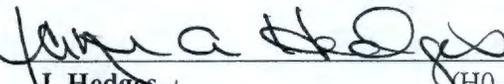


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Office Of River Protection  
Tri-Party Agreement Milestone Review  
Meeting Minutes  
November 15, 2007

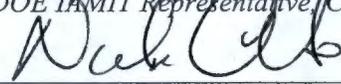
EDMC

Approval:   
J. Hedges (H0-57)  
Ecology IAMIT Representative

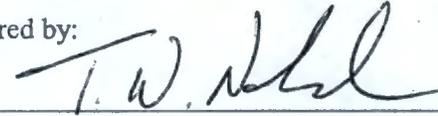
Date: 1/17/08

Approval:   
J.R. Eschenberg/Z. Smith (H6-60)  
DOE IAMIT Representative, Chairperson

Date: 01/17/08

Approval:   
N. Ceto (B1-46)  
EPA IAMIT Representative

Date: 1/17/08

Minutes Prepared by:   
T. W. Noland (H8-12)  
Fluor Federal Services, Inc..

Date: 1/17/08

Abdul, Wahed	ORP	H6-60	Luke, J.J.*	CH2M	H6-03
Babel, C.A.*	ORP	H6-60	Lyon, J.J.*	Ecology	H0-57
Bilson, H.E.	FH	H8-20	Miera, F.R.*	CH2M	H6-03
Braswell, S.M.*	Ecology	H0-57	Morrison, R.E.*	PAC	
Bohnee, G.	NPT		Niles, K.	OOE	
Caggiano, J.A.	Ecology	H0-57	Nicoll, B.L.*	OPR	H6-60
Ceto, N.*	EPA	B1-46	Noland, T.W.*	FH	H8-12
Chalk, S.	RL	A7-75	Noyes, D.L.	ORP	H6-60
Cimon, S.*	ODE		Olinger, S.J.	ORP	H6-60
Dahl, S.L.*	Ecology	H0-57	Piippo, R.*	FH	H8-12
Diediker, J.A.*	OPR	H6-60	Post, T.C.*	EPA	B1-46
Engelmann, R.H.*	FH	H8-12	Quintero, R.A.*	ORP	H6-60
Eschenberg, J.R.	ORP	H6-60	Russell, R.W.	ORP	H6-60
Fredenburg, E.A.*	Ecology	H0-57	Sanders, S.W.*	PAC	
Furlong, P.T.*	ORP	H6-60	Skinnarland, R.R.*	Ecology	H0-57
Harris, S.	CTUIR		Smith, T.Z.*	ORP	H6-60
Hedges, J.*	Ecology	H0-57	Stevens, A.J.*	ORP	H6-60
Henry, D.	OOE		Thompson, J.*	ORP	H6-60
Horst, L.	OOE		Triplett, M.B.*	PNL	K6-52
Huffman, L.A.	ORP	H6-60	Vance, J.G.	FH	H8-12
Irby, D.H.	ORP	H6-60	Voogd, J.A.	CH2M	H6-03
Jackson, D.E.	RL	A4-52	Weil, S.R.*	RL	H5-16
Jim, R.	Yakama		Whalen, C.L.	Ecology	H0-57
Knox, K.E.*			Wolf, A.	CTUIR	
Lober, R.W.*	ORP	H6-60	Administrative Record		H6-08
Louie, C.S.*	ORP	H6-60			
Long, J.D.*	ORP	H6-60			

\* Attendees

**Office of River Protection  
Tri-Party Agreement Quarterly Milestone Review  
Meeting Minutes  
November 15, 2007**

**ORP Milestone, Cost, and Schedule Summary**

The ORP milestone performance/statistics and cost schedule performance as presented in Project Summary section of the handout were reviewed.

Ecology inquired about the M-45-13 milestone to be missed. ORP explained that the requirements for both the M-45-13 and M-45-15 milestones (Tank S-102) include complete retrieval and submit a retrieval report, complete a risk assessment to be approved by Ecology, and submit a closure plan to be approved by Ecology. ORP stated that the retrieval data report, which will include a risk assessment, is on schedule to be delivered to Ecology by December 31, 2007. The change package that has been submitted to Ecology deletes the requirement for approval of the risk assessment by Ecology, and changes the date for submittal of the closure plan to 2011. ORP noted that the closure plan, which will be approved by Ecology, will include a risk assessment.

Ecology inquired if continuing resolution was impacting FY-08 work scope and ORP reported that so far it was not affecting work.

**Milestone M-45-00, Complete Closure of All Single-Shell Tank Farms**

EPA initiated discussion regarding to be missed status of the M-45-00 milestone. ORP stated that to be missed status is based on the current baseline which projects completion of the single-shell tank mission to occur after 2024. EPA noted that there is no agreement from the regulatory agencies or the public that that is an acceptable path forward, and with no response from the agencies, it appears as though the status it is accepted. EPA suggested inserting a footnote to the status which states that under DOE's current baseline assumptions the milestone is expected to be missed.

Ecology inquired when retrieval work scope would be restarted. ORP stated that retrievals would be restarted with C-109 in April and described the steps that needed to be taken to restart this retrieval including a readiness review activity which is a corrective action measure as a result to the S-102 spill. Ecology requested that an issue be added to cover the S-102 spill and its impacts to the retrieval schedule and ORP agreed that this should be added.

ORP stated that retrieval in C-104 is scheduled to start in May and C-108 is scheduled to start in July. The retrieval dates listed in the presentation were as of October 31, 2008 and the schedules have slipped since then. Ecology inquired about the reasons for the delay and ORP stated the major driver was corrective actions associated with the S-102 event. EPA inquired if all retrieval dates would slip or just the near term ones. ORP stated that it was mainly the near term ones and those would be C-104, -108, -109 and -110.

ORP discussed the modeling assumptions to support the M-45-02 deliverable and requested that Ecology concur with the assumptions by November 30, 2007. Ecology agreed that this date would be met.

ORP reported that the C-106 exception request document revision submittal to NRC was being delayed because of a programmatic review by DOE-HQ prior to the submittal to NRC. Every thing was reported as being in place for the NRC to start the review.

ORP reported that the S-102 dilution hose has been removed and sampling of the liquid would occur in the next couple of weeks. Soil excavation and equipment removal is scheduled to start soon and the S-102 recovery actions are scheduled to be completed in January. ORP and its contractor are looking at a couple of options for completing retrieval of the tank. One would be to use the sand mantis vehicle and the other would be Fold Track vehicle. ORP reported that they are projecting to restart S-102 retrieval in July, 2008.

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

The corrective action effort is operating to the negotiated change package milestone. ORP has incorporated AG comments into the change package, and the change package is ready for transmittal to Ecology. The field investigation report (FIR) for A-AX has gone through Fluor and CH review, and is currently in ORP review. The FIR for U has been written, except for the interpretation section. The FIR is in ORP review. RL and Fluor comments on the RFI report are being dispositioned.

#### **Significant Accomplishments**

Construction is ongoing on the T-106 interim barrier. Approximately 90% of the grading is complete. The geotech fabric has been laid, and spraying is planned to begin today, depending on temperature, which must be above 35 degrees.

Direct push work has been initiated in C WMA. Four of the ten direct pushes are in place. There have been some high beta numbers from the BP-5 well that was placed southwest of C. This is indicative of a potential source in the area, and it is currently being characterized.

### Significant Planned Actions in the Next Six Months

Ecology pointed out that the change package (RL letter 07-TPD-033) contains a DQO process, which Ecology considers a significant planned action, and requested inclusion of the DQO activity under planned actions. ORP stated that the DQO is scheduled for December 2007. ORP noted that a master work plan will be another deliverable that will require Ecology resources, and Ecology requested that that activity also be reflected under planned actions.

### **Interim Stabilization Consent Decree**

Ecology requested that ORP determine if action needed to be taken with the court because of the delays in retrieval of S-102. ORP responded that they did not think so, but would confirm this.

### **Milestone M-23-00, Tank Integrity and Monitoring**

ORP is waiting for a letter from Ecology acknowledging completion of this milestone. Ecology inquired about the transmittal date of the final report, which was six months after the milestone due date. ORP explained that the physical activities were completed by the due date, which was the milestone requirement. Ecology stated that the report has been reviewed and the intent of the milestone has been met.

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

#### Accomplishments

ORP corrected the last bullet under accomplishments, noting that the Tank S-102 hose liquid sampling has not been completed. Sampling is scheduled to take place within the next couple weeks.

#### Planned Action Within the Next Six Months

ORP stated that the Tank 241-S-302 grab sampling has been completed.

### **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**

#### 242-A Evaporator Status

HVAC and monitoring control system upgrades are ongoing.

EPA inquired about ORP's letter regarding waste in 20 tanks that it wanted to designate as TRU and send to WIPP. EPA had requested information from ORP by December 2007 so EPA could evaluate whether to designate the tank waste as TRU. Otherwise, the tanks would have to come out of the projected inventory to WIPP. ORP will determine whether there is still interest in this issue and provide a response to EPA.

#### **M-48-00 DST Integrity Assessment Program**

Ecology sent a letter dated October 18, 2007 acknowledging completion of milestones M-48-15 and M-48-00.

**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.**

#### Significant Accomplishments

EPA formally withdrew their comment letter on the IDF Permit Modification in October 2007.

#### **FY 2007 ORP TPA Cost & Schedule Performance (CHG)**

ORP reported that the OEMM validation for the DBVS project was received to proceed with CV2.

Ecology inquired if the costs for the tank retrieval readiness reviews would be captured as S-102 costs. ORP stated the readiness review costs would be part of the costs for each tank retrieval.

EPA expressed that they understood recovery would cost a lot and the presentation seems to indicate that ORP had positive cost and schedule variances that would cover the recovery impacts. ORP explained that at this time they have not projected to end 2008 with a negative cost and schedule variance. ORP explained that their current baseline accounts for adverse events such as pump failures, camera failures and those types of things and they had not experienced as many of these type of failures so it created some positive variance to offset the recovery impacts.

The State of Oregon requested the total cost for S-102 recovery and ORP stated the estimated cost was 4 million.

#### **M-62-08, M-62-11 Bulk Vitrification/Supplemental Technologies**

ORP provided a status on significant accomplishments, planned actions and issues.

**BNI Cost & Schedule Performance; and M-62-00, Complete Pretreatment Processing and Vitrification of Tank Wastes**

ORP distributed the Congressional report for the Low Activity Waste Facility (LAW), Analytical Laboratory and Balance of Facilities (BOF) as a supplement for today's presentation.

There was long discussion of the merits of adding a third melter as a standby. ORP explained that this would not be a good return on investment and there would be significant engineering issues.

ORP reported that there is increasing difficulty with obtaining sufficient labor (welders and control engineers) in Carlsbad, New Mexico, where the skids are being fabricated for the Pretreatment Engineering Platform (PEP). The schedule has slipped for delivery of the last skid from December 2007 to February 2008. BNI is looking at ways to recover the schedule.

Erosion testing rates have been higher than anticipated, which sent ORP back to a replanning stage. DOE, ORP and Bechtel reached agreement this week on a new suite of erosion testing.

The resumption of construction of the Pretreatment Facility was originally targeted for the beginning of November 2007. The readiness review is taking longer than anticipated, and construction has not started. However, the original restart of construction was scheduled for the January 2008 time frame, and the November date was planned in an effort to mobilize engineering and construction forces to avoid a high labor peak later on.



**Agenda**  
November 15, 2007

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

**Chairperson: Delmar Noyes**

9:00 a.m. – 11:40 a.m.

Page	Topic	Leads	Time
3	TPA Milestone Statistics	Woody Russell Suzanne Dahl / Jeff Lyon	9:00
60	M-45, -50, -60 Single-Shell Tank Corrective Action	Bob Lober / Joe Caggiano	9:10
62	M-45-00, Complete Closure of All Single-Shell Tank Farms	Roger Quintero / Jeff Lyon	9:30
71	Interim Stabilization Consent Decree	John Long / Nancy Uziemblo	10:00
72	M-23-00, Tank Integrity and Monitoring	John Long / Jeff Lyon	10:10
73	In Tank Characterization and Summary	John Long / Michael Barnes	10:20
74	M-47-00, Tank Waste Treatment, Storage and Disposal Facilities	Corbun Babel / Les Fort	10:30
76	M-48-00, DST Integrity Assessment Program	Cathy Louie / Les Fort	10:40
78	M-90-00, Complete Acquisition of Facilities for Interim Storage of IHLW and Storage/ Disposal of ILAW and M-20, Part B Permits	Cathy Louie / Bud Derrick	10:50
	<b>BREAK</b>		
17	FY 2007 ORP TPA Cost & Schedule Performance (CHG)	Janet Diediker Suzanne Dahl / Jeff Lyon	11:10
98	M-62-08, M-62-11 Bulk Vitrification/Supplemental Technologies	Ben Harp / Suzanne Dahl	11:20
97	BNI Cost & Schedule Performance and M-62-00, Complete Pretreatment Processing and Vitrification of Tank Wastes	Bruce Nicoll / Pete Furlong / Wahed Abdul / Suzanne Dahl	11:30

Office of River Protection

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Tri-Party Agreement  
Quarterly Milestone Review Meeting  
November 15, 2007



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

4<sup>th</sup> Quarter 2007

## Agenda

Office of River Protection  
Tri-Party Agreement  
Quarterly Milestone Review Meeting  
Ecology Offices  
November 15, 2007  
9:00 a.m. – 12:00 p.m.

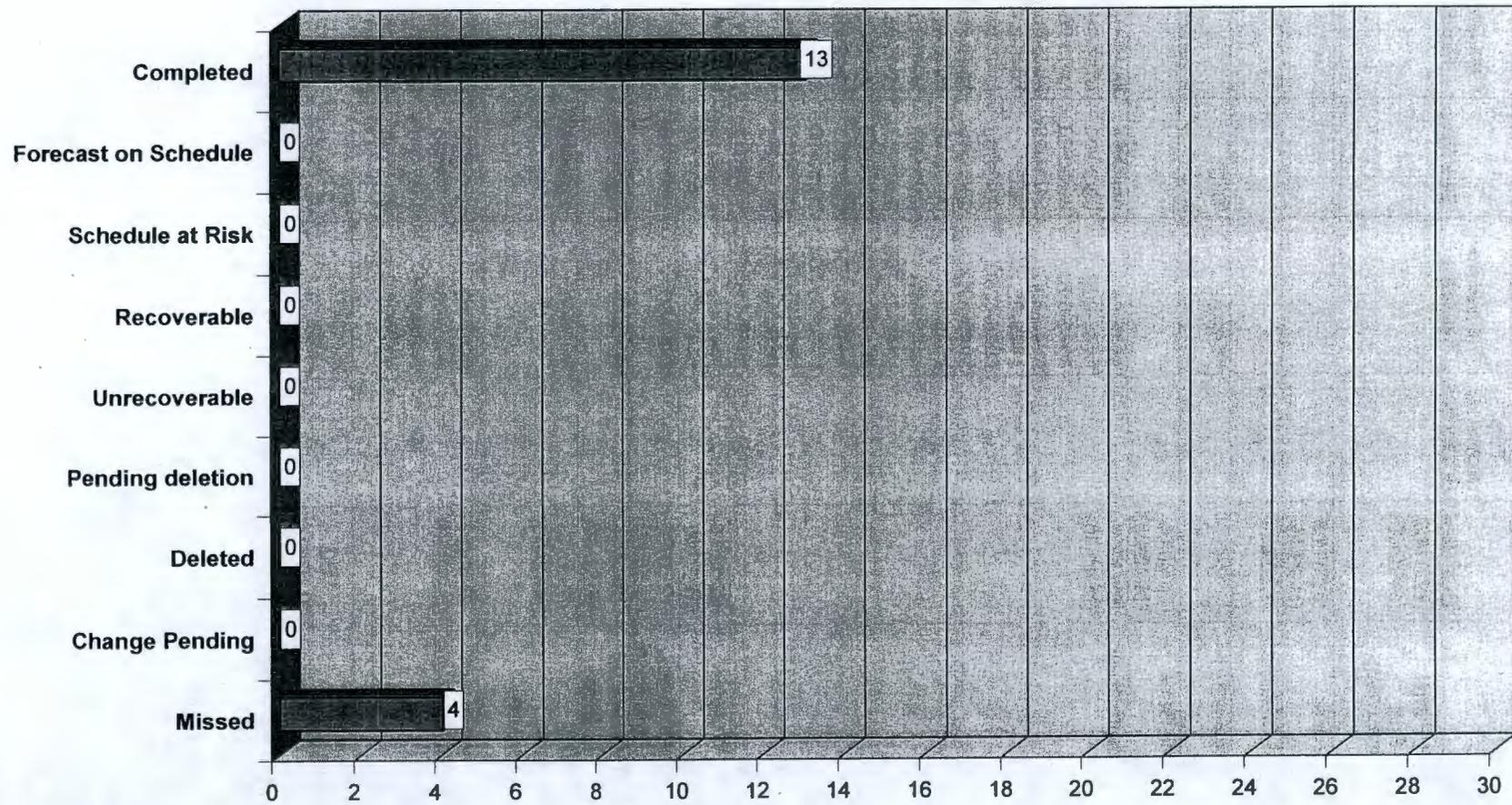
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17	FY 2007 ORP TPA Cost & Schedule Performance (CHG)	Janet Diediker Suzanne Dahl / Jeff Lyon	11:10
95	M-62-08, M-62-11 Bulk Vitrification/Supplemental Technologies	Ben Harp / Suzanne Dahl	11:20
79 - 94	BNI Cost & Schedule Performance and M-62-00, Complete Pretreatment Processing and Vitrification of Tank Wastes	Bruce Nicoll / Pete Furlong / Wahed Abdul / Suzanne Dahl	11:30

**TPA Milestone Statistics**

(Including target milestones)

Milestone	Due Date	Total Active as of 03/31/06	Milestone Number	Due Date	Milestone Number	Due Date
M-20-00, Submit Part B Permit Application on Closure/Post Closure Plans for all RCRA TSD Units	12/31/08 (M-20-00)	0				
M-23-25, Tank Integrity and Monitoring	03/31/05 (M-23-25)	0				
M-23-27, Complete 244-CR Liquid Level Assessment	12/30/04	0				
M-42-00, Provide Additional DST Capacity	TBD	1	M-42-00	TBD		
M-43-00, Complete Tank Farm Upgrades	06/30/05 (M-43-00)	0				
M-45-00, Complete Closure of all SST Farms	09/30/24 (M-45-00)	31	M-45-00 M-45-00B M-45-00C M-45-00D M-45-02 M-45-02N M-45-02O M-45-05 M-45-05A M-45-05-T05 M-45-05-T06 M-45-05-T07 M-45-05-T08 M-45-05-T09 M-45-05-T10 M-45-05-T11	09/30/24 09/30/06 09/30/06 01/31/08 TBD 03/01/08 03/01/10 09/30/18 03/31/07 09/30/07 09/30/08 09/30/09 09/30/10 09/30/11 09/30/12 09/30/13	M-45-05-T12 M-45-05-T13 M-45-05-T14 M-45-05-T15 M-45-06 M-45-06-T03 M-45-06-T04 M-45-13 M-45-15 M-45-55 M-45-56 M-45-58 M-45-59 M-45-60	09/30/14 09/30/15 09/30/16 09/30/17 09/30/24 03/31/12 03/31/14 12/31/07 12/31/07 01/31/07 TBD 06/30/07 TBD 09/30/07
M-47-00, Complete All Work for Phase 1 Operations	02/28/18 (M-47-00)	3	M-47-00 M-47-03A	02/28/18 03/31/09	M-47-06	06/30/10
M-50-00, Complete Pretreatment Processing of Hanford Tank Waste	12/31/28 (M-50-00)	1	M-50-00	12/31/28		
M-51-00, Complete Vitrification of Hanford High Level Tank Waste	12/31/28 (M-51-00)	1	M-51-00	12/31/28		
M-61-00* (alternate path), Complete Pretreatment & Immobilization of Hanford Low Activity Tank Waste	12/31/28 (M-61-00)	1	M-61-00	12/31/28		
M-62-00, Complete Pretreatment Processing and Vitrification of Tank Wastes	12/31/28 (M-62-00)	9	M-62-00 M-62-00A M-62-01P M-62-01Q	12/31/28 02/28/18 01/31/08 07/31/08	M-62-07B M-62-08 M-62-09 M-62-10 M-62-11	12/31/07 06/30/06 02/28/09 01/31/11 06/30/07
M-90-00, Interim Storage and Disposal of LAW and Interim Storage of HLW	TBD (M-90-00)	3	M-90-00 M-90-10 M-90-11	TBD 08/31/08 08/31/10		
M-48-00, DST Integrity Program, Submit Results of 4 DSTs not Previously Examined	09/30/07	0				
Interim Stabilization Consent Decree	09/30/04 (D-001-00)	1	D-001-00			
<b>Total Active Milestones:</b>		<b>51</b>				

