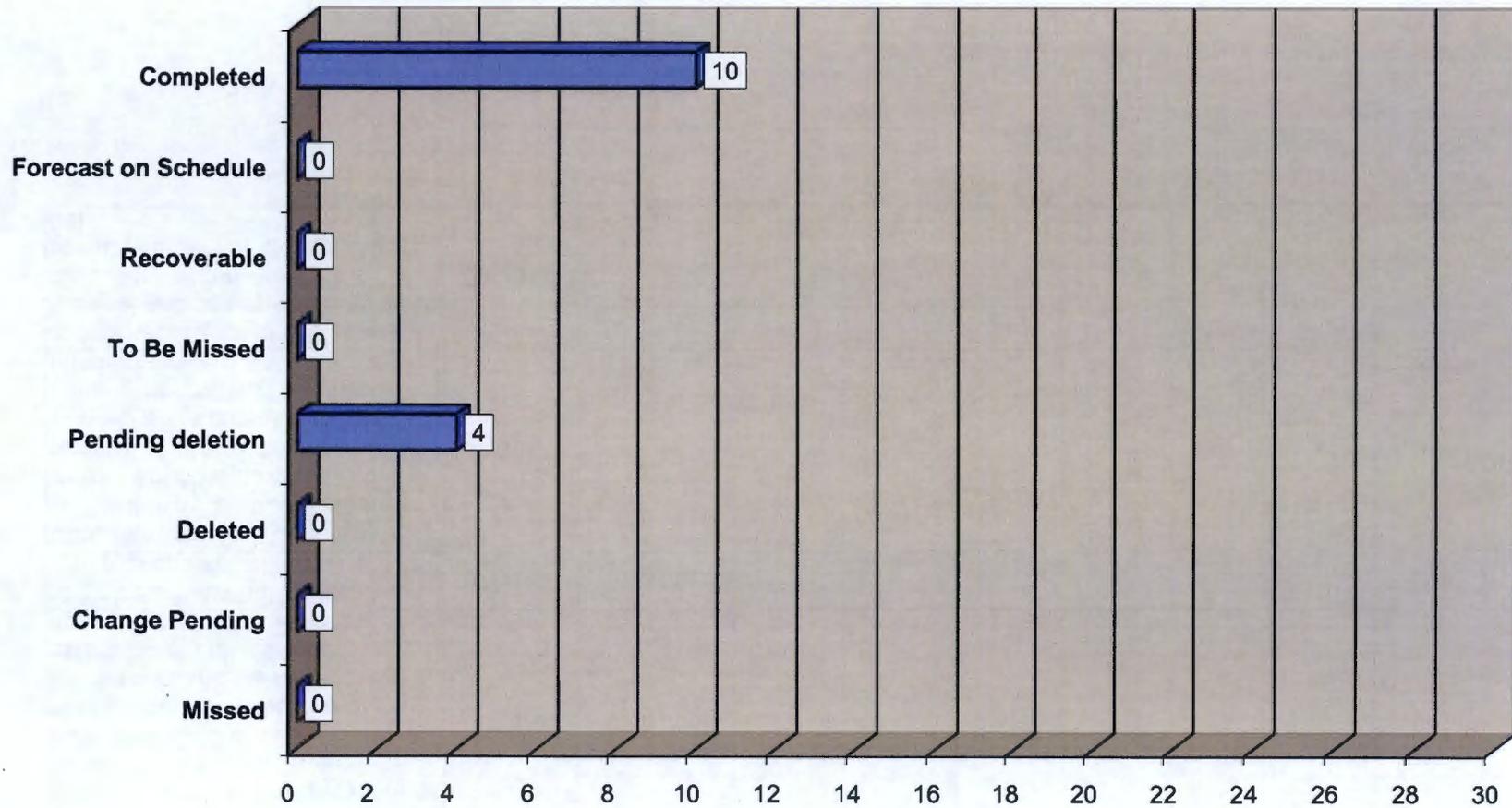
Fiscal Year 2006 Tri-Party Agreement Milestone Status

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								
M-045-05A	Complete Waste Retrieval from	3/31/07							X		

Fiscal Year 2007 Tri-Party Agreement Milestone Status

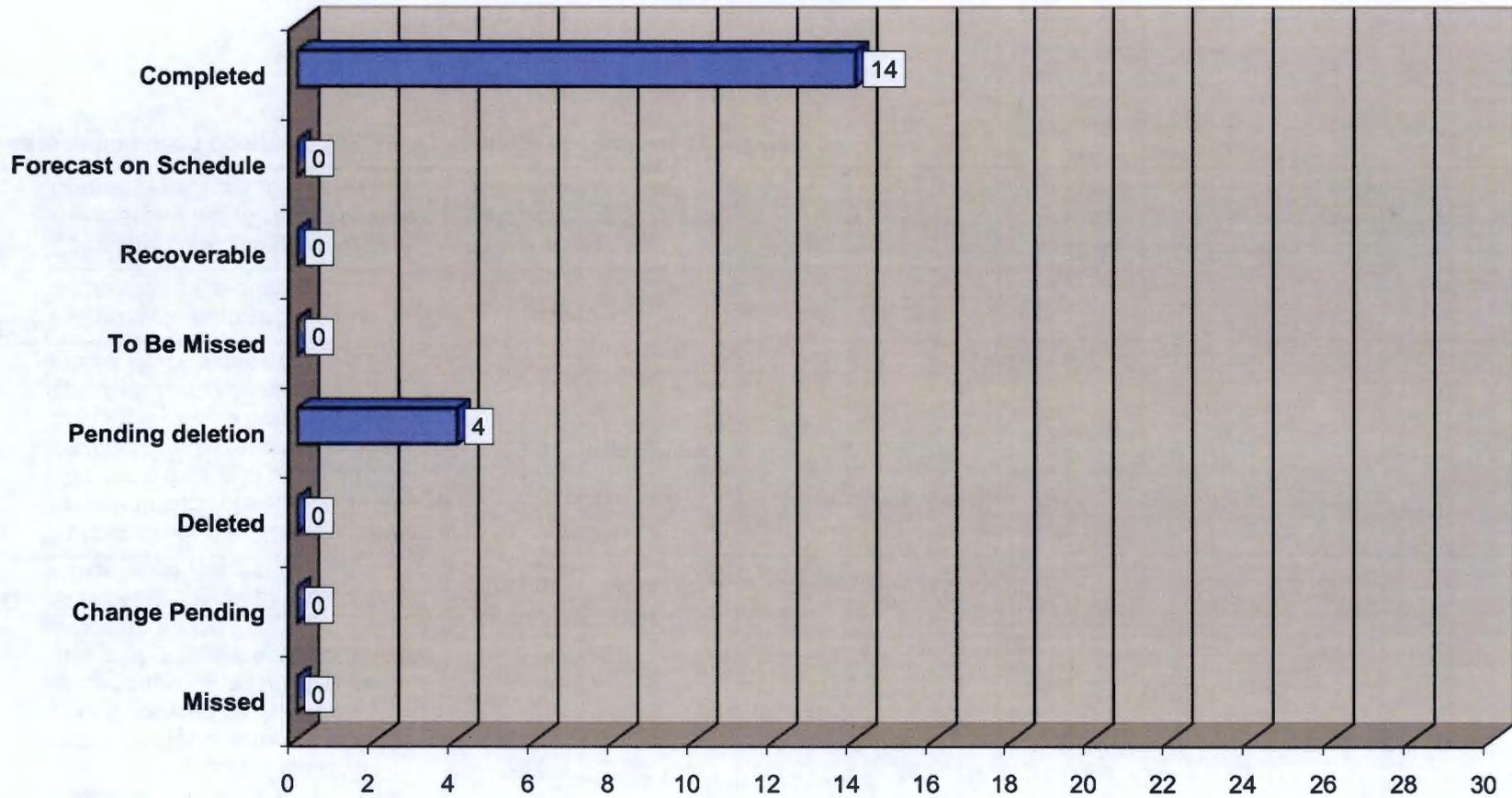
Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
	S-102.										
D-001-00-R32	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities 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								
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								

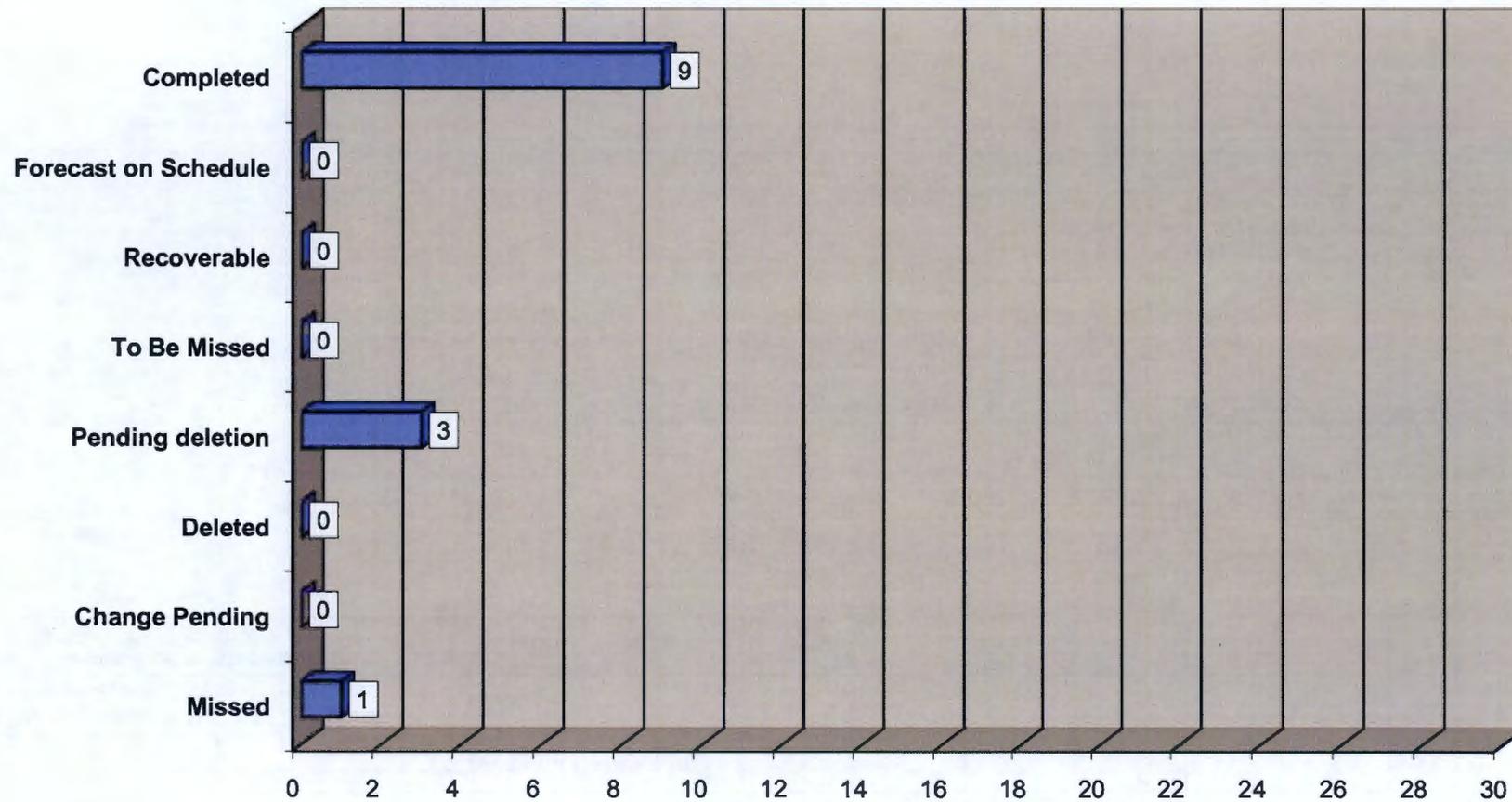
Fiscal Year 2008 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
M-045-00D	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								
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								

