

ORP Project Managers Meeting
 April 27, 2010
 2440 Stevens Ctr.
 Richland, Washington
Meeting Minutes Transmittal

Distribution:

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G. D. Trenchard	ORP	H6-60
J. S. Trent	ORP	H6-60
J.D. Young	ORP	H6-60
D. Becker	Ecology	H0-57
R.K. Biyani	Ecology	H0-57
T.Z. Gao	Ecology	H0-57
J. J. Lyon	Ecology	H0-57
J. D. McDonald	Ecology	H0-57
D.W. Mears	Ecology	H0-57
J. Price	Ecology	H0-57
F. Beranek	WRPS	R2-50
J. J. Luke	WRPS	R1-51
P. E. Peistrup	WRPS	R1-51
S. L. Moore	MSA	H8-12
R. E. Piippo	MSA	H8-12

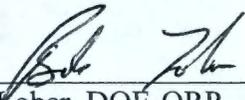
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Please send comments on distribution list to Woody Russell (Woody_Russell@orp.doe.gov).

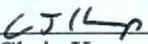
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The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above dated Project Managers Meeting.



Bob Lober, DOE-ORP

Date: 6-22-10



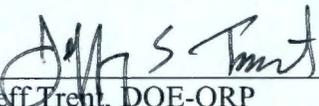
Chris Kemp, DOE-ORP

Date: 6-22-10



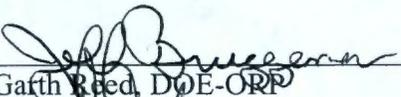
Wahed Abdul, DOE-ORP

Date: 6/22/10



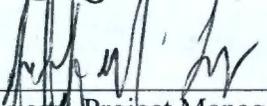
Jeff Trent, DOE-ORP

Date: 6/22/10



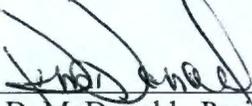
Garth Reed, DOE-ORP

Date: 6/22/10



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

Date: 7/26/10



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

Date: 6-22-10

Purpose: ORP Project Managers Meeting

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1.0 Administrative Items

Action Items: One action item (100-169) was closed at the meeting. Action 100-167 has not been completed to date. Attachment A is the current remaining open actions.

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

The next PMM is scheduled for June 22, 2010.

The next Quarterly Milestone Review Meeting is scheduled for May 20, 2010.

Administrative Record Items (Attachment D)

The WTP Balance of Facility schedule was handed out to be added to the Administrative Record.

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

Tank Farms

M-45-56F: A meeting was held on April 6, 2010 to discuss S/SX characterization results for potential barrier placement. Ecology asked that the meeting minutes be submitted for approval (Action 100-170). ORP requested that they and Ecology agree on a date in July 2010 to meet on this milestone (Action 100-171).

M-45-60: A meeting was held with Ecology on April 26, 2010 to discuss characterization schedule in WMA C. Ecology requested that these meeting minutes be submitted for approval (Action 100-172).

Ecology requested that the approved meeting minutes from Actions 170 and 172 be provided to them at the next PMM (Action 100-173).

Significant Accomplishments: ORP initiated remedial technology assessments in support of a Corrective Measures Study for WMA C. Ecology requested a meeting on this study for Thursday, April 29, 2010 (Action 100-174).

M-45-00: This milestone is being renegotiated per the ORP Consent Decree, Change Package M-45-09-01.

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M-45-00B: Mobile retrieval of C-111 has not been completed. Submittal of a work modification using a demo from the S-102 High Resolution resistivity System is done and with ORP approval.

Significant Accomplishments: Removal of the legacy saltwell pump and screen from C-111 with use a vacuuming system in hopes to achieve enhanced sluicing through an adjacent riser. C-108 flow control valves remain to be procured, but most large equipment has been procured.

Planned Activities: Ecology asked if construction of MARs with a sluicing end-effector for C-107 was on schedule. ORP stated they would not have an answer for that until early 2011 when the soil around C-107 is dug up. Ecology requested a date for beginning digging around C-107 (Action 100-175).

Issues: Ecology asked when the start of retrieval for C-111 is scheduled. ORP stated it is forecast for mid-August 2010.

Critical Path Schedule: C-104 Retrieval Start-up/Testing will start back up early 2011. It is anticipated that deployment of the vacuum arm will take it below the limit of 360. Will have two end-effectors to move or push obstructions. Ecology asked if ORP was doing anything to break up the large cobbles. In testing hard heel samples on C-108, if they are able to move the material around, the large cobbles break up.

The start date for C-111 needs to be adjusted and this status is continually updated on a monthly basis. This update frequency supports CMS planning basis for direct push access around C-110 and C-111.

The M-45-02 series of milestones is being replaced by a proposed milestone M-62-40, created by Change Request M-45-09-01 (part of the Consent Decree package).

The M-45-15 series of milestones has been at risk since the 5-21-09 quarterly report. ORP does not believe they will be able to enter the tank for another 10 years, at least. Ecology stated that a year ago they requested that if ORP knows they are unable to comply with a due date, they need to take an action to address the situation. ORP stated they will submit a Change Request to address this issue, but wants to wait until the Consent Decree and associated milestones are approved and in place.

M-45-13C: Per the March 23, 2010 PMM minutes, ORP was to provide a path forward for the Component Closure Activity Plan.

Ecology requested that, within 30 days of the Consent Decree being signed, ORP established a meeting to discuss M-15 and M-13 milestone path forward (Action 100-176).

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Interim Stabilization Consent Decree: ORP stated that a video of S-112 appears to confirm that this tank has been Interim Stabilized. An evaluation report is being prepared and, upon concurrence by ORP, will be provided to Ecology. Ecology then may decide to initiate a letter stating this tank meets Interim Stabilization criteria. ORP is waiting on the evaluation report from WRPS on this issue (Action 100-177).

Ecology asked if ORP intends on removing any more liquid with the exhauster. ORP stated the exhauster was in a power outage now, but they will use the exhauster to get the liquid down once the power is restored. Ecology asked that ORP meet with them once they have received the report from WRPS (Action 100-178). The IS quarterly report for S-102 is scheduled to be submitted to Ecology on time.

In Tank Characterization and Summary: ORP stated that revision 16 of the Compatibility DQO was released on April 5, 2010. Ecology stated they did not have this information and requested ORP place them on the transmittal cc: list in the future (Action 100-179).

242-A Evaporator Status: The campaign is scheduled to switch from shutdown to operation on April 29, 2010. ORP will check any maintenance records since the last campaign and it is anticipated waste feed should begin May 15, 2010.

M-47-00, M-90-00, and M-62-00: Nothing to report.

Contract Performance: The favorable Cost Variance is due in part to the lower costs for Drawing Reconstitution. Ecology asked what this meant and ORP stated they have not been able to come up with the drawings. Ecology asked ORP to total all areas doing Drawing Reconstitution activities (Action 100-180).

Cost and Schedule: Ecology requested that ORP provide them with more detailed budget data (Action 100-181).

General Discussion: The System Plan 5 is already completed, but when the Consent Decree milestones are approved, these are to be reviewed every three years.

Waste Treatment Plant

On April 12, 2010, BNI started a second shift of 50-70 mainly construction workers for primarily grinding and coating work in the Pre-Treatment facility. This is a full time second shift separate from what is being worked on day shift. They work four 10-hour days and plan to stay for the foreseeable future.

Material at Risk/Hydrogen in Piping and Ancillary Vessels: An independent team was here the week of April 12, 2010, looking at how codes and standards are applied to the piping in the Pre-Treatment facility. A second team looked at the design; this evaluation as a result of a request from the DNFSB.

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Ecology asked if there were any reports or comments on DNFSB's concerns. ORP stated they have not received a formal report, but their concerns are that while the WTP is consistent with the codes they may be applying them in a different manner. The DNFSB are not experts in code interpretation, so they requested this independent review. They are looking at the impact of hydrogen on components over the next several years. Ecology asked that ORP provide a more detailed explanation of the DNFSB concerns on HPAV (Action 100-182).

Pre-Treatment: ORP gave a briefing to Ecology on how the piping and vessels are to be installed. Some piping can only be installed after the vessels come in.

Ecology noted there was a large quantity of piping in the laydown yards red tagged. Also inside the LAW, one of the vessel areas had several pipes and valves red tagged. Ecology asked when this was going to be fixed and ORP stated they have a very large inventory list of red tagged items but no set schedule of when it will be addressed. The reason for the tagging could be 1) the radiographic imaging or analysis not done on some piping, 2) vendors' material certification may not be done, 3) because of some design changes. There is a sufficient amount of non-tagged piping available for the next six months.

Ecology asked if the installed red-tagged piping has any relation to the schedule and variance. ORP stated the variance does not cover what re-work needs to be applied, the budget covers any re-work and they are making allowances for additional work to take care of the red tags.

Design work on the Cesium Ion Exchange Process (CXP) system has been initiated and it is anticipated preliminary design will be done in the July time frame. A complete integration of all MAR/HPAV and CXP schedules will be available by August. The technical adequacy of the path forward for the CXP needs to be evaluated. Ecology requested that as these activities progress and a robust schedule is developed to support the permit, they are provided with this information. This is especially important if retrofit or reconfiguration may be necessary. Ecology also requested a list of items to be reviewed (Action 100-183).

ORP is attempting to have other companies do vessel design and fabrication as resources are difficult to get. The jumper form is a significant challenge – initial bids were up to three times budget. ORP is looking at the scope to see if there are changes that can be made to reduce this cost and they will be involved in any evaluation by an outside company. Ecology stated they had not seen the drawings for the jumpers or forms and requested they be provided (Action 100-184).

ORP stated their back-up plan is to have a heel removal system for these vessels and use new capabilities as part of M3. Ecology stated that the briefing they received on M3 did not talk about a back-up plan. Ecology requested an update to the M3 briefing (action 100-185).

High Level Waste Facility: The critical path effort to build-out the Filter Cave unit should be started within two years. Engineering and procurement of steel pipe and equipment and design

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of ducting was completed. Ecology asked if the vendor Flanders had been completely released from the Vendor Commercial Grade Dedication hold. ORP stated they were not sure but would check on the status of the hold.

The pipe and duct design is planned to be completed by the end of December. Ecology asked if we have any potential permit impacts and ORP stated anticipated changes to the structure should be determined very soon. They expect to see the design coming forward the second half of the year.

Ecology noted that at the last meeting one of the critical path items was the filter housing. ORP stated engineering should be completed the end of September and then could be released to the vendors to build. Decisions to consider are whether to build in place or build outside the facility and then place it inside the facility.

Ecology asked if the completion of structural steel to the 14' level completed the milestone. ORP noted that the Consent Decree milestone is not yet signed, but the contractual milestone has been met. Ecology asked that they be provided with this completion information but ORP stated they would need to discuss this with their lawyers before they could provide it (Action 100-186).

ORP noted they had installed the 50-ton shielding door in the HLW last week.

Low Activity Waste: The Request for Proposals for the Thermo-Catalytic Oxidizer (TCO) is going out today; this is on the critical path. ORP developed a streamlined procurement package for the vendor using a graded approach that met all quality requirements.

The roof on the annex is not compliant with DOE Order 420.1B (fire protection issue), but this will be addressed under the LAB discussion. We have a path forward and Ecology should receive a letter from ORP this week.

ORP noted a concern that the heat capacitors used for the Melter Pour Cave equipment may not have been accurate. There are some thermal issues mainly with the 'cup' that holds the canister. The cup retains too much heat on its surface and they may need to be re-manufactured.

Ecology asked that ORP look at the red tag piping in LAW to see if there are any trends (Action 100-187).

Analytical Laboratory (LAB): ORP noted they are late in receiving some ASX equipment but this does not affect the schedule. Ecology asked about the plugged nozzles for sampling waste. ORP stated this has been resolved and they have done additional testing. They have obtained a lot of operational data that will help in the future.

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The roof has the same issues as the LAW annex based on the DOE order for property protection. This will not happen on the HLW.

The melter assembly building and baseline is a very simple structure as a temporary metal building. The cost is approximately \$2 Million and it may be more cost effective to build a new temporary building every 5-7 years. The melters for the LAW are complete and a spare is being built.

Balance of Facility: An Issues Resolution Team has been formed between ORP and BNI to focus on the Emergency Diesel Generator (EDG). If issues cannot be resolved, they may be brought to the attention of the team to address. It is in the best interests to delay procurement of this equipment until BNI performs some testing.

Of concern is the amount of mixing necessary to keep hydrogen releases within acceptable limits. Current electrical needs are based on an assumed amount of mixing and if continual mixing is necessary the power from current back-up generators will be inadequate.

There are electrical load issues as the main power runs through the A6 substation, which delivers only 70 MW of power to the WTP. Because this substation is owned by MSA it is believed the 30% contingency is high. A tank farms contractor is performing a study and will provide a desired path forward with cost ranges

Ecology asked how much float has been used up. ORP stated the LAW has about 10 months float and BOF about 300 days. Ecology asked if there was a second LAW factored in and ORP said no. Phase 1 will address WTP issues and Phase 2 other conditions and issues related to tank farms needs.

3.0 Agreements:

No formal agreements were made at this PMM. Various commitments by ORP and Ecology are captured in Section 2.0 of these meeting minutes.

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

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Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Date Opened	Status
O	100-167	ORP	W. Russell	General	Develop spreadsheet of document deliverables, scheduling tool of when due, status of Ecology review	3-23-10	
X	100-169	ORP	J. Trent	WTP	Include CPI and SPI in future status report performance charts for WTP.	1-25-10	Closed: 4/27/10 Action: ORP stated this has been completed.
O	100-170	ORP	R. Lober	Tank Farms	Provide Ecology with meeting minutes for approval on M-45-56F mtg. held 4-6-10.	4-27-10	
O	100-171	ORP/ ECY	J. Lyon/ R. Lober	Tank Farms	Ecology and ORP agree on a date in July to meet on M-45-56F.	4-27-10	
O	100-172	ORP	R. Lober	Tank Farms	Provide Ecology with meeting minutes for approval on characterization schedule in WMA C mtg. held 4-26-10.	4-27-10	
O	100-173	ORP	R. Lober	Tank Farms	Provide Ecology with approved meeting minutes from Actions 170 and 172 at next PMM.	4-27-10	
O	100-174	ORP/ ECY	J. Lyon/ R. Lober	Tank Farms	Set up a meeting on 4-29-10 with Ecology on Corrective Measures Study for WMA C.	4-27-10	
O	100-175	ORP	C. Kemp	Tank Farms	Provide Ecology a date for beginning digging around C-107.	4-27-10	
O	100-176	ORP	C. Kemp	Tank Farms	Within 30 days after the CD is signed, set up a meeting to discuss the M-15 and M-13 milestone path forward.	4-27-10	
O	100-177	ORP	J. Long	Tank Farms	Provide Ecology with the WRPS evaluation report on S-112.	4-27-10	
O	100-178	ORP	J. Long	Tank Farms	Once the report from Action 100-177 is received, schedule a meeting with Ecology.	4-27-10	

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

ATTENDANCE

DATE: 4-27-10

ISSUE: ORP Project Managers Meeting

NAME	COMPANY	PHONE #	POSITION
JAMES J. LYNCH	ORP	376-4170	Gen. Engineer
JOHN LONG	ORP	376-5416	Gen. MGR 61 A.27-10
Bob Loba	ORP	373-7949	Vadose Zone Project
Mike Barnes	Ecology	372-7927	chemist
Dan McDonald	Ecology	372-7988	PM
JOE CAGGIANO	"	372-7915	HYDROGEOLOGIST
Jeff Luke	WRPS	376-8679	Regulatory
Chris Kemp	ORP	373-0649	Physical Scientist
Jeff Lyon	Ecology	539-1996	Project Manager
Jane Dudzik	ORP	372-3043	R
ILYN TRENKARD	ORP	373-4016	AMIF
Woods Russell	ORP	373-5227	
Nancy Izzentto	Ecology	372-7928	
Jeff Trent	ORP	205-7116	HLWG FPD
Jason Young	ORP	376-0375	HLW OFPD
Delmar Noyes	ORP	376-5166	WTP Deputy
WAMED ABDUL	ORP	438-0455	WTP PT-FPD
Gary Olsen	ORP	438-4707	LBL-FPD
TRACY GAO	Ecology	372-7901	
DAVE MEARS	ECOLOG	372-7899	WTP LEAD DESIGN ENGR
DAVID BECKER	ECY	372-7990	HLW Fac.
Robbie Biyani	ECY	372-7884	PTF Engineer
John Price	ECY	372-7927	TPA Admin
ROB PIERCE	MSA	373-3285	TPA Admin

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Attachment C: Presentation Materials

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

Office of River Protection

Tri-Party Agreement
Monthly Milestone Review Meeting
April 27, 2010



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

Agenda

Office of River Protection
Tri-Party Agreement
Monthly Milestone Review Meeting
ORP Conference Room 1200
April 27, 2010
9:00 a.m. – 11:30 a.m.