### 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	10/31/05								
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								
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-	3/31/06	3/30/06								

## 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						
	07A, and thus labeled as M-48-07A-B										
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	02/2/05								
M-045-55-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 & U Pursuant To The Site-Specific SST WMA Phase 1 RFI/CMS Work Plan Addenda For WMA A-AX, C And U. As part of the Phase 2 Vadose Zone project renegotiations, being developed, this target milestone scope will be included in M-45-55 Phase 1 Rollup documentation due in 1/07. Project continues to complete field characterization activities per approved work plan, but will defer stand alone paper study for additional characterization during phase 1.	04/30/06						X			X
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	06/30/06	06/28/06								

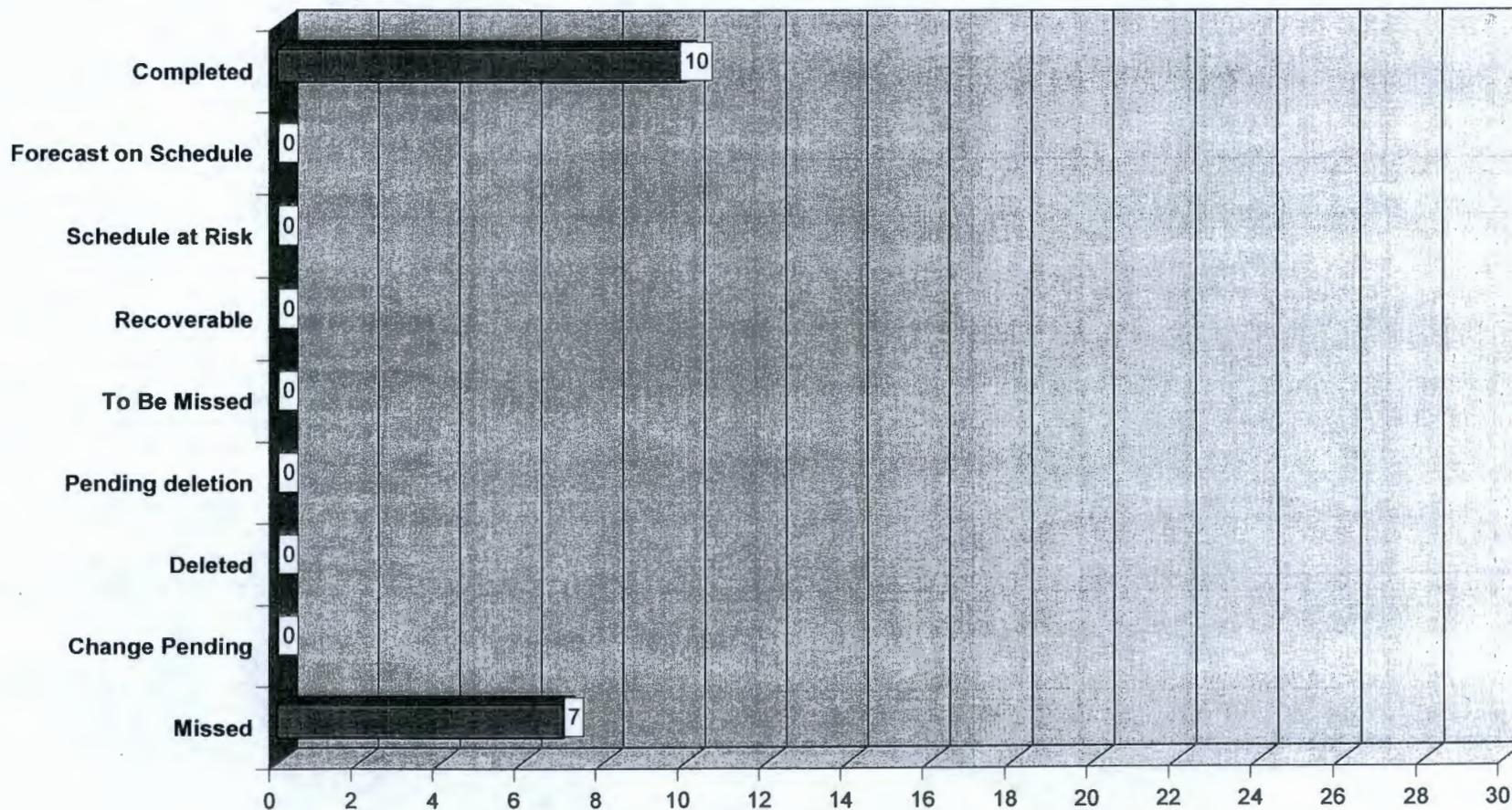
## Fiscal Year 2006 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
	construction of SY-B Valve Pit upgrade [see M 48-07A-C].										
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	6/27/06								
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).	06/3/06						X			
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	09/05/06								
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	09/30/06						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						
	period February 07 through August 08).										

### FY 2007 MILESTONE PERFORMANCE



## Fiscal Year 2007 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	To Be Missed	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 Vitriified HLW	12/31/06	12/31/06								
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								
M-045-55	Submit to Ecology For Review And Approval as an Agreement Primary Document a Phase I RFI Report integrating results of data gathering activities and evaluations for all SST WMAs.	01/31/07						X			X
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	01/31/07	01/31/07								

## Fiscal Year 2007 Tri-Party Agreement Milestone Status

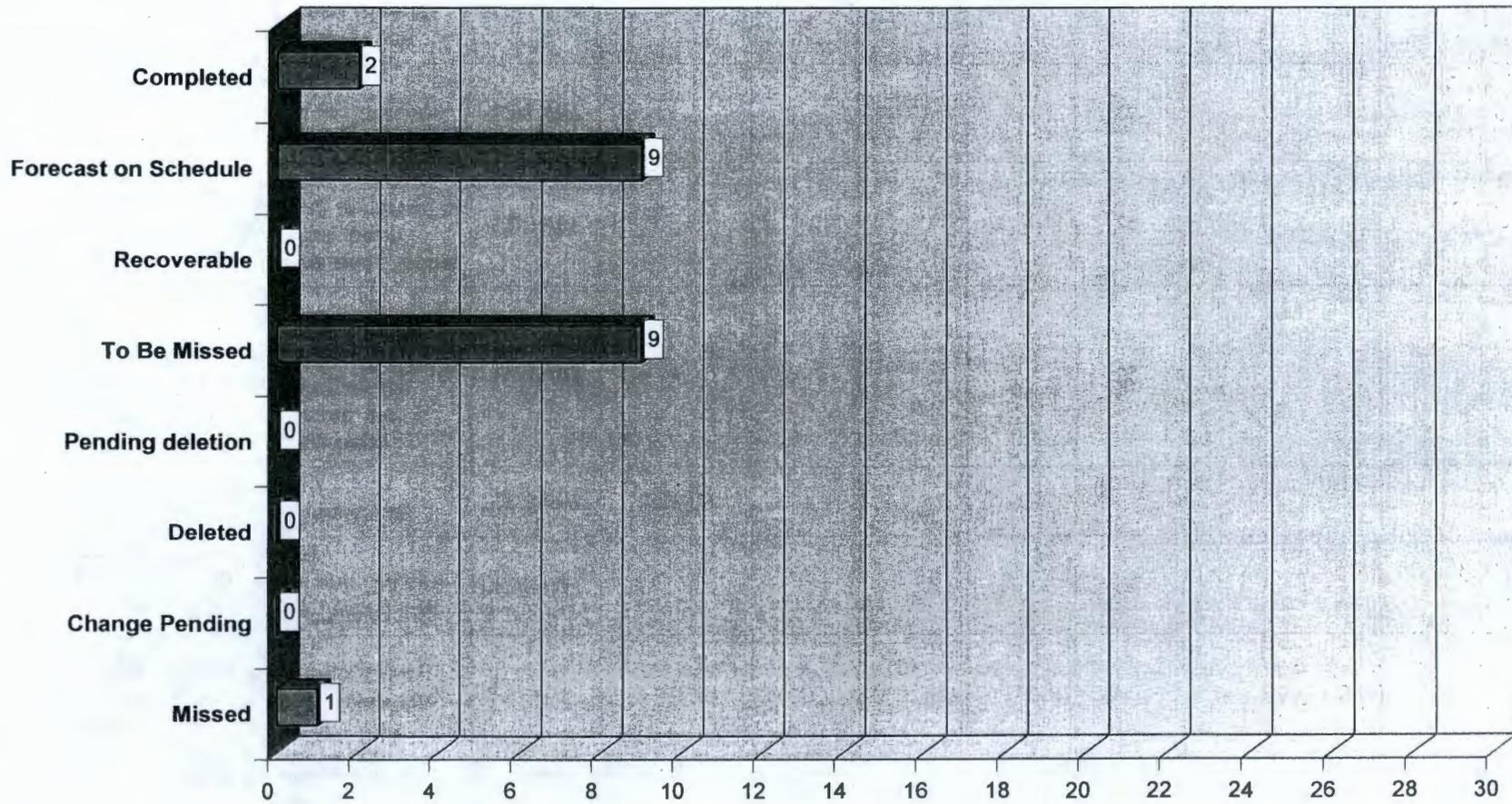
Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	To Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
	Covered By The Report. This Written Report Shall Provide The Status Of Progress Made During The Reporting Period.										
M-045-05A	Complete Waste Retrieval from S-102	3/31/07						X			
D-001-00-R32	DOE Shall, On A Quarterly Basis, Submit To Ecology A Written Report Documenting Tank Stabilization Activities That Occurred During The Period Covered By The Report. This Written Report Shall Provide The Status Of Progress Made During The Reporting Period.	04/30/07	04/27/07								
M-045-58	Submit to Ecology for review and approval as an Agreement Primary Document a corrective measures study for interim corrective measures (pending results and conclusions in the Phase 1 RFI report- Milestone M-45-55 or subsequent RFI reports).	06/30/07						X			X
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	07/31/07	07/31/07								

## Fiscal Year 2007 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	To Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
	information, and the need for the establishment of additional agreement interim measures.										
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	0731/07								
M-045-60	Submit to Ecology for review and approval as an Agreement Primary Document DOE's RFI/CMS work plan for all SST WMAs.	09/30/07						X			X
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	09/27/07								
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	09/27/07								

\* 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		X							
M-045-13	Interim completion of Tank S-112 SST Waste Retrieval and Closure demonstration project.	12/31/07					X				X
M-045-13-A	Full Scale Waste Retrieval has been Completed.	12/31/07	3/28/07								
M-045-13-B	Remaining waste have been adequately characterized, and a risk assessment , approved by Ecology, has been completed for S-112 residuals that remain in the tank	12/31/07					X				X
M-045-13-C	S-112 Waste Retrieval and Closure Demonstration Plan has been submitted by DOE and approved by Ecology	12/31/07					X				X
M-045-15	Interim completion of Tank S-102 SST Waste Retrieval and Closure demonstration project.	12/31/07					X				X
M-045-15-A	Full Scale Waste Retrieval has been completed. Missed (See M-045-05A)	12/31/07						X			X
M-045-15-B	Remaining waste have been adequately characterized, and a risk assessment , approved by	12/31/07					X				X

## Fiscal Year 2008 Tri-Party Agreement Milestone Status

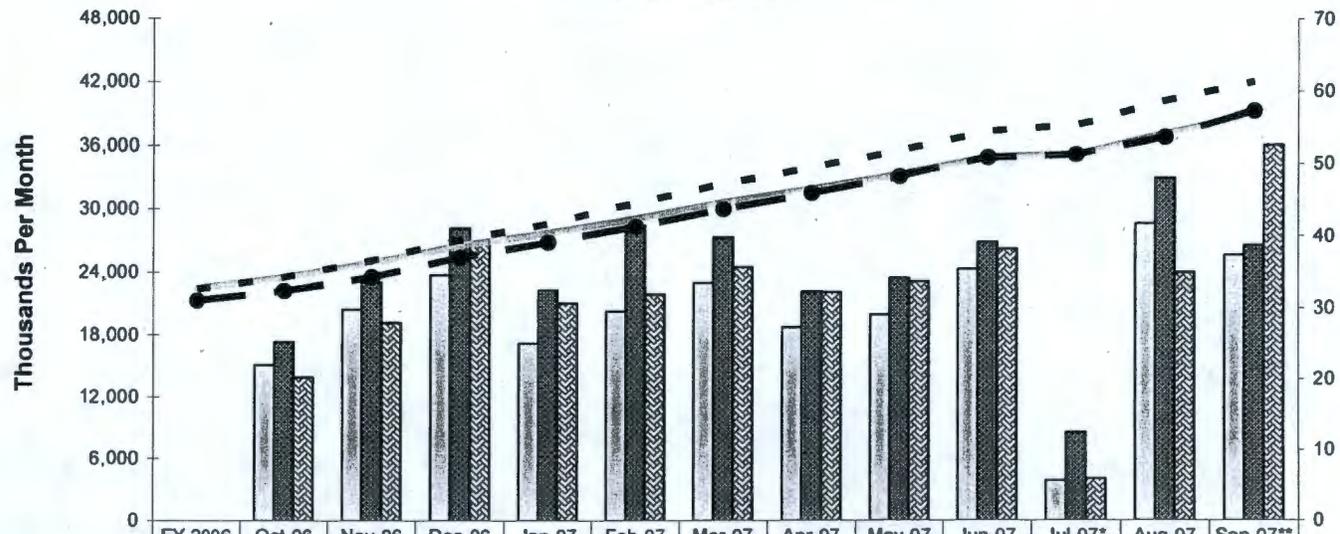
Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
	Ecology, has been completed for S-102 residuals that remain in the tank										
M-045-15-C	S-102 Waste Retrieval and Closure Demonstration Plan has been submitted by DOE and approved by Ecology	12/31/07					X				X
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		X							
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		X							
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		X							
M-045-02N-A	Three Parties shall meet to establish new milestones within 60 days, if required, for acquisition of additional tanks	04/30/08		X							
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		X							
M-045-00D-A	Negotiations shall be complete	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						
	within 150 days										
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.	07/01/08		X							
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		X							
M-062-01Q	Submit Semi-Annual Project Compliance Report	07/31/08		X							
M-090-10	Ready to accept placement of ILAW in ILAW Disposal Facility	08/31/08	02/13/07								

# CURRENT MONTH/CONTRACT TO-DATE PERFORMANCE – GRAPH

**CH2M HILL Contract-to-Date Performance (\$000)**  
10/2005 - 09/2007



	FY 2006	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07*	Aug-07	Sep-07**
Mthly Plan (BCWS)	0	15,128	20,472	23,767	17,166	20,273	23,002	18,789	20,012	24,311	3,885	28,655	25,630
Mthly Perf (BCWP)	0	17,306	23,051	28,161	22,301	28,455	27,319	22,213	23,470	26,889	8,568	32,946	26,539
Mthly Actuals (ACWP)	0	13,947	19,194	26,739	21,044	21,870	24,530	22,166	23,155	26,238	4,033	24,019	36,108
CTD Plan (BCWS)	328,060	343,187	363,659	387,427	404,592	424,865	447,826	466,535	486,547	510,858	514,744	543,399	569,029
CTD Perf (BCWP)	326,127	343,433	366,484	394,645	416,946	445,401	472,720	494,933	518,403	545,292	553,860	586,806	613,344
CTD Actuals (ACWP)	310,197	324,145	343,338	370,078	391,122	412,992	437,522	459,687	482,842	509,080	513,113	537,132	573,240

\*Note (All Graphs): BCR RPP-07-052, FY 2006 Fee Adjustment, was processed during the month of July resulting in a reduction to BCWS, BCWP, and ACWP of \$15.3M to maintain the cost and schedule variances at zero dollars for the fee account.

\*\*September costs reflect \$11.5M early pension payment that will be recovered in FY 2008 through a reduced COS rate.

BCWS = Budgeted Cost For Work Scheduled

BCWP = Budgeted Cost for Work Performed

ACWP = Actual Cost for Work Perform

**CURRENT MONTH (CM) PERFORMANCE - CHART**

**CH2M HILL Hanford Group, Inc.**  
**CURRENT MONTH PERFORMANCE MEASUREMENT - 09/2007**  
**BY WORK BREAKDOWN STRUCTURE**  
**Dollars in Thousands**

WBS	TITLE	Budgeted Cost			Current Month		
		Work Scheduled	Work Performed	Actual Cost Work Performed	Variance		
					Schedule	SV %	Cost
<b>5.07</b>	<b>BASE OPERATIONS - Excluding 5.07.02</b>	13,252.2	13,199.9	19,504.5	(52.4)	-0.4%	(6,304.6)
5.07.02	Env/TPA Milestone Achievement	<u>1,666.9</u>	<u>1,124.7</u>	<u>1,667.1</u>	<u>(542.3)</u>	-32.5%	<u>(542.4)</u>
	<b>TOTAL BASE OPERATIONS</b>	<u>14,919.2</u>	<u>14,324.5</u>	<u>21,171.6</u>	<u>(594.6)</u>	-4.0%	<u>(6,847.1)</u>
<b>5.08</b>	<b>RETRIEVE AND CLOSE - Excluding foll. WBS Elements</b>	0.0	0.0	5.0	0.0	0.0%	(5.0)
5.08.02	WTP Feed Delivery Program	691.7	691.7	646.7	(0.1)	0.0%	44.9
5.08.03	DST Retrieval Program	0.0	26.8	17.8	26.8	26.8%	9.0
5.08.04.01	Tank Farm Restoration and Safe Operations (W-314)	0.0	300.5	399.6	300.5	300.5%	(99.2)
5.08.04.02	Upgrade Transfer System (E-525)	0.0	0.0	0.0	0.0	0.0%	0.0
5.08.05	Retrieval / Closure Program	4,797.3	4,159.4	5,807.1	(637.9)	-13.3%	(1,647.7)
5.08.06/07	SST Retrieval East / West Area	1,174.5	2,784.7	4,187.3	1,610.3	137.1%	(1,402.6)
5.08.12/13	SST Closure	<u>30.4</u>	<u>31.2</u>	<u>22.1</u>	<u>0.8</u>	2.7%	<u>9.0</u>
	<b>TOTAL RETRIEVE AND CLOSE</b>	<u>6,693.9</u>	<u>7,994.2</u>	<u>11,085.7</u>	<u>1,300.4</u>	19.4%	<u>(3,091.5)</u>
<b>5.09</b>	<b>TREAT AND DISPOSE WASTE - Excl. foll. WBS Elements</b>	460.6	498.3	396.0	37.7	8.2%	102.3
5.09.02.02	TRU / LLW Packaging	0.0	0.0	0.0	0.0	0.0%	0.0
5.09.02.03/08	LAW Treatment	67.5	67.5	(19.3)	0.0	0.0%	86.8
5.09.02.05/11	Bulk Vitrification System (BVS) Project	0.0	232.5	1,362.5	232.5	232.5%	(1,130.0)
5.09.03.01	Integrated Disposal Facility	0.0	0.0	(0.5)	0.0	0.0%	0.5
5.09.03.04	Initial IHLW Storage Facility (W-464)	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	0.0%	<u>0.0</u>
	<b>TOTAL TREAT AND DISPOSE WASTE</b>	<u>528.0</u>	<u>798.3</u>	<u>1,738.8</u>	<u>270.2</u>	51.2%	<u>(940.5)</u>
<b>5.10</b>	<b>ANALYTICAL/TECHNICAL SERVICES</b>	<u>3,488.7</u>	<u>3,421.5</u>	<u>2,111.6</u>	<u>(67.3)</u>	-1.9%	<u>1,309.9</u>
<b>TFC TOTAL</b>		<u>25,629.8</u>	<u>26,538.5</u>	<u>36,107.7</u>	<u>908.7</u>	3.5%	<u>(9,569.1)</u>