Fiscal Year 2008 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
M-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								
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								

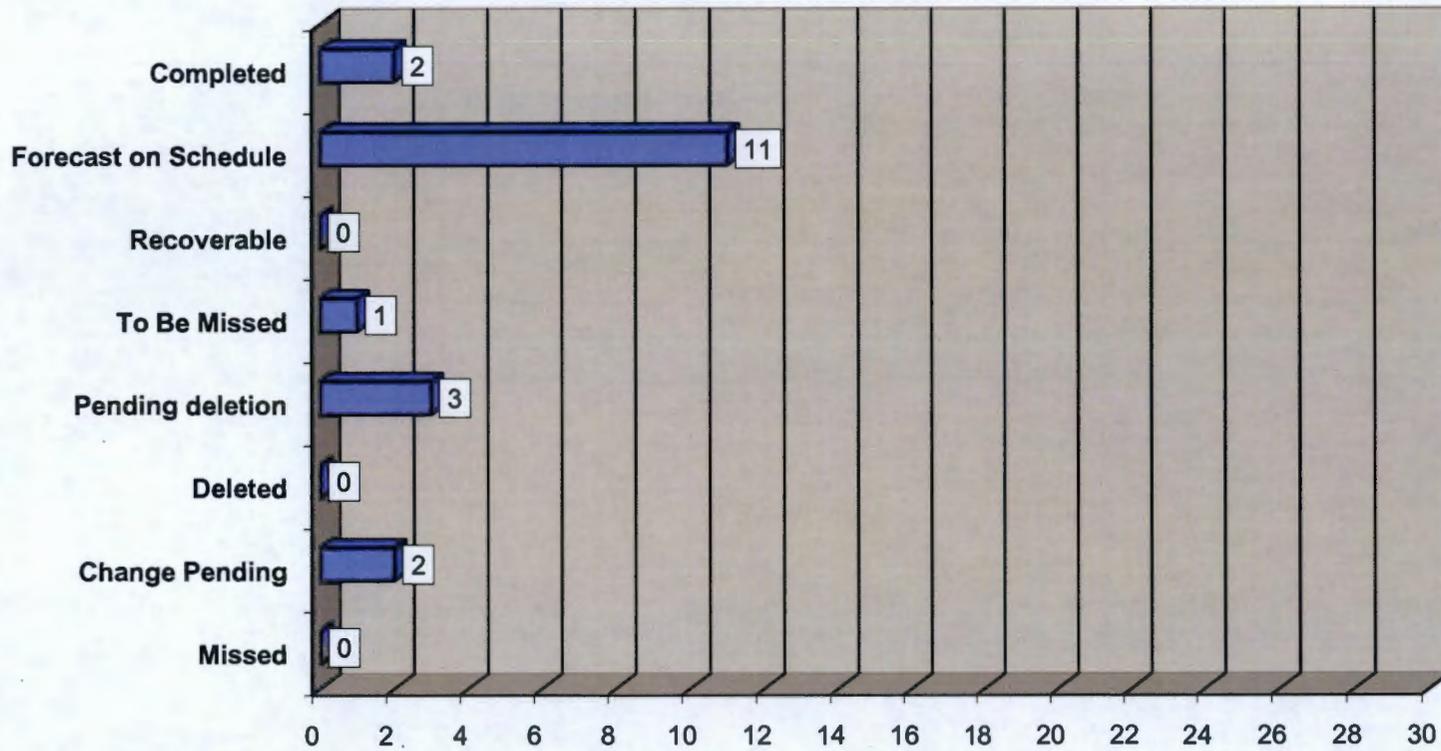
Fiscal Year 2009 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
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								
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	09/30/09						X	X		

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						
	additional SSTs										

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 (existing)	Quarterly Report	10/31/09	10/28/09								
D-001-00R-43 (existing)	Quarterly Report	01/31/09		X							
D-001-00R-44 (existing)	Quarterly Report	04/30/10		X							
D-001-00R-45 (existing)	Quarterly Report	07/31/10		X							
M-45-02O (existing)	Biennial Update to SST Waste Retrieval Sequence	03/01/10							X		
M-45-02O-A (existing)	New SST milestones within 60 days	04/30/10							X		
M-45-05-T08 (existing)	Initiate Tank Retrieval from 8 Additional SSTs	09/30/10							X		
M-45-56F (existing)	Ecology and DOE agree, at a minimum, to meet yearly (by July or as needed to support annual budgeting) for the specific purpose of assessing the adequacy of information, and the need for the establishment of additional agreement interim measures.	07/31/10		X							
M-62-01T (existing)	Submit Semi-Annual Project Compliance Report	01/31/10		X							
M-62-01U (existing)	Submit Semi-Annual Project Compliance Report	07/31/10		X							
M-47-06 (existing)	Complete Negotiation of Agreement Requirements-Treatment Complex	06/30/10									X
M-90-11 (existing)	Complete Canister Storage Facility Construction	08/31/10									X
M-45-90 (CR)	Complete Interim Barrier Demonstration for the T-106 Interim Barrier	09/30/10		X							
M-45-91 (CR)	Establish a panel and provide a report on SST Integrity Assurance	09/30/10		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						
	Review										
M-45-100 (CR)	Submit to Ecology as an Agreement Primary Document a Catch Tank "assumed leak" response plan.	60 days after milestone adoption		X							
M-45-101 (CR)	Submit report on all Catch Tanks and associated pipelines that are identified in SST System Part A	60 days after milestone adoption		X							
M-62-20 (CR)	Close all 28 issues identified in <i>Comprehensive Review of Hanford Waste Treatment Plant Flowsheet and Throughput Assessment</i> , issued March 2006.	06/30/10		X							
A-18 Interim (CD)	Complete Structural Steel Erection Below Elevation 56' in PT Facility	12/31/09	7/23/09								

CR – Change Request

CD – Consent Decree

Tank Farm Project Executive Summary

December Reporting

General

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

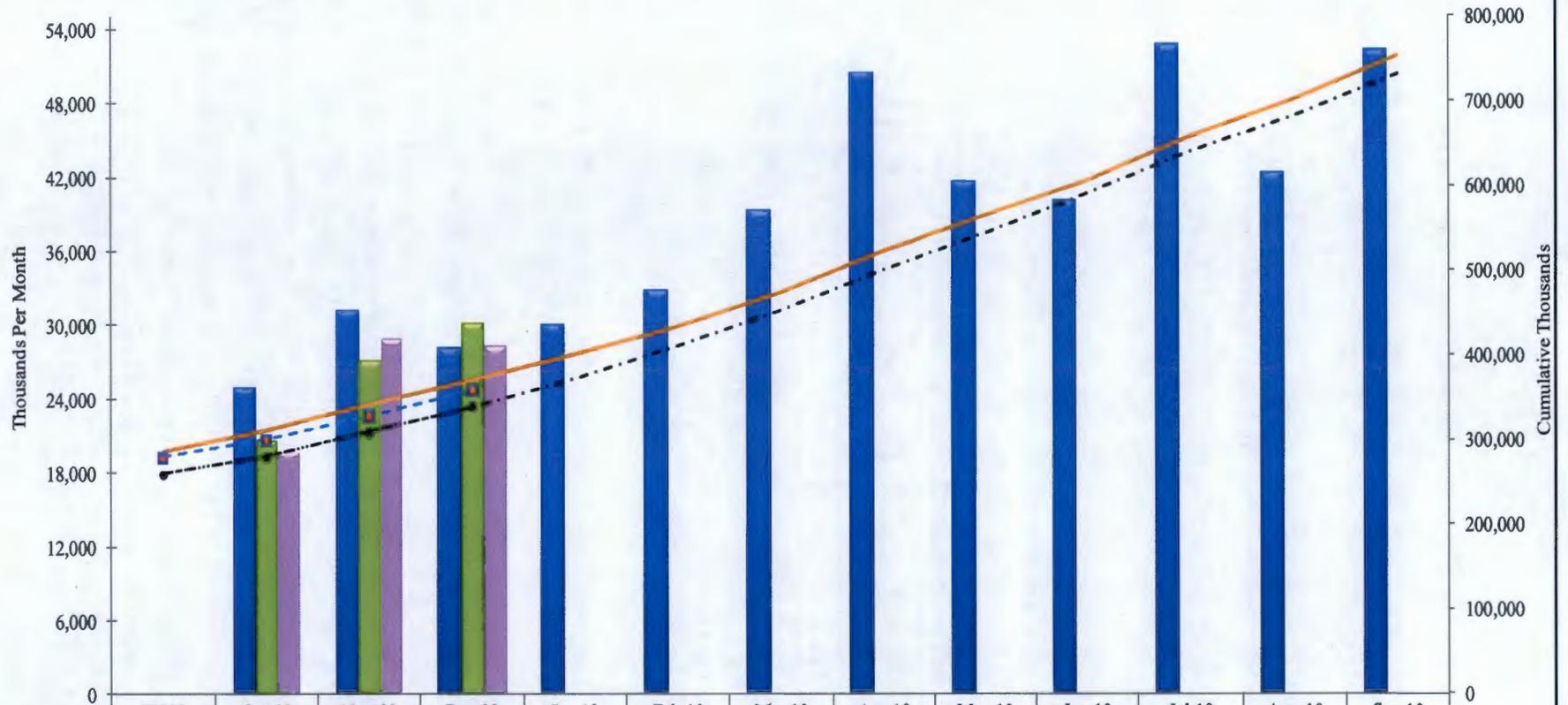
The following information is a summary of cumulative-to -date earned value performance.