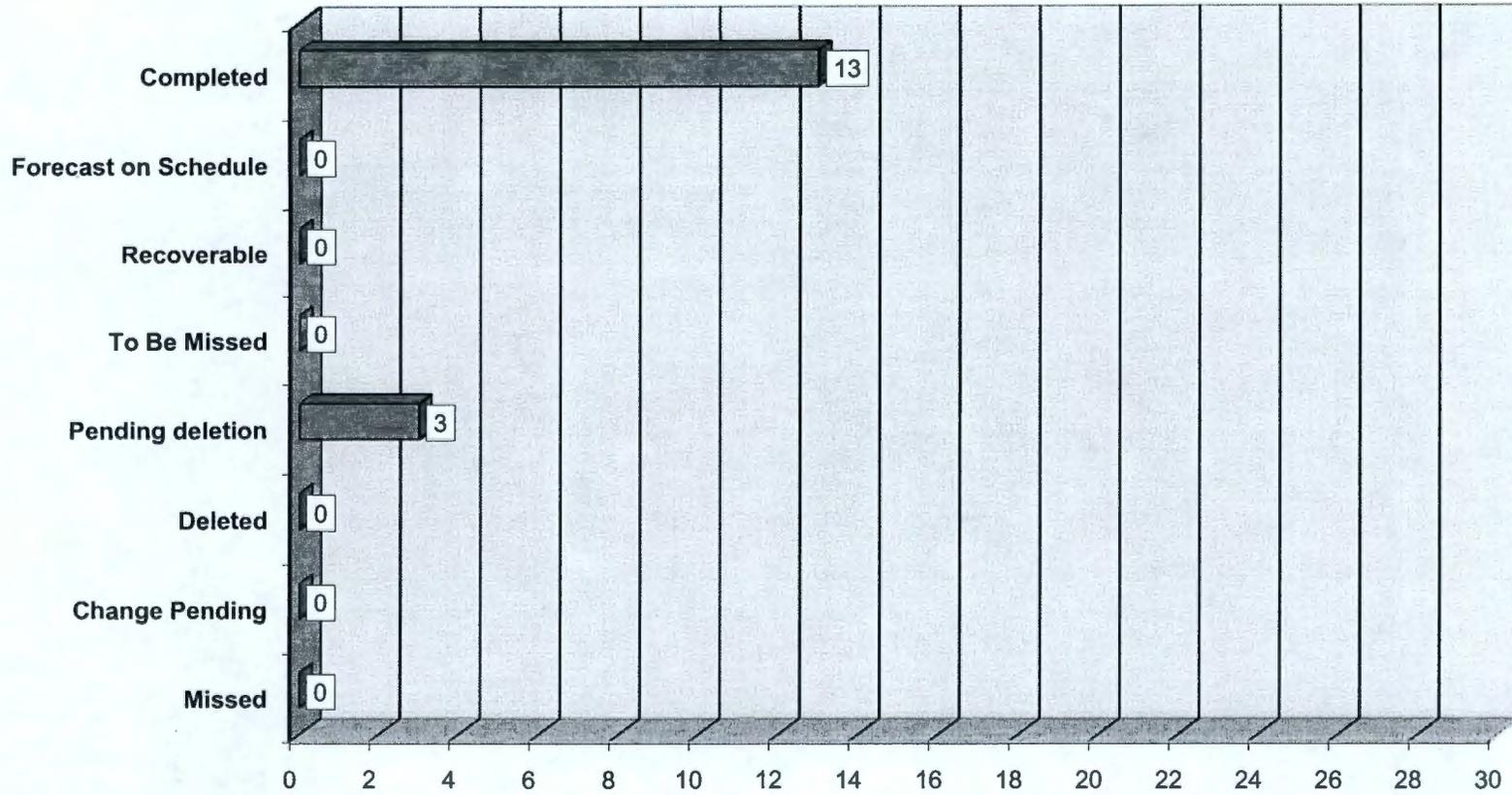
Page	Topic	Leads	Time
39	M-45, -50, -60 Single-Shell Tank Corrective Action	Bob Lober / Joe Caggiano	9:00
41	M-45-00, Complete Closure of All Single-Shell Tank Farms	Chris Kemp / Jeff Lyon	9:10
48	M-62-40, Tank Waste System Plan	Chris Kemp / Michelle Hendrickson	9:20
53	Interim Stabilization Consent 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 Hendrickson	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

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	

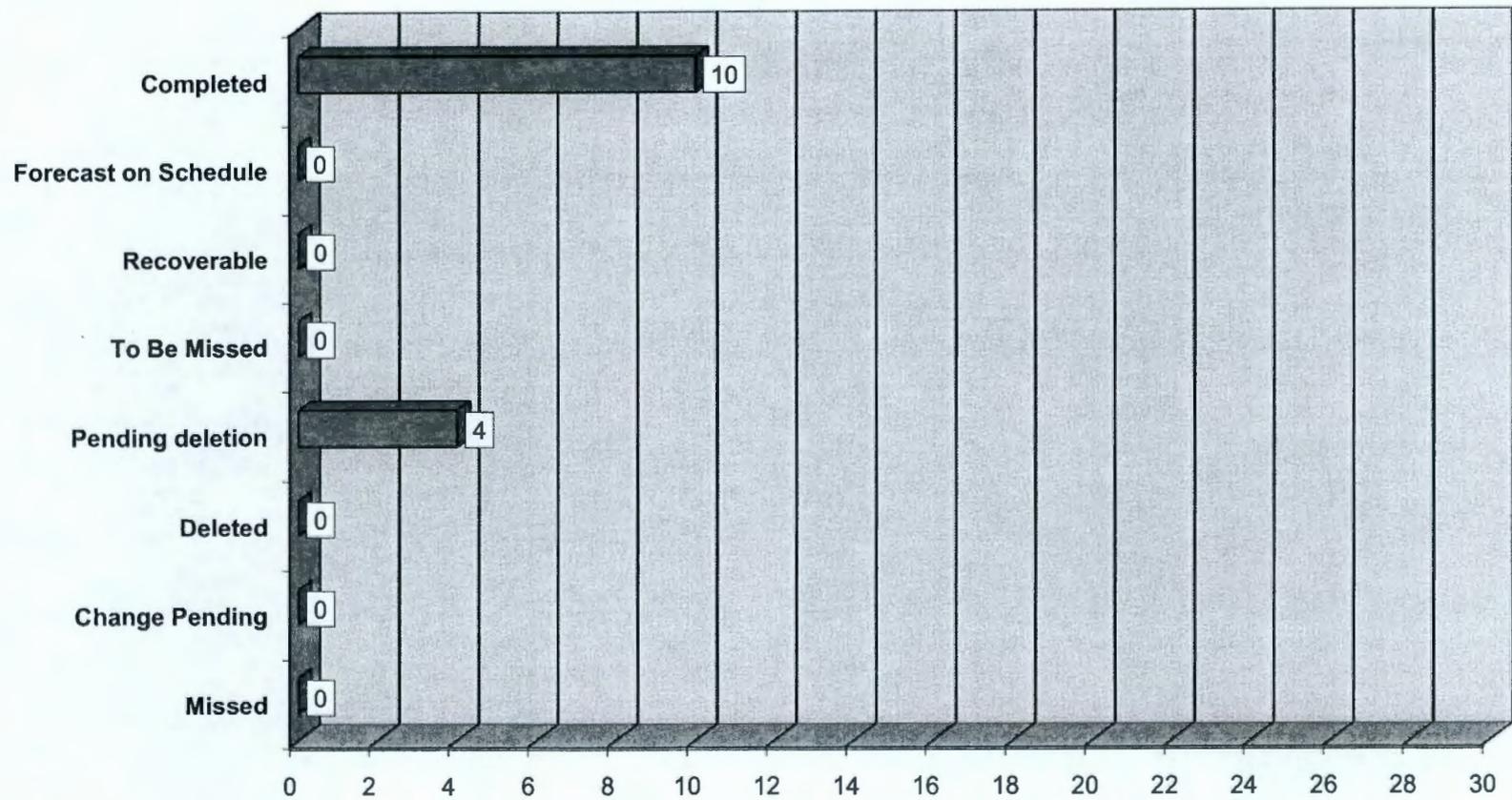
Fiscal Year 2006 Tri-Party Agreement Milestone Status

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

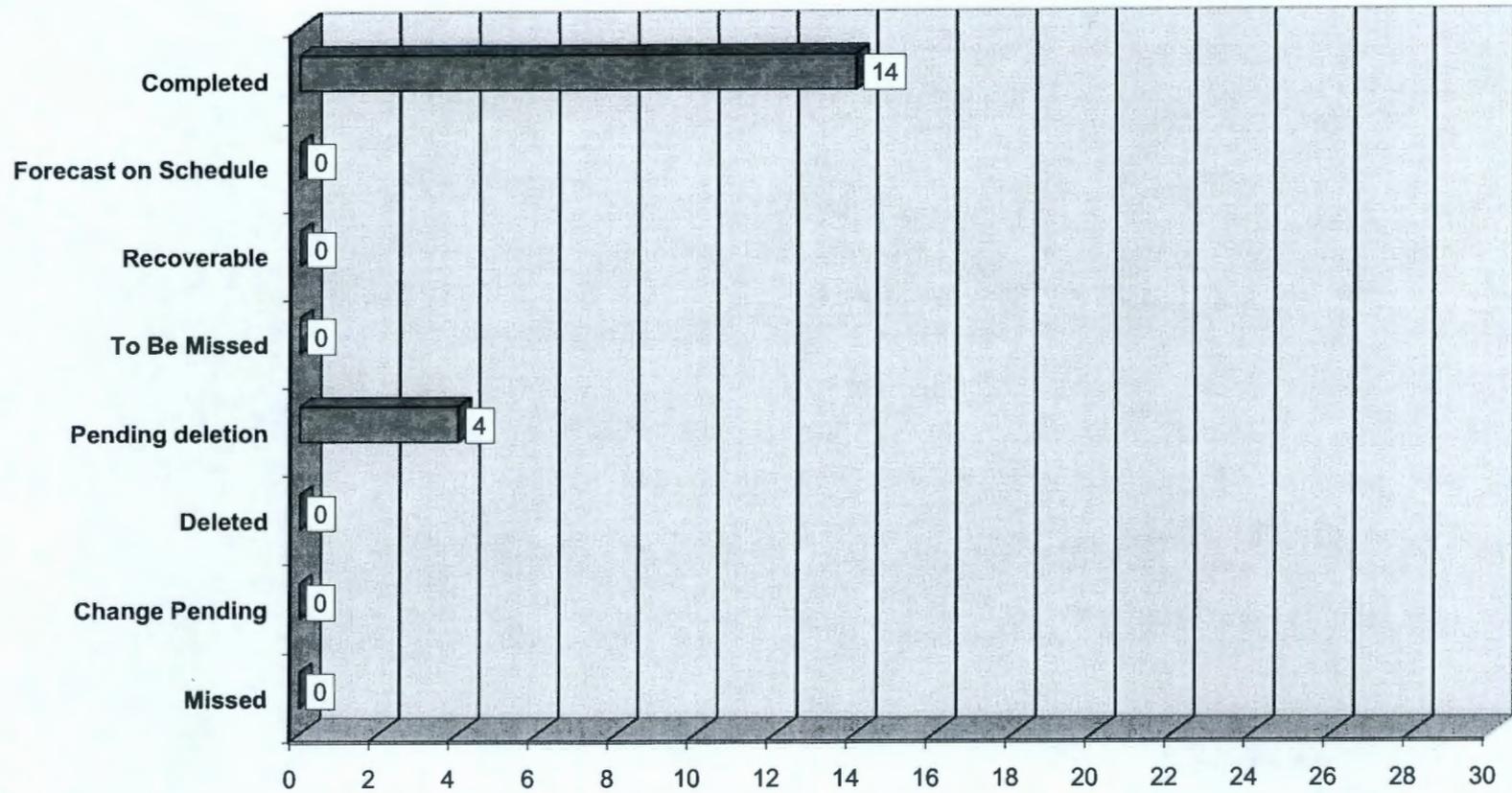
Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
	S-102.										
D-001-00-R32	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities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

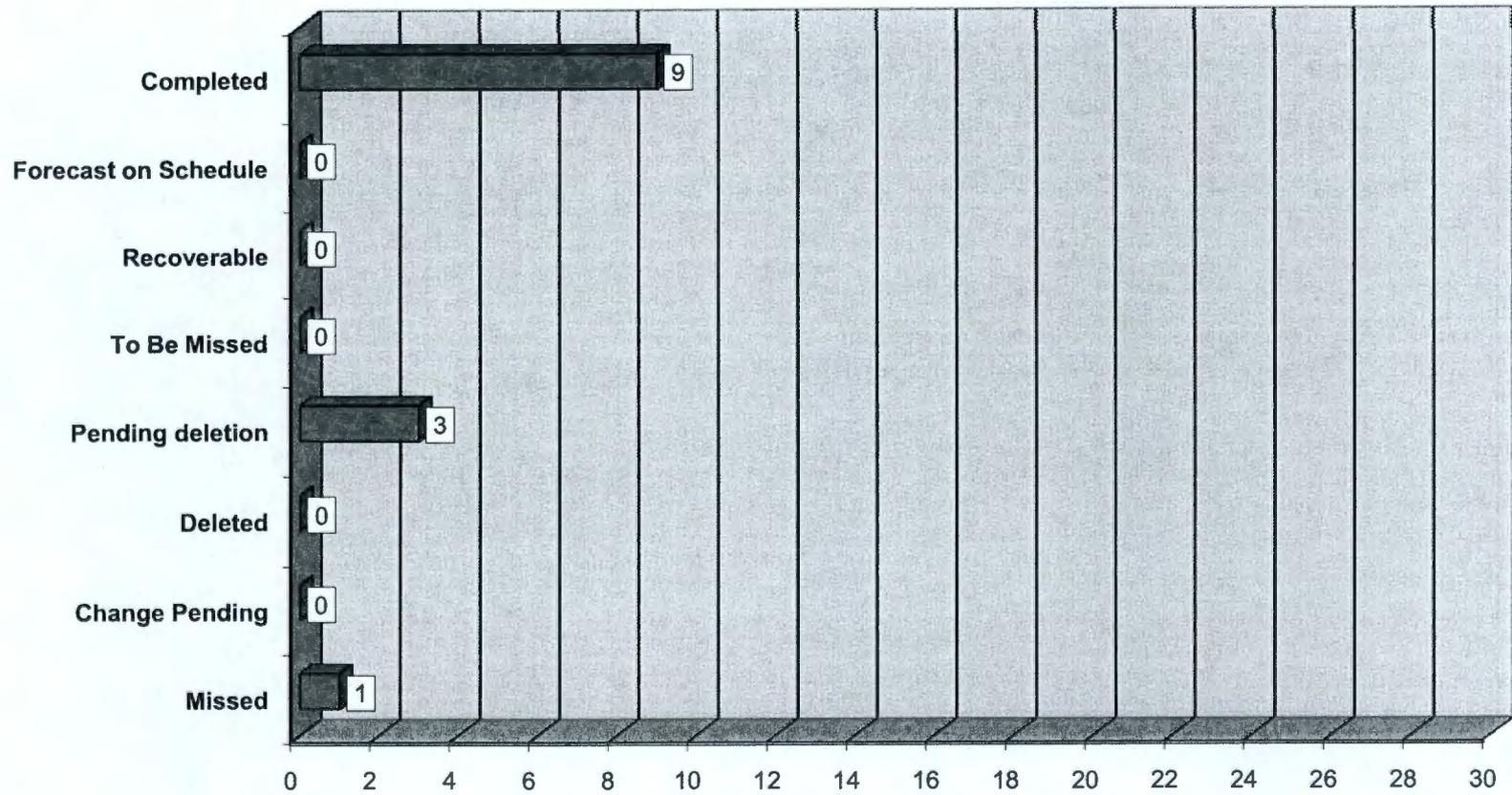
Fiscal Year 2008 Tri-Party Agreement Milestone Status