BCWS = Budgeted Cost For Work Scheduled

BCWP = Budgeted Cost for Work Performed

ACWP = Actual Cost for Work Perform

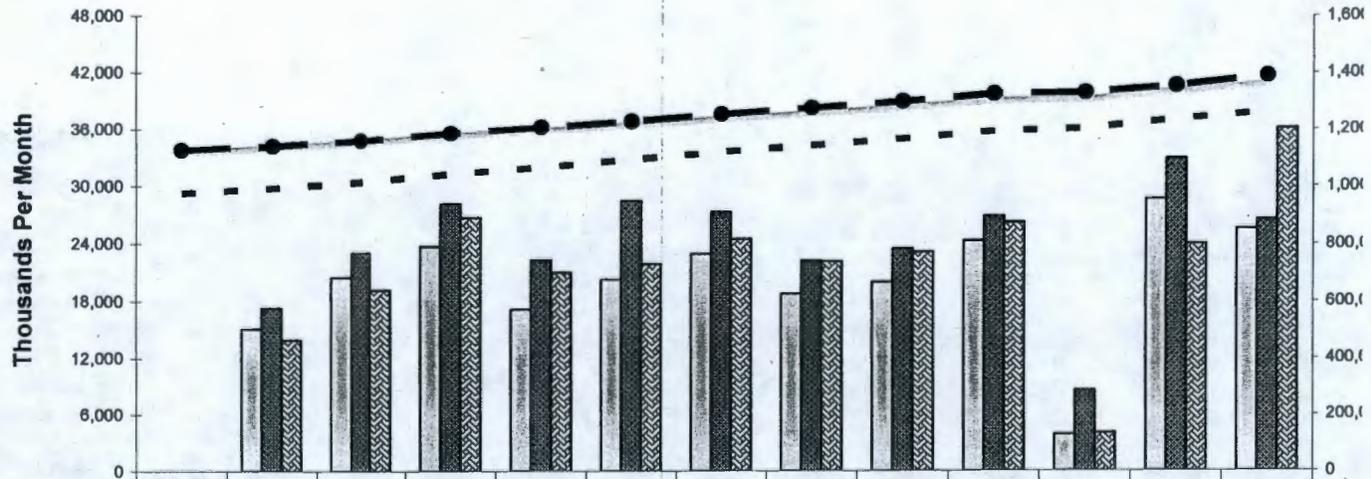
# CONTRACT-TO-DATE PERFORMANCE - CHART

## CH2M HILL Hanford Group, Inc. CONTRACT-TO-DATE PERFORMANCE MEASUREMENT - 10/2005 - 09/2007 BY WORK BREAKDOWN STRUCTURE Dollars in Thousands

WBS	TITLE	Cumulative Contract-To-Date															
		Budgeted Cost			Variance				Budget at Completion (BAC)*	Accelerated Scope							
		Work Scheduled	Work Performed	Actual Cost Work Performed	Schedule	SV %	Cost	CV %									
5.07	<b>BASE OPERATIONS - Excluding 5.07.02</b>	274,734.1	275,225.0	259,429.8	490.8	0.2%	15,795.2	5.7%	414,933.4	1,300.1							
5.07.02	Env/TPA Milestone Achievement	<u>36,488.0</u>	<u>39,541.7</u>	<u>38,209.7</u>	<u>3,053.7</u>	8.4%	<u>1,332.0</u>	3.4%	<u>48,986.5</u>	<u>4,431.6</u>							
	<b>TOTAL BASE OPERATIONS</b>	<u>311,222.1</u>	<u>314,766.7</u>	<u>297,639.5</u>	<u>3,544.5</u>	1.1%	<u>17,127.2</u>	5.4%	<u>463,919.9</u>	<u>5,731.7</u>							
5.08	<b>RETRIEVE AND CLOSE - Excluding foll. WBS Elements</b>	0.0	268.4	204.2	268.4	268.4%	64.2	23.9%	0.0	298.2							
5.08.02	WTP Feed Delivery Program	14,611.9	14,611.9	13,183.5	0.0	0.0%	1,428.4	9.8%	22,019.8	0.0							
5.08.03	DST Retrieval Program	1,676.3	1,850.3	2,204.5	174.1	10.4%	(354.1)	-19.1%	1,676.3	1,338.9							
5.08.04.01	Tank Farm Restoration and Safe Operations (W-314)	2,865.8	6,214.8	6,621.3	3,349.0	116.9%	(406.5)	-6.5%	2,865.8	7,892.0							
5.08.04.02	Upgrade Transfer System (E-525)	2,712.4	2,712.4	2,982.8	0.0	0.0%	(270.4)	-10.0%	2,712.4	0.0							
5.08.05	Retrieval / Closure Program	101,098.8	99,082.7	92,342.7	(2,016.1)	-2.0%	6,740.0	6.8%	148,974.5	0.0							
5.08.06/07	SST Retrieval East / West Area	40,918.7	67,554.5	58,657.5	26,635.9	65.1%	8,897.1	13.2%	52,240.1	72,541.1							
5.08.12/13	SST Closure	<u>776.5</u>	<u>776.5</u>	<u>727.6</u>	<u>0.0</u>	0.0%	<u>48.9</u>	6.3%	<u>1,101.8</u>	<u>0.0</u>							
	<b>TOTAL RETRIEVE AND CLOSE</b>	<u>164,660.3</u>	<u>193,071.4</u>	<u>176,923.9</u>	<u>28,411.2</u>	17.3%	<u>16,147.5</u>	8.4%	<u>231,590.7</u>	<u>82,070.2</u>							
5.09	<b>TREAT AND DISPOSE WASTE - Excl. foll. WBS Elements</b>	8,734.9	8,746.8	7,055.0	11.9	0.1%	1,691.8	19.3%	13,904.0	0.0							
5.09.02.02	TRU / LLW Packaging	0.0	0.0	65.6	0.0	0.0%	(65.6)	-65.6%	0.0	0.0							
5.09.02.03/08	LAW Treatment	1,424.1	1,424.1	1,370.3	0.0	0.0%	53.9	3.8%	2,150.2	0.0							
5.09.02.05/11	Bulk Vitrification System (BVS) Project	26,639.2	39,263.5	41,271.2	12,624.3	47.4%	(2,007.7)	-5.1%	26,639.2	13,841.8							
5.09.03.01	Integrated Disposal Facility	7,132.9	7,132.9	5,366.1	0.0	0.0%	1,766.8	24.8%	7,132.9	0.0							
5.09.03.04	Initial IHLW Storage Facility (W-464)	<u>109.4</u>	<u>109.4</u>	<u>35.1</u>	<u>0.0</u>	0.0%	<u>74.3</u>	67.9%	<u>109.4</u>	<u>0.0</u>							
	<b>TOTAL TREAT AND DISPOSE WASTE</b>	<u>44,040.5</u>	<u>56,676.7</u>	<u>55,163.2</u>	<u>12,636.2</u>	28.7%	<u>1,513.5</u>	2.7%	<u>49,935.7</u>	<u>13,841.8</u>							
5.10	<b>ANALYTICAL/TECHNICAL SERVICES</b>	<u>49,105.8</u>	<u>48,829.6</u>	<u>43,513.0</u>	<u>(276.2)</u>	-0.6%	<u>5,316.5</u>	10.9%	<u>76,652.5</u>	<u>0.0</u>							
<b>TFC TOTAL</b>		<u>569,028.7</u>	<u>613,344.4</u>	<u>573,239.6</u>	<u>44,315.7</u>	<u>7.8%</u>	<u>40,104.8</u>	<u>6.5%</u>	<u>822,098.7</u>	<u>101,643.7</u>							
Note: The following accelerated work is included in the EAC and in the adjusted total: Tanks 241-C-104, 241-C-110, 241-S-102 Retrievals; W-314 and WFO Upgrades work; Cross-Site Transfer; and DBVS Technology Development.																	
* BAC on this chart and in succeeding Cumulative Performance tables is for the period FY 2006 - FY 2008.																	
** EAC on this chart is for the contract period (through FY 2008).																	
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%; text-align: right;"><b>BAC</b></td> </tr> <tr> <td></td> <td style="text-align: right;"><u>822,098.7</u></td> </tr> <tr> <td></td> <td style="text-align: right;"><b>Adjusted Total with Accelerated Scope</b></td> </tr> <tr> <td></td> <td style="text-align: right;"><u>923,742.4</u></td> </tr> </table>											<b>BAC</b>		<u>822,098.7</u>		<b>Adjusted Total with Accelerated Scope</b>		<u>923,742.4</u>
	<b>BAC</b>																
	<u>822,098.7</u>																
	<b>Adjusted Total with Accelerated Scope</b>																
	<u>923,742.4</u>																

# PROGRAM-TO-DATE (PTD) Performance - Graph

**CH2M HILL Program-to-Date Performance (\$000)**  
10/2003 - 09/2007



	Oct-03/ Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07
Mthly Plan (BCWS)	0	15,128	20,472	23,767	17,166	20,273	23,002	18,789	20,012	24,311	3,885	28,655	25,630
Mthly Perf (BCWP)	0	17,306	23,051	28,161	22,301	28,455	27,319	22,213	23,470	26,889	8,568	32,946	26,539
Mthly Actuals (ACWP)	0	13,947	19,194	26,739	21,044	21,870	24,530	22,166	23,155	26,238	4,033	24,019	36,108
PTD Plan (BCWS)	1,115,888	1,131,014	1,151,486	1,175,253	1,192,419	1,212,692	1,235,694	1,254,483	1,274,495	1,296,808	1,302,691	1,331,347	1,356,976
PTD Perf (BCWP)	974,119	991,425	1,014,476	1,042,637	1,064,938	1,093,393	1,120,712	1,142,925	1,166,395	1,193,284	1,201,852	1,234,798	1,261,337
PTD Actuals (ACWP)	1,126,775	1,140,722	1,159,916	1,186,655	1,207,700	1,229,569	1,254,099	1,276,265	1,299,420	1,325,657	1,329,691	1,353,709	1,389,817

BCWS = Budgeted Cost For Work Scheduled

BCWP = Budgeted Cost for Work Performed

ACWP = Actual Cost for Work Perform

## PTD Cost/Schedule Performance – Chart

CH2M HILL Hanford Group, Inc.  
 CUMULATIVE PERFORMANCE MEASUREMENT - 10/2003 - 09/2007  
 BY WORK BREAKDOWN STRUCTURE

Dollars in Thousands

WBS	TITLE	Cumulative Program-To-Date						
		Budgeted Cost		Actual Cost Work Performed	Variance			
		Work Scheduled	Work Performed		Schedule	SV %	Cost	CV %
<b>5.07</b>	<b>BASE OPERATIONS - Excluding 5.07.02</b>	535,063.2	532,156.6	531,310.3	(2,906.7)	-0.5%	846.3	0.2%
5.07.02	Env/TPA Milestone Achievement	<u>94,445.0</u>	<u>88,773.6</u>	<u>78,719.6</u>	<u>(5,671.3)</u>	-6.0%	<u>10,054.0</u>	11.3%
	<b>TOTAL BASE OPERATIONS</b>	<u>629,508.2</u>	<u>620,930.2</u>	<u>610,029.8</u>	<u>(8,578.0)</u>	-1.4%	<u>10,900.3</u>	1.8%
<b>5.08</b>	<b>RETRIEVE AND CLOSE - Excluding foll. WBS elements</b>	6,785.7	7,208.2	4,171.4	422.5	6.2%	3,036.7	42.1%
5.08.02	WTP Feed Delivery Program	36,056.8	35,891.4	43,935.1	(165.5)	-0.5%	(8,043.7)	-22.4%
5.08.03	DST Retrieval Program	30,547.2	21,635.0	25,624.6	(8,912.2)	-29.2%	(3,989.6)	-18.4%
5.08.04.01	Tank Farm Restoration and Safe Operations (W-314)	37,633.4	37,817.7	45,056.6	184.3	0.5%	(7,238.9)	-19.1%
5.08.04.02	Upgrade Transfer System (E-525)	17,307.8	14,165.1	26,709.8	(3,142.7)	-18.2%	(12,544.7)	-88.6%
5.08.05	Retrieval / Closure Program	191,327.6	178,899.1	192,369.3	(12,428.4)	-6.5%	(13,470.2)	-7.5%
5.08.06/07	SST Retrieval East / West Area	134,542.7	106,371.9	174,772.4	(28,170.9)	-20.9%	(68,400.6)	-64.3%
5.08.12/13	SST Closure	<u>17,440.5</u>	<u>7,579.6</u>	<u>11,005.2</u>	<u>(9,860.9)</u>	-56.5%	<u>(3,425.6)</u>	-45.2%
	<b>TOTAL RETRIEVE AND CLOSE</b>	<u>471,641.7</u>	<u>409,567.9</u>	<u>523,644.5</u>	<u>(62,073.8)</u>	-13.2%	<u>(114,076.6)</u>	-27.9%
<b>5.09</b>	<b>TREAT AND DISPOSE WASTE - Excl. foll. WBS Elements</b>	30,920.9	28,090.5	21,777.1	(2,830.4)	-9.2%	6,313.4	22.5%
5.09.02.02	TRU / LLW Packaging	28,343.4	11,695.5	19,883.5	(16,647.9)	-58.7%	(8,188.0)	-70.0%
5.09.02.03/08	LAW Treatment	6,073.4	5,918.2	6,161.5	(155.2)	-2.6%	(243.3)	-4.1%
5.09.02.05/11	Bulk Vitrification System (BVS) Project	58,842.4	59,966.0	98,488.9	1,123.6	1.9%	(38,522.9)	-64.2%
5.09.03.01	Integrated Disposal Facility	33,911.0	29,670.8	20,707.4	(4,240.2)	-12.5%	8,963.4	30.2%
5.09.03.04	Initial IHLW Storage Facility (W-464)	<u>4,789.3</u>	<u>4,553.4</u>	<u>2,673.2</u>	<u>(235.9)</u>	-4.9%	<u>1,880.2</u>	41.3%
	<b>TOTAL TREAT AND DISPOSE WASTE</b>	<u>162,880.4</u>	<u>139,894.3</u>	<u>169,691.6</u>	<u>(22,986.0)</u>	-14.1%	<u>(29,797.2)</u>	-21.3%
<b>5.10</b>	<b>ANALYTICAL/TECHNICAL SERVICES</b>	<u>92,946.1</u>	<u>90,944.3</u>	<u>86,451.2</u>	<u>(2,001.8)</u>	-2.2%	<u>4,493.2</u>	4.9%
<b>RPP TOTAL</b>		<u>1,356,976.4</u>	<u>1,261,336.8</u>	<u>1,389,817.1</u>	<u>(95,639.7)</u>	-7.0%	<u>(128,480.4)</u>	-10.2%

\* BAC on this chart and in succeeding Cumulative Performance tables is for the period through FY 2008.

## **EXECUTIVE SUMMARY**

### **ON**

## **TANK FARM EARNED VALUE REPORTING**

The Executive Summary reports the cost and schedule performance for the Tank Farm Contractor (TFC), CH2M HILL Hanford Group, Inc. for the month of August 2007:

The company's contract-to-date (CTD) positive cost variance decreased in the current month (CM) by \$9.6M to \$49.7M. The CM decrease was primarily due to unfavorable variances resulting from an \$11.5M early pension payment.

Additionally, unplanned costs were incurred in response to the Tank 241-S-102 spill event and for the T-Farm Barrier construction activities, and performance related to CM DBVS costs was earned in previous months. The unfavorable CM variance is partially offset by year-end continuity of services (COS) passbacks, Advanced Technologies and Laboratories International, Inc. (ATL) Readiness to Serve costs being less than budgeted, reduction in T-Complex sample analysis and characterization costs, and other miscellaneous efficiencies.

The primary contributors to the CTD favorable cost variance continue to be: CFO-Site Services due to savings and cost efficiencies in Site Wide, Shared and Miscellaneous Services; efficiencies on C and S-Farm Retrievals; and efficiencies in WFO Surveillance and Monitoring, DST to DST Transfers, Project Controls, Cross-Site Transfers, Essential Services, and Analytical Technical Services. The favorable cost variances are partially offset by unfavorable variances due to additional labor and subcontract support on DBVS required for the extended AMEC Earth and Environmental, Inc. (AMEC) design effort completed in FY 2006 and Expert Review Panel and Molten Ionic Salt issues; the

early pension payment; DST Space Management Project due to delays and rework required to modify and fit-up the AP slurry line jumpers; and Tank 241-C-103 and C-200 tank retrievals due to technical issues.

The company's CTD favorable schedule variance increased in the CM by \$0.9M to \$44.3M. The favorable variance for the month was primarily due to acceleration and positive performance of C-Farm retrieval activities and early work performed on T-Farm vapor solutions; partially offset by unfavorable variances on DST Integrity due to completing activities ahead of schedule in prior months, and Evaporator Upgrades where the Flow Indicator Upgrade activity was deferred to FY 2009. The CTD variance is primarily due to acceleration and positive performance on C-Farm and Tank 241-S-102 retrievals; acceleration of DBVS work in FY 2007 supporting the Expert Review Panel issue resolution originally planned for performance in FY 2009; Project W-314 due to Phase 2 SY and AW Upgrades accelerated scope; and acceleration of cross-site transfers and SY-PPP Line Replacement in support of SST retrievals.

## 5.07 - BASE OPERATIONS (EXCLUDES 5.07.02)

**Scope Description:** The baseline scope for this Work Breakdown Structure (WBS) includes monitoring and maintaining the DST and equipment in compliance with Technical Safety Requirements (TSRs), and Environmental, Safety, Health and Quality programmatic requirements. This scope also includes necessary support activities such as project management, engineering, business services, and support to training and procedures. Base Operations also provides site, shared, and miscellaneous services including Service Assessment Pool and Advanced Medical Services. In addition, the contract fee for FY 2006 is included.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	13,252.2	13,199.9	19,504.5	(52.4) -0.4%	(6,304.6) -47.8%	
CTD	274,734.1	275,225.0	259,429.8	490.8 0.2%	15,795.2 5.7%	414,933.4
PTD	535,063.2	532,156.6	531,310.3	(2,906.7) -0.5%	846.3 0.2%	674,700.4

Note (All tables): Dollars in thousands.

### SCHEDULE VARIANCE

**Description and Cause:** The CM and CTD favorable variances are within the threshold of  $\pm 10$  percent or \$1M. The program-to-date (PTD) unfavorable variance is primarily due to the contract fee associated with PBI milestones not being earned in FY 2006 as planned.

**Impact:** None.

**Corrective Action:** None required.

### COST VARIANCE

**Description and Cause:** The CM unfavorable variance is due to an early pension payment that was made during the month; partially offset by passbacks

as a result of under-liquidation of COS Benefits, less than planned costs billed to CH2M HILL by Fluor Hanford, Inc. (FH) for Essential Services, efficiencies realized on T-complex tank characterization activities, and a higher level of work for others than anticipated. The CTD and PTD favorable variances are due to receipt of year-end cost pass backs for COS and to moving spare parts inventory from this cost account to Operations accounts. Additionally, costs are lower than planned for Site-Wide Shared Services, Advanced Medical Services, Business and Occupation taxes, expenses related to site layoffs, work for others, and Project support costs. The favorable variance is partially offset by the early pension payment; and higher than planned costs for the Environmental Health Program sampling activity, WFO surveillance, and the Tank 241-AN-107 Chemistry Optimization activity.

**Impact:** None.

**Corrective Action:** Early pension payment will be recovered by the application of a reduced COS rate in FY 2008.

## 5.07.02 - ENVIRONMENTAL/TRI-PARTY AGREEMENT MILESTONE ACHIEVEMENT

**Scope Description:** The baseline provides for the safe and compliant storage of the Hanford Site tank wastes until waste is retrieved for processing (currently 53 million gallons of waste in 177 SSTs and DSTs and approximately 60 miscellaneous underground storage tanks). This includes monitoring and maintaining activities associated with the Hanford Federal Facility Agreement and Consent Order, commonly referred to as the Tri-Party Agreement. Scope includes compliance efforts to meet Tri-Party Agreement Milestones M-23, M-46, and M-48, including characterization, DST Space Management and DST Integrity. Scope includes transfer operations, and the operations and maintenance of the 242-A Evaporator to reduce the volume of waste stored in DSTs.