WRPS December Project Performance - (\$k)								
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC
CM	28,227.3	30,260.1	28,292.2	2,032.8	1,967.9	1.07	1.07	
FYTD	84,486.4	82,047.6	77,033.7	(2,438.8)	5,013.9	0.97	1.07	466,630.1
CTD	371,226.1	359,322.3	338,701.2	(11,903.8)	20,621.1	0.97	1.06	2,068,112.7
Red shaded cells indicates any SPI/CPI less than .90; Green shaded cells indicate any SPI/CPI between .90 and .99; and Blue shaded indicates any SPI/CPI greater than or equal to 1.								

The TOC CTD cost performance index (CPI) through December is 1.06 with a schedule performance index (SPI) of 0.97. Current month (CM) performance was favorable with a CPI of 1.07 and a SPI of 1.07. FY10 CPI through December is 1.07 with a SPI of 0.97.

The unfavorable CTD schedule variance (SV) of (\$11,904k) is primarily driven by delays in C-Farm Retrieval, RA Field Projects/DST Life Extension, WTP Support, and Business Services. Schedule recovery action plans have been developed for the major contributors. These plans identify the actions necessary to recover schedule and execute to the FY2010 baseline plan. The SV recovery plans were updated this month and compared to the recovery targets established in November. TOC is currently ahead of the target SV recovery plan by \$984k. Recovery plan effectiveness is being reviewed with Department of Energy (DOE) Office of River Protection (ORP) on a biweekly basis. The TOC project completed a bottoms-up Estimate at Completion (EAC) review in December to evaluate the overall cost impact of the SV recovery plan implementation. The results of the review indicate that any additional costs associated with schedule recovery will be offset by efficiencies within each functional organization.

WRPS Cumulative-to-Date Performance (\$k)



	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	30,090	32,827	39,390	50,557	41,669	40,224	52,730	42,360	52,297
CM Perf (BCWP)		20,677	27,086	30,260									
CM Actuals (ACWP)		19,801	28,941	28,292									
CTD Plan (BCWS)	286,740	311,732	342,999	371,226	401,316	434,143	473,533	524,090	565,759	605,983	658,713	701,072	753,370
CTD Perf (BCWP)	281,299	301,976	329,062	359,322									
CTD Actuals (ACWP)	261,668	281,468	310,409	338,701									
CTD Actuals/FY ETC	261,668	281,468	310,409	338,701	373,283	410,850	453,151	501,012	545,023	590,565	640,319	682,237	731,206

CONTRACT-TO-DATE PERFORMANCE MEASUREMENT - 10/2008 - 12/2009**BY WORK BREAKDOWN STRUCTURE**

Dollars in Thousands

Cumulative Contract-To-Date

WBS	TITLE	Budgeted Cost			Actual Cost Work Performed	Variance			Budget at Completion (BAC)
		Work Scheduled	Work Performed			Schedule	SV%	Cost	
5.1	BASE OPERATIONS								
5.1.1	Base Operations	91,705.6	91,231.2	91,282.2	(474.4)	-0.5%	-51.0	-0.1%	400,311.6
5.1.2	DST Space Management	7,472.8	7,220.8	9,630.2	(252.0)	-3.4%	-2,409.4	-33.4%	41,411.4
5.1.3	TOC Facility Operations	29,259.7	28,713.3	26,867.3	(546.4)	-1.9%	1,846.0	6.4%	148,432.6
5.1.4	Tank Farm Upgrades	16,035.9	13,603.1	9,503.7	(2,432.8)	-15.2%	4,099.4	30.1%	111,479.3
5.1.5	Project Support	123,968.6	122,312.3	108,027.7	(1,656.3)	-1.3%	14,284.6	11.7%	520,441.9
	TOTAL	268,442.6	263,080.7	245,311.1	(5,361.9)	-2.0%	17,769.6	6.8%	1,222,076.8
5.2	RETRIEVE AND CLOSE SSTs								
5.2.1	Retrieval/Closure Program	38,165.3	37,622.0	34,889.1	(543.3)	-1.4%	2,732.9	7.3%	157,465.4
5.2.2	SST Retrieval East Area	29,650.3	25,192.4	32,597.4	(4,457.9)	-15.0%	-7,405.0	-29.4%	207,526.7
5.2.3	SST Retrieval West Area	815.9	1,063.9	800.1	248.0	30.4%	263.8	24.8%	3,488.8
5.2.4	Closure Program	1,741.8	1,741.7	1,436.4	(0.1)	0.0%	305.3	17.5%	8,964.9
5.2.5	SST Closure	918.9	918.9	429.8	0.0	0.0%	489.1	53.2%	23,181.9
	TOTAL	71,292.2	66,538.9	70,152.8	(4,753.3)	-6.7%	-3,613.9	-5.4%	400,627.7
5.3	WFD/TREATMENT PLNG/DST RETRIEVAL/CLOSURE								
5.3.1	WTP Feed Delivery Program	14,566.4	14,402.3	11,013.9	(164.1)	-1.1%	3,386.4	23.5%	92,720.3
5.3.2	Construct DST Retrieval Systems	4,028.6	3,968.8	3,848.3	(59.8)	-1.5%	120.5	3.0%	102,254.4
5.3.3	RA - Transfer System Mod Project	797.0	1,514.6	1,026.8	717.6	90.0%	487.8	32.2%	20,732.2
5.3.6	Immobilization Program	2,247.1	2,208.0	1,537.3	(39.1)	-1.7%	670.7	30.4%	55,065.2
5.3.7	WTP Operational Readiness	3,650.3	2,317.8	2,151.1	(1,332.5)	-36.5%	166.7	7.2%	17,280.4
5.3.8	East Area Waste Receiving Facility	490.8	222.5	51.9	(268.3)	-54.7%	170.6	76.7%	490.8
5.3.9	Tank Waste Pretreatment Project	708.2	565.4	559.6	(142.8)	-20.2%	5.8	1.0%	30,836.3
5.3.10	Secondary Waste Treatment/ETF	2,461.2	2,466.2	1,781.3	5.0	0.2%	684.9	27.8%	37,291.1
5.3.11	Next Generation Projects	2,061.6	1,849.2	1,104.2	(212.4)	-10.3%	745.0	40.3%	51,784.5
	TOTAL	31,011.2	29,514.8	23,074.4	(1,496.4)	-4.8%	6,440.4	21.8%	408,455.2
5.4	SUPPLEMENTAL TREATMENT								
5.4.1	Supplemental Treatment	480.1	187.8	162.8	(292.3)	-60.9%	25.0	13.3%	23,500.7
5.5									
5.5.2	Waste Treatment Facility	0.0	0.0	0.0	0.0	0.0%	0.0	0.0%	13,452.20
TFC TOTAL		371,226.1	359,322.3	338,701.2	(11,903.8)	-3.2%	20,621.1	5.7%	2,068,112.70

EARNED VALUE PERFORMANCE AT WBS LEVELS 3 and 4

The earned value performance reporting reflects the format, WBS reporting levels, and variance thresholds agreed to with the DOE-ORP. 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

5.01.01 - BASE OPERATIONS

WBS 5.01.01.01 - Base Operations Project Management

December 2009 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	295.6	295.6	326.7	0.0	0%	(31.2)	(11%)	1.00	0.90	
CTD	4,332.8	4,332.8	3,782.9	0.0	0%	549.9	13%	1.00	1.15	18,244.8

Schedule and Cost Variance Analysis

The favorable CTD CV of \$550k is reportable:

Description/Cause: due to 1) less staff than planned for ESH&Q, Project Controls and 2) ARRA pre-planning effort was accomplished with fewer resources than expected.

WBS 5.01.01.03 - TSR Administrative Controls

December 2009 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	147.1	196.8	350.9	49.7	34%	(154.1)	(78%)	1.34	0.56	
CTD	4,695.8	4,354.2	4,769.3	(341.6)	(7%)	(415.1)	(10%)	0.93	0.91	13,974.8

Schedule and Cost Variance Analysis

The unfavorable CM CV of (\$154k) is reportable:

Description/Cause: due to increased labor supporting the identification of a potential for AZ-102 grab samples to have significantly higher dose rates than originally expected. Extensive re-work of the work package was required and several mock-ups were held to determine how the higher dose rate samples will be obtained. Resources were also directed to prepare the work package for sampling AN-101 when C-104 is 50% retrieved in the event retrieval begins ahead of schedule.

WBS 5.01.01.05 - Tank Chemistry and Integrity

December 2009 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	754.1	1,264.6	724.7	510.4	68%	539.9	43%	1.68	1.74	
CTD	10,423.5	10,481.2	8,646.5	57.8	1%	1,834.8	18%	1.01	1.21	73,112.7

Schedule and Cost Variance Analysis

The favorable CM SV of \$510k is reportable:

Description/Cause: due to additional resources and priority given to complete the DST Video Assessments and receiving the Non-Destructive Examination (NDE) Equipment Storage and Support video camera system and UT spare parts.

The favorable CM CV of \$540k is reportable:

Description/Cause: due to 1) overstated performance of SST Integrity Structural Analysis and receiving a credit from an overstated contract accrual.

The favorable CTD CV of \$1,835k is reportable:

Description/Cause: due to 1) efficiencies in the AY-101 Corrosion Probe activity 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; 2) 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 which required less than normal wall cleaning.

WBS 5.01.01.07 - RA- Tank Farm Operations

December 2009 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	(677.3)	259.3	251.0	936.5	138%	8.2	3%	1.07	1.35	
CTD	7,219.8	7,025.5	6,694.1	(194.4)	13%	331.4	5%	0.86	1.05	20,609.7

Schedule and Cost Variance Analysis

The favorable CM SV of \$937k is reportable:

Description/Cause: due to an adjustment that was made to remove Obsolete SST Equipment Removal and SST Systems Upgrades from WBS as a result of implementing BCR RPP-10-026.

5.01.02 - DST SPACE MANAGEMENT**December 2009 (\$k)**

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	588.0	425.7	740.8	(162.3)	(28%)	(315.1)	(74%)	0.72	0.57	
CTD	7,472.8	7,220.8	9,630.2	(252.0)	(3%)	(2,409.3)	(33%)	0.97	0.75	41,411.4

Schedule and Cost Variance Analysis

The unfavorable CM SV (\$163k) is reportable:

Description/Cause: due to 1) completing the raw water system upgrades four (4) weeks ahead of schedule.

Condenser room decontamination activities limited engineering access to the majority of the equipment for spare parts walk downs. Additionally, the PB-1 Pump Refurbishment activity was deferred from early FY10 to late FY10.

The unfavorable CM CV (\$315k) is reportable:

Description/Cause: due to 1) unplanned costs associated with the upgrade of the raw water service building and electrical compressors.