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

Fiscal Year 2008 Tri-Party Agreement Milestone Status

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

FY 2009 MILESTONE PERFORMANCE



Fiscal Year 2009 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R38	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	10/31/08	10/28/08								
M-045-58	Submit to Ecology for Review and Approval as an Agreement Primary Document Phase 2 Master Work Plan that describes the proposed approach for the completion of Corrective Action to meet final closure requirements in the Waste Management Areas as described in Appendix I, Section 2.3	12/31/08	12/18/08								
M-045-60	Submit to Ecology for review and approval as an agreement primary document, DOE's Phase 2 RFI/CMS Work Plan and Sampling and Analysis Plan (SAP) for WMA C.	12/31/08	12/18/08								
M-062-01R	Submit Semi-Annual Project Compliance Report	01/31/09	01/30/09								

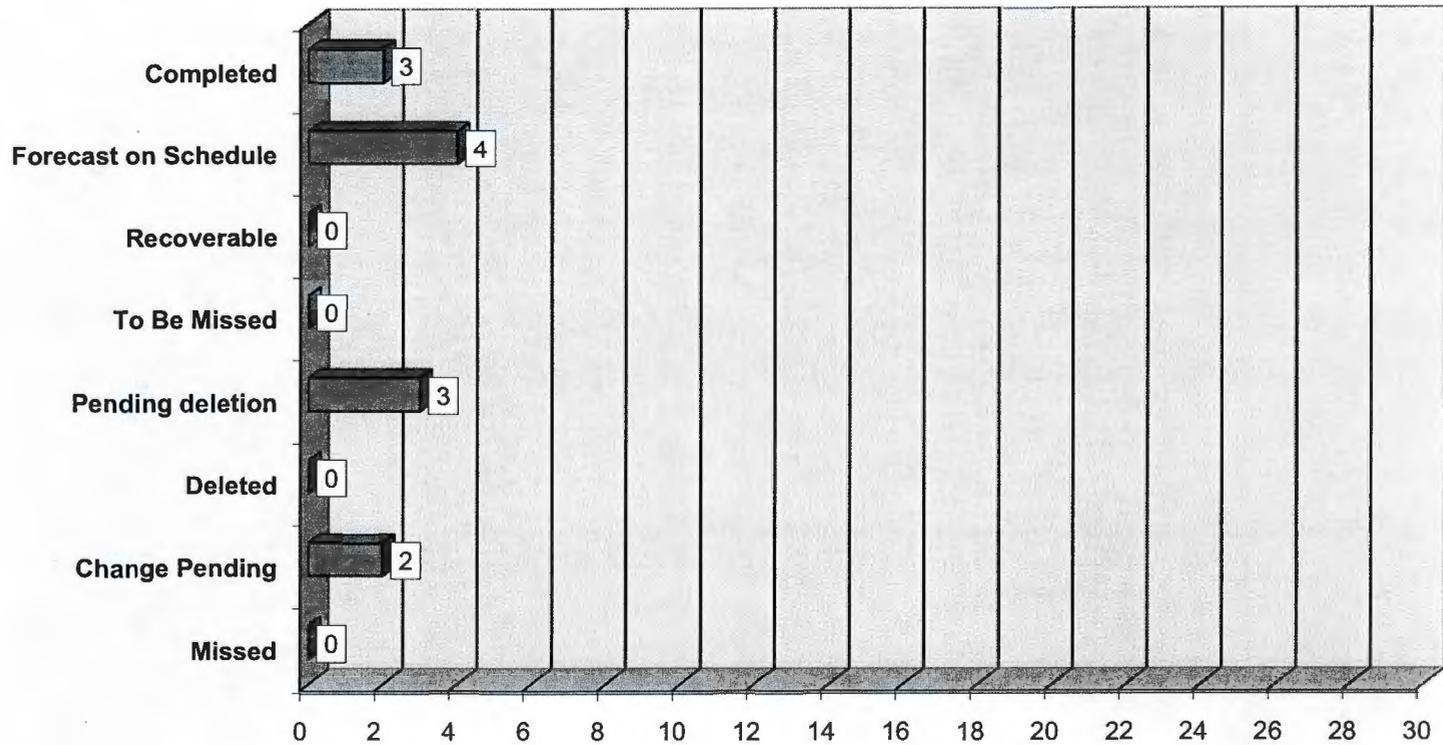
Fiscal Year 2009 Tri-Party Agreement Milestone Status

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

Fiscal Year 2009 Tri-Party Agreement Milestone Status

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

FY 2010 MILESTONE PERFORMANCE



Fiscal Year 2010 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00R-42 (existing)	Quarterly Report	10/31/09	10/28/09								
D-001-00R-43 (existing)	Quarterly Report	01/31/09	1/28/10								
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	1/29/10								
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

Tank Farm Project Executive Summary

February 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.

PROJECT PERFORMANCE

The Tank Operating Contractor Contract-To-Date (CTD) cost performance index (CPI) through February is 1.06 with a schedule performance index (SPI) of 0.99. The Fiscal Year 2010 CPI through February is 1.06 with a SPI of 1.04.

The Current month (CM) performance was favorable with a CPI of 1.01 and a SPI of 1.14. The CM SPI is a result of successful waste retrieval operations in SST C-104 and accelerated Tank Farm upgrades.

The unfavorable CTD schedule variance (SV) of (-\$4,293k) is primarily driven by delays in C Farm retrieval operations, Lithium Bayer Pretreatment Program Technology Development and Deployment (TDD) funding delays, and deferral of the Hanford Immobilized high-level waste Storage Facility to the first quarter of FY 2011. Continued schedule recovery efforts were successful this month with a CM favorable SV of \$4.3M. The TOC is currently ahead of the target SV recovery plan by \$5.5M. All FY 2010 SV has been recovered and WRPS has significantly reduced the SV carryover from FY09. Recovery plan effectiveness is being reviewed with DOE Office of River Protection (ORP) on a biweekly basis.

TOC PERFORMANCE

WRPS February Project Performance - (\$k)								
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC
CM	30,345.3	34,634.2	34,416.4	4,288.9	217.7	1.14	1.01	
FYTD	141,815.4	146,987.3	138,885.6	5,171.8	8,101.7	1.04	1.06	469,664.8
CTD	428,555.1	424,262.0	400,553.2	(4,293.1)	23,708.8	0.99	1.06	2,071,261.0
Red shaded cells indicates a SPI/CPI less than .90; Green shaded cells indicate a SPI/CPI between .90 and .99; and Blue shaded indicates a SPI/CPI greater than or equal to 1.								

TOC CM favorable SV of \$4,289k:

Recovery Act, \$2,249k: 1) subcontractor design work has progressed faster than planned and realignment of the *Core Sampling Platform* work scope was implemented; 2) the acceleration of the *242-A Evaporator PC-5000 Leak Detection Upgrades* is five months ahead of schedule and the vendor's *Preliminary Design Package of the Exhauster Upgrade* is ahead of schedule from the plan which is in July and August 2010; and 3) Incorporated AP and SY Exhauster scope revisions related to di-methyl mercury emissions guidelines issued by the Department of Ecology.

Retrieval and Closure, \$1,932k: 1) *C-104 Retrieval*, as retrieval rates exceeded the engineering retrieval model (allowing operations to reach in excess of 25% retrieved quicker than expected); and 2) *Surface Geophysical Exploration (SGE)* work at UPR-86 in C-Farm was performed ahead of schedule. This scope was scheduled to be completed during the last quarter of this fiscal year.

TOC CM favorable CV of \$218k:

Retrieval and Closure, \$1,821k: 1) *C-104 Retrieval* efficiencies were realized during retrieval operations; 2) *SGE* efficiencies were realized in A/AX Farm resulting from utilizing current conduction rather than placing above-ground electrodes minimizing site preparation and field time; and 3) *SGE* efficiencies realized at UPR-86 in C-Farm due to using multi-level electrodes that were placed during previous direct push field work activities.

Offsets to the favorable variance are primarily due to:

Business Services, (\$761k): 1) *Facility and Property Management*, (\$908k): primarily in subcontracts due to delayed placement of contracts for the 2704HV Mobile Office Complex from FY09 into FY10, resulting in contractor work pushed later than planned and work now completing that was budgeted in FY09.

Recovery Act, (\$715k): 1) Recovery Act Management and oversight costs and oversight: Engineers, Health Physics Technicians (HPTs), Nuclear Chemical Operators (NCOs), and IH/STs charging their qualification and certification training to this account and the cost for Project Support ROS personnel are higher than planned.

TOC CTD unfavorable SV of (\$4,293k):

Retrieval and Closure, (\$3,950k): 1) *C-104 Retrieval* delays in construction and initial retrieval operations due to problems with AN-101 Hot Operational Acceptance Test (OAT), the AN-101 supernatant pump over-pressurization protection, frozen water lines, and the repair of the Pressure/Flow Indicators in the POR138 Valve Box. Mass balance discrepancies, AN-101 pump nitrogen seals, and vapor issues were also addressed prior to initiating retrieval; 2) *C-111 Retrieval* construction delays resulting from equipment removal as objects were blocking tank risers and receipt of procured equipment was received later than planned.

WFD/Treatment Planning/DST Retrieval/Closure, (\$1,965k): 1) the *Lithium/Bayer Pretreatment Program and Next Generation* activities were delayed as funding was not received from EM-30 as planned which prevented work

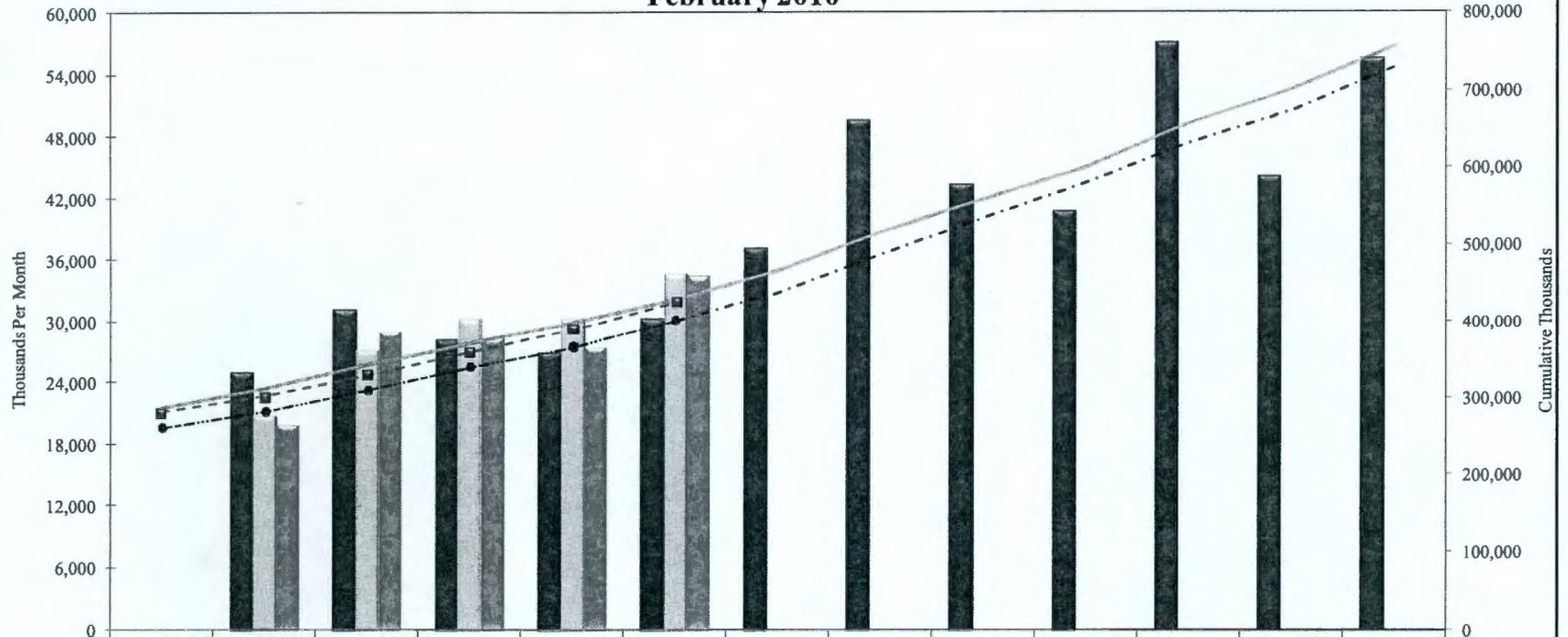
from progressing as originally planned; 2) the *Hanford IHLW Storage Conceptual Design* was stopped and deferred into the first quarter of FY 2011; as originally planned.

TOC CTD favorable CV of \$23,709k:

Recovery Act, \$16,427k: 1) lower than anticipated allocation of applicable *G&A/COP* costs than planned; 2) lower labor rates and quantity of ROS personnel and subcontractors than initially planned for *Program Management* accounts; 3) efficiencies during the *Vent Reliability Study* which found the AN exhauster evaluation bounds all the HVAC systems and efficiently resolving National Electric Code (NEC) issues in SY Farm due to the assignment of a dedicated team; 4) *Drawing Reconstitution* costs are less than planned due to a lower field rate for ROS personnel and efficiencies gained through tank farm walk downs; 5) less training cost than planned due to RA hiring delays; and 6) continued vacant positions in the Engineering Program which TOC continues to seek qualified candidates.

Business Services, \$7,108k: 1) elimination of *Business & Operating (B&O)* tax related to the high technology tax credit; 2) *vacant positions* in craft and other facilities support personnel and the cost efficiencies related to the 2704 HV Mobile Office Project; and 3) lower than planned computer requirements for Recovery Act staff and cost savings experienced by purchasing materials from Yucca Mountain.