	<b>BCWS</b>	<b>BCWP</b>	<b>ACWP</b>	<b>SV</b>	<b>CV</b>	<b>BAC</b>
<b>CM</b>	1,666.9	1,124.7	1,667.1	(542.3) -32.5%	(542.4) -48.2%	
<b>CTD</b>	36,488.0	39,541.7	38,209.7	3,053.7 8.4%	1,332.0 3.4%	48,986.5
<b>PTD</b>	94,445.0	88,773.6	78,719.6	(5,671.3) -6.0%	10,054.0 11.3%	106,943.4

### SCHEDULE VARIANCE

**Description and Cause:** The CM unfavorable variance is due to completing the AN-A and AN-B pit work and the Tank 241-AN-106 UT ahead of the September scheduled completion date. The CTD favorable variance is due to early completion of AN-A and B pit work, DST to DST Transfers and Cross-Site Transfers to support SST retrievals, Evaporator Upgrades, work scope for the SY-PPP Line Replacement, and acceleration of the evaporator campaign. The PTD unfavorable variance is due to deferral of certain DST Infrastructure and Tank Farm Upgrades activities; delays in DST UT activities caused by vapor

mitigation activities and the need to rescan two DSTs; and vendor-experienced software problems.

**Impact:** None.

**Corrective Action:** This is the last month that PTD data will be reported. As agreed to with the DOE, IPABS/ PARS have been revised to reflect CTD reporting (FY 2006 – FY 2008). An adjustment to IPABS to reflect BCWS and BCWP equal to ACWP has been implemented for FY 2004 and FY 2005 data.

### **COST VARIANCE**

**Description and Cause:** The CM unfavorable variance is due to increased cost of the 242-A Integrity Assessment and UT and the Tank 241-AY-101 UT. The CTD favorable variance is due to efficiencies in completing waste transfers, DST Facility Upgrades, and the 242-A Evaporator 7-01 Campaign; partially offset by unfavorable variances due to the use of supplied air (FY 2006), SY PPP Line Replacement design changes, equipment failures in DST Integrity Project, Catch Tank Pumping, and the DST Space Management Project. The PTD favorable cost variance is due to lower than planned level-of-effort support to DST waste transfers as a result of delays in SST retrievals, and underruns in certain level-of-effort DST Space Management Project activities.

**Impact:** None.

**Corrective Action:** None required.

## 5.08 - RETRIEVE AND CLOSE (EXCLUDES

5.08.02/.03; 5.08.04.01/.02; 5.08.05/.06/.07/.12/.13)

**Scope Description:** The remaining scope in the baseline for WBS 5.08 is Interim Stabilization, and installation and startup of the AP-101 Waste Transfer Pumping System. Work in this WBS removes pumpable liquids from SSTs to minimize the risk of leakage (referred to as "Interim Stabilization") and meet Consent Decree commitments. The scope also includes consolidation of some of the activities associated with interim isolation of tanks with retrieval and closure of SSTs. In the future, specific life cycle scope in this WBS also includes DST Retrieval and Closure, Closure of Long Term Facilities, and Post Closure Monitoring. These activities are all outside of the contract period reporting window. The scope also includes preparation of a 200-IS-1 Operable Unit Work Plan and Sampling and Analysis Plan as directed by the DOE, Office of River Protection (ORP).

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	0.0	0.0	5.0	0.0 0.0%	(5.0) -5.0%	
CTD	0.0	268.4	204.2	268.4 268.4%	64.2 23.9%	0.0
PTD	6,785.7	7,208.2	4,171.4	422.5 6.2%	3,036.7 42.1%	6,785.8

### SCHEDULE VARIANCE

**Description and Cause:** The CTD favorable variance is due to acceleration of work scope into FY 2007 at the direction of the ORP. This work scope was for the preparation of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 IS-1 work plans in support of DOE, Richland Operations Office (RL) Tri-Party Agreement M-15 Milestones. The PTD favorable variance is within the threshold of  $\pm 10$  percent or \$1M.

**Impact:** No impact.

**Corrective Action:** None required.

### **COST VARIANCE**

**Description and Cause:** The CM unfavorable variance is within the threshold of  $\pm 10$  percent or \$1M. The CTD favorable cost variance is due to costs related to closure of old cross site transfer lines being less than planned. The PTD favorable variance is due to Interim Stabilization activities, which were completed under the estimated cost, but is partially offset by the AP-101 Transfer Pump Replacement, where costs were in excess of baseline estimates due to vapor mitigation activities and the use of significant amount of overtime.

**Impact:** No impact.

**Corrective Action:** None required.

## 5.08.02 - WASTE TREATMENT PLANT (WTP) FEED DELIVERY PROGRAM

**Scope Description:** The Waste Feed Delivery (WFD) program provides the minimum required technical analysis, waste characterization, and project definition activities necessary to provide waste to the Waste Treatment Plant (WTP). The WFD program work activities include a variety of cross-cutting programmatic activities supporting WFD to the waste treatment facilities, including characterization, WFD engineering and modeling support including management and maintenance of the retrieval and transfer technical baseline, WFD program/project management support, and DST retrieval/transfer management. This work element will provide feed delivery evaluations using the Hanford Tank Waste Operations Simulator model.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	691.7	691.7	646.7	(0.1) 0.0%	44.9 6.5%	
CTD	14,611.9	14,611.9	13,183.5	0.0 0.0%	1,428.4 9.8%	22,019.8
PTD	36,056.8	35,891.4	43,935.1	(165.5) -0.5%	(8,043.7) -22.4%	43,464.8

### SCHEDULE VARIANCE

**Description and Cause:** The CM and PTD variances are within the threshold of  $\pm 10$  percent or \$1M.

**Impact:** No impact.

**Corrective Action:** None required.

### COST VARIANCE

**Description and Cause:** The CM favorable variance is within the threshold of  $\pm 10$  percent or \$1M. The CTD favorable variance is due to labor efficiencies primarily in project staff to support the Project Delivery management team. The

PTD unfavorable cost variance is due to greater than planned costs for support of vapor mitigation activities.

**Impact:** None.

**Corrective Action:** This is the last month that PTD data will be reported. As agreed to with the DOE, IPABS/ PARS have been revised to reflect CTD reporting (FY 2006 – FY 2008). An adjustment to IPABS to reflect BCWS and BCWP equal to ACWP has been implemented for FY 2004 and FY 2005 data.

## 5.08.03 - DST RETRIEVAL PROGRAM

**Scope Description:** The baseline for this WBS element includes activities required to plan, provide, and operate systems for retrieving waste from the DSTs, preparing it for feed to the WTP, and then transferring it to the WTP.

	BCWS	BCWP	ACWP	SV	CV	BAC
<b>CM</b>	0.0	26.8	17.8	26.8 26.8%	9.0 33.7%	
<b>CTD</b>	1,676.3	1,850.3	2,204.5	174.1 10.4%	(354.1) -19.1%	1,676.3
<b>PTD</b>	30,547.2	21,635.0	25,624.6	(8,912.2) -29.2%	(3,989.6) -18.4%	30,547.2

### SCHEDULE VARIANCE

**Description and Cause:** The CM and CTD favorable variances are due to performing work on Tank-241-AN-101 Retrieval Systems ahead of schedule in support of Tank-241-C-104 retrieval preparation. The PTD unfavorable variance is a result of deferring the Tanks 241-AY-101, 241-AY-102, and 241-AZ-102 Retrieval Systems, and start-up of the Tank 241-AN-101 Retrieval System to future years.

**Impact:** There is no adverse impact to the overall project and near-term waste transfers.

**Corrective Action:** This is the last month that PTD data will be reported. As agreed to with the DOE, IPABS/PARS have been revised to reflect CTD reporting (FY 2006 – FY 2008). An adjustment to IPABS to reflect BCWS and BCWP equal to ACWP has been implemented for FY 2004 and FY 2005 data.

### COST VARIANCE

**Description and Cause:** The CM reflects a minimal favorable variance resulting from the use of fewer resources than planned on the AN-101 Retrieval System activities. The CTD unfavorable variance is due to the higher than planned

negotiated costs for design of the Tank 241-AN-101 mixer pump. The PTD unfavorable cost variance is primarily due to costs related to added scope, the as-built drawings effort, and vapor mitigation activities on the Tank 241-AN-101 Retrieval System.

**Impact:** The PTD unfavorable variance is unrecoverable.

**Corrective Action:** This is the last month that PTD data will be reported. As agreed to with the DOE, IPABS/ PARS have been revised to reflect CTD reporting (FY 2006 – FY 2008). An adjustment to IPABS to reflect BCWS and BCWP equal to ACWP has been implemented for FY 2004 and FY 2005 data.

## 5.08.04.01 - PROJECT W-314 (TANK FARM RESTORATION AND SAFE OPERATIONS)

**Scope Description:** The baseline for Project W-314 provides essential tank farm infrastructure upgrades to support waste feed delivery to the WTP and to correct environmental compliance deficiencies with the tank farm support systems.

Work scope includes waste transfer line installation, valve pit upgrades, ventilation system upgrades, instrument/control system upgrades, electrical distribution system upgrades and installation of a Master Pump Shutdown (MPS) system. The project scope includes Phase 1 and 2 upgrades in seven different tank farms (AN, AW, AY, AZ, AP, SY, and A), as well as transfer system upgrades between tank farms.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	0.0	300.5	399.6	300.5 300.5%	(99.2) -33.0%	
CTD	2,865.8	6,214.8	6,621.3	3,349.0 118.9%	(406.5) -6.5%	2,865.8
PTD	37,633.4	37,817.7	45,056.6	184.3 0.5%	(7,238.9) -19.1%	37,633.4

### SCHEDULE VARIANCE

**Description and Cause:** The CM and CTD favorable variances are due to the acceleration of selected Project W-314 work scope. The PTD unfavorable variance is within the threshold of  $\pm 10$  percent or \$1M.

**Impact:** None.

**Corrective Action:** None required.

### COST VARIANCE

**Description and Cause:** The CM unfavorable variance is due to increased labor resources required to support the MPS Startup and costs for the new software

license and system upgrades. The CTD unfavorable variance is within the threshold of  $\pm 10$  percent or \$1M. The PTD unfavorable variance is primarily caused by vapor mitigation activities and as-found field conditions, which resulted in additional effort in field construction, and extended project management and engineering support.

**Impact:** The PTD cost variance is not recoverable.

## 5.08.04.02 - PROJECT E-525 (UPGRADE TRANSFER SYSTEMS)

**Scope Description:** The baseline for Project E-525 provides activities required to define, design, procure, construct, test, turnover, and manage modifications to a portion of the DST Transfer System. The scope of Project E-525 is further defined within the following five design/construction packages: 1) AZ-151 Catch Tank Replacement; 2) Clean-Out Box (COB) Modifications; 3) SY-Farm Transfer Lines; 4) 204-AR Load-Out Facility Transfer Line; and 5) Plutonium Finishing Plant Transfer Lines. These modifications brought a portion of the DST transfer system into compliance with Washington Administrative Code 173-303-640, in support of Tri-Party Agreement Milestone M-43-00.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	0.0	0.0	0.0	0.0 0.0%	0.0 0.0%	
CTD	2,712.4	2,712.4	2,982.8	0.0 0.0%	(270.4) -10.0%	2,712.4
PTD	17,307.8	14,165.1	26,709.8	(3,142.7) -18.2%	(12,544.7) -88.6%	17,307.8

### SCHEDULE VARIANCE

**Description and Cause:** The PTD unfavorable variance is primarily due to deferral of the remaining field construction for the AZ-151 Catch Tank Bypass, SY-Farm Transfer Line Upgrades, and the remaining AW-Farm COBs, because of operational priorities and funding reductions.

**Impact:** None.

**Corrective Action:** This is the last month that PTD data will be reported. As agreed to with the DOE, IPABS/PARS have been revised to reflect CTD reporting (FY 2006 – FY 2008). An adjustment to IPABS to reflect BCWS and BCWP equal to ACWP has been implemented for FY 2004 and FY 2005 data.

**COST VARIANCE**

**Description and Cause:** The CTD unfavorable variance is due to performing COBs and SY-Farm Transfer Line Backfill work on supplied air (not budgeted), partially offset by underruns on the AZ-151 Catch Tank Bypass Construction and efficiencies in Project Support. The PTD unfavorable cost variance is primarily in Field Construction and is due to unplanned costs attributable to unexpected as-found field conditions, enhanced work package development/approval, and vapor mitigation activities.

**Impact:** The PTD cost overruns are not recoverable.

**Corrective Action:** This is the last month that PTD data will be reported. As agreed to with the DOE, IPABS/ PARS have been revised to reflect CTD reporting (FY 2006 – FY 2008). An adjustment to IPABS to reflect BCWS and BCWP equal to ACWP has been implemented for FY 2004 and FY 2005 data.

## 5.08.05 - RETRIEVAL / CLOSURE PROGRAM

**Scope Description:** The baseline provides for Retrieval and Closure support activities in this WBS. Specifically, the scope includes program management, regulatory documentation, SST cross-site transfers, technology development, cold test facility management and maintenance, Vadose Zone support, inactive waste sites administration, Tank Farm Support Facilities/Transfer Systems. The scope also includes the Closure Project TSR/Basic Maintenance on SSTs, Closure Project Operations Essential Services, Closure Project Field Projects/Upgrades, and the solid waste management programs.

	BCWS	BCWP	ACWP	SV	CV	BAC
<b>CM</b>	4,797.3	4,159.4	5,807.1	(637.9) -13.3%	(1,647.7) -39.6%	
<b>CTD</b>	101,098.8	99,082.7	92,342.7	(2,016.1) -2.0%	6,740.0 6.8%	148,974.5
<b>PTD</b>	191,327.6	178,899.1	192,369.3	(12,428.4) -6.5%	(13,470.2) -7.5%	239,203.1

### SCHEDULE VARIANCE

**Description and Cause:** The CM unfavorable variance is due to 1) suspension of field work activities until new pumps are available, which are lessons learned from the Tank 241-S-102 spill event, 2) early completion of Direct Push, SGE and Lab analysis activities, and 3) re-scheduling of the field work for the U-Farm Hose-in-Hose Transfer Line (HIHTL) Stabilization to FY 2009. The CTD unfavorable variance is due to delays in procurement and construction related to safety significant equipment on the 244-CR Vault; completing the design for the T-Farm Surface Barrier; in the engineering life extension study to support HIHTL disposition; and Tank Farm Risk Assessments in receiving regulator's comments for the Single-Shell Tank System Performance Assessment. The PTD unfavorable schedule variance is primarily because of delays for field work on Vadose Zone RCRA Corrective Actions activities (resource availability issues, vapor mitigation activities, and weather delays); starting Tank Farm Risk

Assessments modeling and waste constituent studies; and in Liquid Level and Video Assessment, and HIHTL disposal activities (vapor mitigation activities, radiological conditions, and weather delays).

**Impact:** The baseline date of September 30, 2007, for completion of the T-Farm Surface Barrier has been missed. The revised date is December 31, 2007.

**Corrective Action:** The T-Farm Surface Barrier construction is in progress. This is the last month that PTD data will be reported. As agreed to with the DOE, IPABS/ PARS have been revised to reflect CTD reporting (FY 2006 – FY 2008). An adjustment to IPABS to reflect BCWS and BCWP equal to ACWP has been implemented for FY 2004 and FY 2005 data.

### **COST VARIANCE**

**Description and Cause:** The CM unfavorable variance is due to 1) cost for T-Farm Interim Surface Barrier construction activities being higher than baseline estimates due to additional steps to complete the required work, including transportation of soil into the respective area, grading and compaction of soil prior to placing material, development of an infiltration area for water run-off, interior trench and anchor supports for the material, and the respective material costs; 2) receipt of committed costs for 244-CR Vault material and work scope which have now been placed on hold pending review of the Tank 241-S-102 spill event; and 3) greater than planned costs from the waste treatment contractor associated with earlier solid waste shipments. The CTD favorable cost variance is because of 1) labor underruns due to Closure Operations support to other Projects; 2) efficiencies in performing the DST Component Isolation accelerated work scope; and 3) costs are less than expected for Vadose Zone Corrective Actions field work and 244-CR Vault activities. The PTD unfavorable cost variance is due to unplanned Closure Project surveillance and monitoring costs for vapor mitigation activities and the use of increased overtime.

**Impact:** The PTD variances are not recoverable.

**Corrective Action:** This is the last month that PTD data will be reported. As agreed to with the DOE, IPABS/PARS have been revised to reflect CTD

reporting (FY 2006 – FY 2008). An adjustment to IPABS to reflect BCWS and BCWP equal to ACWP has been implemented for FY 2004 and FY 2005 data.

## 5.08.06/.07 - SST RETRIEVAL EAST / WEST AREA

**Scope Description:** The baseline for this element includes activities required for the retrieval of all 149 SSTs. The scope includes project management, design and engineering, retrieval procurement, retrieval system installation, and retrieval startup and readiness. Scope in this WBS also includes the operations of the SST retrieval systems, post retrieval sampling, and the retrieval data reports.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	1,174.5	2,784.7	4,187.3	1,610.3 137.1%	(1,402.6) -50.4%	
CTD	40,918.7	67,554.5	58,657.5	26,635.9 65.1%	8,897.1 13.2%	52,240.1
PTD	134,542.7	106,371.9	174,772.4	(28,170.9) -20.9%	(68,400.6) -64.3%	145,864.4

### SCHEDULE VARIANCE

**Description and Cause:** The CM favorable variance is primarily due to positive performance on Tank 241-C-109, acceleration of Tanks 241-C-104 and 241-C-110 retrieval design and construction; partially offset by an unfavorable variance on Tank 241-C-108 which has been retrieved to the limit of current technology. The CTD favorable variance is due to acceleration of Tanks 241-S-102 and 241-C-108 retrieval activities; and early start of Tank 241-C-109 retrieval and 241-C-104 preparation. The PTD unfavorable schedule variance is due to delays in C-Farm Modified Sluicing and Mobile Retrieval Systems design; C-Farm retrievals due to vapor mitigation activities and as-found conditions such as the potential for gelling and high radiation; development of multiple retrieval systems and the need for multiple evolutions due to tank waste characteristics; and deferral of B, T, and U-Farm retrievals.

**Impact:** The PTD issues identified have caused an extension in the schedules for retrieval operations.

**Corrective Action:** This is the last month that PTD data will be reported. As agreed to with the DOE, IPABS/PARS have been revised to reflect CTD

reporting (FY 2006 – FY 2008). An adjustment to IPABS to reflect BCWS and BCWP equal to ACWP has been implemented for FY 2004 and FY 2005 data.

## **COST VARIANCE**

**Description and Cause:** The CM unfavorable variance is due to unplanned costs in response to the Tank 241-S-102 leak event mitigation and recovery. The CTD favorable variance is due to Tank 241-C-108 system installation, and startup and readiness scope requiring fewer resources than planned; efficiencies on Tank 241-S-112; and Tank 241-C-109 design costs are lower than planned due to the ability to use data from Tank 241-C-108. The CTD favorable variance is partially offset by the unfavorable variance on Tanks 241-C-103 and C-200 tanks due to unplanned costs to address retrieval issues. The PTD unfavorable cost variance for SST retrievals is due to a realization of risks in the field for which no contingency was planned, including higher than planned material and fabrication costs, longer than planned retrieval durations, increased special equipment and engineering costs, rework due to improvements to the work planning process, weather delays resulting in work stoppages, costs associated with vapor mitigation activities, costs for a second pumping system for Tank 241-S-102, and costs for the partial retrieval of Tank 241-S-109 test waste in support of the DBVS.

**Impact:** The impact of the Tank 241-S-102 spill event on future retrieval operations is being evaluated. Unplanned PTD costs are impacting ability to complete all approved baseline scope.

**Corrective Action:** This is the last month that PTD data will be reported. As agreed to with the DOE, IPABS/PARS have been revised to reflect CTD reporting (FY 2006 – FY 2008). An adjustment to IPABS to reflect BCWS and BCWP equal to ACWP has been implemented for FY 2004 and FY 2005 data.

## 5.08.12/13 - SST CLOSURE

**Scope Description:** The baseline provides the scope for tank farm closure which includes those activities required for interim closure of each tank in the farm, followed by closure of the entire farm once all tanks within the farm are interim closed. Scope for interim closure of each tank includes characterization, engineering evaluation and reporting, deactivation and isolation of transfer lines, pits and penetrations to the tank, and placement of a grout layer in the bottom of the tank to stabilize the residual waste.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	30.4	31.2	22.1	0.8 2.7%	9.0 29.0%	
CTD	776.5	776.5	727.6	0.0 0.0%	48.9 6.3%	1,101.8
PTD	17,440.5	7,579.6	11,005.2	(9,860.9) -56.5%	(3,425.6) -45.2%	17,765.9

### SCHEDULE VARIANCE

**Description and Cause:** The CM favorable variance is within the threshold of  $\pm 10$  percent or \$1M. The PTD unfavorable variance is primarily due to the delays in the approval of the Tank Closure and Waste Management (TC&WM) Environmental Impact Statement (EIS) Record of Decision (ROD).