The unfavorable CTD CV (\$2,409k) is reportable:

Description/Cause: due to 1) unplanned maintenance costs associated with the FY09 decontamination of the condenser room, repair of the condenser room secondary containment special protective coatings, removal of existing electric compressors and prep work for installation of the new electric compressors and equipment repairs necessary to support Campaign 09-01/09-02; and the extended duration of Campaigns 09-01/09-02; 2) additional overtime needed to investigate a leak on Nozzle L; evaluate drain seal assemblies; issues with valve positioning in AW-06A; develop of work packages to perform leak checks; and monitoring by Industrial Hygiene Technicians (IHT) for dose reconstruction.

5.01.03 – TOC FACILITY OPERATIONS**December 2009 (\$k)**

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	2,824.8	2,324.2	2,501.2	(500.5)	(18%)	(177.0)	(7%)	0.83	0.94	
CTD	29,259.7	28,713.3	26,867.3	(546.4)	(2%)	1,846.0	6%	0.98	1.07	148,432.6

Schedule and Cost Variance Analysis

The unfavorable CM SV (\$501k) is reportable:

Description/Cause: due to the distribution of planned work for the 222-S Roof Replacement does not reflect how the work is being performed.

5.01.04 – TANK FARM UPGRADES**December 2009 (\$k)**

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	2,002.2	1,785.5	1,584.8	(216.7)	(11%)	200.7	13%	2.11	1.06	
CTD	16,035.9	13,603.1	9,503.7	(2,432.8)	(15%)	4,099.5	30%	0.85	1.43	111,479.3

Schedule and Cost Variance Analysis

The unfavorable CM SV of (\$217k) of which (\$177k) is RA is reportable:

Description/Cause: due to 1) deferment of RA- Refurbish ENRAFs until later in the fiscal year.

The favorable CM CV of \$200k of which \$149k is RA is reportable:

Description/Cause: due to RA- Drawing Reconstitution, \$1,253k; lower cost for ROS staff as a result of a lower field rate than planned and efficiencies gained through tank farm walk downs.

The unfavorable CTD SV of (\$2,433k) of which (\$1,914k) is RA is reportable:

Description/Cause: due to 1): an aggressive Cathodic Protection Systems Upgrades schedule. 2) RA- Refurbish ENRAFs deferment of work scope to later in fiscal year; 3) field activities taking longer on removal of obsolete equipment due to expanded scope and the deferment of field activities until engineering activities are complete.

The favorable CTD CV of \$4,100k of which \$3,550k is RA is reportable:

Description/Cause: due to 1) the Vent Reliability Study completing significantly under budget because it is determined through technical evaluations that the AN Exhauster Evaluation bounds all the HVAC systems and resolving the 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; 2) labor support for the RA- Drawing Reconstitution is less resulting in a lower field rate than planned and efficiencies gained through tank farm walk downs; 3) efficiencies gained by consolidating task to obtain baseline field information and using existing engineering documents for electrical upgrades. In addition, work scope was advanced that did not require engineering staff which caused additional savings.

5.01.05 - PROJECT SUPPORT**WBS 5.01.05.01 - Project Integration (PI)**

December 2009 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	1,058.3	969.4	579.7	(88.9)	(8%)	389.8	40%	0.92	1.67	
CTD	11,011.6	10,837.0	9,232.4	(174.5)	(2%)	1,604.7	15%	0.98	1.17	62,358.7

Schedule Variance and Cost Variance Analysis

The favorable CM CV of \$1,605k is reportable:

Description/Cause: due to 1) fewer subcontractors than planned for construction/commissioning management.

The favorable CTD CV of \$1,215k is reportable:

Description/Cause: due to 1) 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 effective reviews.

WBS 5.01.05.04 - Central Engineering

December 2009 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	736.5	761.2	586.8	24.7	3%	174.4	23%	1.03	1.30	
CTD	6,286.2	6,063.6	6,217.3	(222.6)	(4%)	(153.7)	(3%)	0.96	0.98	34,138.3

Schedule Variance and Cost Variance Analysis

The favorable CM CV of \$174k is reportable:

Description/Cause: due to vacant management positions.

WBS 5.01.05.05 - Workforce Resources

December 2009 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	775.7	775.7	709.2	0.0	0%	66.5	9%	1.00	1.09	
CTD	12,333.4	12,333.4	10,898.2	0.0	0%	1,435.2	12%	1.00	1.13	48,309.2

Schedule Variance and Cost Variance Analysis

The favorable CTD CV of \$1,435k is reportable:

Description/Cause: due to 1) labor efficiency gains by streamlining the mandated Lockout-Tagout and Maintenance Safety Classification training classes in FY09; 2) cost savings from subcontracted training charges with the two (2) major training class providers in FY09.

WBS 5.01.05.06 - Business Services**December 2009 (\$k)**

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	1,368.0	1,786.7	2,408.6	418.7	31%	(621.9)	(35%)	1.31	0.74	
CTD	24,369.5	23,226.0	22,535.8	(1,143.5)	(5%)	690.3	3%	0.95	1.03	82,169.0

Schedule Variance and Cost Variance Analysis

The favorable CM SV of \$419k is reportable:

Description/Cause: primarily due to receiving some of the trailers for the 2704HV Mobile Office Complex ahead of schedule .

The unfavorable CM CV of (\$622k) is reportable:

Description/Cause: due to Liquidations and Work for Others (WFO) being higher than anticipated due to an increased volume of WFO.

WBS 5.01.05.08 - Hanford Pension and Benefits**December 2009 (\$k)**

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	1,825.0	1,825.0	2,009.7	0.0	0%	(184.7)	(10%)	1.00	0.91	
CTD	21,177.0	21,177.0	20,517.6	0.0	0%	659.4	3%	1.00	1.03	110,742.1

Schedule Variance and Cost Variance Analysis

The unfavorable CM CV of (\$185k) is reportable:

Description/Cause: due to retirement medical costs being higher than estimated for current month.

WBS 5.01.05.09 - RA- Project Support**December 2009 (\$k)**

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	2,356.2	2,355.4	1,524.4	(0.8)	(0%)	831.1	35%	1.00	1.55	
CTD	23,067.5	23,058.7	14,679.8	(8.7)	(0%)	8,378.9	36%	1.00	1.57	70,312.1

Schedule and Cost Variance Analysis

The favorable CM CV of \$831k is reportable:

Description/Cause: due to lower allocation of applicable G&A/COP costs than planned.

The favorable CTD CV of \$8,379k is reportable:

Description/Cause: due to 1) lower allocation of applicable G&A/COP costs than planned; 2) rate for subcontracts, including ROS, was less than planned; 3) less training cost than planned resulting from RA hiring delays; 4) vacant positions seeking qualified candidates for RA Engineering; 5) delays for the startup of HVAC retrofit project due to weather and equipment breakdowns.

5.02.01 - RETRIEVAL/CLOSURE PROGRAM

December 2009 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	1,295.4	2,234.7	1,718.7	939.3	73%	516.0	23%	1.73	1.30	
CTD	38,165.3	37,622.0	34,889.1	(543.3)	(1%)	2,732.9	7%	0.99	1.08	157,465.4

Schedule Variance and Cost Variance Analysis

The favorable CM SV of \$939k is reportable:

Description/Cause: due to 1) an adjustment was made to redefine/realign the TY Barrier Construction activities under the Interim Barrier Construct work package; 2) accelerated progress made on the Large Riser project and mobilization of the water jet cutting contractor.

The favorable CM CV of \$516k is reportable:

Description/Cause: due to 1) Interim Barrier adjustment; 2) Hose in Hose Transfer Line Disposition cost efficiencies resulting from preparing the Engineering Design media in house versus the planned subcontractor.

5.02.02 - SST RETRIEVAL EAST AREA

December 2009 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	1,228.4	1,310.5	2,208.4	82.1	7%	(897.9)	(69%)	1.07	0.59	
CTD	29,650.3	25,192.4	32,597.4	(4,457.9)	(15%)	(7,405.0)	(29%)	0.85	0.77	207,526.7

Schedule Variance and Cost Variance Analysis

The unfavorable CM CV of (\$898k) is reportable:

Description/Cause: due to 1) problems during startup and readiness activities associated with the C-104 OAT including water freeze-up, missing packing nuts from diversion box valves, and repair of the Pressure/Flow Indicators in the POR138 Valve Box.

The unfavorable CTD SV of (\$4,558k) is reportable:

Description/Cause: due to 1) delays in starting retrieval operations as a result of problems with AN-101 Hot OAT, the AN-101 supernatant pump over-pressurization protection, frozen water lines, leaking water trucks, and the repair of the Pressure/Flow Indicators in the POR138 Valve Box; 2) C-111 Retrieval delays in construction resulting from

delays in equipment removal due to objects blocking tank risers. These objects also required changes to the design of the risers and the relocation of the camera and spray wands. In addition, receipt of the two (2) Sluicers was delayed due to changing safety classification and additional source inspections being required.

The unfavorable CTD CV of (\$7,405k) is reportable:

Description/Cause: due to 1) *C-104 Retrieval* related to increased planning and preparatory work required to complete 04-A jumper removal, pump removal / disposal, and sluicer installation due to impacts from high radiation readings in the 04-A pit and added costs for 04-B pit water removal. In addition, compliance with Commercial Grade Item Dedication (CGID) has resulted in additional labor and material costs for rework of Quality Assurance Inspection Plans, including rigorous inspections and travel to vendor facilities. The CGIDs are required for the acceptance and/or re-procurement of Safety Significant components in jumper and other system assemblies. Additionally, overtime for completion of construction and construction testing has increased actual cost. 2) *C Farm Infrastructure* increased Engineering and Quality Assurance (QA) resources to resolve outstanding CGIDs for Safety Significant components. Other key contributors include: rework of back-flow preventer, Nitrogen seal system and discharge jumper, rework of control trailer power and instrument wiring, troubleshooting and repair of the AN-01A Supernatant pump Variable Frequency Drive, repair of as-found conditions in the power panel for the winch control drive system, and re-fabrication of the valve actuators; all encountered during Construction Acceptance Testing (CAT).

The unfavorable CTD CV is offset by *C-110 Retrieval*, \$1,669k: due primarily to efficiencies captured during C-110 retrieval (Actual slurry volume loading by percent was much higher than the model predicted resulting in additional cost savings).

5.03.01 - WTP FEED DELIVERY PROGRAM

December 2009 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	1,851.8	1,755.8	1,070.9	(96.1)	(5%)	684.9	39%	0.95	1.64	
CTD	14,566.4	14,402.3	11,013.9	(164.1)	(1%)	3,388.4	24%	0.99	1.31	92,720.3

Schedule Variance and Cost Variance Analysis

The favorable CM CV of 685k is reportable:

Description/Cause: due to 1) unfilled labor positions and delays in issuing contracts associated with the RPP System Plan, WFD PE/Flow Sheet, Tank Waste Database Management and RA- WFD Tank Mixing & Sampling.