FY10 WRPS Cumulative-to-Date Performance (\$k) February 2010



	FY 09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10
■ CM Plan (BCWS)		24,992	31,267	28,227	26,984	30,345	37,175	49,638	43,431	40,742	57,126	44,153	55,586
▒ CM Perf (BCWP)		20,677	27,086	30,260	30,306	34,634							
▓ CMActuals (ACWP)		19,801	28,941	28,292	27,436	34,416							
— CTD Plan (BCWS)	286,740	311,732	342,999	371,226	398,210	428,555	465,730	515,368	558,799	599,540	656,666	700,819	756,404
-■- CTD Perf (BCWP)	281,299	301,976	329,062	359,322	389,628	424,262							
● CTD Actuals (ACWP)	261,668	281,468	310,409	338,701	366,137	400,553							
-.- CTD Actuals/FY ETC	261,668	281,468	310,409	338,701	366,137	400,553	437,892	487,658	534,767	579,866	630,693	673,639	729,805

CONTRACT-TO-DATE PERFORMANCE MEASUREMENT - 10/2008 - 02/2010

BY WORK BREAKDOWN STRUCTURE

Dollars in Thousands

		Cumulative Contract-To-Date			Variance				Budget at Completion (BAC)
WBS	TITLE	Budgeted Cost		Actual Cost	Schedule	SV%	Cost	CV%	
		Work Scheduled	Work Performed	Work Performed					
5.1	BASE OPERATIONS								
5.1.1	Base Operations	102,799.0	103,595.4	104,795.7	796.4	0.8%	-1,200.3	-1.2%	397,624.5
5.1.2	DST Space Management	8,903.7	8,798.7	11,099.5	(105.0)	-1.2%	-2,300.8	-26.1%	41,411.4
5.1.3	TOC Facility Operations	34,215.8	34,168.0	31,867.5	(47.8)	-0.1%	2,300.5	6.7%	148,849.1
5.1.4	Tank Farm Upgrades	18,409.4	19,241.5	14,262.2	832.1	4.5%	4,979.3	25.9%	123,077.5
5.1.5	Project Support	<u>141,381.4</u>	<u>140,348.0</u>	<u>127,852.3</u>	<u>(1,033.4)</u>	<u>-0.7%</u>	<u>12,495.7</u>	<u>8.9%</u>	<u>521,406.3</u>
	TOTAL	<u>305,709.3</u>	<u>306,151.6</u>	<u>289,877.2</u>	<u>442.3</u>	<u>0.1%</u>	<u>16,274.4</u>	<u>5.3%</u>	<u>1,232,368.8</u>
5.2	RETRIEVE AND CLOSE SSTs								
5.2.1	Retrieval/Closure Program	44,472.6	43,874.0	39,847.6	(598.6)	-1.3%	4,026.4	9.2%	162,557.5
5.2.2	SST Retrieval East Area	34,481.4	30,800.1	37,507.3	(3,681.3)	-10.7%	-6,707.2	-21.8%	202,710.5
5.2.3	SST Retrieval West Area	996.2	1,217.7	927.1	221.5	22.2%	290.0	23.8%	3,544.0
5.2.4	Closure Program	2,043.5	2,009.3	1,702.8	(34.2)	-1.7%	306.5	15.3%	8,964.9
5.2.5	SST Closure	<u>1,388.9</u>	<u>1,145.9</u>	<u>523.5</u>	<u>(243.0)</u>	<u>-17.5%</u>	<u>622.3</u>	<u>54.3%</u>	<u>23,181.9</u>
	TOTAL	<u>83,382.6</u>	<u>79,047.0</u>	<u>80,508.3</u>	<u>(4,335.6)</u>	<u>-5.2%</u>	<u>1,461.9</u>	<u>-1.8%</u>	<u>400,958.8</u>
5.3	WFD/TREATMENT PLNG/DST RETRIEVAL/CLOSURE								
5.3.1	WTP Feed Delivery Program	17,652.1	18,017.8	13,325.9	365.7	2.1%	4,691.9	26.0%	86,151.7
5.3.2	Construct DST Retrieval Systems	5,134.6	5,037.3	4,512.7	(97.3)	-1.9%	524.6	10.4%	102,852.1
5.3.3	RA - Transfer System Mod Project	1,195.3	2,175.2	1,928.3	979.9	82.0%	246.9	11.4%	20,732.2
5.3.6	Immobilization Program	3,517.6	3,153.0	1,950.7	(364.6)	-10.4%	1,202.3	38.1%	54,822.3
5.3.7	WTP Operational Readiness	3,015.5	3,010.1	2,662.3	(5.4)	-0.2%	347.8	11.6%	16,019.4
5.3.8	East Area Waste Receiving Facility	490.8	427.3	149.9	(63.5)	-12.9%	277.4	64.9%	490.8
5.3.9	Tank Waste Pretreatment Project	1,652.5	773.3	650.4	(879.2)	-53.2%	122.9	15.9%	30,836.3
5.3.10	Secondary Waste Treatment/ETF	3,106.9	3,098.2	2,678.7	(8.7)	-0.3%	419.5	13.5%	37,291.1
5.3.11	Next Generation Projects	<u>2,851.5</u>	<u>2,747.5</u>	<u>1,845.6</u>	<u>(104.0)</u>	<u>-3.6%</u>	<u>901.9</u>	<u>32.8%</u>	<u>51,784.5</u>
	TOTAL	<u>38,616.8</u>	<u>38,439.7</u>	<u>29,704.5</u>	<u>(177.1)</u>	<u>-0.5%</u>	<u>8,735.2</u>	<u>22.7%</u>	<u>400,980.4</u>
5.4	SUPPLEMENTAL TREATMENT								
5.4.1	Supplemental Treatment	<u>846.2</u>	<u>623.8</u>	<u>462.5</u>	<u>(222.4)</u>	<u>-26.3%</u>	<u>161.3</u>	<u>25.9%</u>	<u>23,500.7</u>
5.5									
5.5.2	Waste Treatment Facility	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0%</u>	<u>0.0</u>	<u>0.0%</u>	<u>13,452.20</u>
TOC TOTAL		<u>428,555.1</u>	<u>424,262.0</u>	<u>400,553.2</u>	<u>(4,293.1)</u>	<u>-1.0%</u>	<u>23,708.8</u>	<u>5.6%</u>	<u>2,071,261.00</u>

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

I. Near-Term Deliverables:

- **M-45-55, Submit to Ecology for Review and Approval as an Agreement primary document a Phase 1 RFI Report**
Due: 1/31/08
Status: Complete. RFI in primary document revision process. DOE revised RFI, based on Ecology comments and resubmitted to Ecology on 10/07/09. 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 incorporates new data. All revisions will be provided to Ecology by April 30, 2010.
- **M-45-56E, Complete Implementation of Agreed to Interim Measures**
Due: 07/31/09
Status: Complete. ORP and Ecology met on July 21, 2009 to discuss completed FY2008 interim measures and future FY2009 anticipated activities. July 2009, meeting minutes drafted and jointly reviewed with signature obtained at January 2010 PMM. 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 has been initiated. The annual barrier monitoring report PNNL-19123, "T Tank Farm Interim Surface Barrier Demonstration - Vadose Zone Monitoring FY09 Report", has been released. Met with Ecology on submitted 2009 Well Decommissioning plan, identified in the 2009 M45-56 meeting deliverables. Meeting minutes noted Ecology approval of approach. Meeting minutes were signed during the March 2010 PMM.
- **M-45-56F, Complete Implementation of Agreed to Interim Measures**
Due: 07/31/10
Status: Meeting scheduled with Ecology on April 6, 2010 to discuss S/SX characterization results for potential barrier placement. Meeting minutes will be taken and submitted for May 2010 PMM. ORP requests Ecology to provide an available date in July 2010 for M-45-56F by the May 2010 PMM.
- **M-45-58, Submit to Ecology for Review and Approval as an Agreement primary document, a phase 2 CMS Master Work Plan**
Due: 12/31/08
Status: Complete. Master Work Plan is in the Primary document revision process. DOE provided comment resolutions to Ecology on 10/13/09. Ecology provided clarification to comments by letter on December 10, 2009. ORP

provided updated Master Work Plan, based on January 6, 2010 Ecology meeting on proposed comment responses on March 11, 2010. Ecology notified ORP on March 30, 2010 to extend their review an additional 30 days till May 14, 2010 due to staff workload.

- **M-45-60, Submit to Ecology for review and approval as an Agreement primary document DOE's Phase 2 RFI/CMS Work Plan and Sampling and Analysis Plan (SAP) for WMA C**
Due: 12/31/08
Status: Complete. ORP updated RFI/CMS Workplan and Sampling and Analysis Plan based on Ecology comments and resubmitted to Ecology, with approved Ecology RCRs on November 2, 2009 (letter 09-TPD-118). Ecology approved the Work Plan on March 29, 2010 and requested meetings to discuss characterization schedule in WMA C. A meeting has been scheduled with Ecology on April 26, 2010. Meeting minutes will be taken and submitted at May 2010 PMM.
- **M-45-61, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 RCRA Facility Investigation/Corrective Measures Study Report for WMA C**
Due: 12/31/10
Status: At Risk. See issues below. Proposed milestone M-045-61 (HFFACO Change Control Form M-45-09-01) will revise the due date for this document to 12-31-2014.
- **M-45-62, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 Corrective Measures Implementation Work Plan for WMA C**
Due: 7/31/12
Status: At Risk. See issues below. Proposed milestone M-045-62 (HFFACO Change Control Form M-45-09-01) will revise the due date for this document to 6-30-2015.

II. Significant Accomplishments:

- T-Farm interim barrier monitoring continues; annual monitoring report issued.
- TY Interim Barrier Construction Continues.
 - Monitoring equipment for the TY barrier has been placed.
 - Initiated excavation of evapo-transpiration pond for TY barrier
 - Continued re-baseline of soil moisture and gamma logging at TY farm.
- Continued direct push characterization in C Farm per the Phase 2 RFI/CMS work plan and SAP for WMA C.
- Continued Direct Push in support of interim barrier development in S-SX.
- Continued the joint process with Ecology and other regulatory agencies and stakeholders to define the inputs, approaches, assumptions and methods that will be used for development of a performance assessment for Waste Management Area C.
- Continued data analysis of well-to-well SGE Survey of A and AX Farms, in support of potential interim barriers.
- Initiated remedial technology assessments in support of a Corrective Measures Study for WMA C.

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 analysis of well-to-well SGE survey of A and AX Farms to support evaluation of a potential future barrier site.
- Complete direct push sampling in S Farm based on findings of SGE analysis of SX data, to support evaluation of a potential future barrier site
- Complete construction of an interim surface barrier at TY farm.
- Initiate 3-D SGE survey of SE portion of S farm.
 - Continue 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
Status: To Be Missed
- **M-45-05, Retrieve Waste from all Remaining Single-Shell Tanks**
Due: 9/30/18
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T05, Initiate Tank Retrieval from Five Additional Single-Shell Tanks**
Due: 9/30/07
Status: Missed.
- **M-45-05-T06, Initiate Tank Retrieval from Five Additional Single-Shell Tanks**
Due: 9/30/08
Status: Missed.
- **M-45-05-T07, Initiate Tank Retrieval from Seven Additional Single-Shell Tanks**
Due: 9/30/09
Status: Missed

- **M-45-05-T08, Initiate Tank Retrieval from Eight Additional Single-Shell Tanks**
Due: 9/30/10
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T09, Initiate Tank Retrieval from Ten Additional Single-Shell Tanks**
Due: 9/30/11
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T10, Initiate Tank Retrieval from 12 Additional Single-Shell Tanks**
Due: 9/30/12
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T11, Initiate Tank Retrieval from 14 Additional Single-Shell Tanks**
Due: 9/30/13
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T12, Initiate Tank Retrieval from 17 Additional Single-Shell Tanks**
Due: 9/30/14
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T13, Initiate Tank Retrieval from 20 Additional Single-Shell Tanks**
Due: 9/30/15
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T14, Initiate Tank Retrieval from 20 Additional Single-Shell Tanks**
Due: 9/30/16
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T15, Initiate Tank Retrieval from 20 Additional Single-Shell Tanks**
Due: 9/30/17
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-06, Complete Closure of all Single-Shell Tank Farms in Accordance with Approved Closure/Post Closure Plan(s)**
Due: 9/30/24
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-06-T03, Initiate Closure Actions on a WMA Basis**
Due: 3/31/12
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-06-T04, Complete Closure Actions on one WMA**
Due: 3/31/14
Status: To Be Missed (based on current DOE Baseline planning).

II. Significant Accomplishments

- Retrieved C-104 to ~75% complete.
- Initiated stack extension design and procurement for POR008 and POR003 in C-Farm.
- Continued design activities for C-112 sluicing system.
- Removed legacy saltwell pump and screen from C-111.
- Continued design and initiated procurements for C-108 Hard Heel Retrieval System.
- Continued C-111 procurement and construction activities

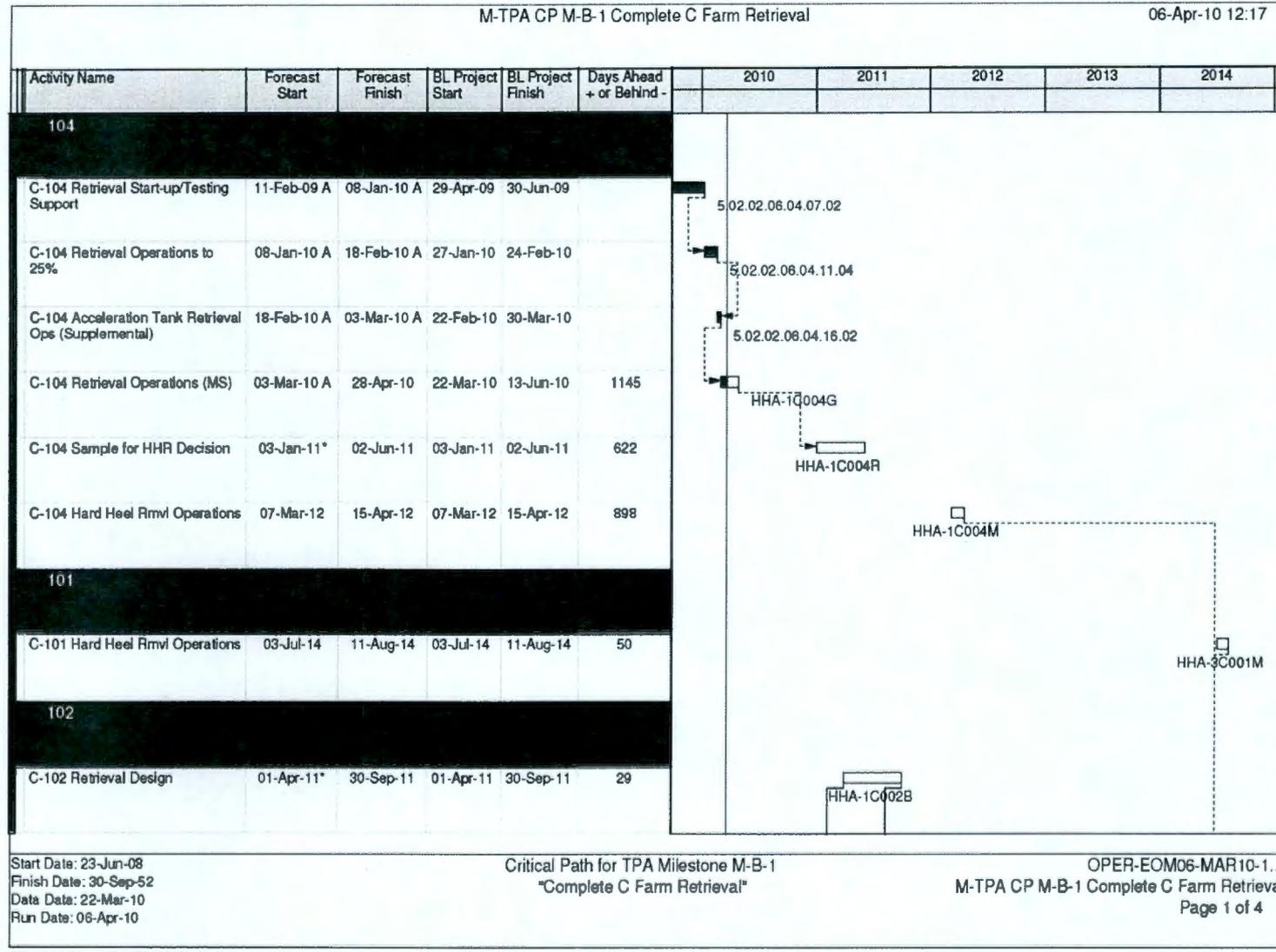
III. Significant Planned Activities in the Next Six Months