**Impact:** Closure of SSTs is dependent on the issuance of the TC&WM EIS ROD.

**Corrective Action:** This is the last month that PTD data will be reported. As agreed to with the DOE, IPABS/PARS have been revised to reflect CTD reporting (FY 2006 – FY 2008). An adjustment to IPABS to reflect BCWS and BCWP equal to ACWP has been implemented for FY 2004 and FY 2005 data.

### COST VARIANCE

**Description and Cause:** The CM is negligible and the CTD variance is within the threshold of  $\pm 10$  percent or \$1M. The PTD unfavorable variance is due to

higher than planned costs for sampling and analytical work, and closure design and work package planning.

**Impact:** None.

**Corrective Action:** This is the last month that PTD data will be reported. As agreed to with the DOE, IPABS/PARS have been revised to reflect CTD reporting (FY 2006 – FY 2008). An adjustment to IPABS to reflect BCWS and BCWP equal to ACWP has been implemented for FY 2004 and FY 2005 data.

## 5.09 - TREAT & DISPOSE WASTE (EXCLUDES WBS 5.09.02.02/.03/.05/.08/.11; 5.09.03.01/.04)

**Scope Description:** The baseline provides for the remaining scope for WBS 5.09, which includes the Infrastructure Services that provide for electrical power to the WTP, Strategic planning including the support to Optimization Studies, Project W-QQQ IHLW Shipping Facility support, and support to the Tri-Party Agreement Milestone M-62-08 deliverables. Also included are the Failed Melter Disposal System and future expansions to Integrated Disposal Facility (IDF). Both are outside of the contract-to-date reporting. Startup and Turnover, performance of Operations Readiness Reviews, and turnover of the constructed IDF to Operations are included in this WBS.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	460.6	498.3	396.0	37.7 8.2%	102.3 20.5%	
CTD	8,734.9	8,746.8	7,055.0	11.9 0.1%	1,691.8 19.3%	13,904.0
PTD	30,920.9	28,090.5	21,777.1	(2,830.4) -9.2%	6,313.4 22.5%	37,805.2

### SCHEDULE VARIANCE

**Description and Cause:** The CM and CTD favorable variances are within the threshold of  $\pm 10$  percent or \$1M. The PTD unfavorable schedule variance is because of delay in Project W-QQQ (Hanford Shipping Facility) in order to fund higher priority work.

**Impact:** No impact.

**Corrective Action:** This is the last month that PTD data will be reported. As agreed to with the DOE, IPABS/PARS have been revised to reflect CTD reporting (FY 2006 – FY 2008). An adjustment to IPABS to reflect BCWS and BCWP equal to ACWP has been implemented for FY 2004 and FY 2005 data.

**COST VARIANCE**

**Description and Cause:** The CM favorable variance is due to labor efficiencies and reduced electrical usage at WTP. The CTD and PTD favorable variances are due to efficiencies in WTP interface, Immobilized Low-activity Waste (ILAW) Performance Assessment, and Strategic Planning activities.

**Impact:** No impact.

**Corrective Action:** None required.

## 5.09.02.02 - TRU / LLW PACKAGING

**Scope Description:** The baseline provides for the design, construction, testing, operation, and decommissioning of a system to treat contact-handled transuranic mixed (CH-TRUM) waste for eventual shipment/disposal at the Waste Isolation Pilot Plant. 1) CH-TRUM Waste Packaging: Nine tanks are currently thought to contain CH-TRUM waste: four T-200 series SSTs, four B-200 series SSTs, and Tank 241-T-111; 2) Remote Handled transuranic mixed (RH-TRUM) Waste Packaging: Three tanks are currently thought to contain RH-TRUM waste: 241-AW-103, 241-AW-105 and 241-SY-102; and 3) Low-level waste (LLW) Packaging: activities required to operate a system to package LLW such that the packages can be sent to a licensed facility for disposal. One tank, 241-T-110, is currently thought to contain LLW. The volume of LLW in this tank is approximately 400,000 gallons.

	BCWS	BCWP	ACWP	SV	CV	BAC
<b>CM</b>	0.0	0.0	0.0	0.0 0.0%	0.0 0.0%	
<b>CTD</b>	0.0	0.0	65.6	0.0 0.0%	(65.6) -65.6%	0.0
<b>PTD</b>	28,343.4	11,695.5	19,883.5	(16,647.9) -58.7%	(8,188.0) -70.0%	28,343.4

### SCHEDULE VARIANCE

**Description and Cause:** The PTD unfavorable schedule variance result primarily from permitting related delays in converting a Research, Development, and Demonstration permit into an extensive Part B permit; National Environmental Policy Act of 1969 (NEPA) permitting and Part B certification issuance delays; and delays due to the ORP's decision to issue the Preliminary Documented Safety Analysis (PDSA) as new scope, in addition to the planned Documented Safety Analysis amendment. Consequently, the ORP directed a ramp-down of the Transuranic Waste project to place the project in indeterminate standby until resolution of NEPA and other permitting issues.

**Impact:** None

**Corrective Action:** This is the last month that PTD data will be reported. As agreed to with the DOE, IPABS/PARS have been revised to reflect CTD reporting (FY 2006 – FY 2008). An adjustment to IPABS to reflect BCWS and BCWP equal to ACWP has been implemented for FY 2004 and FY 2005 data.

### **COST VARIANCE**

**Description and Cause:** The negligible CTD unfavorable variance is due to residual costs received in early FY 2006. The PTD unfavorable variance results from unplanned costs for rework associated with NEPA document revision per the ORP, new scope to issue the PDSA, and the packaging vendor's inadequate design estimation.

**Impact:** None.

**Corrective Action:** This is the last month that PTD data will be reported. As agreed to with the DOE, IPABS/PARS have been revised to reflect CTD reporting (FY 2006 – FY 2008). An adjustment to IPABS to reflect BCWS and BCWP equal to ACWP has been implemented for FY 2004 and FY 2005 data.

## 5.09.02.03/.08 - LAW TREATMENT (FRACTIONAL CRYSTALLIZATION)

**Scope Description:** The baseline provides for 1) Bulk Vitrification / Containerized Grout including: issue Request for Proposal for Containerized Grout pre-down-select effort; issue Request for Proposal for Bulk Vitrification pre-down-select effort; award contract to vendor for testing and engineering pre-conceptual design development; contract costs for vendor testing and design; support contract testing and design; and issue pre-down-select data package; 2) Steam Reforming: prepare conceptual design for Hanford-deployable Steam Reforming unit; and award contract to vendor for testing and engineering pre-conceptual design development; 3) Issue pre-down-select data package; 4) Pre-Treatment/Sulfate Removal: evaluate dissolution progress during Tanks 241-S-102 and 241-U-107 retrieval operations; and evaluate high integrity containers for cesium removal; 5) Post Down Select: perform long-lead permitting activities: issue procurement package and award contract for LAW supplemental treatment system construction; contract costs for vendor design, fabrication, and testing; support contractor design, fabrication, and testing; issue design; implement field modifications for tank farm LAW system deployment; and operate LAW system; and 6) This scope of work also is to collect data and perform testing to evaluate Supplemental Treatment Pretreatment technologies, including fractional crystallization studies (EM-20 funding).

	BCWS	BCWP	ACWP	SV	CV	BAC
<b>CM</b>	67.5	67.5	(19.3)	0.0 0.0%	86.8 128.7%	
<b>CTD</b>	1,424.1	1,424.1	1,370.3	0.0 0.0%	53.9 3.8%	2,150.2
<b>PTD</b>	6,073.4	5,918.2	6,161.5	(155.2) -2.6%	(243.3) -4.1%	5,409.9

### SCHEDULE VARIANCE

**Description and Cause:** The PTD variance is within the threshold of  $\pm 10$  percent or \$1M.

**Impact:** None.

**Corrective Action:** None required.

### **COST VARIANCE**

**Description and Cause:** The CM reflects a negligible favorable variance. The CTD and PTD unfavorable variances are within the threshold of  $\pm 10$  percent or \$1M.

**Impact:** None.

**Corrective Action:** None required.

## 5.09.02.05/.11 - DEMONSTRATION BULK VITRIFICATION SYSTEM (DBVS) PROJECT

**Scope Description:** The baseline provides work scope to issue procurement package and award contract; contract costs; support contract costs; and direct labor costs for project management and control, permitting, safety document preparation, readiness review activities, and engineering for the following: vendor design, fabrication, construction, installation, testing and operation of a Supplemental Treatment Test and Demonstration Facility; vendor design and fabrication of a salt waste retrieval system; and vendor design and construction required for Supplemental Treatment Test and Demonstration Facility site preparation, including infrastructure. The following is also provided: direct labor costs for installation, startup and operation of a salt waste retrieval system; material and utility costs in support of Supplemental Technology Demonstrations; and decontamination and decommissioning costs associated with Supplemental Technology Demonstrations.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	0.0	232.5	1,362.5	232.5 232.5%	(1,130.0) -486.0%	
CTD	26,639.2	39,263.5	41,271.2	12,624.3 47.4%	(2,007.7) -5.1%	26,639.2
PTD	58,842.4	59,966.0	98,488.9	1,123.6 1.9%	(38,522.9) -64.2%	58,842.4

### SCHEDULE VARIANCE

**Description and Cause:** The CM, CTD, and PTD favorable variances are due to the DBVS Project accomplishing accelerated work this fiscal year that was planned for performance in FY 2009. This early performance of work supports resolution of the Expert Review Panel issues.

**Impact:** None.

**Corrective Action:** None

## **COST VARIANCE**

**Description and Cause:** The CM unfavorable variance reflects earning a significant portion of the task's BCWP in prior month (August) for completion of the IDMT while final costs were received in September. Additionally, it reflects the cost of impacts to the design from changes to address lessons learned from the IDMT. The CTD unfavorable variance is due to additional subcontractors' effort to complete initial design. The PTD unfavorable cost variance is a realization of risks for which no contingency was planned, including higher than anticipated negotiated contract costs with AMEC for design, fabrication, and installation; and new project scope (Engineering Scale-13).

**Impact:** Additional funding will be required to complete design, including changes resulting from IDMT lessons learned. The PTD variance is not recoverable.

**Corrective Action:** None required.

## 5.09.03.01 - INTEGRATED DISPOSAL FACILITY

**Scope Description:** The baseline provides for planning, designing, and constructing the onsite expandable IDF for disposing of compliant ILAW stream packages produced at the WTP and through supplemental treatment, and the RL generated mixed low-level waste (MLLW) and LLW. The IDF will consist of the initial capacity near-surface, remote-handled waste trench facility to support WTP Operations ILAW Production and the RL MLLW and LLW disposal quantities. Infrastructure necessary to provide operations and maintenance support (e.g., utilities, roads, and fencing) will be provided by this WBS.

	BCWS	BCWP	ACWP	SV	CV	BAC
<b>CM</b>	0.0	0.0	(0.5)	0.0 0.0%	0.5 0.5%	
<b>GTD</b>	7,132.9	7,132.9	5,366.1	0.0 0.0%	1,766.8 24.8%	7,132.9
<b>PTD</b>	33,911.0	29,670.8	20,707.4	(4,240.2) -12.5%	8,962.4 30.2%	33,993.8

### SCHEDULE VARIANCE

**Description and Cause:** The PTD unfavorable schedule variance is a function of implementation of the Interim Baseline in FY 2006. The IDF was completed on schedule in April 2006, and is currently in a "Care and Custody" condition. The variance will be eliminated with approval and implementation of the revised baseline.

**Impact:** None.

**Corrective Action:** This is the last month that PTD data will be reported. As agreed to with the DOE, IPABS/PARS have been revised to reflect CTD reporting (FY 2006 – FY 2008). An adjustment to IPABS to reflect BCWS and BCWP equal to ACWP has been implemented for FY 2004 and FY 2005 data.

### COST VARIANCE

**Description and Cause:** The CM favorable variance is within the threshold of  $\pm 10$  percent or \$1M. The CTD favorable variance is due to effective management of construction changes, utilization of internal engineering resources rather than subcontracted support, and less project management resource usage than planned. The project realized a favorable variance at construction completion, but a portion of this variance will be required to fund Care and Custody of the facility. The PTD favorable variance is due to the favorable fixed-price contract for the IDF.

**Impact:** No impact.

**Corrective Action:** None required.

## 5.09.03.04 - PROJECT W-464 (INITIAL IHLW STORAGE FACILITY)

**Scope Description:** The baseline provides for Project W-464, Interim Storage Facility, which is a Canister Storage Building Retrofit Subproject that addresses initial operations storage. This element provides onsite interim storage for Initial Operations immobilized high-level waste (IHLW) canisters until they can be shipped to an offsite geological repository. The planning for receipt and interim storage of the IHLW canisters shall comply with the Waste Acceptance System Requirements Document and the Office of Civilian Radioactive Waste Management Waste Acceptance Preliminary Specifications. This WBS covers equipment for transportation of IHLW canisters from the WTP to the interim storage facilities. The work scope activities included under this WBS element are as follows: Provide Project Management (Capital) and project engineering required for execution of design, procurement and construction of the Interim Storage Facility.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	0.0	0.0	0.0	0.0 0.0%	0.0 0.0%	
CTD	109.4	109.4	35.1	0.0 0.0%	74.3 67.9%	109.4
PTD	4,789.3	4,553.4	2,673.2	(235.9) -4.9%	1,880.2 41.3%	4,789.3

### SCHEDULE VARIANCE

**Description and Cause:** The PTD unfavorable variance is within the threshold of  $\pm 10$  percent or \$1M.

**Impact:** No impact.

**Corrective Action:** None required.

### COST VARIANCE

**Description and Cause:** The CTD favorable variance is due to effective project management and utilizing less project management support resources than planned. The PTD favorable variance is due to efficiencies realized on the detailed design activity, resulting from favorable contract performance.

**Impact:** No impact.

**Corrective Action:** None required.

### **COST VARIANCE**

**Description and Cause:** The CTD favorable variance is due to effective project management and utilizing less project management support resources than planned. The PTD favorable variance is due to efficiencies realized on the detailed design activity, resulting from favorable contract performance.

**Impact:** No impact.

**Corrective Action:** None required.

## 5.10 - ANALYTICAL TECHNICAL SERVICES

**Scope Description:** The baseline scope includes Analytical Technical Services (ATS) management and Hanford Services support in order to meet the capability/capacity requirements on the 222-S Laboratory complex for the Hanford mission. Also included are: 222-S Laboratory spares; 222-S Laboratory spare reserves; capital equipment not related to construction; technology development activities; performance of facility assessment and characterization activities; development of NEPA and other regulatory documentation, deactivation plans, post-deactivation surveillance and maintenance plans; development of deactivation endpoints and turnover package; activities to flush, isolate, and blank process or sub-process systems; and removal of radioactive and hazardous materials and mixed wastes.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	3,488.7	3,421.5	2,111.6	(67.3) -1.9%	1,309.9 38.3%	
CTD	49,105.8	48,829.6	43,513.0	(276.2) -0.6%	5,316.5 10.9%	76,652.5
PTD	92,946.1	90,944.3	86,451.2	(2,001.8) -2.2%	4,493.2 4.9%	121,749.8

### SCHEDULE VARIANCE

**Description and Cause:** The CM and CTD unfavorable variances are within the threshold of  $\pm 10$  percent or \$1M. The PTD unfavorable variance is due to delay of several facility upgrade activities.

**Impact:** Due to FY 2004 funding constraints, planned facility upgrades that were identified as safety concerns were deferred. The safety issues have been remediated to eliminate any potential safety hazards and will be completed. The deferral will have no impact on 10CFR851, the DOE order on worker health and safety protection. Currently the facility upgrades are scheduled to be completed in FY 2009 through the approval and implementation of BCR RPP-07-051 "Deferrals and Deletions."

**Corrective Action:** None.

## **COST VARIANCE**

**Description and Cause:** The CM favorable variance is due to less than planned ATL Readiness to Serve costs and less tank sampling labor due to continued support to FH to core-sample U-361. The CTD and PTD favorable variances are comprised of 1) less than planned dedicated and matrixed staff in support of Maintenance, Production Control and Technology Development, 2) planning labor rates being greater than actual costs, and 3) revised waste volume projections that are less than originally planned. Additionally, PTD unplanned costs have been incurred relative to the transition of the 222-S Laboratory analysis activities to ATL. Specific costs include ATL transition costs, Information Resource Management Desktop support, and Waste Management of laboratory samples. These costs have been offset by favorable variances elsewhere within the ATS program.

**Impact:** None.

**Corrective Action:** None required.

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

### I. Near-Term Deliverables:

- **M-45-55-T04, Submit to Ecology for review and comment a draft of the A-AX, C, and U Field Investigation Report.**

Due: 04/30/06

Status: Missed. Discussions between Ecology and ORP are ongoing regarding scope and schedule for this report. A TPA change request, letter 07-TPD-033, was provided to Ecology on July 24, 2007. Ecology, DOE, and CH2M HILL are discussing the change package.

- **M-45-55, Submit to Ecology for review and approval as an Agreement primary document a Phase 1 RFI report integrating results of data gathering activities and evaluations for WMAs S-SX, T, TX-TY, A-AX, B-BX-BY, C, and U; and related activities, including groundwater monitoring and impacts assessment using Hanford Site groundwater models, with conclusions and recommendations.**

Due: 01/31/07

Status: Missed-Change Request Pending. Document is on schedule for January 2008 submittal. Of 33 chapters (focused on the general reader) drafts have been generated for all chapters. Presently undergoing internal review. Of the 14 appendices (focused on general audiences), all drafts have been generated, including the draft WMA C & A/AX Field Investigation Report (FIR) and WMA U FIR. Draft chapters and appendices have been sent to Ecology and EPA for informal review. Six detailed documents (focused for the subject matter expert) have been released with an additional two undergoing external Hanford review.

A TPA change request, letter 07-TPD-033, was provided to Ecology on July 24, 2007. Ecology, DOE, and CH2M HILL are discussing the change package.

- **M-45-56C, Complete Implementation of Agreed to Interim Measures.**

Due: 07/31/07

Status: Complete per July 24, 2007 meeting with Ecology.

- **M-45-58, Submit to Ecology for review and approval as an Agreement primary document a RCRA Corrective Actions Corrective Measures Study for WMAs S-SX, T-TX-TY, B-BX-BY, A-AX, C, and U.**

Due: 06/30/07

Status: Missed. A TPA change request, letter 07-TPD-033 was provided to Ecology on July 24, 2007. Ecology, DOE, and CH2M HILL are discussing the change package.

- **M-45-60,**
- **Submit to Ecology for review and approval as an Agreement primary document DOE's RCRA Corrective Actions Work Plan for SST WMAs.**

Due: 09/30/07

Status: Missed. A TPA change request, letter 07-TPD-033, was provided to Ecology on July 24, 2007. Ecology, DOE, and CH2M HILL are discussing the change package.

## **II. Significant Accomplishments:**

The T-Farm interim barrier design was completed and sent out for construction bid. Bids have been received, evaluated, and let. Test plot constructed and samples shipped for analysis. Active construction has started.

- Initiated direct push work at C WMA.
- Completed electromagnetic and magnetic gradiometry surveys of region surrounding TX and TY Tank Farms; conducted well-to-well resistivity survey and laid out all surface resistivity lines around WMA TX-TY.

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

- Complete construction of the interim surface barriers at T-106.
- Complete SGE data collection at WMA TX-TY.
- Issue RCRA Facility Investigation Report (with the Field Investigation Reports for A, AX, C, and U WMAs as Appendices)
- Comment disposition workshops will continue on the initial SST-PA

## **IV. Issues**

A TPA change request, letter 07-TPD-033, was provided to Ecology on July 24, 2007. Ecology, DOE, and CH2M HILL are discussing the change package.

## **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
  
- **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 3/24/05; C-202 retrieval completed on 8/11/05; C-201 retrieval completed on 3/23/06; C-204 retrieval completed on 12/11/06.
    - Mobile retrieval (C-101, C-105, or C-111): C-101 start of retrieval is currently projected for fiscal year 2011 (October 2010).
  