The favorable CTD CV of \$3,388k is reportable:

Description/Cause: due to 1) cost transfer to SRNL for the Bench Scale Demonstration which is not captured as actual cost (ACWP); and the Small Scale Mixing Demonstration Plan which completed significantly under original estimate, 2) delay in technical and cost evaluations for the RA-AWA Project Planning and Mobilization.. Also due to the uncertainties of the work scope to be funded by the Recovery Act, Project managers delayed hiring staff until RA work scope for CLIN 3 was finalized; therefore the cost for new hires is under run, 3) delays in hiring staff and

issuing contracts in support of the WFD PE/Flow Sheet development and WFD Technical Baseline. In addition, efficiencies were gained in the diagnostic activities of the TWINS Database.

5.03.03- RA- TRANSFER SYSTEM MOD PROJECT

December 2009 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	147.8	616.0	266.0	468.2	317%	349.9	57%	4.17	2.32	
CTD	797.0	1,514.6	1,026.8	717.6	90%	487.7	32%	1.90	1.47	20,732.2

Schedule Variance and Cost Variance Analysis

The favorable CM SV of \$468k is reportable:

Description/Cause: due to RA- AW COB Isolation construction is being completed ahead of schedule to support start of the 242-A Evaporator campaign.

The favorable CM CV of \$350k is reportable:

Description/Cause: due to cost savings by the RA-AW COB Isolation, subcontractor; however, cost is partially understated due to an incomplete accrual.

The favorable CTD SV of \$718k is reportable:

Description/Cause: same as above.

5.03.06 - IMMOBILIZATION PROGRAM

December 2009 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	442.9	436.5	272.4	(6.4)	(1%)	164.0	38%	0.99	1.60	
CTD	2,247.1	2,208.0	1,537.3	(39.0)	(2%)	670.7	30%	0.98	1.44	55,065.2

Schedule Variance and Cost Variance Analysis

The favorable CM CV of \$164k is reportable:

Description/Cause: due to longer than anticipated contract negotiations for the IDF Glass Testing.

The favorable CTD CV of \$671k is reportable:

Description/Cause: due to fewer resources than planned to complete IDF Glass Testing and activities associated with the Interim Hanford Storage Facility scope.

5.03.07 - WTP OPERATIONAL READINESS**December 2009 (\$k)**

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	773.6	268.9	419.4	(504.7)	(65%)	(150.5)	(56%)	0.35	0.64	
CTD	3,650.3	2,317.8	2,151.1	(1,332.5)	(37%)	166.8	7%	0.63	1.08	17,280.4

Schedule Variance and Cost Variance Analysis

The unfavorable CM SV of (\$505k) is reportable:

Description/Cause: due to the cancellation of Early Transition of LAW/BOF/LAB by ORP.

The unfavorable CM CV of (\$151k) is reportable:

Description/Cause: due to 1) lower subcontract costs than planned to support the PEP Future Needs Study resulting from subcontract under-reporting labor and 2) cancellation of the Early Transition of LAW/BOF/LAB scope by ORP. A BCR is in process to remove scope.

The unfavorable CTD SV of (\$1,333k) is reportable:

Description/Cause: due to 1) *Early Transition LAW/BOF/LABS, (\$1,272k):* the cancellation of work scope by ORP.

5.03.10 - SECONDARY WASTE TREATMENT/ETF**December 2009 (\$k)**

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	388.1	348.2	140.9	(39.9)	(10%)	207.3	60%	0.90	2.47	
CTD	2,461.2	2,466.2	1,781.3	5.0	0%	684.9	28%	1.00	1.38	37,291.1

Schedule Variance and Cost Variance Analysis

The favorable CM CV of \$207k is reportable:

Description/Cause: due to level loaded labor and contracts however scope has not been initiated.

The favorable CTD CV of \$685k is reportable:

Description/Cause: due to labor efficiencies which occurred in FY 2009.

5.03.11 – NEXT GENERATION PROJECTS

December 2009 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	501.2	473.1	179.1	(28.1)	(6%)	294.0	62%	0.94	2.64	
CTD	2,061.6	1,849.2	1,104.2	(212.4)	(10%)	745.1	40%	0.90	1.67	51,784.5

Schedule Variance and Cost Variance Analysis

The favorable CM CV of \$294k is reportable:

Description/Cause: due to level loaded and have not been issued.

The favorable CTD CV of \$745k is reportable:

Description/Cause: due to contracts which have not been issued.

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

I. Near-Term Deliverables:

- **M45-45-55, Submit to Ecology for Review and Approval as an Agreement primary document a Phase 1 RFI Report**
Due: 1/31/08
Status: RFI in primary document revision process. DOE revised RFI, based on Ecology comments and resubmitted to Ecology on 10/07/09. Additional revisions have been identified and agreed upon. Additional changes to Chapter 1, Chapter 25, Chapter 27, Chapter 29, Appendix A and Appendix B have been made, and the revised document released. An update to Appendix G is underway to incorporate new data. All revisions will be provided to Ecology by April 30, 2010.
- **M-45-56F, Complete Implementation of Agreed to Interim Measures**
Due: 07/31/09
Status: Complete. ORP and Ecology met on July 21, 2009 to discuss completed FY2008 interim measures and future FY2009 anticipated activities. July 2009, meeting minutes drafted and jointly reviewed with signature obtained at January 2010 PMM. Consistent with FY2009 identified efforts, Ecology's TY Interim Barrier Public comment period closed January 22, 2010 Ecology provided approval of the TY barrier and monitoring system design in the January 2010 PMM, and a formal letter was provided. The construction contract has been placed. The annual barrier monitoring report PNNL-19123, "T Tank Farm Interim Surface Barrier Demonstration - Vadose Zone Monitoring FY09 Report", has been released.
- **M45-45-58, Submit to Ecology for Review and Approval as an Agreement primary document, a phase 2 CMS Master Work Plan**
Due: 12/31/08
Status: 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 and Ecology have met to discuss and plan additional revisions to address the clarifications. No issues identified.
- **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). Revisions have been incorporated, and the revised document will be provided by Ecology by February 15, 2010.

- **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.
- **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.

II. Significant Accomplishments:

- T-Farm interim barrier monitoring continues; annual monitoring report issued.
- Continued direct push characterization in C Farm per the Phase 2 RFI/CMS work plan and SAP for WMA C.
- 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.
- Initiated well-to-well SGE Survey of A and AX Farms.
- Construction contract placed for TY farm interim surface barrier.

III. Significant Planned Actions in the Next Six Months:

- Continue direct push campaign in C Farm.
- Initiate SGE data collection at one additional UPR site in C Farm.
- Complete data collection and analysis of well-to-well SGE survey of A and AX Farms to support evaluation of a potential future barrier site.
- Initiate additional direct push sampling in S Farm based on findings of SGE analysis of SX data, to support evaluation of a potential future barrier site.
- Initiate construction of an interim surface barrier at TY farm.
- Initiate remedial technology assessments in support of a Corrective Measures Study for WMA C.

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

- **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

- Continued C-108 heel sample analysis at 222S laboratory.
- Completed Operational Testing of C-104 Waste Retrieval System
- Continued C-104 trouble shooting and repair of flow and pressure elements in Valve Box.
- Declared readiness and initiated C-104 Retrieval Operations
- Continued design for C-108 Hard Heel Retrieval System, and completed the C-108 Activity Description.
- Completed the Activity Description and Test Program Worksheet for C-111 WRS
- Continued C-111 procurement and construction activities

III. Significant Planned Activities in the Next Six Months

- Analyze C-108 heel.
- Complete phase II testing of MARs.
- Commence design of C-107 Waste Retrieval System (MARs deployment)
- Achieve 'interim stabilized' liquid levels on S-102. Issue interim stabilization documentation.
- Complete design for C-108 Hard Heel Retrieval system, and initiate procurement and construction activities.
- Complete C-111 construction and initiate retrieval.
- Initiate C-112 design
- Initiate C-110 Heel sampling

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 public review and comment on the newly proposed Consent Decree is complete.

C-FARM RETRIEVAL SUMMARY SCHEDULE FORECASTS ^a

Tank	Final Design Drawings complete	Construction Complete	Process Control Plan Complete	Start Retrieval	Complete Retrieval	TSAP Complete	Retrieval Data Report or Appendix H to Ecology/EPA
C-101	4/1/11	3/23/12	4/8/12	5/8/12	8/11/14	7/11/14	1/13/15
C-102	9/30/11	9/20/12	10/2/12	11/2/12	8/19/14	7/19/14	4/16/15
C-103	Complete	Complete	Complete	Complete	Complete	Complete	Complete
C-104	Complete	Complete	Complete	Complete	4/15/12	3/15/12	12/7/12
C-105	6/28/11	6/18/12	7/1/12	8/1/12	8/19/14	7/19/14	4/8/15
C-106	Complete	Complete	Complete	Complete	Complete	Complete	Complete
C-107	6/29/10	3/25/11	4/7/11	5/7/11	1/7/13	12/7/12	8/29/13
C-108 ^c	Complete	Complete	Complete	Complete	12/3/10	10/15/10	7/8/11
C-109 ^{cd}	Complete	Complete	Complete	Complete	12/21/11	11/21/11	8/16/12
C-110	Complete	Complete	Complete	Complete	8/21/11	7/21/11	4/17/12
C-111	Complete	7/1/10	7/29/10	8/29/10	1/21/13	12/21/12	9/13/13
C-112	8/16/10	8/5/11	8/20/11	9/20/11	4/22/13	3/22/13	2/13/14
C-201	Complete	Complete	Complete	Complete	Complete	Complete	Complete
C-202	Complete	Complete	Complete	Complete	Complete	Complete	Complete
C-203	Complete	Complete	Complete	Complete	Complete	Complete	Complete
C-204	Complete	Complete	Complete	Complete	Complete	Complete	Complete

a. Completion dates are based on the stated January month-end Integrated Mission Execution Schedule (IMES) as of 1/28/10 and the Near Term Baseline Schedule (NTBS) and are subject to change as efforts continue to identify and implement schedule efficiencies.

c. Sluicing was performed to the limits of the sluicing system technology.

d. Hard Heel Retrieval using MRT complete to limits of technology, not achieving less than 360 cu ft residual, awaiting future retrieval path forward.

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: To be missed. See discussion below under "Issues".
- **M-45-02O-A, 3 Parties Shall Meet To Establish New Milestones Within 60 Days**
Due: 04/30/10
Status: To be missed. See discussion below under "Issues".
- **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".