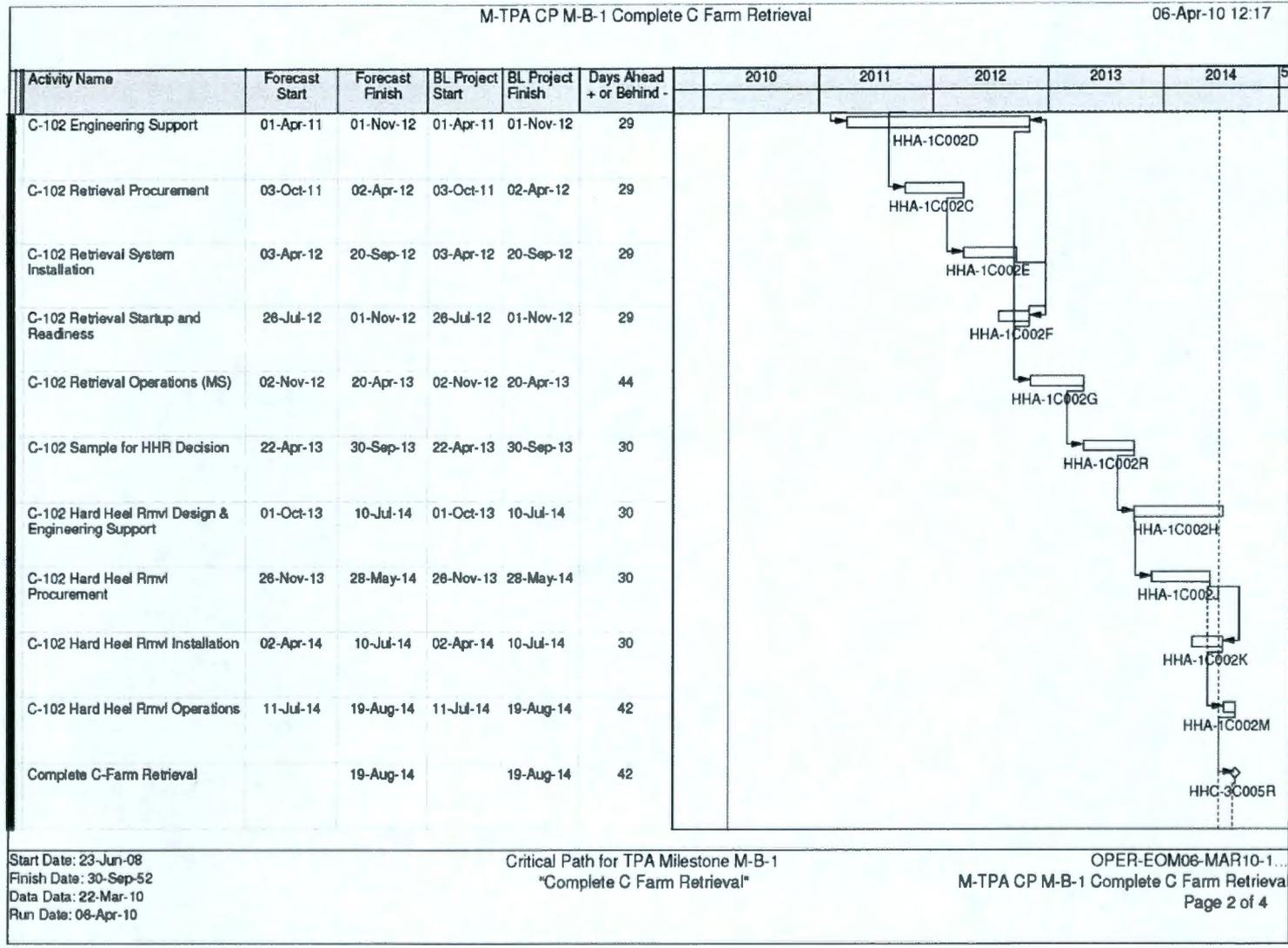
- Obtain C-109 and C-110 heel samples
- Complete construction of MARs with a sluicing end-effector for C-107 retrieval.
- Achieve 'interim stabilized' liquid levels on S-102. Issue interim stabilization documentation.
- Complete design for C-108 Hard Heel Retrieval system, and initiate construction along with start up of retrieval activities.
- Complete C-111 construction and initiate retrieval.
- Complete C-112 design and initiate procurement.

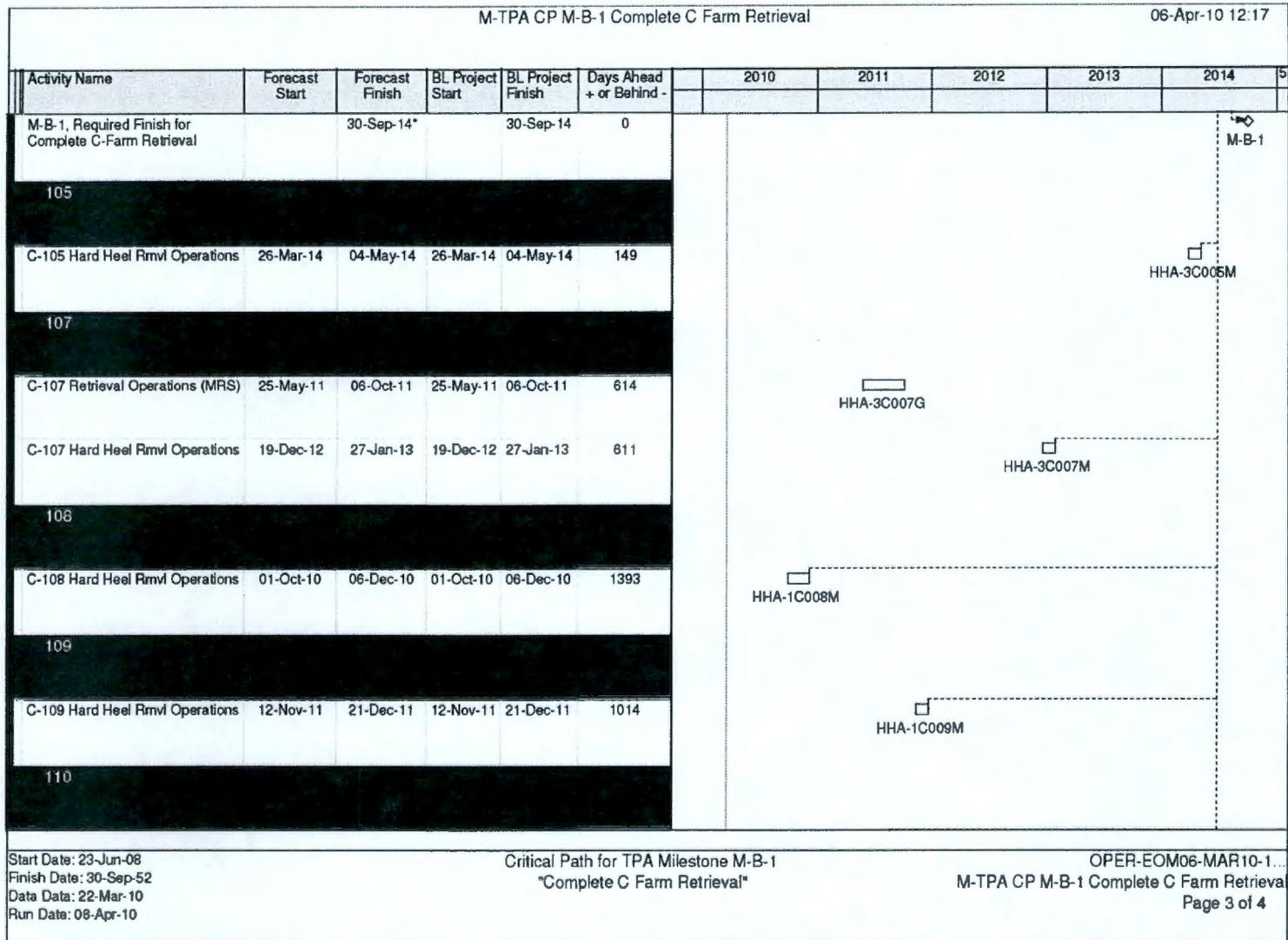
IV. Issues

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

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

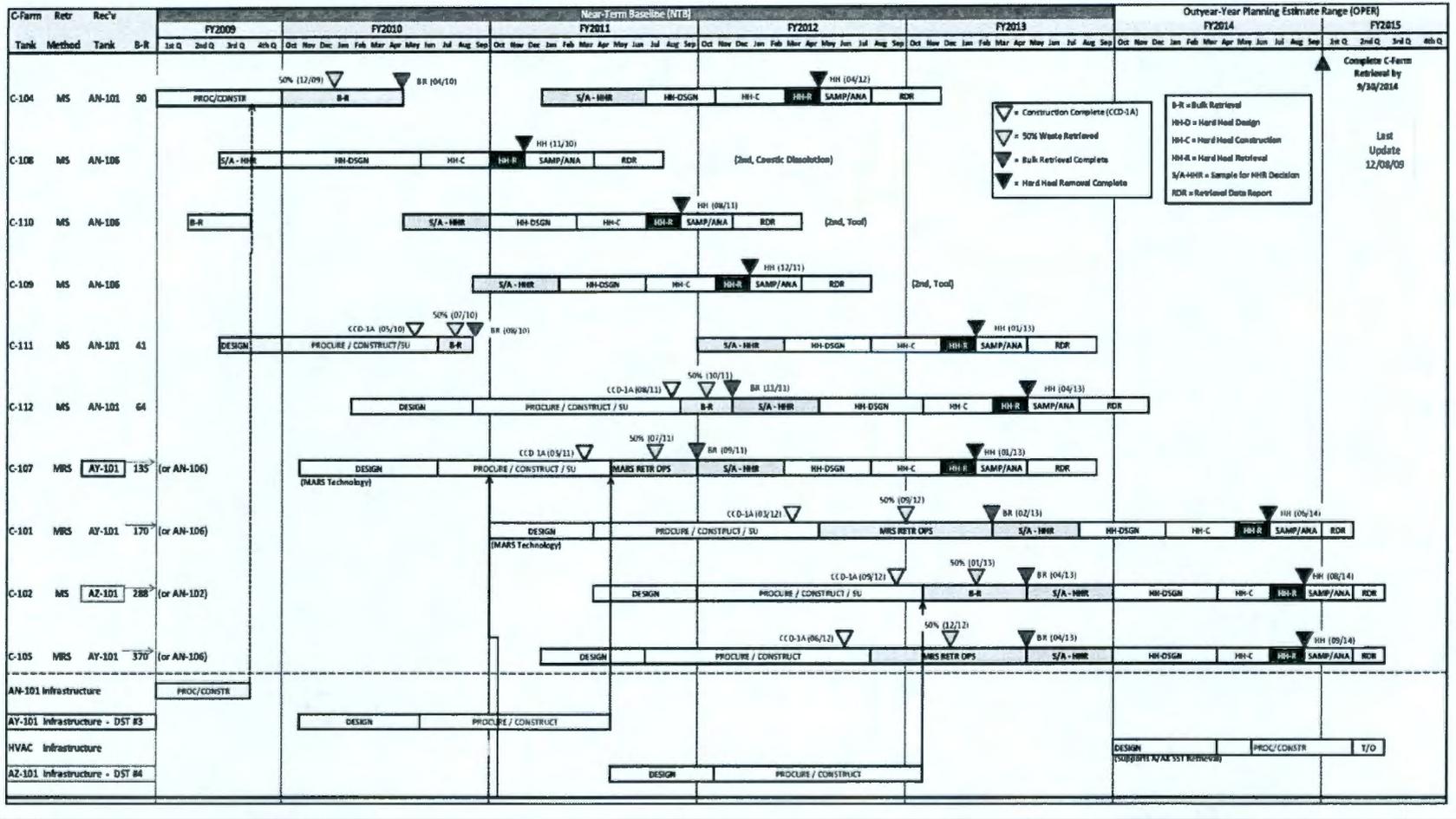






M-TPA CP M-B-1 Complete C Farm Retrieval						06-Apr-10 12:17					
Activity Name	Forecast Start	Forecast Finish	BL Project Start	BL Project Finish	Days Ahead + or Behind -	2010	2011	2012	2013	2014	5
C-110 Hard Heel Rmvl Operations	13-Jul-11	21-Aug-11	13-Jul-11	21-Aug-11	1136		HHA-1C010M				
111											
C-111 Retrieval Operations (MS)	27-Jul-10	07-Sep-10	27-Jul-10	07-Sep-10	1007		HHA-1C011G				
C-111 Hard Heel Rmvl Operations	13-Dec-12	21-Jan-13	13-Dec-12	21-Jan-13	617				HHA-1C011M		
112											
C-112 Retrieval Operations (MS)	20-Sep-11	22-Nov-11	20-Sep-11	22-Nov-11	567		HHA-1C012G				
C-112 Hard Heel Rmvl Operations	14-Mar-13	22-Apr-13	14-Mar-13	22-Apr-13	526				HHA-1C012M		
Start Date: 23-Jun-08 Finish Date: 30-Sep-52 Data Date: 22-Mar-10 Run Date: 06-Apr-10						Critical Path for TPA Milestone M-B-1 "Complete C Farm Retrieval"				OPER-EOM06-MAR10-1... M-TPA CP M-B-1 Complete C Farm Retrieval Page 4 of 4	

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



SST RETRIEVAL SEQUENCE DOCUMENT

I. Deliverables

- **M-45-02N, Submit Biennial Update of SST Retrieval Sequence Document (Agreement Appendix I, Section 2.1.2), and Double-Shell Tank Space Evaluation Document and Ecology Concurrence of Additional Tank Acquisition Within 60-days (see text of M-45-02N for further details)**
Due: 3/1/08 (Parties to meet annually to agree on SSTs to be retrieved during the coming year from the tank pool.)
Status: Complete.

- **M-45-02N-A, Embedded Milestone; Within 60 days of receiving the DST Space Evaluation Document, the Three Parties Shall meet to Establish New Milestones, If Required, for Acquisition of Additional Tanks**
Due: 06/02/08
Status: Complete. On May 15, 2008, Ecology transmitted comments on the M45-02N deliverable. On July 23, 2008, ORP transmitted letter 08-TF-049 to Ecology with a plan for responding to Ecology comments on and updating the Retrieval Sequence Document (RPP-21216). The revised document was submitted to Ecology on September 12, 2008, by letter 08-TF-062. Ecology approved the document on January 22, 2009, by letter 0900343.

- **M-45-02O, Submit Biennial Update of SST Retrieval Sequence Document (Agreement Appendix I, Section 2.1.2), and Double-Shell Tank Space Evaluation Document and Ecology Concurrence of Additional Tank Acquisition Within 60-days (see text of M-45-02M for further details)**
Due: 3/1/10 (Parties to meet annually to agree on SSTs to be retrieved during the coming year from the tank pool.)
Status: In Abeyance per AIP, see issues below.