  - Implementation of full-scale LDMM technologies for the first three 100-series tank retrievals following Tank S-112:
    - Tank S-102: High Resolution Resistivity (HRR) system installed; supporting retrieval operations. System was electrically shut down with all power to the S-102 area in response to a waste spill on July 27, 2007. Power will be restored to S-102 as soon as safely possible.
    - Tank C-103: HRR system demonstration complete.
    - Tank C-108: HRR system installed; supporting retrieval operations.
    - Completed HRR injection tests at S-102.
    - Submitted HRR evaluation report and recommendation for further deployment.
  
  - Submittal of TWRWPs:
    - Tanks C-201, C-202, C-203, and C-204: Completed on 4/8/04
    - Two (2) 100-series tanks by 7/31/04: Completed on 7/29/04 (C-103 and C-109)

- Four (4) 100-series tanks by 10/31/04: Completed on 10/8/04 (C-102, C-104, C-107, C-108, and C-112).
- Five (5) 100-series tanks by 1/31/05: Completed on 1/24/05 (C-101, C-105, C-110, and C-111).
- Submittal of Waste Management Area (WMA) integration plans by 6/30/05:
  - WMA C: Completed; submitted from ORP to Ecology on 6/22/05
  - WMA T: Completed; submitted from ORP to Ecology on 6/22/05.
- **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: To Be 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
- **M-45-05, Retrieve Waste from all Remaining Single-Shell Tanks**  
Due: 9/30/18  
Status: To Be Missed
- **M-45-05-T05, Initiate Tank Retrieval from Five Additional Single-Shell Tanks**  
Due: 9/30/07  
Status: To Be Missed
- **M-45-05-T06, Initiate Tank Retrieval from Five Additional Single-Shell Tanks**  
Due: 9/30/08  
Status: To Be Missed
- **M-45-05-T07, Initiate Tank Retrieval from Seven Additional Single-Shell Tanks**  
Due: 9/30/09  
Status: To Be Missed
- **M-45-05-T08, Initiate Tank Retrieval from Eight Additional Single-Shell Tanks**

- Due: 9/30/10  
Status: To Be Missed
- **M-45-05-T09, Initiate Tank Retrieval from Ten Additional Single-Shell Tanks**  
Due: 9/30/11  
Status: To Be Missed
  - **M-45-05-T10, Initiate Tank Retrieval from 12 Additional Single-Shell Tanks**  
Due: 9/30/12  
Status: To Be Missed
  - **M-45-05-T11, Initiate Tank Retrieval from 14 Additional Single-Shell Tanks**  
Due: 9/30/13  
Status: To Be Missed
  - **M-45-05-T12, Initiate Tank Retrieval from 17 Additional Single-Shell Tanks**  
Due: 9/30/14  
Status: To Be Missed
  - **M-45-05-T13, Initiate Tank Retrieval from 20 Additional Single-Shell Tanks**  
Due: 9/30/15  
Status: To Be Missed
  - **M-45-05-T14, Initiate Tank Retrieval from 20 Additional Single-Shell Tanks**  
Due: 9/30/16  
Status: To Be Missed
  - **M-45-05-T15, Initiate Tank Retrieval from 20 Additional Single-Shell Tanks**  
Due: 9/30/17  
Status: To Be Missed
  - **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
  - **M-45-06-T03, Initiate Closure Actions on a WMA Basis**  
Due: 3/31/12  
Status: To Be Missed

- **M-45-06-T04, Complete Closure Actions on one WMA**  
Due: 3/31/14  
Status: To Be Missed

## II. Significant Accomplishments

- Continued design and construction work for the C-104 retrieval system.

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

- Reach resolution on missed M-45-00B and M45-00C milestones.
- Deploy FoldTrak in C-109 and complete retrieval.
- Deploy FoldTrak in C-108 and complete retrieval.
- Continue construction for C-104 retrieval system.
- Complete comment resolution on the Mobile Retrieval System (MRS) TWRWP and obtain Ecology approval.
- Complete comment resolution on the C-110 TWRWP and obtain Ecology approval of.

## IV. Issues

- The MRS TWRWP, the last of the TWRWPs identified in Milestone M-45-00B, has not been approved by Ecology. ORP submitted a revised MRS TWRWP for tanks C-101/105/111 to Ecology on April 26, 2007. ORP received Ecology comments on October 22, 2007. Comment resolution is in progress.
- Milestones M-45-00B (retrieve all C-Farm tanks) and M-45-00C (initiate negotiations on next set of SST retrievals) were both due on September 30, 2006 and missed. DOE, Ecology, and EPA began TPA negotiations in May 2007, to address these and other milestones.

**C-FARM RETRIEVAL SUMMARY SCHEDULE FORECASTS <sup>a</sup>**

Tank	Final Design Drawings complete	Construction Complete	Process Control Plan Complete	Start Retrieval	Complete Retrieval	TSAP Complete	Retrieval Data Report or Appendix H to Ecology/EPA
C-101	7/2/09	8/5/10	9/1/10	10/1/10	1/6/12	12/6/11	9/27/12
C-102	1/14/11	10/13/11	12/9/12	1/9/12	11/20/12	10/20/12	11/18/13
C-103	Complete	Complete	Complete	Complete	Complete	Complete	Complete
C-104	11/14/07	2/19/08	2/6/08	3/20/08	10/28/08	9/28/08	9/3/09
C-105	5/2/12	6/5/13	7/30/13	8/30/13	3/6/14	2/6/14	12/4/14
C-106	Complete	Complete	Complete	Complete	Complete	Complete	Complete
C-107	3/21/14	12/19/14	2/26/15	3/26/15	12/18/15	11/18/15	4/26/17
C-108	Complete	Complete	Complete	Complete	9/1/08	8/1/08	4/31/09
C-109	Complete	Complete	Complete	Complete	5/5/08	4/4/08	1/31/09
C-110 <sup>b</sup>	11/29/07	4/1/08	3/30/08	4/30/08	12/3/08	11/3/08	7/29/09
C-111	8/18/14	9/21/15	11/21/15	12/21/15	4/28/16	3/28/16	1/31/17
C-112	10/18/13	7/23/14	9/9/14	10/9/14	3/25/15	2/25/15	3/1/17
C-201	Complete	Complete	Complete	Complete	Complete	Complete	Complete
C-202	Complete	Complete	Complete	Complete	Complete	Complete	Complete
C-203	Complete	Complete	Complete	Complete	Complete	Complete	Complete
C-204	Complete	Complete	Complete	Complete	Complete	Complete	Complete

a. Completion dates are based on the stated performance baseline as of 10/31/07 and are subject to change as efforts continue to identify and implement schedule efficiencies.

b. Projected dates for C-110 are based on utilizing Modified Sluicing technology and availability of acceleration funding.

## SST RETRIEVAL SEQUENCE DOCUMENT

### I. Deliverables

- **M-45-02M, Submit Biennial Updates 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 Within 60-days**  
Due: 3/1/06 (Parties to meet annually to agree on SSTs to be retrieved during the coming year from the tank pool.)  
Status: Complete.
- **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-45-02M 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: On schedule
- **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: On schedule
- **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: On schedule

### II. Significant Accomplishments None

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

- ORP and Ecology work jointly to develop modeling assumptions and inputs in support of the M-45-02N deliverable.

**IV. Issues**

- None

**TANK RETRIEVALS WITH INDIVIDUAL MILESTONES****Tank 241-C-106****I. Deliverables**

- **M-45-05H, Interim Completion of Tank C-106 SST Waste Retrieval and Closure Demonstration Project**  
Due: 6/30/04  
Status: Completed
- **M-45-05L-T01, Complete Full-Scale C-106 Waste Retrieval**  
Due: 11/1/03  
Status: Completed
- **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: Completed

**II. Significant Accomplishments**

None.

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

- Submit C-106 Appendix H document revisions to NRC to complete their review of the C-106 exception request (concurrent courtesy transmittal to Ecology and EPA).
- Continue SST PA comment resolution with Ecology and EPA.

**IV. Issues**

- C-106 Closure Plan approval and SST radiological Categorical Notice of Construction Phase 3 (closure) and a toxics categorical NOC application are pending completion of the Tank Closure and Waste Management Environmental Impact Statement and associated Record of Decision (ROD); forecast completion for the final EIS is June 2009.

**Tank 241-S-102****I. Deliverables**

- **M-45-05C, Complete S-102 Initial Waste Retrieval Project Construction (to Include all Physical Systems Including Those Necessary for Leak Detection, Monitoring, and Mitigation)**

Due: 3/31/04  
Status: Completed

- **M-45-06C, Submit a Certified S-102 Component Closure Activity Plan, as an Application for a Modification to the Hanford Site-Wide Hazardous Waste Facility Permit to Ecology**

Due: 9/30/04  
Status: Completed

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

Due: 3/31/07

Status: Missed. As a result of equipment failure on March 14, 2007, retrieval operations were suspended at Tank S-102 with retrieval approximately 91% complete and approximately 423,000 gallons total waste removed. Retrieval restarted on July 25, 2007 and was suspended after a waste spill on July 27, 2007. Spill recovery actions are in progress.

- **M-45-15, Interim Completion of Tank S-102 SST Waste Retrieval and Closure Demonstration Project**

Due: 12/31/07

Status: To be missed. Change Request pending.

## II. Significant Accomplishments

- Completed hose draining and removal of contaminated liquids on October 6, 2007.

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

- Recover from the waste leak of July 27, 2007 (including removal and disposal of contaminated equipment and soil).
- Resume retrieval.

## IV. Issues

- Retrieval of Tank 241-S-102 was not completed by TPA milestone date of March 31, 2007, due to pump failure.
- On July 27, 2007 a leak of up to 114 gallons of tank waste occurred from the S-102 pumping system. Operations were suspended and recovery actions started immediately.
- Milestone M-45-15 requires the submittal, by ORP, and approval by Ecology of a "Closure Demonstration Plan" and incorporation of the plan in the Site-wide Permit. Approval of closure plans is being held in abeyance by Ecology until issuance of a Record Of Decision for the Tank Closure EIS (Ecology letter dated August 15, 2006).

## Tank 241-S-112

### I. Deliverables

- **M-45-06B, Submit a Certified S-112 Component Closure Activity Plan, as an Application for a Modification to the Hanford Site-Wide Hazardous Waste Facility Permit to Ecology**  
Due: 9/30/04  
Status: Completed.
- **M-45-03C, Complete Full-Scale Saltcake Waste Retrieval Technology Demonstration at Single-Shell Tank S-112**  
Due: 6/30/05  
Status: Completed.
- **M-45-13, Interim Completion of Tank S-112 SST Waste Retrieval and Closure Demonstration Project**  
Due: 12/31/07  
Status: To be missed. Change Request pending.

## II. Significant Accomplishments

- None

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

- Prepare and submit the S-112 RDR.

## IV. Issues

- Milestone M-45-13 requires the submittal, by ORP, and approval by Ecology of a "Closure Demonstration Plan" and incorporation of the plan in the Site-wide Permit. Approval of closure plans is being held in abeyance by Ecology until issuance of a Record Of Decision for the Tank Closure EIS (Ecology letter dated August 15, 2006).

## 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 03/18/04 with discontinuation of pumping in U-108 and subsequent consultation with Ecology staff. Interim stabilization of S-102 and S-112 held in abeyance by third amendment to the Consent Decree; these two tanks are undergoing retrieval. ORP's obligation to interim stabilize S-102 and S-112 will be satisfied upon completion of retrieval operations. Retrieval of S-102 will be impacted by the recent spill at this tank.

### II. Significant Accomplishments:

Retrieval of Tank S-112 complete.

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

Conduct recovery actions from the spill at S-102.

### IV. Issues

Tank S-102 retrieval not completed by milestone M-45-05A date of March 31, 2007. The spill at S-102 will delay completion of this milestone.

## Milestone M-23-00, Tank Integrity and Monitoring

**I. Near-Term Deliverables:**

None.

**II. Significant Accomplishments:**

Transmitted, "241-BY-ITS1 Liquid Level Assessment Report", RPP-RPT-32085, Revision 0, to Ecology on June 8, 2007. This closes out this milestone.

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

None

**IV. Issues**

Nothing to report.

## In Tank Characterization and Summary

For the period from October 1 – October 31, 2007

### I. Accomplishments:

- Completed RPP-PLAN-35254, Rev. 0, Analysis Plan for Liquid Sample from 241-S-102 Dilution Hose, on October 9, 2007.
- Completed Tank 241-S-112 residual waste inventory document, RPPRPT-34567, Tank 241-S-112 Residual Waste Inventory Estimates for Component Closure risk Assessment, Rev. 1, on October 10, 2007.
- Completed Tank 241-AP-108 TSAP, RPP-PLAN-34845, Rev. 0, Chemistry Control-Push Mode Tank Sampling and analysis Plan for Tank 241-AP-108, on October 15, 2007.
- Completed Vadose DQO RPP-35169, Rev. 0, Near Term Data Quality Objectives for Vadose Zone Characterization Waste Management Area C on October 12, 2007.
- Completed Tank 241-S-102 hose liquid sampling on October 31, 2007.

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

#### Tank Sampling

- Tank 241-S-102 soil sample scheduled for November 2007.
- Tank 241-AP-108 core corrosion samples scheduled for November 2007.
- Tank 241-S-302 solid grab samples scheduled for November 2007.
- Tank 241-AP-103 core samples scheduled for February 2008.
- Tank 241-AW-105 grab samples scheduled for December 2007.
- Tank 241-AY-101 grab samples scheduled for November 2008.
- Tank 241-AY-102 leak detection pit scheduled for November 2007.

#### BBI Updates

- Eight tanks were updated during the fourth quarter of FY 2007 and published to TWINS on October 8, 2007.
- Seventeen updates are planned for the first quarter of FY 2008. One of the 17 has been completed.

#### DQO s

- Complete Evaporator DQO, Rev. 5 in February 2008.
- Complete SST Component Closure DQO, Rev 4 in November 2007.
- Complete Environmental Vapor Stack Sampling DQO in November 2007.
- Complete DBVS DQO, Rev. 1 in March 2008.

**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-47-02, Complete startup and turnover activities for required transfer system upgrades to allow transfer of first high-level waste feed to the Pretreatment/Treatment Complex.**  
Due: 03/31/09  
Status: Complete. Ecology letter dated 10/18/07 acknowledges completion of milestone.
- **M-47-04, Complete startup and turnover activities for required transfer system upgrades to allow transfer of first low-activity waste feed to the pretreatment/treatment complex. Installation of the pump will not be required until necessary to support WTP waste feed activities.**  
Due: 03/31/09  
Status: Complete. Ecology letter dated 10/18/07 acknowledges completion of milestone.
- **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: Pending path forward with Ecology for renegotiation of new milestone commitments.
- **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:**

- Completed actions as outlined in close-out letter by Ecology

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

- None.

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

- Receive Ecology concurrence that action and TPA Milestones M-47-02 and M-47-04 are complete (06-TPD-043).

**V. Issues:**

- Nothing to report.

**242-A Evaporator Status (previously reported under Milestone M-62, which has been closed out).**

**EVAPORATOR CAMPAIGNS**

Fiscal Year	Campaign No.	Feed Source	Slurry Tank	Comments
FY07	07-01 (07-02)	AN-106/AY-102 (AW-102)	AP-103	AN-106 and AY-102 candidate feed staged and sampled in AW-102. Completed 7/22/07.
FY07	07-02 (08-01)	AP-104	AP-103/ AP-104	Campaign 08-01 is being accelerated to be performed as Campaign 07-02 back-to-back with 07-01
FY08	08-01 (new)	AP-105	AP-104	A proposal to add up to 2 new campaigns to the FY08 schedule is under evaluation. A baseline change request will be processed to add the campaigns if approved.
FY08	08-02 (new)	AP-101	AP-101	A proposal to add up to 2 new campaigns to the FY08 schedule is under evaluation. A baseline change request will be processed to add the campaigns if approved.
FY09	09-01	TBD	TBD	Detailed planning for FY09 and outyear campaigns subject to contract requirements.

## Milestone M-48-00, DST Integrity Assessment Program

### I. Deliverables:

- **M-48-15, Submit a Report to Ecology for the Re-examination of Six DSTs by Ultrasonic Testing**  
Due: 9/30/07  
Status: Complete. Ecology letter dated 10/18/07 acknowledges completion of milestone.
- **M-48-00, Complete Tank Integrity Assessment Activities for Hanford Double Shell Tanks System**  
Due: 9/30/07  
Status: Complete. Ecology letter dated 10/18/07 acknowledges completion of milestone.

**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-20-56, Submit Canister Storage Facility Part B Permit Application**  
Due: 6/30/03  
Status: **Complete.**
  
- **M-20-57, Submit ILAW Disposal Facility Certified Part B Permit Application to Ecology**  
Due: 6/30/03  
Status: **Complete.**
  
- **M-90-09-T01, Complete Detailed Design of ILAW Disposal Facility Critical Systems to 80%**  
Due: 5/30/03  
Status: **Complete.**
  
- **M-90-08, Initiate ILAW Disposal Facility Construction**  
Due: 2/28/05  
Status: **Complete.**
  
- **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 renegotiated to align with WTP schedule.

**II. Significant Accomplishments:**

- Completed resolution of EPA comments on the IDF Permit modification (submitted during the 45-day public comment period ending June 8, 2007) – August 2007.
- Completed placement of gravel layer on portions of the North side slopes and initiated work on East side slope to provide added protection for wind erosion – October 2007.
- EPA formally withdrew their comment letter – October 2007.

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

- Initiate nursery planting of 48,000 additional sagebrush to meet requirements of the Mitigation Action Plan on December 1, 2007.
- Complete placement of gravel layer on portion of the East side slope to provide added protection for wind erosion. November 2007.
- Ecology prepare and issue responsiveness document for public comment received on proposed IDF Permit modification – November 2007.
- IDF Permit modification becomes effective to place the facility in a “preactive” state –November 2007.
- By agreement between ORP and Ecology, withdrawal of the Canister Storage Facility Part B Permit Application and Part A are under consideration, due to the fact that WTP operating schedule has been pushed out and the facility will not be needed as early as previously anticipated – December 2007.

**IV. Issues**

- None.

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

### Pretreatment (PT) Facility

The PT Facility will separate the 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. Facility construction began November 2002 and the construction completion date is October 2014. Currently the design is 68% complete and construction is 24% complete.

The PT facility construction is no longer restricted by the seismic design concerns and BNI is preparing for resumption of construction. This work provides a new dimension to the project even though work continues on resolution of major technical issues relating to caustic leaching, Pulse Jet Mixer (PJM) overblow, vessel mixing, vessel erosion, Hydrogen in Piping and Ancillary Vessels (HPAV), and Capacity Modifications.

One the major technical activities involves the design and fabrication of the Pretreatment Engineering Platform (PEP). The PEP is a test platform designed to test the caustic leaching and Ultrafiltration processes. The design effort has been making good progress throughout the quarter but progress has slowed as the team moves into the design of instrumentation and controls. They have also completed some component testing that revealed problems with the design of some of the prototypic vessels. While it is too early to determine what impact these developments will have on the overall testing schedule, it is anticipated that there will be some schedule slippage and cost increase. Fabrication of the modules (skids) continues at a brisk pace in Carlsbad, New Mexico even though retaining qualified crafts is becoming more challenging as other projects are being started in the area around Carlsbad. The skids are on schedule for delivery in December 2007 and it appears most of the skids will be delivered before the end of the year. Modifications that are required at the Process Development Laboratory – West (PDL-W) facility where the PEP will be assembled and tested, are nearing completion. The spill barrier and the concrete footings inside the building have been completed and work is underway on utilities and slabs to support utility skids that will be located on the outside of the building. The PDL-W modifications required to support installation of the skids in the building are complete and pads for the utility skids are being placed outside the facility and will be in place well before these skids arrive on site. Because of the design and fabrication delays experienced, it is likely that the initiation of cold testing is likely to slip to some degree.

BNI determined there was a possibility that more than one pulse jet mixer (PJM) could overblow simultaneously; this is referred to as a multiple overblow (MOB). During the quarter, two different PJM arrays were tested using both Newtonian and non-Newtonian simulants. All testing has been completed for both arrays, the testing subcontractor has compiling the test data and sent the date to a consulting firm for analysis to determine

the hydrodynamic loads that need to be considered in the vessels with PJMs. This analysis should be completed by the end of the year.