Milestone M-62-40, Tank Waste System Plan

- **M-62-40, Submit a System Plan to Ecology describing the disposition of all tank waste managed by the Office of River Protection, including the retrieval of all tanks not addressed by the Consent Decree in *Washington v. DOE*, Case No. 08-5085-FVS, and the completion of the treatment mission.**

Due: 10/31/2011

Status: Until the Consent Decree is "entered" in court and this milestone becomes final, discussion of its status will be carried at this point in the TPA Monthly Milestone Review Meeting Update. (See discussion below under "Issues".) Work has not been initiated on M-62-40 work scope. Meetings were held in December and January with Ecology, ORP and WRPS to discuss results, comments, and questions on System Plan Rev. 4 which was issued in September 2009. In addition, recommendations for improvements in System Plan Rev. 5 were discussed. (NOTE: System Plan Rev. 5 is not being developed to support milestone M-62-40. That will be the function of System Plan Rev. 6.) It was suggested at the most recent meeting that discussions begin very soon on the details of the M-62-40 milestone. Development of alternatives to analyze for M-62-40, with corresponding assumptions, would begin when the TPA change request package is approved.

II. Significant Accomplishments

None.

III. Significant Planned Activities in the Next Six Months

None.

IV. Issues

The proposed TPA milestone, M-62-40, appears to supersede and provide 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 Fall 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 91% complete and approximately 423,000 gallons total waste removed. Retrieval was restarted on July 25, 2007 and halted on July 26, 2007 when an aboveground waste spill occurred. Retrieval is estimated to be approximately 93.3% complete with 433,000 gallons of total waste removed.

- **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

- Continued to operate the S-102 exhauster to reduce the volume of supernatant liquid in the tank. An October 20, 2009, video review of the tank has shown that the supernatant liquid volume is approximately 3,000 to 4,000. This is below the criteria for interim stabilization of less than 5000 gallons supernatant liquid.

III. Significant Planned Activities in the Next Six Months

- Continue to operate the S-102 exhauster. Issue interim stabilization documentation.

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 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 August 28, 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 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. An October 20, 2009, video review of the tank has shown that the supernatant liquid volume is approximately 3,000 to 4,000. This is below the criteria for interim stabilization of less than 5000 gallons supernatant liquid.

II. Significant Accomplishments:

Continued to operate the S-102 exhauster to reduce the volume of supernatant liquid in the tank.

III. Significant Planned Actions in the Next 6 Months:

Continue to operate the S-102 exhauster. Issue S-102 interim stabilization documentation.

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 January 1 – January 31, 2010:

I. Accomplishments:

- Completed liquid grab sampling of tank 241-AY-101 on January 20, 2010.
- Completed revision 0 of RPP-43632, *Tank Sampling and Analysis Plan for 241-AZ-101 Grab Samples*, on January 27, 2010.
- Completed revision 0 of RPP-44164, *Tank Sampling and Analysis Plan for 241-AN-107 Grab Samples*, on January 27, 2010.

II. Planned Action within the next Six Months:

- Tank Sampling
 - Tank 241-AP-107 evaporator grab samples scheduled for March 2009.
 - Tank 241-AN-101 mid C-104 retrieval scheduled for February 2010.
 - Tank 241-AN-101 post C-104 retrieval scheduled for May 2010.
 - Tank 241-AZ-101 corrosion mitigation liquid grabs scheduled for February 2010.
 - Tank 241-AN-103 corrosion mitigation liquid grabs scheduled for March 2010.
 - Tank 241-AN-104 corrosion mitigation liquid grabs scheduled for March 2010.
 - Tank 241-AN-107 corrosion mitigation liquid grabs scheduled for March 2010.
 - Tank 241-C-110 off riser sampling scheduled for April 2010.
 - Tank 241-C-108 off riser sampling scheduled for June 2010.
- BBI Updates
 - Twelve tank updates are underway for the first second quarter of fiscal year 2010.
 - One tank update is complete and nine others have been started.
- Data Quality Objectives (DQO)
 - Complete revision 11 of the Chemistry Control DQO in March 2010.
 - Complete revision 16 of the Compatibility DQO in February 2010.
 - Complete revision 0 of the Mission Analysis/Strategic Planning DQO in April 2010.

III. Issues:

- None.

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

I. Near-Term Deliverables:

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

II. Significant Accomplishments:

- None.

III. Significant Planned Actions in the Next Six Months:

- None.

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

- None.

V. Issues:

- Nothing to report.

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

242-A Campaign strategy:

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

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

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: 01/31/2009
Status: Complete.
- **M-62-01S, Submit Semi-Annual Project Compliance Report**
Due: 07/31/2009
Status: Complete.
- **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 3,200 FTE equivalent contractor [Bechtel National Inc. (BNI)] and subcontractor personnel working on the WTP Project, with about 910 craft, 410 non-manual, and about 285 subcontractor personnel FTE equivalents working at the WTP construction site (all facilities). Overall project percent complete through December 2009 is 52%, design and engineering is 78% complete, and construction is 48% complete.

The overall WTP Project schedule variance (SV) was positive in December at +\$3.8M, as well as was the cost variance (CV) at a positive \$2.7M. The positive monthly SV performance came mostly from Plant Equipment; however, it was offset somewhat by a negative Plant Material SV. The positive CV came mostly from Construction.

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

Material at Risk (MAR)

The Safety Evaluation Report (SER) was approved by the ORP Manager on October 31, 2009, with four Conditions of Acceptance (COA). The four COAs address the following subject areas: (1) Hydrogen in Piping and Ancillary Vessels (HPAV) piping design criteria; (2) BNI to develop a plan and schedule for resolving technical comments on six primary reports referenced in the SER (Note Completed in December 2009); (3) Develop a plan and schedule for resolving the uncertainties identified in PDSA Addendum Section 2.7 (Note the COA will not be closed until the uncertainties are adequately resolved and approved by ORP; and (4) BNI will recommend application of seismic criteria for piping performing a safety significant confinement function. The COAs will be closed as work is completed, with a completion of all COAs estimated in June 2010. The ICP approval enables elimination of many active process controls located outside of the hot cell and reclassification of several Safety Class controls to Safety Significant, while retaining a core set of Safety Class controls sufficient to ensure safety for the public and the workers. ORP considers these changes essential to ensuring a more reliable Pretreatment Facility that is critical to fulfilling the tank waste treatment mission, the cornerstone to the cleanup of tank waste at Hanford. The schedule for completion of the COAs aligns with critical design and procurement need dates, so overall construction schedules are not affected.

Hydrogen in Piping and Ancillary Vessels (HPAV)

Based on recommendations by the HPAV team chartered in February 2009, ORP and BNI have evaluated team recommendations that could result in removing unnecessary complexity in the control strategy, while still maintaining safety commensurate to the risk. Follow-on testing at CalTech continues, and is to complete in March 2010. In addition, BNI had contracted with Dominion Engineering, who subcontracted to the Southwest Research Institute, to perform HPAV testing, which was completed in January 2009. Subsequently, BNI again contracted with Dominion Engineering for an additional scope of testing at the Southwest Research Institute, which completed in December 2009. Results from all testing programs will be used to evaluate any impacts (e.g., reduction in classification of systems, structures, or components) on the safety analysis and design.

By the end of February 2010, the ORP Manager will approve revised design criteria, prepared by BNI, for protecting against hydrogen hazards while minimizing design complexity and maintaining adequate public, worker, and environment safety protection. The approval of the revised design criteria addressing hydrogen hazards for the Pretreatment Facility is required to support moving forward with critical piping engineering design and procurements without impacting the overall construction schedule. The revised design strategy has been reviewed and deemed – by three renowned experts in the field of piping design, code application, and hydrogen hazard phenomenology – as reasonable and consistent with American Society of Mechanical Engineers code B31.3, Standards of Pressure Piping, Process Piping.

WTP – Fiscal Year To-Date Performance

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

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



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	PTD BCWS	PTD BCWP	PTD ACWP	PTD SPI	PTD CPI
Oct 2009	\$51,264	\$46,742	\$47,659	0.91	0.98	\$5,085,500	\$5,087,620	\$5,107,437	1.00	1.00
Nov 2009	\$50,479	\$50,256	\$48,883	1.00	1.03	\$5,135,980	\$5,137,877	\$5,156,320	1.00	1.00
Dec 2009	\$47,078	\$50,905	\$48,202	1.08	1.06	\$5,183,058	\$5,188,782	\$5,204,522	1.00	1.00
Jan 2010	\$84,428					\$5,267,486				
Feb 2010	\$59,932					\$5,327,418				
Mar 2010	\$58,223					\$5,385,641				
Apr 2010	\$56,649					\$5,442,290				
May 2010	\$58,954					\$5,501,244				
Jun 2010	\$62,517					\$5,563,761				
Jul 2010	\$81,609					\$5,645,370				
Aug 2010	\$53,895					\$5,699,265				
Sep 2010	\$62,109					\$5,761,374				
FY - To-Date	\$148,821	\$147,903	\$144,744	0.99	1.02					

Pretreatment (PT) Facility – January 2010 Accomplishments (Dec 09 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 48%, engineering/design is 77% complete, and construction is 29% complete.

Overall construction has been performing well, especially in the area of concrete and steel installation. Construction installations for the month included: 400 cubic yards (CY) of concrete, 128 tons of rebar, 40,000 lbs of embeds and 115 tons of structural steel. There were 3 concrete placements, one wall and two slabs, for the month of December. Installation of HVAC duct by subcontractor is behind schedule, however, has developed plan to increase production significantly, and is forecasted to recover by next year. Rebar installation continues to support additional slab placements at the 77-ft elevation. Structural steel installations continue on the south side of the facility. 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 waste transfer dock crane rail girder are on-going.

3,700 ft of piping isometric drawings have been issued this month exceeding the cumulative baseline. Engineering performance continues to benefit from the process improvement in the method of data sheets development.

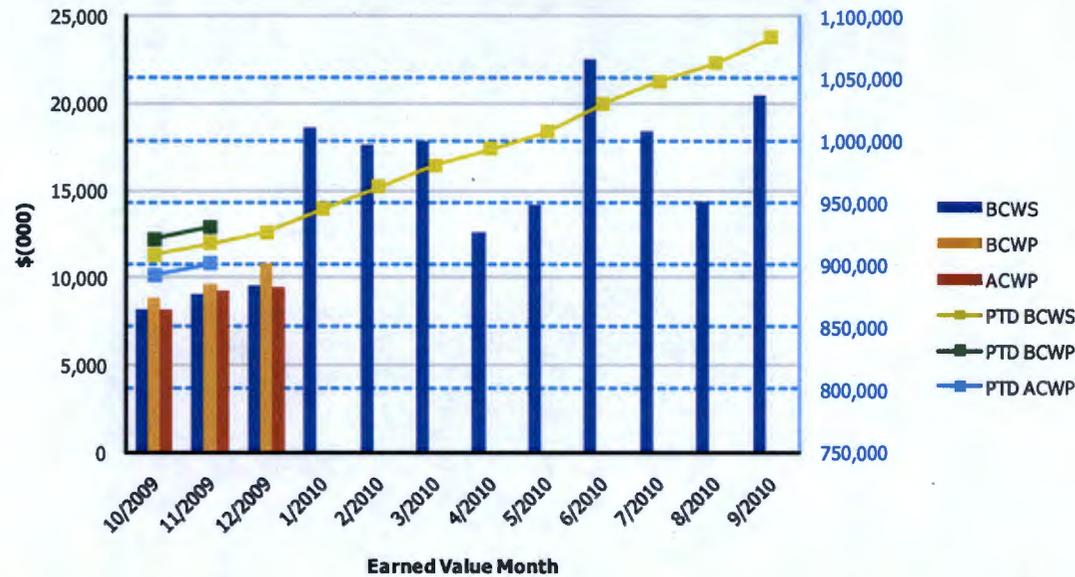
Two alternative options for the mitigation of solids formation in the Cesium Ion Exchange Process (CXP) system provided to ORP are under evaluation by ORP for a decision by February 2010.