- **M-45-02O-A, 3 Parties Shall Meet To Establish New Milestones Within 60 Days**
Due: 04/30/10
Status: In Abeyance per AIP

- **M-45-02P, Submit Biennial Update of SST Retrieval Sequence Document (Agreement Appendix I, Section 2.1.2), and Double-Shell Tank Space Evaluation Document and Ecology Concurrence of Additional Tank Acquisition Within 60-days (see text of M-45-02M for further details)**
Due: 3/1/12 (Biennially thereafter. Parties to meet annually to agree on SSTs to be retrieved during the coming year from the tank pool.)
Status: In negotiation. See discussion below under "Issues".

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

II. Issues

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

TANK RETRIEVALS WITH INDIVIDUAL MILESTONES

Tank 241-C-106

I. Deliverables

- **M-45-05M-T01, Submit C-106 Waste Retrieval Results, Analysis of Residual Waste(s), and (if appropriate) Request for Exception to the Criteria Pursuant to Agreement Appendix H**
Due: 2/27/04
Status: Complete.

II. Significant Accomplishments

- None.

III. Significant Planned Activities (PA) in the Next Six Months

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

IV. Issues

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

Tank 241-S-102

I. Deliverables

- **M-45-05A, Complete Waste Retrieval from Tank S-102**
Due: 3/31/07
Status: Missed. As a result of equipment failure on March 14, 2007, retrieval operations were suspended at Tank S-102 with retrieval approximately 79% complete.
- **M-45-15, Interim Completion of Tank S-102 SST Waste Retrieval and Closure Demonstration Project**

Due: 6/30/11

Status: At Risk. See discussion below under "Issues". Change Request M-45-07-01 approved by DOE and Ecology on December 4, 2007.

- **M-45-15A, Embedded Milestone, Submit a Retrieval Data Report Pursuant to Agreement Appendix I**

Due: 6/30/11

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

- **M-45-15B, Embedded Milestone, Remaining Wastes have been adequately Characterized, and a Risk Assessment has been completed for residuals that remain in the tank**

Due: 6/30/11

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

- **M-45-15C, Embedded Milestone, An update to the S-102 Component Closure Activity Plan has been submitted by DOE**

Due: 6/30/11

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

- **M-45-15D, Embedded Milestone, if appropriate, DOE has requested an exception to waste retrieval criteria pursuant to Agreement Appendix H**

Due: 6/30/11

Status: At risk.

II. Significant Accomplishments

- None

III. Significant Planned Activities in the Next Six Months

- None.

IV. Issues

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

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

Tank 241-S-112

I. Deliverables

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

- **M-45-13D, Embedded Milestone, if appropriate, DOE has requested an exception to waste retrieval criteria pursuant to Agreement Appendix H**
Due: 6/30/11
Status: At risk. See discussion below under "Issues".

II. Significant Accomplishments

- Ecology letter of 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 or Summer of 2011. Submittal of the Closure Plan could not occur, then, until several months after the M-45-15 milestone is due.

Interim Stabilization Consent Decree

I. Near-Term Deliverables:

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

Due: 09/30/04

Status: Completed on March 31, 2004, with discontinuation of pumping in U-108 and subsequent consultation with Ecology staff. Interim stabilization of S-102 and S-112 is held in abeyance by third amendment to the Consent Decree. ORP's obligation to interim stabilize S-112 was satisfied upon completion of retrieval operations. Retrieval of S-102 has been impacted by the spill at this tank. A review of the January 25, 2010, video of the tank has shown approximately 2,000 gallons of supernatant liquid remaining. This is below the criteria for interim stabilization of less than 5000 gallons supernatant liquid.

II. Significant Accomplishments:

None.

III. Significant Planned Actions in the Next 6 Months:

None.

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 March 1 – March 31, 2010:

I. Accomplishments:

- Completed liquid grab sampling of tank 241-AZ-101 on March 17, 2010.
- Completed revision 0 of RPP-PLAN-44844, *Sampling and Analysis Plan for Post-Retrieval Waste Solids in Tank 241-C-104*, on March 22, 2010.
- Completed revision 1 of RPP-43498, *Derivation of Best-Basis Inventory for Tank 241-AP-105*, on March 29, 2010.
- Completed revision 1 of RPP-43979, *Derivation of Best-Basis Inventory for Tank 241-AY-101*, on March 29, 2010.
- Completed revision 0 of RPP-45147, *Derivation of Best-Basis Inventory for Tank 241-C-108*, on March 30, 2010
- Completed revision 0 of RPP-44740, *Derivation of Best-Basis Inventory for Tank 241-AX-102*, on March 25, 2010
- Completed revision 0 of RPP-44752, *Derivation of Best-Basis Inventory for Tank 241-BY-103*, on March 25, 2010
- Completed revision 1 of RPP-43493, *Derivation of Best-Basis Inventory for Tank 241-AP-106*, on March 25, 2010
- Completed revision 0 of RPP-44625, *Derivation of Best-Basis Inventory for Tank 241-AW-105*, on March 17, 2010
- Completed revision 0 of RPP-45764, *Derivation of Best-Basis Inventory for Tank 241-AN-102*, on March 30, 2010

II. Planned Action within the next Six Months:

- Tank Sampling
 - Tank 241-AP-107 evaporator grab samples scheduled for April 2009.
 - Tank 241-AN-101 post C-104 retrieval scheduled for May 2010.
 - Tank 241-AN-103 corrosion mitigation liquid grabs scheduled for June 2010.
 - Tank 241-AN-104 corrosion mitigation liquid grabs scheduled for July 2010.
 - Tank 241-AN-107 corrosion mitigation liquid grabs scheduled for April 2010.
 - Tank 241-C-110 off riser sampling scheduled for July 2010.
 - Tank 241-C-108 off riser sampling scheduled for June 2010.
- BBI Updates
 - For FY10 Quarter 2 nine BBI tank updates were completed and published to TWINS on March 30, 2010.
 - Seven tank updates are planned for FY10 Quarter 3. An additional 3 tanks may be added.
- Data Quality Objectives (DQO)
 - Complete revision 11 of the Chemistry Control DQO in May 2010.

- Complete revision 16 of the Compatibility DQO in April 2010.
- Complete revision 0 of the Mission Analysis/Strategic Planning DQO in April 2010.
- Complete revision 0 of C-301 retrieval, transfer, and component closure DQO in June 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 waste processing start April2010.
FY11	11-01	AP-107	AP-104	Planned start March 2011. Campaigns 11-01 and 11-02 to be performed back-to-back
FY11	11-02	AZ-102	AP-104/ AP-107	
FY12	12-01	AY-101	AP-017	Planned start March 2012.

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

I. Near-Term Deliverables:

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

II. Significant Accomplishments:

- None to report.

III. Significant Planned Actions in the Next Six Months:

- None to report.

IV. Issues

- None to report.

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

I. Near-Term Deliverables:

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

- **M-62-08, Submittal of Hanford Tank Waste Supplement Treatment Technologies Report, Draft Hanford Tank Waste Treatment Baseline and Draft Negotiations Agreement in Principle**

Due: 06/30/2006

Status: Missed.

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

Due: 02/28/2009

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

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

Due: 01/31/2011

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

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

Due: 06/30/2007

Status: Missed.

II. Significant Accomplishments:

- None to report.

III. Significant Planned Actions in the Next Six Months:

- None to report.

IV. Issues:

- None

Hanford Waste Treatment and Immobilization Plant (WTP) Project

There are about 3,250 FTE equivalent contractor [Bechtel National Inc. (BNI)] and subcontractor personnel working on the WTP Project, including 966 craft, 418 non-manual, and about 285 subcontractor personnel FTE equivalents working at the WTP construction site (all facilities). Overall project percent complete through February 2010 is 53%, design and engineering is 78% complete, and construction is 49% complete.

The overall WTP Project schedule variance (SV) was positive in February at \$2.5M, the cost variance (CV) was a negative (\$2.3M). The negative CV came from Engineering, Plant Equipment, and Construction.

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

Material at Risk (MAR)

The MAR/HPAV Integrated Change Package (ICP) Safety Evaluation Report (SER) was approved by the ORP Manager on October 31, 2009, with four Conditions of Acceptance (COA). The four COAs address the following subject areas: (1) Hydrogen in Piping and Ancillary Vessels (HPAV) piping design criteria (Closed in February 2010); (2) BNI to develop a plan and schedule for resolving technical comments on six primary reports referenced in the SER (Completed in December 2009); (3) Develop a plan and schedule for resolving the uncertainties identified in PDSA Addendum Section 2.7 (This 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 (Closed in March 2010). The COAs are closed as work is completed, with a completion of all COAs estimated in August 2010. COAs 1 and 4 have been closed. BNI identified six activities for completing the action plan for COA 2 and has completed three of the six through April 19, 2010. BNI identified nine activities for completing the action plan for COA 3 and has completed six of the nine. 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.

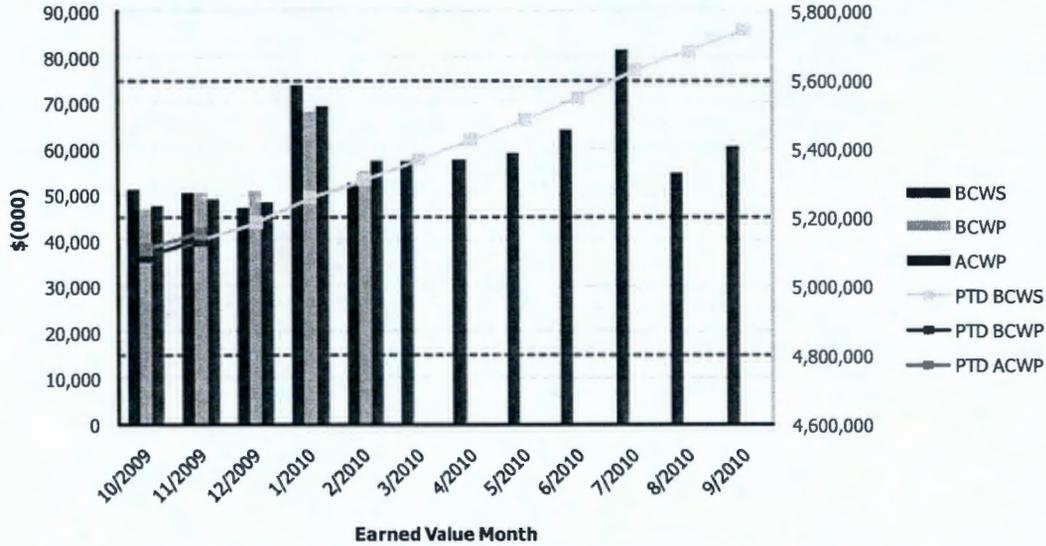
Hydrogen in Piping and Ancillary Vessels (HPAV)

Based on discussions between DOE, BNI and the Defense Nuclear Facility Safety Board (DNFSB), BNI has chartered an independent review team to address Hydrogen in Piping and Ancillary Vessels (HPAV) hazard at the Pretreatment Facility (PTF). The HPAV Review Team (HIRT) will review the design criteria (approved by ORP in February 2010) and proposed implementation methods for evaluating postulated hydrogen events (deflagration and detonation) in piping and ancillary vessels in the PTF. The review is to provide added assurance that the criteria and methods provide a technically defensible, conservative approach to ensure the safety and reliability of the PTF design. An informational meeting of the HIRT was held in Richland, Washington from April 13-16, 2010. The HIRT report documenting their review is expected in July 2010.

WTP – Fiscal Year To-Date Performance

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

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



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	PTD BCWS	PTD BCWP	PTD ACWP	PTD SPI	PTD CPI
Oct 2009	\$51,264	\$46,742	\$47,659	0.91	0.98	\$5,085,500	\$5,087,620	\$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	\$74,085	\$68,098	\$69,303	0.92	0.98	\$5,257,143	\$5,256,880	\$5,273,825	1.00	1.00
Feb 2010	\$52,534	\$55,070	\$57,409	1.05	0.96	\$5,309,677	\$5,311,950	\$5,331,234	1.00	1.00
Mar 2010	\$57,213					\$5,366,890				
Apr 2010	\$57,749					\$5,424,638				
May 2010	\$59,135					\$5,483,773				
Jun 2010	\$64,029					\$5,547,802				
Jul 2010	\$81,565					\$5,629,367				
Aug 2010	\$54,913					\$5,684,280				
Sep 2010	\$60,401					\$5,744,680				
FY - To-Date	\$275,440	\$271,071	\$271,456	0.98	1.00					

Pretreatment (PT) Facility – March 2010 Accomplishments (Feb 10 EVM Data)

The PT Facility will separate radioactive tank waste into high-level waste (HLW) and low-activity waste (LAW) fractions and transfer each waste type to the respective vitrification facility for immobilization. Overall facility percent complete is 49%, engineering/design is 77% complete, and construction is 30% complete.

Overall construction has been performing well, especially in the area of concrete and steel installation. Construction installations for the month of March include: 640 cubic yards (CY) of concrete, 99 tons of rebar, 12,200 lbs of embeds and 199 tons of structural steel. There were four concrete placements – two walls and two slabs – during the calendar month of March. Installation of HVAC remains behind schedule, but is improving to support the recovery plan developed to meet the baseline schedule by April 2011. Rebar installation continues to support additional slab placements at the 77-ft elevation. 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.

PT engineering issued 3,900 ft of piping isometric drawings during the month, with the issued linear footage of piping continuing to exceed the cumulative baseline. Engineering performance continues to benefit from the process improvement in the method of data sheets development. Work is being accelerated in two areas, placement of 5th lift walls and installation of piping, and the engineering to support that. Both of these will reduce the future schedule risks, and allow acceleration of acceleration of some of the future activities.

ORP has made the decision and notified the contractor to move forward with the "Equipment" option, the more extensive change option, to resolve the mitigation of solids formation in the Cesium Ion Exchange Process (CXP) system on March 24, 2010. This option has higher cost; however, it provides operational flexibility and has life-cycle cost benefit by reducing the number of LAW canisters.

Analysis and associated testing with various modification options for improving mixing is continuing for the resolution of the mixing issue (M3) identified by the External Flowsheet Review Team. It appears that a number of vessels would need modifications to the PJMs and/or increasing the number of PJMs. BNI is working closely with ORP in the development of

documentation and test plans to facilitate timely closure of this issue. An alternate back-up plan has been developed for heel removal, in case the testing and planned modifications of the PJMs do not result in adequate mixing. The response effort is on track to close the issue prior to the proposed consent decree milestone of June 2010.

Resolution of MAR/HPAV, CXP precipitation issue and the vessel mixing are inter-related, hence the full impact of the implementation of these resolutions will not be known until the integrated implementation plans are developed in August 2010.