In response to the External Flowsheet Review Team recommendations BNI has been evaluating line plugging and mixing in the various systems within the PT facility. In doing so, they have reevaluated the capabilities of the plant as design and found that between 1% and 3% of the waste could cause mixing or line plugging difficulties. Modification to the facility to accommodate these larger particles may prove to be more difficult and costly than establishing waste acceptance criteria that will exclude these particles from the plant. The Interface Control Document for Waste Feed (ICD-19) integration team (BNI, CHG, and DOE) is currently conducting an engineering study that evaluates alternative methods for resolving this issue. This team is expecting to be able to brief the joint management team on the results early next calendar year on the results of this effort.

Erosion testing activities have made progress during the quarter but not at the expected rate. It was found during a shakedown test for the test apparatus that one of the components in the simulant contained particles that were larger and harder than specified. BNI has undertaken the development of a new simulant and revision of the testing plan. Meetings with the testing subcontractor are underway to finalize the test plan and develop a revised schedule for the erosion testing. There is hope that the erosion testing will be completed by the end of within the first quarter of calendar year 2008. These tests are designed to close EFRT issues and to resolve Ecology concerns about the erosivity of tank wastes. Until the testing has been completed the project is maintaining access to the wear plates in the vessels currently in the fabrication shop. With the exception of cooling jackets, PJM cones, and vessel nozzles installation, vessel fabrication has been on hold pending resolution of technical and permitting issues.

Bechtel National, Inc.'s (BNI) assessment program identified recurring problems with the lack of Non-Destructive Examination (NDE), Material Test Reports (MTR), and configuration management of both Commercial Material (CM) and "Q" piping spools to be installed in black cells at the WTP. Over 95% of the piping spools in question are for the Pretreatment Facility, with the remainder for the High-Level Waste Facility. These issues require the inspection of approximately 17,000 piping spools before the pipe spools can be cleared for installation in the black cells. BNI is documenting the additional issues identified by the extent of condition reviews and the procurement specification issues that resulted in the lack of required spool inspections within their corrective action management system. Fabrication, shipment, and installation of the suspect pipe spools has been suspended until this issue can be resolved.

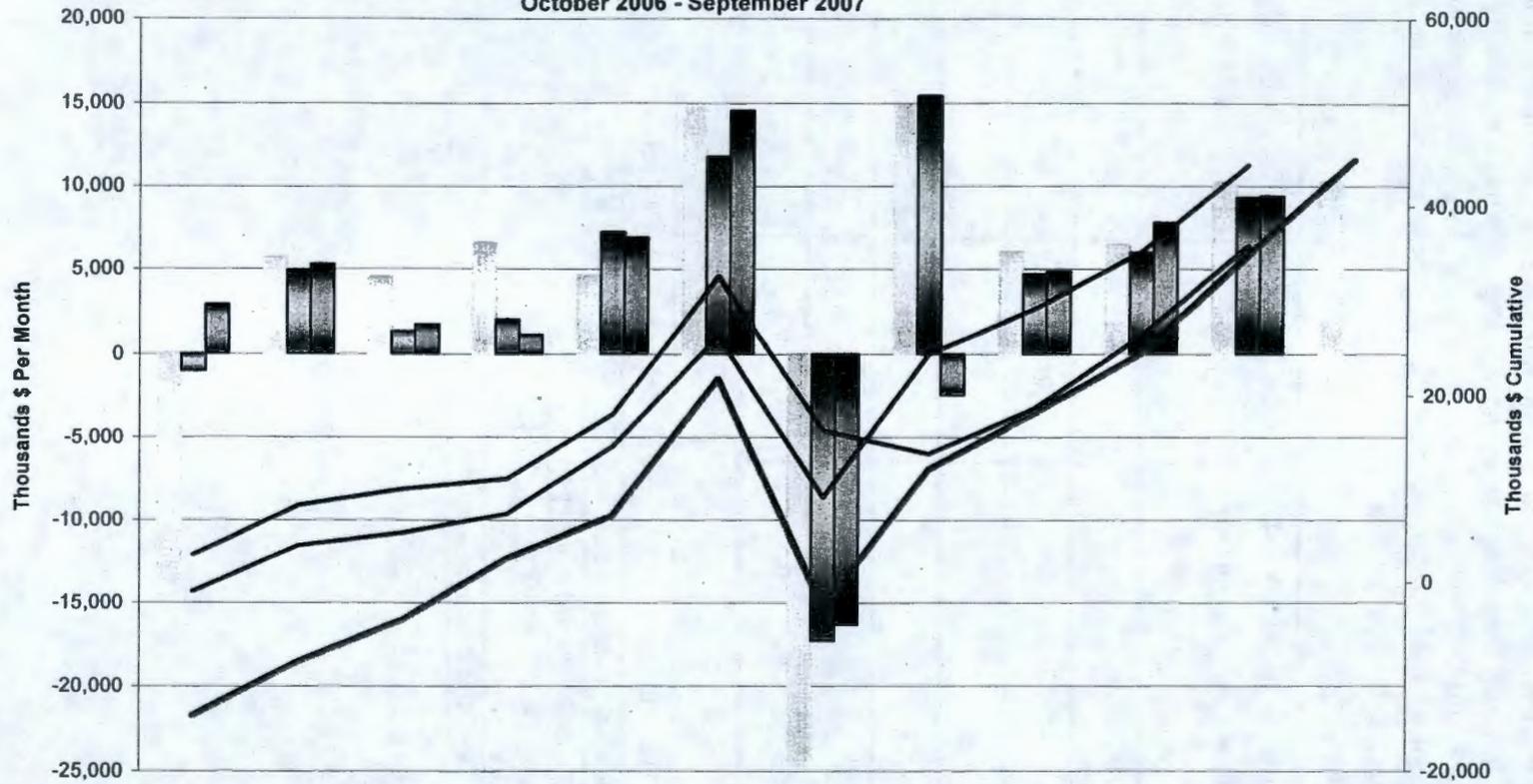
The resumption of construction of the PT facility is one of the main areas of interest for the project. BNI is nearing completion of their assessment of readiness to resume construction and they have developed a list of activities that must be completed prior to the resumption of construction. The activities have been entered into an action tracking

system and will be tracked until all of the activities have been closed. DOE has initiated an independent review of the BNI readiness activities and will follow completion of the pre-start activities. BNI had been targeting completion of the readiness review by October 18, 2007 but they found that more time was needed to do an adequate job. Both DOE and BNI are emphasizing the importance of doing thorough job rather than rushing to resume construction.

Commodity	Unit of Measure	Installed during this period	Installed to date	Percentage installed to date
Concrete	1000 CY	0	77.13	68.76%
Structural Steel	1 Ton	0	3,010.00	18.36%
Pipe	1000 LF	0	36.95	7.01%
Cable Tray	1000 LF	0	0.34	0.94%
Conduit	1000 LF	0	17.13	8.64%
Cable & Wire	1000 LF	0	0.00	0.00%

Facility	Milestone	Scheduled	Projected
PT	Complete PJM Multiple Overblow Test	3/07	9/07A
	Approve PJM Multiple Overblow Final Report	6/07	4/08
	EFRT Recommendation M2, Perform Submerged Jet Test	6/07	2/08
	Deliver the Filter Cave shield door to Richland	12/07	12/07

**Pretreatment**  
**WTP Fiscal Year to Date Performance (\$ In Thousands)**  
 October 2006 - September 2007



	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07
Mthly Plan (BCWS)	-14,203	5,680	4,508	6,567	4,549	14,695	-24,625	14,894	6,010	6,440	10,201	10,281
Mthly Perf (BCWP)	-1,014	4,938	1,365	2,025	7,215	11,785	-17,296	15,431	4,715	5,964	9,278	
Mthly Actuals (ACWP)	2,937	5,281	1,720	1,140	8,897	14,535	-16,318	-2,474	4,849	7,778	9,397	
FYTD Plan (BCWS)	-14,203	-8,523	-4,015	2,552	7,100	21,796	-2,830	12,065	18,075	24,515	34,716	44,997
FYTD Perf (BCWP)	-1,014	3,924	5,290	7,314	14,530	26,315	9,018	24,449	29,165	35,129	44,407	
FYTD Actuals (ACWP)	2,937	8,218	9,938	11,078	17,975	32,511	16,192	13,718	18,567	26,344	35,742	

## High-Level Waste Vitrification Facility – Oct 2007

ORP has received Secretarial certification of the final seismic ground motion on August 10, 2007, based on the PNNL evaluation of the seismic response spectra from the deep boreholes project. This allowed ORP to remove restrictions on the construction at HLW and PT facilities.

Unfinished installation of rebars and conduits were completed and the 1<sup>st</sup> concrete slab at grade was placed (330 cy) after the construction resumption on September 20, 2007, 3 months ahead of schedule. This marked the first concrete placement at the HLW Facility since 2005. In November 2005, DOE suspended construction on the HLW facility to validate the design with more stringent seismic criteria. More than 40 craft are working at HLW. Construction is mobilizing additional crews to work on a number of other placements and steel installations. HLW is expediting construction activities to reduce the construction load in peak years. Construction has worked on rebar, conduit and embedment installations and placed another Slab on-grade (1006) in October. Construction forces are working on the annex wall for placement in November. Preparation of the Drum Transfer Tunnel walls for special protective coating is ongoing. Construction forces are installing pipe sleeves, embedments and hangers on annex walls. In addition preparation for winterization is underway. Crews are installing flex duct for temporary heat at the northeast, northwest, southeast, and southwest corners of facility at the -21 elevation.

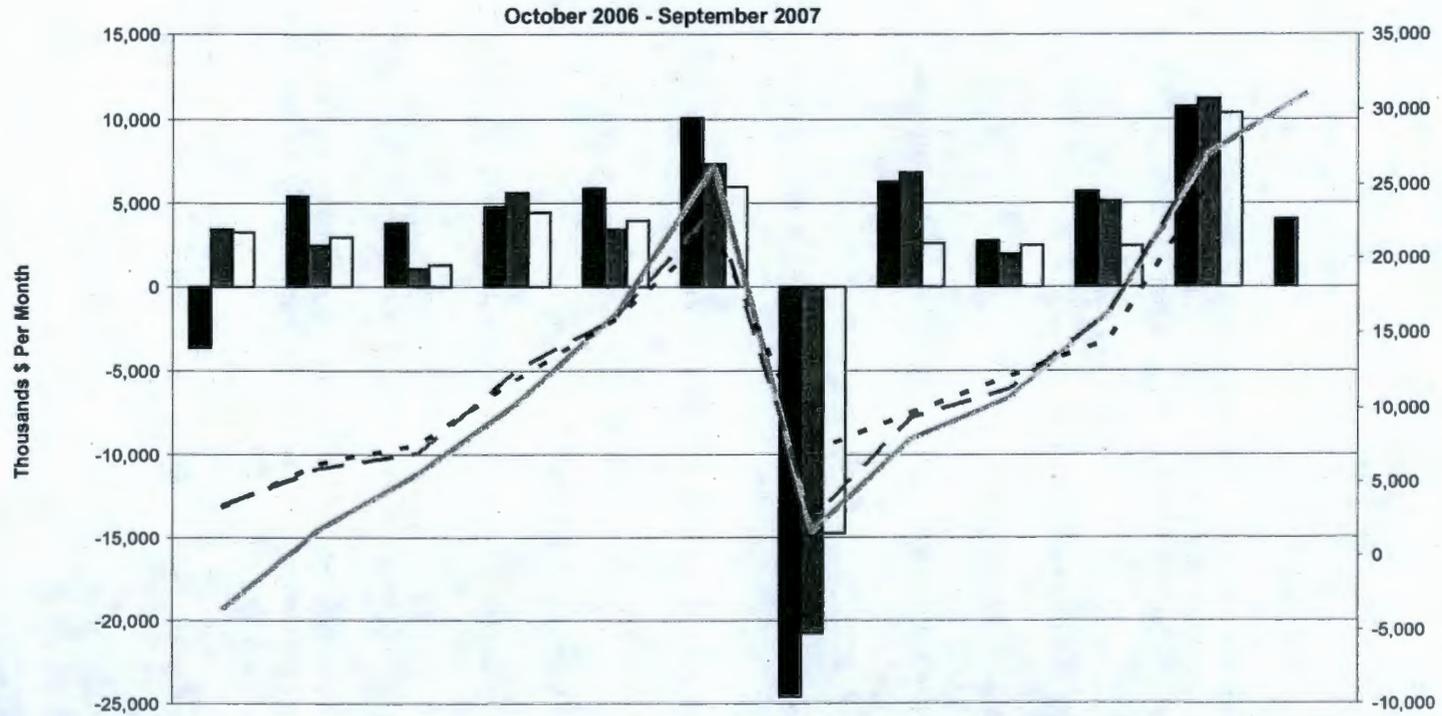
The early release of the planning area 11 (corridor) Radioactive Liquid Waste Disposal System (RLD) piping isometric design, the HLW Melter Offgas Treatment Process System (HOP) detailed piping design, and the Process Vessel Vent Exhaust System (PVV) detailed piping design have been completed. EI 37' electrical and piping joggle drawings (~700 joggles) and electrical grounding layouts EI 72' have been issued. Electrical grounding drawings were issued ahead of schedule completing a U.S. Department of Energy gatepost milestone. The HLW Canister Export Handling System block diagrams have been released. Equipment location drawings for the +72' and +91' elevations have been issued. HLW glass work at the Vitreous State Laboratory seeking to accommodate higher throughput processing of aluminum salt-rich feeds have been initiated. Several chapters of the HLW Structural Summary Report were forwarded to the Defense Nuclear Facilities Safety Board (DNFSB) as scheduled, towards the completion schedule of November 30, 2007. The waste screening form for the HLW canister processing operations has been revised. This revision brings the form in line with the newly released waste acceptance impacting (WAI) procedure. Internal (i.e., Bechtel National, Inc.

[BNI] reviews of the rinse bogie specification change notice for the HLW Canister Decontamination Handling System (HDH) was completed. This change notice requires the vessel drain valve to fail in the open position. This design change was driven by hydrogen in piping and ancillary vessels (HPAV). Another internal review of the software life-cycle document for the HLW Canister Pour Handling System (HPH) weld station equipment was completed.

Pipe fabrication vendor is fabricating newly released pipe spools and clearing previously released and held spools. About 15000 ft of spooled pipe have been received in FY 2007 well above the plan for ~9000 ft. The dual port hatch covers for pour tunnels 1 and 2, along with five other HLW hatches, the first 27 electrical joggles, and four 13.8 KV/480 volt dry-type transformers have been received. The final seismic qualification test report for the safe-change high-efficiency particulate air (HEPA) filter assemblies through shaker table test performed by Flanders was reviewed and accepted. BNI met with the Oregon Iron Works, Inc. and completed review of the physical configuration audit report of the melter cave shield doors prepared by OIW, and developed path forward on the repair rework activities. Significant efforts are being exerted to improve the Commercial Grade Dedication (CGD) process at BNI and at the vendor shops to ensure that NQA-1 requirements are met. QL systems, Thermal Catalytic Oxidizer (TCO) and PreHeaters were awarded to a commercial vendor EPCON. QL vendor, WEST METALS had been working to establish a NQA-1 program at the EPCON facility to enable EPCON to perform "Q" fabrication. The final audit report to certify the facility is delayed to November 2007.

The Washington State Department of Ecology (Ecology) has issued the 2+2 permit modification for the WTP on October 29, 2007. The permit incorporates the configuration of 2 high-level melters and 2 low-level melters into the facility, as well as, removal of the technetium ion exchange system. DOE and BNI are evaluating the new permit conditions identified.

# HLW Fiscal Year To Date Performance (\$ In Thousands)



	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07
<b>Mthly Plan (BCWS)</b>	-3,665	5,404	3,792	4,768	5,873	10,059	-24,592	6,249	2,742	5,683	10,744	4,025
<b>Mthly Perf (BCWP)</b>	3,418	2,449	1,070	5,616	3,417	7,334	-20,787	6,827	1,910	5,097	11,218	
<b>Mthly Actuals (ACWP)</b>	3,258	2,964	1,280	4,422	3,943	5,974	-14,741	2,583	2,448	2,415	10,355	
<b>FYTD Plan (BCWS)</b>	-3,665	1,739	5,531	10,298	16,172	26,231	1,639	7,888	10,630	16,314	27,058	31,083
<b>FYTD Perf (BCWP)</b>	3,418	5,868	6,937	12,553	15,970	23,304	2,517	9,344	11,254	16,351	27,568	
<b>FYTD Actuals (ACWP)</b>	3,258	6,221	7,501	11,923	15,866	21,840	7,098	9,881	12,127	14,542	24,897	

## Low Activity Waste (LAW) Vitrification Facility

Melter fabrication is progressing. The melter base cracking issues have been resolved by changing the material to one that is more tolerant to multiple welding. Cracks in the electrodes continue to appear but they are surface cracks. Penetrate tests are being performed on the electrode temperature transition zones to ensure that there are no cracks. If there is an indication/concern that cracks have progressed into the electrode radiographic testing can be performed.

BNI has requested Peterson to provide a revised delivery schedule for the melter structures. The redesign of the melter lids, from a three piece to a single piece configuration, should reduce the time required to fabricate the lid. Delivery of the lower portion (below the lid) should be delivered in CY08. Delivery of the lid in CY08 is doubtful.

Container import crane rail clips are being installed at the 3' level.

Piping and hanger installation is proceeding on the 3' and 28' levels.

Hangers to support the pour cave stainless steel liner and insulation are being installed.

Cable tray is being installed at the 28' and 48' levels.

Wet Process Cell vessels are being shimmed to their foundation to provide support to their foundation embeds.

Ventilation ducting and insulation is being installed at the 48' level.

Fireproofing repairs are underway at the -21' and 48' levels.

Structural steel and decking is being painted on the -21', 3' and 48' levels.

Awning is being installed on the annex. Scudders and downspouts are being installed on the main facility and the annex. Roofing is being installed on the annex.

Lightning protection components are being installed at the 68' level.

Shield plates are being installed on the north side of the second melter cave. The shield plates compensate for the temperature fluctuation in the melter cave while providing personnel protection for the container's radiation shine.

Commodity	UOM	Engineering		Construction		Percent Installed Last Month
		Engr Qty Fcst	Release Act to Date	Install Act to Date	Install Act %	
Concrete	1000 CY	28.54	27.40	25.744	90.19%	90.14%
Structural Steel	1 TN	6,213.00	5,855.70	5215	84.28%	82.93%
Pipe	1000 LF	104.46	100.37	44.592	43.77%	42.10%
HVAC	1000 LB	934.05	864.70	533.592	57.21%	56.88%
Cable Tray	1000 LF	15.62	15.19	11.869	76.00%	74.78%
Conduit	1000 LF	134.99	68.02	28.263	17.13%	16.70%
Cable & Wire	1000 LF	686.60	592.19	0	0.00%	0.00%
Terminations	1000 EA	41.78	27.05	0	0.00%	0.00%

### Analytical Laboratory (LAB)

LAB Construction has declared that the Erect Structural Steel Gatepost Milestone was completed on 11 Oct 2007, approximately three weeks earlier than the Milestone date. This milestone excluded the stack erection consistent with the LAW structural steel erection milestone.

Stack steel delivery has been delayed due to quality problems and Duncan Bush, the contractor responsible for painting the steel.

Roof insulation is being installed on the east side of the facility. Gutters are being installed on the facility's west side.

Pipe welding is progressing on the south side of the facility. Piping hangers are being installed above the Hot Cells.

Hot cell wall partition work and trolley installation is progressing.

Permanent conduit and lighting are being installed.

F.D. Thomas is sand blasting and coating structural steel and decking. Fire protection coatings are being installed.

The C3 and C5 cells are being prepared for stainless steel liner installation.

Work is underway on the north side of the facility to support future stack erection.