Development of key requirements documents and planning for testing continue as part of the resolution to solve the mixing issue (M3) identified by the External Flowsheet Review Team. Methods for scaling up from the 1/10th scale test stands are also being developed to resolve this issue prior to the proposed consent decree milestone of June 2010. Additionally, alternate PJM arrays have been fabricated and installed into the test platform vessel for potential modification for the HLP-22 vessel. BNI is working closely with ORP in the planning and development of documentation to facilitate timely closure of this issue. The final M3 strategy and technical basis documentation is scheduled to be completed by February 2010, prior to resumption of testing.

Re-analysis and fabrication modifications of various numbers of vessels due to seismic and other dynamic load increases are ongoing. Vessel design and fabrications are some of the critical path activities for PT. A number of additional vendors are being sought for awarding these activities for a number of vessels, to create float in the schedule by mitigating resource constraints of BNI and the fabrication vendors. A number of complex jumper and frame designs have been completed, and are scheduled to be awarded for fabrication in March 2010.

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

Facility Specific (unallocated) Monthly and Project-to-Date (PTD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	PTD BCWS	PTD BCWP	PTD ACWP	PTD SPI	PTD CPI
Oct 2009	\$8,121	\$8,762	\$8,153	1.08	1.07	\$907,724	\$920,488	\$891,343	1.01	1.03
Nov 2009	\$8,991	\$9,625	\$9,213	1.07	1.04	\$916,715	\$930,112	\$900,556	1.01	1.03
Dec 2009	\$9,493	\$10,767	\$9,366	1.13	1.15	\$926,208	\$940,879	\$909,922	1.02	1.03
Jan 2010	\$18,541					\$944,749				
Feb 2010	\$17,560					\$962,309				
Mar 2010	\$17,748					\$980,057				
Apr 2010	\$12,555					\$992,612				
May 2010	\$14,163					\$1,006,775				
Jun 2010	\$22,520					\$1,029,295				
Jul 2010	\$18,390					\$1,047,685				
Aug 2010	\$14,354					\$1,062,039				
Sep 2010	\$20,447					\$1,082,486				
FY - To-Date	\$26,605	\$29,154	\$26,732	1.10	1.09					

High-Level Waste (HLW) Facility – January 2010 Accomplishments (Dec 09 EVM Data)

The HLW Facility will receive the high-level waste fraction from the Pretreatment (PT) Facility. The concentrate is sampled and analyzed to determine the optimum blend of glass formers to add to the waste that will produce a vitrified waste form that is compliant with disposal requirements and also meets the required production rate. The blended slurry is converted into molten glass in one of the two HLW melters, and then poured into cylindrical stainless steel canisters for cooling. The canisters are sealed and moved to a decontamination cell where any surface contamination is removed prior to shipment to interim or final storage. HLW engineering design is 83% complete and construction is 24% complete. The overall facility is 49% complete.

Efforts to relocate the Second-stage C5V filters from the primary Filter Cave continue. Two stages of HEPA filtration are still provided, but the second stage of HEPAs is being relocated out-cave and changed to contact handled “safe-change” units. This, as well as a first stage double bubble-tight bypass duct to be used to maintain ventilation post-fire or crane failure, provides more operational flexibility and reduces dependence on the crane in a fire scenario. For optimum efficiency, the Filter Cave’s large offgas components, support steel, and large-bore ducting will be placed via crane “over the top” of the surrounding Filter Cave walls before the structural steel and decking installation for the slab overhead (slab 3027 at the +40-ft elevation) is scheduled to start in May 2012. In order to track the multiple, concurrent design engineering-procurement-construction activities and monitor the schedule, the HLW Team uses a detailed Level-5 schedule, which is reviewed on a weekly basis.

In December, engineering completed 188 drawings for more than 4,000 tons of structural steel. The drawings compose the last elevations of steel needed, including the +58-ft, +72-ft, and +91-ft elevations. The design of the structural steel included “dynamic analysis” to ensure the structure would meet the stringent nuclear-quality standards and seismic criteria.

On December 22, shield door HMH-DOOR-00010 was delivered by the vendor and staged outside the HLW facility. This steel shield door is nearly 15-ft tall, 17.5-ft wide, and 12-inches thick to provide radiation shielding and serves as part of the primary contamination (C5) boundary for Melter Cave #1. Since the shield door weighs 50-tons, it was delivered directly to the site to avoid having to handle it multiple times. Fabrication of the identical C5 shield door (HMH-DOOR-00015) for Melter Cave #2 is nearly complete and delivery is expected in February.

Construction forces placed one slab and four walls for a total of 574 cubic yards (CY) of concrete placements in January. The five placements exceeded the January baseline of two placements. Construction continues to maintain their production goals, completing 33 placements in the last seven months – July through January – since initiation of the recovery plan. In February, construction expects to complete six concrete placements, two more than scheduled in the baseline.

- At the +37-ft elevation, crews continued the installation of decking and pour stops, and electricians began installing embeds for slabs 3001 and 3002 at the northwest corner of the facility.
- At the +14-ft elevation, iron worker crews continued to install rebar, embeds, trim steel, and platforms for walls and slabs at various locations. Carpenter crews continued to work on wall and slab forms while iron workers continued the installation of structural steel and other crews installed embeds and joggles at multiple locations.
- At the +0-ft elevation, carpenters worked on concrete formwork at various locations, masons worked on truing grillage, painters blasted and coated structural steel, iron workers set columns at the north side of the facility, and pipe fitters installed piping over vessel 904.
- At the -21-ft elevation, millwrights worked on installing shield door supports, pipefitters installed off-gas piping and worked on pipe rack piping, electricians worked on cable tray support installation at the south section of the building, and millwrights continued work on installing the bogie rails in the rinse tunnel and “plints” (i.e., feet) for equipment.

Near-Term *Proposed* Consent Decree Milestones:

Project	Description	Specified Completion Date	Current Schedule Date
A-20 Interim	Complete Construction of Structural Steel to Elevation 14' in HLW Facility	12/31/2010	1/13/2010

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

Facility Specific (unallocated) Monthly and Project-to-Date (PTD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	PTD BCWS	PTD BCWP	PTD ACWP	PTD SPI	PTD CPI
Oct 2009	\$6,029	\$5,415	\$5,799	0.90	0.93	\$599,008	\$597,499	\$583,042	1.00	1.02
Nov 2009	\$6,675	\$6,939	\$7,190	1.04	0.97	\$605,682	\$604,438	\$590,232	1.00	1.02
Dec 2009	\$5,810	\$5,887	\$6,316	1.01	0.93	\$611,492	\$610,325	\$596,548	1.00	1.02
Jan 2010	\$19,790					\$631,282				
Feb 2010	\$10,266					\$641,548				
Mar 2010	\$6,978					\$648,526				
Apr 2010	\$9,195					\$657,721				
May 2010	\$7,703					\$665,424				
Jun 2010	\$9,228					\$674,652				
Jul 2010	\$14,403					\$689,055				
Aug 2010	\$8,922					\$697,977				
Sep 2010	\$10,046					\$708,023				
FY - To-Date	\$18,514	\$18,241	\$19,305	0.99	0.94					

Low-Activity Waste (LAW) Facility – Jan 2010 Accomplishments (Dec 09 EVM Data)

The LAW Facility will vitrify low-activity waste from the PT Facility. Waste will be mixed with glass formers, vitrified into glass at an average daily rate of 30 metric tons, and placed in stainless-steel containers that will be disposed on site in the Integrated Disposal Facility.

Overall facility percent complete is 68%, design is 92%, and construction is 57%.

In the month of January, components of off-gas pipe spools from RV Industries and components for the cranes/hoists from American Crane and Equipment Company were released to ship. Material Requisitions are being finalized for the TCO and Exhausters (critical path for LAW construction complete).

Construction completed linear plate installation on the walls and ceiling of the two pour caves. Construction continued: installing, piping and hangers, conduit, cable tray, gypsum wallboard, perimeter sealants, panels and transformers and metal-stud framing. BNI installed approximately 1,000 lf of process piping.

BNI Engineering continued to confirm calculations and issue drawings for completion of design and in support of construction. Issued one confirmed calculation for the radioactive waste disposal system and system description parts one and two for the miscellaneous gases system.

Resolution of technical issue for excessive heat retention in some Melter Pour Cave equipment continued. A high temperature condition has been calculated to occur in certain container handling equipment, that could significantly reduce the yield stress of these items.

Computational Fluid Dynamics calculation results will be analyzed for equipment stresses by a subcontractor. Early results indicate modifications to existing equipment will be required.

Expected completion date of the analysis has shifted due to early March 2010 due to set backs at the subcontractor level.

Upcoming significant planned accomplishments for February include completion of Facility Description part I, Rev A; Issue Part II - System Descriptions for Law Melter System (LMP) and Law Melter Feed Process System (LFP); complete Control System Logic Documents for Melter Feed Process System (LFP); complete C&I- LAW Off Gas Exhauster Design change; and confirm calculations and P&IDs for Law Primary Offgas (LOP), Law Secondary Offgas (LVP), Chilled Water System, Law Concentrate Receipt Process (LCP), Law Melters (LMP), and Liquid Effluent System (RLD).

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

Facility Specific (unallocated) Monthly and Project-to-Date (PTD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	PTD BCWS	PTD BCWP	PTD ACWP	PTD SPI	PTD CPI
Oct 2009	\$6,032	\$3,420	\$3,401	0.57	1.01	\$532,553	\$527,939	\$564,229	0.99	0.94
Nov 2009	\$4,657	\$3,275	\$3,738	0.70	0.88	\$537,211	\$531,215	\$567,968	0.99	0.94
Dec 2009	\$3,082	\$5,679	\$5,588	1.84	1.02	\$540,293	\$536,893	\$573,556	0.99	0.94
Jan 2010	\$6,070					\$546,363				
Feb 2010	\$3,921					\$550,284				
Mar 2010	\$4,085					\$554,369				
Apr 2010	\$5,566					\$559,935				
May 2010	\$8,207					\$568,142				
Jun 2010	\$3,067					\$571,209				
Jul 2010	\$9,593					\$580,802				
Aug 2010	\$3,899					\$584,701				
Sep 2010	\$4,098					\$588,799				
FY - To-Date	\$13,771	\$12,374	\$12,727	0.90	0.97					

Analytical Laboratory (LAB) – January 2010 Accomplishments (Dec 09 EVM Data)

The LAB will support WTP operations by analyzing feed, vitrified waste, and effluent streams. Overall facility complete for LAB is 48%, design is 79%, and construction is 59%.