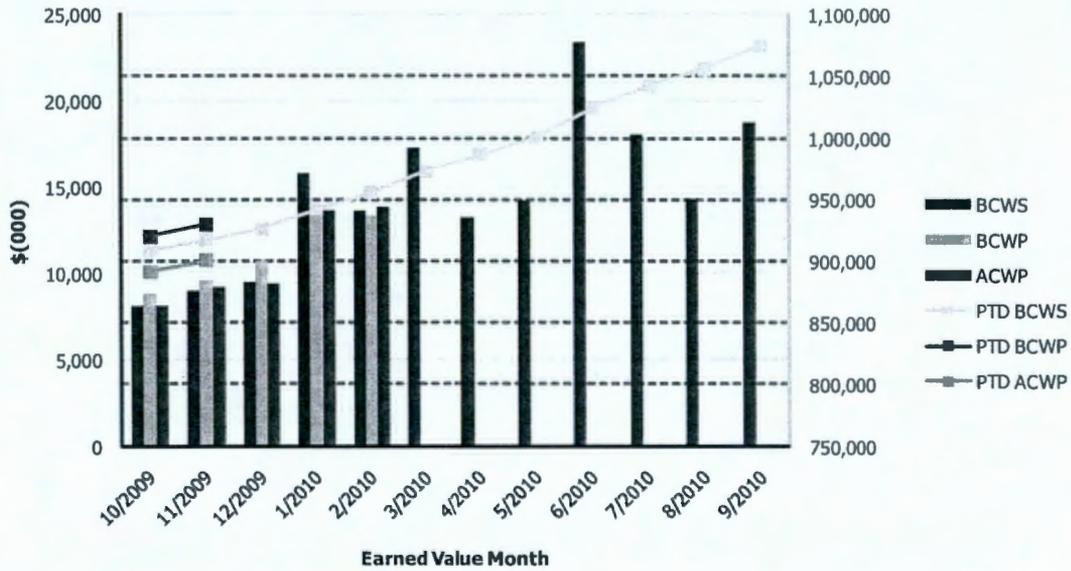
Re-analysis and fabrication modifications of various numbers of vessels due to seismic and other dynamic load increases are ongoing. Design and fabrication of vessels UFP-1A and 1B and HLP-27A and 27B are the current critical path activities for PT. Evaluations of the vendor's schedules are being performed to identify areas where schedule improvements can be achieved. Furthermore, some of the vessel analyses are being contracted out to mitigate the contractor resource constraints and expedite fabrication. A number of complex jumper and frame designs have been completed; vendor bids for the first jumper frame have been received and the quotes are significantly higher than budget. BNI is evaluating the procurement solicitation to determine ways to reduce vendor quotes.

Upcoming significant planned accomplishments for April include the placements of two slabs and two walls, and issue design for the Jumper for Area 5.

There are no near-term Consent Decree Milestones.

**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	\$15,776	\$13,724	\$13,599	0.87	1.01	\$941,984	\$954,603	\$923,521	1.01	1.03
Feb 2010	\$13,597	\$13,349	\$13,852	0.98	0.96	\$955,581	\$967,952	\$937,373	1.01	1.03
Mar 2010	\$17,235					\$972,816				
Apr 2010	\$13,267					\$986,083				
May 2010	\$14,173					\$1,000,256				
Jun 2010	\$23,377					\$1,023,633				
Jul 2010	\$18,104					\$1,041,737				
Aug 2010	\$14,301					\$1,056,039				
Sep 2010	\$18,764					\$1,074,802				
FY - To-Date	\$55,978	\$56,227	\$54,183	1.00	1.04					

High-Level Waste (HLW) Facility – Mar 2010 Accomplishments (Feb 10 EVM Data)

The HLW Facility will receive the high-level waste fraction from the Pretreatment (PT) Facility. The concentrate is sampled and analyzed to determine the optimum blend of glass formers to add to the waste that will produce a vitrified waste form that is compliant with disposal requirements and also meets required production rates. 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 25% complete. The overall facility is 50% complete.

The major focus of the HLW Team is supporting and maintaining the critical path schedule to build-out the Filter Cave which contains the HLW Facility's primary ventilation (C5V), pulse jet vent, and melter off-gas HEPA filtration units. Relocating the second-stage C5V HEPA filters to a room at the +40' elevation provides a comparable level of safety as delineated in DOE-STD-1066 Section 14, *Nuclear Filter Plenum Fire Protection*. The secondary HEPAs will be converted to "safe-change" units in order to safely maintain facility ventilation after a fire or crane failure. Completing the Filter Cave involves finalizing the re-design of ducting, support steel, and equipment; procurement, fabrication, and qualification of the various components; and coordination of the installation activities.

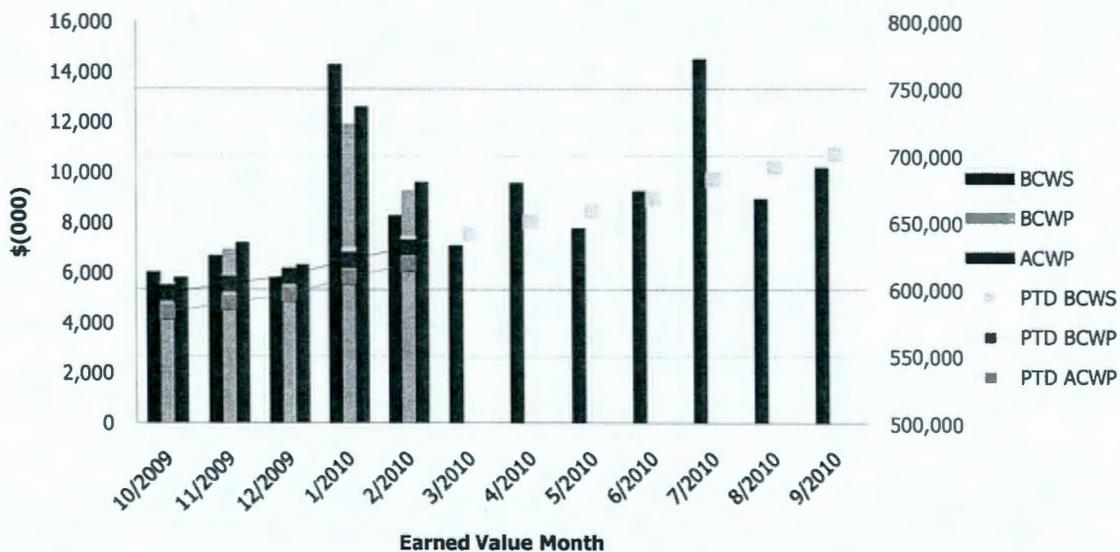
In March, Construction completed the last four remaining concrete slabs at elevation +14'. Additionally, construction placed two walls at elevation +14' for a sum of 669 cubic yards (CY) of concrete placements in March. The six placements exceeded the March goal of four placements. The acceleration of construction, by the addition of 44 additional craft since April 2009, continues to meet or exceed the monthly recovery plan goals. Construction remains on pace to fully recover to the replan by July 2010. In April, construction plans to complete six more concrete placements (one slab and five walls) for a total of 1,030 CY.

- At the +37' elevation, workers continued installing slab rebar, decking, and embeds in the annex area.
- At the +14' elevation, iron workers continued to install rebar for walls and placed slabs in the southeast area of the facility and installed joggles and embeds. Carpenter crews continued to set shoring and install and strip wall and slab forms. Electricians and pipefitters continued installing embeds and joggles.

- At the +0' elevation, iron workers installed steel and rebar at the east end (canister export truck bay), painters are sandblasted and applied coatings in the annex, pipefitters installed piping over submerged-bed-scrubber condensate vessels and millwrights continued the installation of shield door liner rails in Melter Cave #1.
- At the -21' elevation, millwrights installed shield door rails, pipefitters continued installing off-gas piping and supports, and iron workers installed a platform at the non-radioactive liquid disposal (NLD) vessel. Subcontractors worked on installing liner plate in the Wet Cell and Rinse Tunnel.

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

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



Earned Value Month

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	\$399,008	\$397,499	\$383,042	1.00	1.02
Nov 2009	\$6,575	\$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	\$14,300	\$11,915	\$12,602	0.83	0.91	\$625,792	\$622,240	\$609,150	0.99	1.02
Feb 2010	\$8,283	\$9,263	\$9,594	1.12	0.97	\$634,075	\$631,503	\$618,744	1.00	1.02
Mar 2010	\$7,093					\$641,168				
Apr 2010	\$9,587					\$650,755				
May 2010	\$7,769					\$659,524				
Jun 2010	\$9,288					\$667,792				
Jul 2010	\$14,529					\$682,321				
Aug 2010	\$8,963					\$691,283				
Sep 2010	\$10,214					\$701,497				
FY- To-Date	\$41,097	\$39,419	\$41,301	0.96	0.91					

Low-Activity Waste (LAW) Facility – March 2010 Accomplishments (Feb 10 EVM Data)

The LAW Facility will vitrify low-activity waste from the PT Facility. Waste will be mixed with glass formers, vitrified into glass at an average daily rate of 30 metric tons, and placed in stainless-steel containers that will be disposed on site in the Integrated Disposal Facility. Overall facility percent complete is 68%, design is 90%, and construction is 58%.

BNI Engineering continued to confirm calculations and issue drawings for completion of design and in support of construction. The Thermo-Catalytic Oxidizer (TCO) is the critical path for LAW construction complete. BNI has obtained ORP concurrence on the graded quality approach for the TCO procurement. The TCO is currently scheduled to be awarded in August 2010.

Construction continued: installing, piping and hangers, conduit, cable tray, gypsum wallboard, perimeter sealants, panels and transformers and metal-stud framing. ORP is continuing to track progress and work with BNI on resolution of the use of combustible insulation without a thermal barrier in the LAW Annex. The loading dock and import bay are two additional annex areas in LAW which BNI identified as also needing a thermal barrier. The thermal barrier is needed to meet the Highly Protected Risk requirement in DOE O 420.1B. BNI is still on schedule to complete coating the underside of the applicable LAW Annex areas by November 2010.

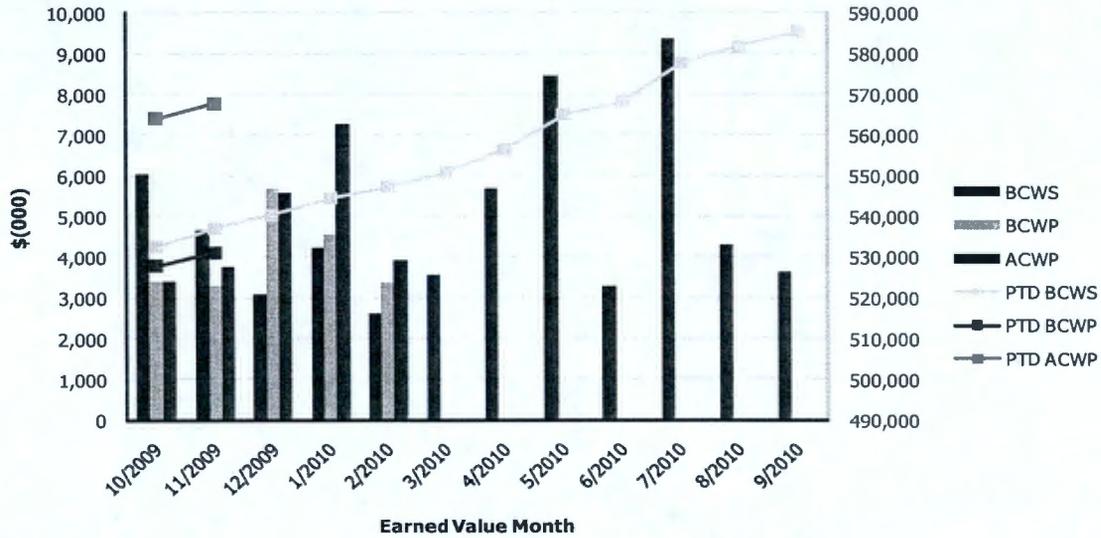
Resolution of the excessive heat retention technical issue in some Melter Pour Cave equipment continued. A high temperature condition has been calculated to occur in certain container handling equipment that could significantly reduce the yield stress of these items.

Computational Fluid Dynamics calculation results will be analyzed for equipment stresses by a subcontractor. BNI and their subcontractor are continuing to perform analyses on the Melter Pour Cave Equipment. A final resolution of the path forward, including any equipment modifications is due to ORP by mid May 2010.

The major accomplishment with respect to critical path in LAW scheduled for the next 30 days is issuance of the TCO Request for Proposal.

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	\$4,215	\$4,555	\$7,254	1.08	0.63	\$544,508	\$541,448	\$580,810	0.99	0.93
Feb 2010	\$2,618	\$3,342	\$3,915	1.28	0.85	\$547,126	\$544,790	\$584,725	1.00	0.93
Mar 2010	\$3,560					\$550,686				
Apr 2010	\$5,697					\$556,383				
May 2010	\$8,442					\$564,825				
Jun 2010	\$3,279					\$568,104				
Jul 2010	\$9,356					\$577,460				
Aug 2010	\$4,310					\$581,770				
Sep 2010	\$3,618					\$585,388				
FY - To-Date	\$20,604	\$20,271	\$23,896	0.98	0.85					

Analytical Laboratory (LAB) – March 2010 Accomplishments (Feb 10 EVM Data)

The LAB will support WTP operations by analyzing feed, vitrified waste, and effluent streams. Overall facility complete for LAB is 49%, design is 80%, and construction is 61%.

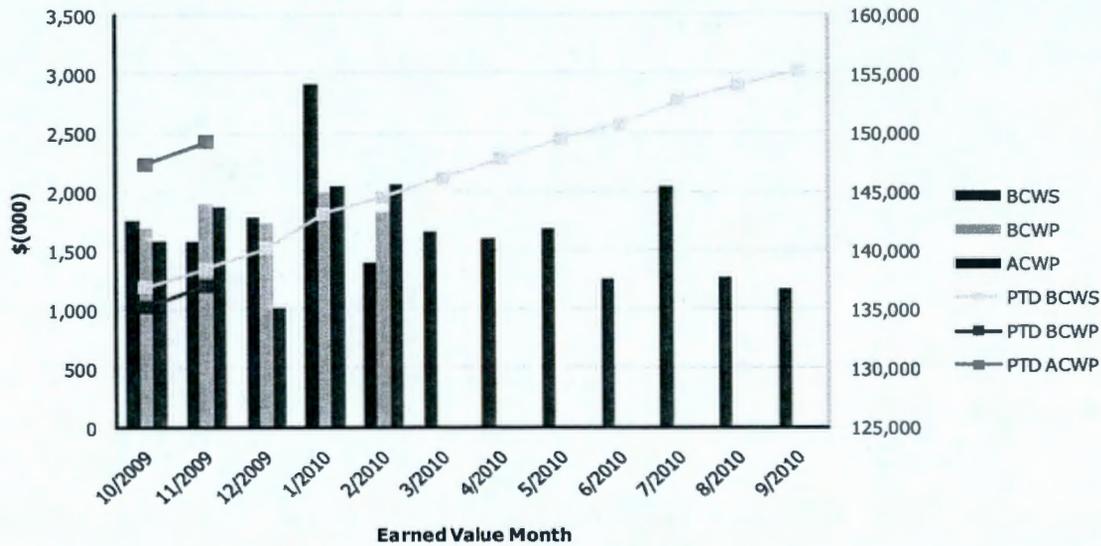
LAB engineering continues to focus on design confirmation with expected completion November 2010. BNI has continued to delay the ASX equipment Factory Acceptance Testing. ORP has engaged BNI to determine any potential impacts to the construction schedule. The ASX equipment is not critical path for LAB construction substantially complete.

ORP and BNI continue to work together for the most efficient solution to the issue of combustible insulation in the LAB roof assembly without a thermal barrier. Resolution is needed to meet the Highly Protected Risk (HPR) requirement of DOE O 4201.B. The DOE guide associated with DOE O 420.1B states that one of the ways to meet the Highly Protected Risk requirement is to have the roof assembly be Factory Manual (FM)-1. BNI and ORP are working on the most cost and schedule efficient options to either meet FM-1 or an equivalent level of protection to meet HPR. The BNI report of cost and schedule impacts, including a meeting with ORP is due by April 26th.

There are no key accomplishments scheduled for LAB for the next 30 days.