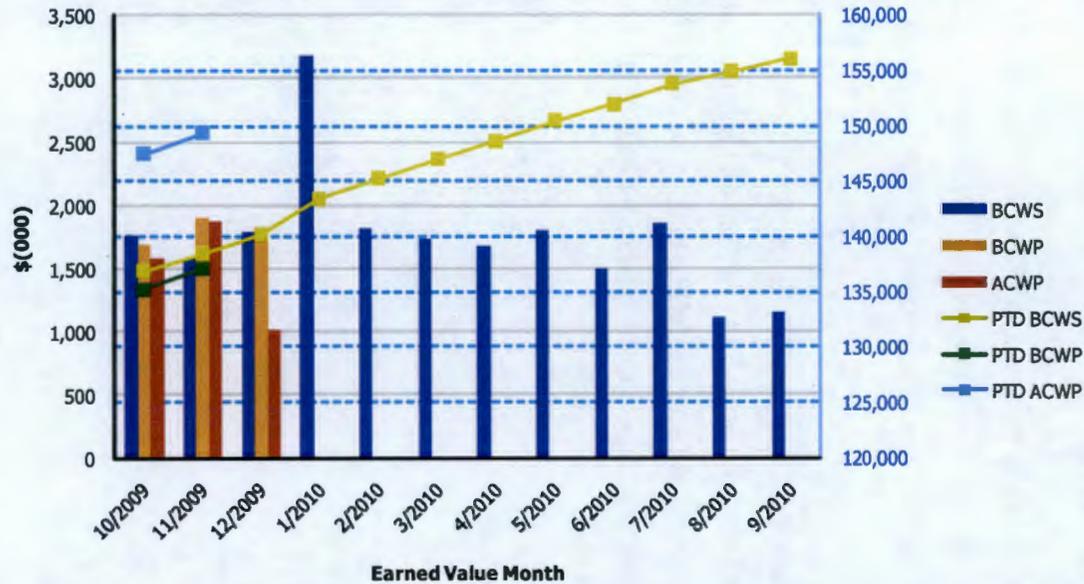
LAB engineering continues to focus on confirmation of design. Commencement of LAB Autosampling System (ASX) Equipment factory acceptance testing was delayed to February due to technical issues and implementation of factory acceptance test process improvements by BNI. BNI did complete factory acceptance testing of the ASX LAW Carrier Posting Station in January.

ORP is currently working with BNI to resolve the issue for use of combustible insulation in the LAB roof assembly. ORP issued a letter to BNI in January, which requested BNI provide to ORP a corrective actions and estimated cost and schedule impacts. BNI has 30 days to transmit a formal response to ORP.

The hot cell waste transfer system was received on December 30, 2009. BNI performed the receipt inspection of the equipment, which included the writing of two Non-Conformance Reports (NCRs). All receipt inspection activities were complete and the NCRs closed by December 31, 2009. BNI submitted the contract fee milestone package to ORP on January 29, 2010. ORP is currently working on milestone validation activities.

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

Facility Specific (unallocated) Monthly and Project-to-Date (PTD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	PTD BCWS	PTD BCWP	PTD ACWP	PTD SPI	PTD CPI
Oct 2009	\$1,756	\$1,681	\$1,579	0.96	1.06	\$136,852	\$135,189	\$147,452	0.99	0.92
Nov 2009	\$1,583	\$1,896	\$1,864	1.20	1.02	\$138,435	\$137,085	\$149,316	0.99	0.92
Dec 2009	\$1,779	\$1,735	\$1,015	0.98	1.71	\$140,213	\$138,820	\$150,331	0.99	0.92
Jan 2010	\$3,181					\$143,394				
Feb 2010	\$1,817					\$145,211				
Mar 2010	\$1,731					\$146,942				
Apr 2010	\$1,667					\$148,609				
May 2010	\$1,801					\$150,410				
Jun 2010	\$1,494					\$151,904				
Jul 2010	\$1,859					\$153,763				
Aug 2010	\$1,111					\$154,874				
Sep 2010	\$1,144					\$156,018				
FY - To-Date	\$5,118	\$5,312	\$4,458	1.04	1.19					

Balance of Facilities (BOF) – January 2010 Accomplishments (Dec 09 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 52%, design/engineering is 80%, and construction is 56%.

During January, the BOF portion (5) of the Tepid Water Heaters were Released to Ship.

Construction was completed on the 480V electrical duct bank and the C&I duct bank at the Glass Former Control Building. The fire service water installation and hydro test were also completed at the Glass Former Control Building. Work commenced to excavate piping in trenched backfilled with controlled density fill, so that the fittings could be coated with corrosion-retarding material, and one trench was completed with the coating applied.

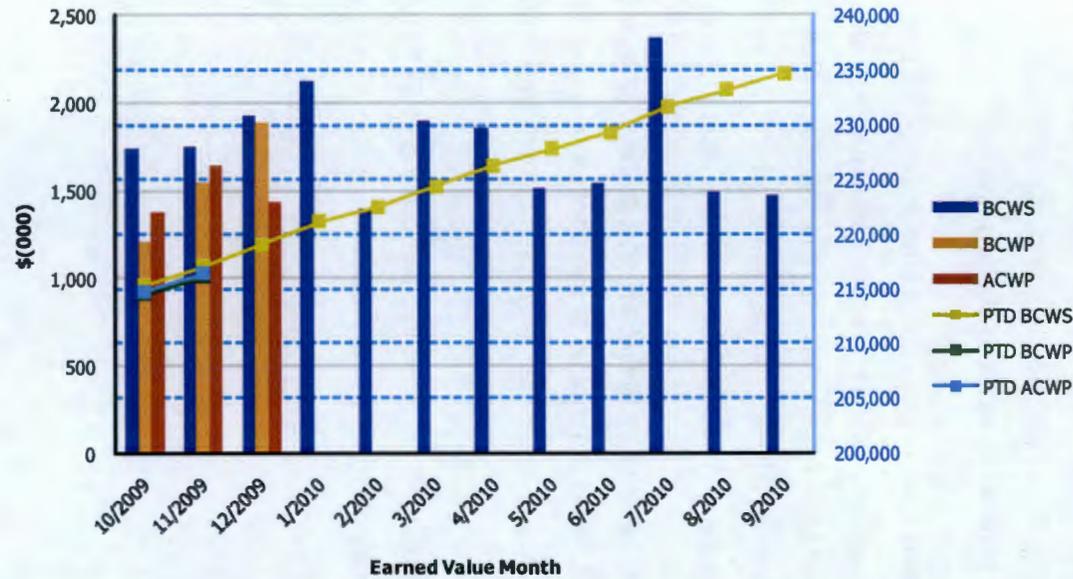
In January, BNI Engineering focus was on Emergency Diesel Generator (EDG) vendor visits and finalizing EDG procurement specifications. BNI Engineering continued revising designs of Distilled Water (DIW), Chilled Water, and Steam Condensate Water systems to support increased Pretreatment demand resulting from EFRT recommendations. Engineering issued 23 piping and instrumentation diagrams for the confirmed design of the chilled water system.

In January, ORP reviewed documents submitted by BNI in support of the Cathodic Protection System milestone completion, and determined that not all of the applicable information was included. ORP sent a letter to BNI requesting additional information to validate milestone complete.

Sample results for the Raw Water System were provided to BNI from the MSA for use in the mass balance calculation. BNI is currently performing the NLD mass balance. Drawings for the plant service air system were completed.

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

Facility Specific (unallocated) Monthly and Project-to-Date (PTD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	PTD BCWS	PTD BCWP	PTD ACWP	PTD SPI	PTD CPI
Oct 2009	\$1,733	\$1,205	\$1,374	0.70	0.88	\$215,317	\$214,523	\$214,779	1.00	1.00
Nov 2009	\$1,752	\$1,537	\$1,636	0.88	0.94	\$217,069	\$216,090	\$216,415	1.00	1.00
Dec 2009	\$1,921	\$1,889	\$1,428	0.98	1.32	\$218,990	\$217,979	\$217,843	1.00	1.00
Jan 2010	\$2,122					\$221,112				
Feb 2010	\$1,393					\$222,505				
Mar 2010	\$1,893					\$224,398				
Apr 2010	\$1,852					\$226,250				
May 2010	\$1,508					\$227,758				
Jun 2010	\$1,538					\$229,296				
Jul 2010	\$2,367					\$231,663				
Aug 2010	\$1,487					\$233,150				
Sep 2010	\$1,471					\$234,621				
FY - To-Date	\$5,406	\$4,631	\$4,438	0.86	1.04					

**Waste Treatment Plant Project - Percent Complete Status
Through December 2009**

(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
Facilities									
Low-Activity Waste	1,675.6	1,138.4	68%	205.8	188.4	92%	293.7	168.1	57%
Analytical Lab	635.9	306.1	48%	48.7	38.7	79%	85.8	50.5	59%
Balance of Facilities	989.4	517.7	52%	68.1	54.2	80%	219.1	121.7	56%
High-Level Waste	2,576.8	1,260.3	49%	314.6	262.3	83%	508.9	122.8	24%
Pretreatment	4,088.9	1,966.3	48%	588.1	451.9	77%	817.7	234.4	29%
Shared Services	incl. above	incl. above	incl. above	1,071.8	785.8	73%	1,338.3	870.3	65%
Undistributed Budget	9.6	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total WTP	9,976.2	5,188.8	52%	2,297.1	1,781.3	78%	3,263.5	1,567.8	48%

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.

WTP Project - KEY COMMODITY QUANTITY PROGRESS				
Commodity	Unit of Measure	Current Forecast at Completion Quantity	Installed through December 2009	Percent Complete
Concrete	1000 cy	262.31	193.40	73.7%
Structural Steel	1 ton	39,592	14,903	37.6%
Piping (in buildings)	1000 lf	912.96	169.89	18.6%
Piping (underground)	1000 lf	116.01	95.67	82.5%
HVAC Duct	1000 lbs	4,303.60	1,077.69	25.0%
Cable Tray	1000 lf	97.79	20.53	21.0%
Conduit (in buildings)	1000 lf	1,010.79	108.61	10.7%
Conduit (underground)	1000 lf	191.90	176.16	91.8%
Cable and Wire	1000 lf	4,933.07	253.21	5.1%

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