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	\$2,916	\$1,993	\$2,040	0.68	0.98	\$143,129	\$140,813	\$152,371	0.98	0.92
Feb 2010	\$1,397	\$1,826	\$2,057	1.31	0.89	\$144,526	\$142,639	\$154,428	0.99	0.92
Mar 2010	\$1,654					\$146,180				
Apr 2010	\$1,600					\$147,780				
May 2010	\$1,687					\$149,467				
Jun 2010	\$1,262					\$150,729				
Jul 2010	\$2,041					\$152,770				
Aug 2010	\$1,279					\$154,049				
Sep 2010	\$1,182					\$155,231				
FY - To-Date	\$9,431	\$9,131	\$8,555	0.97	1.07					

Balance of Facilities (BOF) – March 2010 Accomplishments (Feb 10 EVM Data)

BOF provides services and utilities to support operation of the main production facilities – PT, HLW, LAW, and LAB. Overall facility percent complete for BOF is 53%, design/engineering is 80%, and construction is 56%.

Construction activities for March were mainly focused on trench work, Water Treatment Building (WTB), Glass Former Facility (GFF), and the Chiller Compressor Plant (CCP). BNI completed the slab for the GFF control building and also performed several earthwork activities.

The main engineering and procurement focus is on the Emergency Diesel Generator (EDG). The EDG procurement is on hold for up to 90 days to allow any MAR impacts to be better understood. The EDG procurement documents are ready for issue; however, the anticipated lift of the hold will most likely occur in May.

Delivery of 70 MW of power to the WTP through the A6 Substation under the worst case scenario is one of the major technical issues ORP and BNI have been working together to resolve. BNI notified ORP of the potential issue in early 2009. Based on current calculations for the WTP Operational Load requirements, the A6 substation (constructed specifically for the WTP) may be undersized. A Construction Project Review (CPR) of the WTP was performed in August 2009. One of the recommendations from the CPR report was for DOE to develop issue resolution pathways and schedules by October 30, 2009, for all major technical issues outside of BNI's responsibility. Below are the actions taken since the CPR:

- 1) BNI presented the most recent electrical load calculation for WTP at 53 MW on 9/29/2009.
 - a. Current rating under worst case substation configuration is 55 MW.
- 2) ORP prepared a white paper detailing the history and path forward for the Electrical Load Growth Issue on 2/2/2010.
- 3) BNI presented to ORP a study on the potential conversion of Temporary Construction Power (Approx. 7 MW) for permanent use on 2/26/2010.
- 4) ORP issued a letter to the Tank Farms Operating Contractor (TOC) to analyze and prepare viable options for upgrading the A6 Substation to deliver up to 70 MW under worst case substation configuration on 3/12/2010.

The preferred pathway (which would allow for increased contingency and improved operability) is to upgrade the A6 substation to allow for 70MW of electrical power (versus the current rating of 55MW) and, if necessary, the electrical distribution system to WTP. A letter of direction was

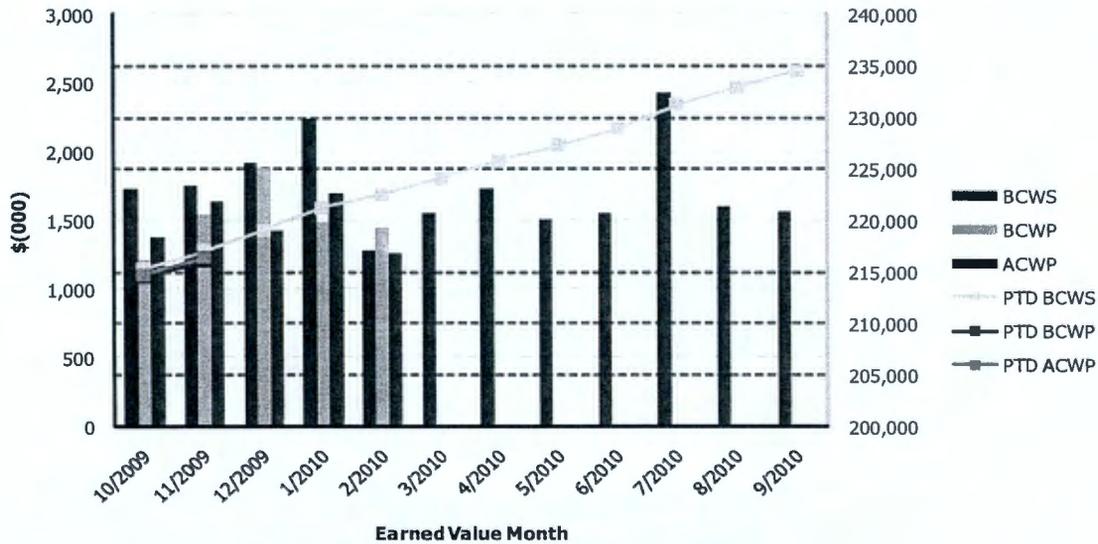
sent to the TOC to conduct this study. The cost for such an upgrade is not known at this time. A second potential pathway is to convert the current temporary construction power to permanent plant power (7 MW). After the TOC study is completed, the two alternatives can be evaluated and a decision will be reached based upon the least cost option that supports mission requirements. Below is the additional action still to be taken for issue resolution:

- 1) Based on the results of the TOC report, evaluate the alternatives and implement the least cost option that supports mission requirements. Due Date: 7/15/2010

BNI Engineering continued to focus on activities for design confirmation and support to construction. There are no major accomplishments planned for BOF within the next 30 days.

**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	\$2,233	\$1,482	\$1,700	0.66	0.87	\$221,223	\$219,461	\$219,543	0.99	1.00
Feb 2010	\$1,279	\$1,442	\$1,258	1.13	1.15	\$222,502	\$220,903	\$220,801	0.99	1.00
Mar 2010	\$1,547					\$224,049				
Apr 2010	\$1,730					\$225,779				
May 2010	\$1,501					\$227,280				
Jun 2010	\$1,555					\$228,835				
Jul 2010	\$2,432					\$231,267				
Aug 2010	\$1,602					\$232,869				
Sep 2010	\$1,568					\$234,437				
FY - To-Date	\$8,918	\$7,555	\$7,396	0.85	1.02					

Waste Treatment Plant Project - Percent Complete Status Through February 2010									
(Dollars - Millions)	Overall Facility Percent Complete Allocated Dollars			Design/Engineering Unallocated Dollars			Construction Unallocated Dollars		
	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete
Facilities									
Low-Activity Waste	1,688.5	1,153.9	68%	209.9	189.9	90%	298.5	173.2	58%
Analytical Lab	635.6	313.5	49%	49.5	39.4	80%	85.8	52.7	61%
Balance of Facilities	988.1	523.4	53%	68.7	54.9	80%	219.1	123.4	56%
High-Level Waste	2,590.9	1,301.8	50%	319.9	266.3	83%	508.8	129.5	25%
Pretreatment	4,084.9	2,019.3	49%	597.4	462.4	77%	813.2	242.8	30%
Shared Services	incl. above	incl. above	incl. above	1,064.1	798.5	75%	1,337.3	888.5	66%
Undistributed Budget	5.9	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total WTP	9,993.9	5,311.9	53%	2,309.5	1,811.4	78%	3,262.7	1,610.1	49%

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 February 2010	Percent Complete
Concrete	1000 cy	262.31	196.22	74.8%
Structural Steel	1 ton	39,592	15,289	38.6%
Piping (in buildings)	1000 lf	912.96	174.26	19.1%
Piping (underground)	1000 lf	116.01	82.49	71.1%
HVAC Duct	1000 lbs	4,303.60	1,105.64	25.7%
Cable Tray	1000 lf	97.79	21.01	21.5%
Conduit (in buildings)	1000 lf	1,010.79	112.25	11.1%
Conduit (underground)	1000 lf	191.90	176.25	91.8%
Cable and Wire	1000 lf	4,944.23	271.99	5.5%

ORP Project Managers Meeting
April 27, 2010
2440 Stevens Ctr.
Richland, Washington
Meeting Minutes Transmittal

Attachment D: Administrative Record Items

WTP Balance of Facility Schedule

(5 pages including this coversheet)

Activity ID	Activity Name	Start	BL Project Start	Finish	BL Project Finish
Diesel Generators Facility (89)		11-May-10	25-Nov-09	10-Jun-16	26-Apr-16
Plant Equipment - BOF		11-May-10	25-Nov-09	09-Jan-15	09-Jan-15
9FB4732E	BOF- DMY - Diesel Fuel Tank			11-May-10	25-Nov-09
1GB2808	BOF - Award 4.16kV Emergency Diesel Gen. PO			31-Jan-11	29-Oct-10
9FB3609E	BOF- DMY - DFO-SPARR-31/32/33 Flame Arrestors			31-Oct-12	06-Aug-12
9FB3609E	BOF-DMY MS DFO-VSL-1A/1B Emg Gen TK			31-Oct-12	06-Aug-12
9FB3609E	BOF-DMY MS DFO-HTR-02/03 & Vsl Heaters			31-Oct-12	06-Aug-12
4BB2808E	BOF - DMY- 4.16kV Dsl Gen MVE-DG-890001A/B			24-Dec-14	24-Dec-14
9FB2808E	BOF-MS DMY Emer Diesel Gen MVE-DG-890001A/B			09-Jan-15	09-Jan-15
Crafts (Construction) - BOF		15-Aug-12	18-May-12	20-Jan-16	26-Oct-15
4BB1220C	BOF-Rebar Emergency Diesel Tank Foundations			15-Aug-12	18-May-12
1GB12C1	BOF - Complete Emer. Diesel Gen. Base Slab			11-Jun-13	14-Mar-13
1GB28C1	BOF - Set (2) Emergency Diesel Generators			26-May-15	26-May-15
4BB2804E	BOF -Set Emergency Generator			10-Aug-15	10-Aug-15
4BB2804E	BOF -Set Standby Generator			10-Aug-15	10-Aug-15
4BB10001	BOF - Substantly Complete Const -Diesel Gen Bld			14-Dec-15	16-Sep-15
4BB10GM	BOF - Cmpt Const Diesel Generators Bldg			20-Jan-16	26-Oct-15
Startup - BOF		03-Jan-12	03-Jan-12	10-Jun-16	26-Apr-16
5HBC1A5	BOF SU Final System Scoping SDG	03-Jan-12*	03-Jan-12		
5HBC1A5	BOF SU Draft Design Complete List SDG			06-Apr-12	06-Apr-12
5HBC1A5	BOF SU Issue Design Complete List SDG			02-Jul-12	02-Jul-12
5HBC2A5	BOF SU Accept from Construction SDG			02-Jan-13	02-Jan-13
5HBC2A5	BOF SU F6 Ready Standby Diesel Generators Bldg 87 SDG			24-May-13	22-Nov-13
5HBC2A5	BOF SU Complete Standby Diesel Generators Bldg 87 SDG			24-May-13	22-Nov-13
5HBC1A5	BOF SU Final System Scoping DGF	02-Dec-14*	02-Dec-14		
5HBC1A5	BOF SU Draft Design Complete List DGF			10-Mar-15	10-Mar-15
5HBC1A5	BOF SU Issue Design Complete List DGF			03-Jun-15	03-Jun-15
5HBC2A5	BOF SU Accept from Construction DGF			20-Jan-16	02-Dec-15
5HBC2A5	BOF SU F6 Ready Diesel Generator Facility DGF			10-Jun-16	26-Apr-16
5HBC2A5	BOF SU Complete Diesel Generator Facility DGF			10-Jun-16	26-Apr-16

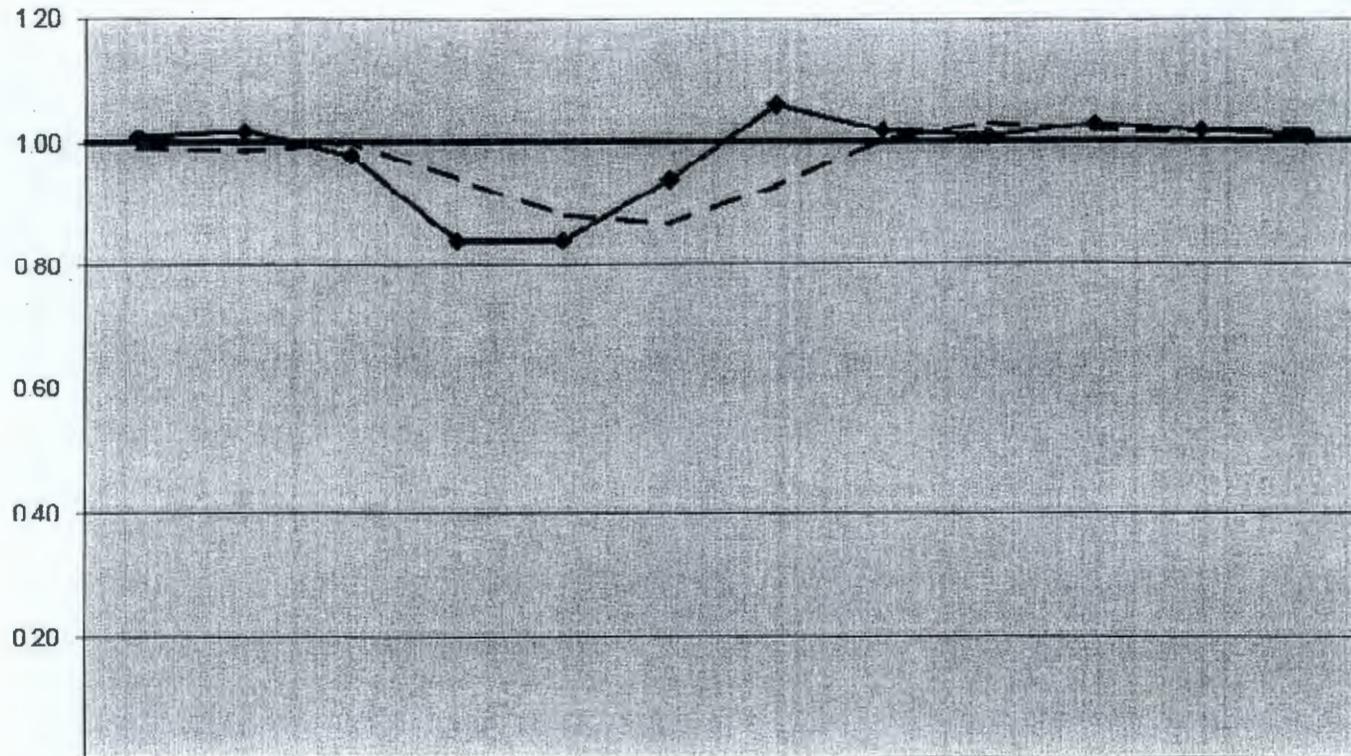
Activity ID	Activity Name	Start	BL Project Start	Finish	BL Project Finish	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Melter Assembly Bldg (31)															
Construction Subcontracts - BOF															
4BB14MA	BOF - Melter Assembly Bldg Construction	14-Nov-11	26-Mar-12	25-Sep-12	01-Jul-13										
Level 2															
1A8-B2-0	BOF - EPC - Melter Assembly Bldg	30-Apr-01 A	30-Apr-01	17-Nov-11	08-Aug-12										

Remaining Level of Effort
 Primary Baseline
 Remaining Work
 Actual Level of Effort
 Actual Work
 Critical Remaining W...



LAW Piping Performance Factor (PF)

LAW PIPING PF



	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10
◆ PIPE PF	1.01	1.02	0.98	0.34	0.84	0.94	1.06	1.02	1.01	1.03	1.02	1.01
- - PIPE 3-MO AVG	0.99	0.99	1.00	0.94	0.88	0.87	0.93	1.00	1.03	1.02	1.02	1.02
■ FTE	25	26	32	33	33	31	33	29	30	28	29	32