Commodity	UOM	Engineering		Construction		Percent Installed Last Month
		Engr Qty Fcst	Release Act to Date	Install Act to Date	Install Act %	
Concrete	1000 CY	12.428	11.859	11.64	93.66%	90.28%
Structural Steel	1 TN	1720	1720	1598	92.91%	81.57%
Pipe	1000 LF	35.424	26.6484	9.625	26.35%	25.44%
HVAC	1000 LB	314.499	314.499	11.521	3.66%	2.44%
Cable Tray	1000 LF	2.772	2.772	0	0.00%	0.00%
Conduit	1000 LF	50.949	6.936	0.961	1.89%	1.89%
Cable & Wire	1000 LF	172.434	24.462	0	0.00%	0.00%
Terminations	1000 EA	11.65	1.238	0	0.00%	0.00%

## Balance of Facilities (BOF)

Commodity rack steam and condensate piping is being installed. Bore holes are being drilled to support the installation and placement of additional commodity rack piers. These piers will allow the commodity rack to be installed between the steam plant and LAB.

Electric motor starters and small bore piping is being installed in the Chiller Compressor Plant.

Rad-transfer line carbon steel containment piping between Pretreatment and HLW is being painted and shrink sleeves are being installed as part of the overall piping corrosion prevention system. Backfilling of the HLW-PT feed line pit has been delayed until January 2008. BNI does not have the Q-rated piping insulation which must be installed prior to placement of the controlled density fill.

Fabrication of the plant service air and water piping and supports are underway in the Water Treatment Building.

Piping and hangers are being installed between the Fire Water tank and pump building.

Preparations are underway for the second placement of the Melter Assembly Pad.

Conduit and grounding is being installed in the Chiller Compressor Plant (CPP). Small bore piping is being installed.

Shipment of the first glass former storage silo has been delayed at least two weeks. The first silo is currently scheduled to arrive the second half of November. BNI inspectors found non-UL listed installed on the silos. The fabricator needs to remove the wiring and conduit and reinstall approved components. Additional quality issues have also been found that the fabricator needs to resolve.

Commodity	UOM	Engineering		Construction		Percent Installed Last Month
		Engr Qty Fcst	Release Act to Date	Install Act to Date	Install Act %	
Concrete	1000 CY	18.42	13.11	10.38	56.48%	56.39%
Structural Steel	1 TN	1,587.00	728	298	19.34%	18.84%
Pipe	1000 LF	52.56	30.09	7.25	14.10%	14.06%
UG Pipe	1000 LF	124.9	111.61	103.96	83.39%	83.23%
Cable Tray	1000 LF	4.17	2.85	2.25	55.19%	49.28%
Conduit	1000 LF	63.18	41.59	18.26	29.64%	28.90%
UG Conduit	1000 LF	187.81	177.23	176.36	94.07%	93.90%
Cable & Wire	1000 LF	674.96	297.91	176.85	26.23%	26.20%
Terminations	1000 EA	24.76	1.64	0.86	3.47%	3.47%

**Balance of Facilities Construction Completion Status**

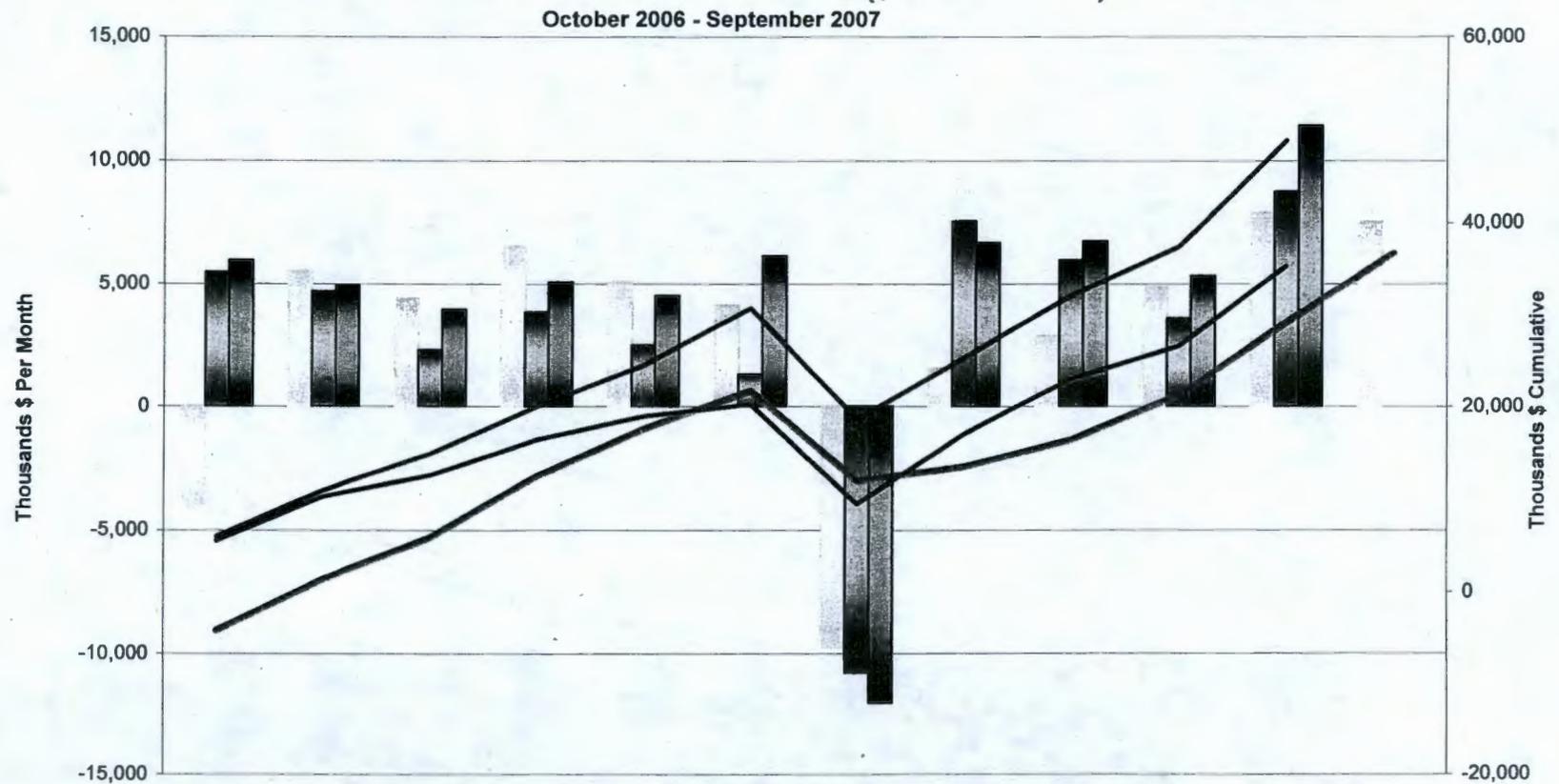
Facility	Engineering % Complete	Construction % Complete	Scheduled Completion Date	Value \$k
1.05 Balance of Facilities Common Scope	48%	34%	14-Jul	\$251,448
1.5A Site Work	88%	46%	14-Jul	\$102,928
1.5B Administration Building (convert from temp)	2%	0%	14-Jul	\$5,229
1.5C Cooling Tower Facility	99%	99%	6-Oct	\$6,816
1.5D Fire Water Pump House Facility	97%	94%	7-Oct	\$1,408
1.5E Fuel Oil Facility	99%	87%	6-Nov	\$1,204
1.5F Diesel Generators Facility	44%	0%	11-Nov	\$5,033
1.5G Glass Former Storage Facility	87%	9%	10-Sep	\$4,976
1.5H Guard House Facility	100%	100%	COMPLETE	\$7
1.5J Chiller Compressor Plant	96%	77%	8-Jun	\$15,415
1.5K Steam Plant Facility	100%	99%	8-Sep	\$8,626
1.5L Wet Chemical Storage Facility	100%	0%	13-Dec	\$4,498
1.5M Water Treatment Building	100%	69%	7-May	\$4,280
1.5N Non-Dangerous, Non-Radioactive Effluent Facility	100%	64%	7-Oct	\$1,405
1.5P Switchgear Building	96%	70%	11-Apr	\$4,168
1.5Q ITS Switchgear Building	100%	76%	12-Feb	\$1,990
1.5S Erected Tanks - Process/Potable	100%	99%	COMPLETE	\$5,214
1.5T Failed Melter Storage	11%	2%	10-Apr	\$1,647
1.5V BOF Switchgear Building	89%	81%	11-Apr	\$3,586
1.5Y Simulator Facility	100%	86%	10-Aug	\$7,384
1.5Z Anhydrous Ammonia	15%	0%	8-Sep	\$858

**Significant Planned Actions (next six months):**

Activity Description	Additional Description	Date
LAW -Flag- Vendor Insul. Liner Design Approval	Subcontractor (CB&I) detailed design for pour cave, critical sequence (cooling panels/pipe)	18-Oct-07
LAW -Flag- Dlvr LVE Melter Heater Power Supplies	Will support start of electrical equipment install in Elev. -21 PA05 ... MVE equipment to follow in 2008	17-Sep-07
LAW - Process Area Partition Walls S/C Award	Current plan improvement to Jun07 ... Important to release bulk electrical & elevator install.	25-Oct-07
LAW -Flag- Install 3,800 lf Pipe (PA10, El. -21)	85% of total corridor pipe (ref only) ...includes PA #10D key sequence with bus duct and HVAC. Bulk milestone will need Teamworks work package statusing scheme.	24-Sep-07
LAW -Flag- Complete Annex Basemat		21-Aug-07
LAW -Flag- Complete Export Bay Concrete Walls	PA06B Export Bay EL+03 ... (8) placements, 920 cyds (ref only)	28-Nov-07

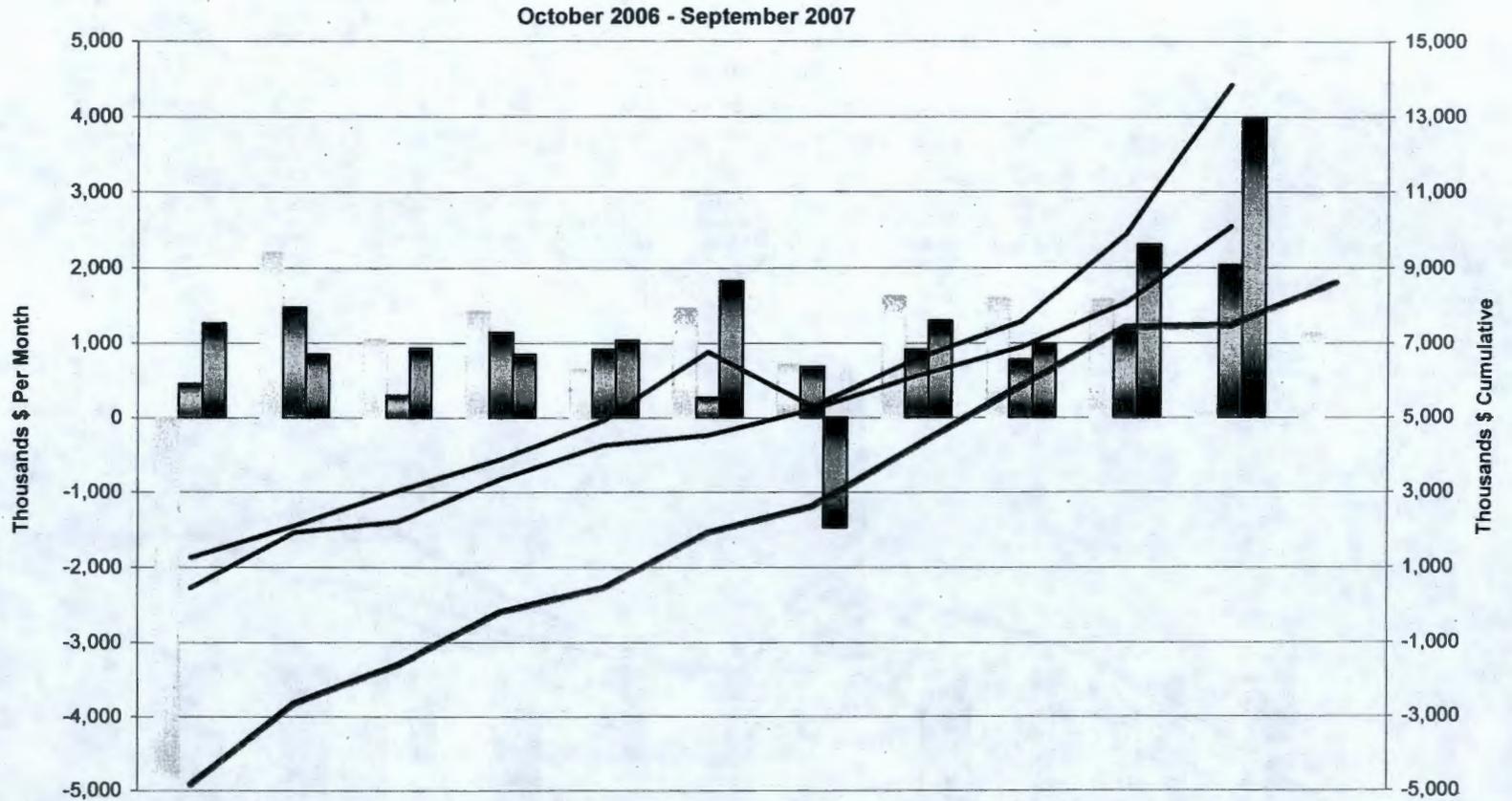
LAW -Flag- Complete Annex Structural Steel	Releases building for EPC Subcontractor installations & follow-up BNI activities	8-Oct-07
GEN -Flag- Award 4.16kV Emergency Diesel Gen. PO	Current schedule forecast Jan 08	19-Sep-07
BOF - Flag - Complete Steam Plant Construction	Excludes communications systems installation by BNI craft.	28-Aug-07
LAW -Flag- Install 5,700 lf Pipe (PA11, El. +03)	82% of total corridor pipe (ref only). Represents the transition of bulks up the bldg.	24DEC07*
LAB -Flag- Complete Production Piping Iso Design	Excludes ASX piping (PVC), awaiting design inputs from BNG due in late 2007	5-Nov-07
LAB -Flag- Deliver C5V HVAC Exhaust Fans	Suspended due to Vendor CGD issues. Vendor release expected in July 2007.	26-Nov-07
LAB - Flag Install Roofing & Exterior Siding*	To support winter 2007/08 activities	24-Oct-07
BOF -Flag- Complete Water Treat. Bldg. Const.		27-Nov-07

# LAW Performance for FY2007



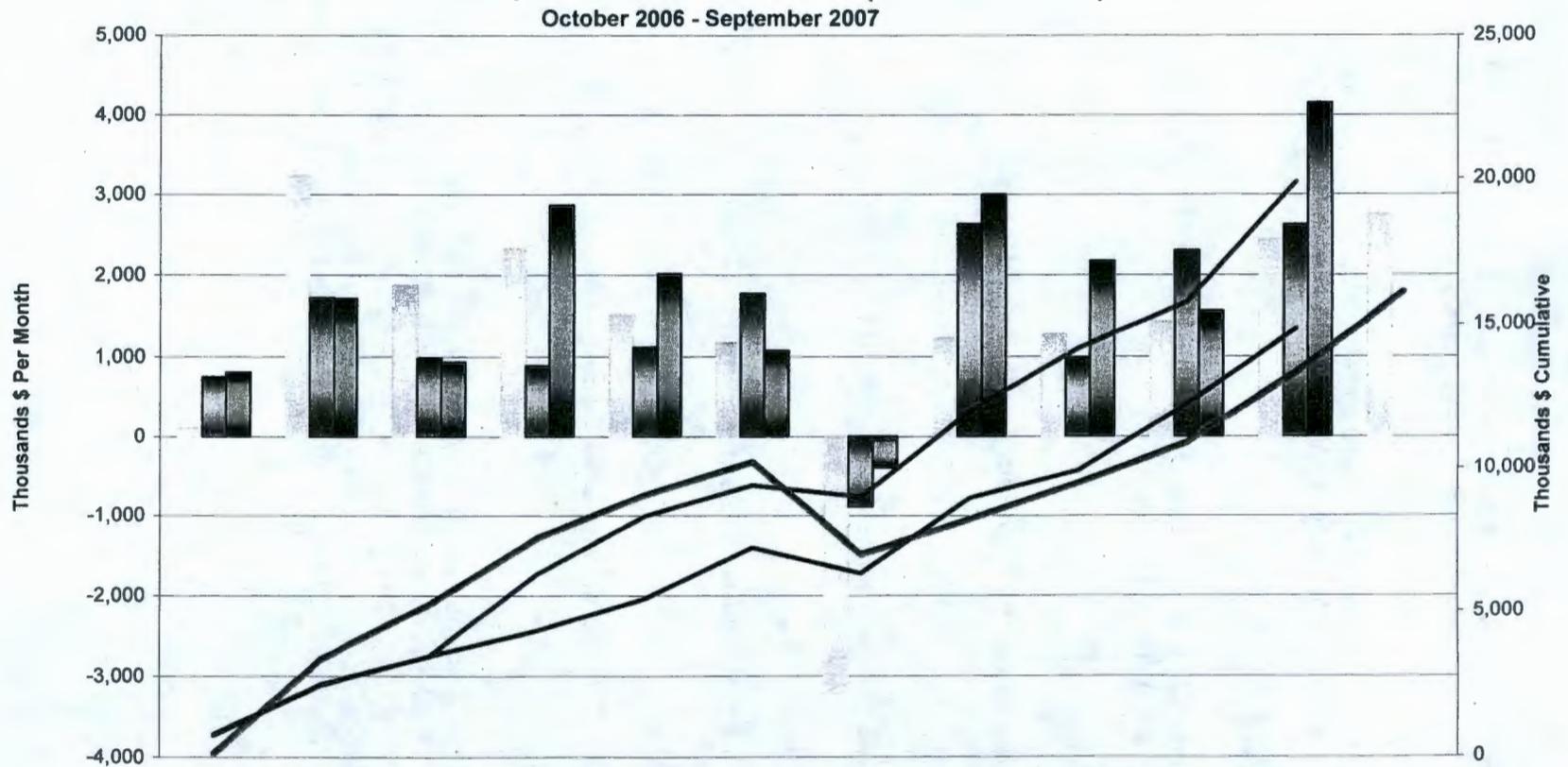
	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07
Mthly Plan (BCWS)	-4,154	5,562	4,407	6,586	5,100	4,143	-9,733	1,544	2,890	4,863	7,929	7,574
Mthly Perf (BCWP)	5,505	4,699	2,313	3,843	2,507	1,315	-10,798	7,586	5,981	3,602	8,759	
Mthly Actuals (ACWP)	5,995	4,929	3,965	5,077	4,525	6,162	-12,077	6,694	6,766	5,350	11,411	
FYTD Plan (BCWS)	-4,154	1,408	5,816	12,401	17,501	21,644	11,911	13,455	16,345	21,208	29,137	36,711
FYTD Perf (BCWP)	5,505	10,204	12,517	16,359	18,866	20,181	9,384	16,970	22,951	26,552	35,311	
FYTD Actuals (ACWP)	5,995	10,925	14,890	19,966	24,491	30,653	18,576	25,270	32,036	37,385	48,797	

# BOF Performance for FY2007



	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07
Mthly Plan (BCWS)	-4,847	2,196	1,041	1,416	640	1,460	709	1,628	1,597	1,580	53	1,133
Mthly Perf (BCWP)	447	1,472	289	1,139	912	262	682	912	774	1,170	2,036	
Mthly Actuals (ACWP)	1,283	846	926	848	1,037	1,827	-1,472	1,299	985	2,311	3,967	
FYTD Plan (BCWS)	-4,847	-2,651	-1,611	-194	445	1,905	2,614	4,242	5,839	7,419	7,472	8,605
FYTD Perf (BCWP)	447	1,919	2,207	3,347	4,259	4,521	5,202	6,114	6,888	8,058	10,095	
FYTD Actuals (ACWP)	1,283	2,109	3,035	3,883	4,920	6,747	5,275	6,574	7,559	9,870	13,837	

# Lab Performance for FY2007



	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07
Mthly Plan (BCWS)	110	3,239	1,870	2,328	1,508	1,165	-3,247	1,227	1,269	1,427	2,434	2,748
Mthly Perf (BCWP)	750	1,717	976	886	1,111	1,771	-891	2,625	974	2,297	2,621	
Mthly Actuals (ACWP)	805	1,705	932	2,865	2,010	1,068	-390	2,995	2,165	1,558	4,151	
FYTD Plan (BCWS)	110	3,348	5,218	7,546	9,054	10,220	6,973	8,200	9,469	10,896	13,330	16,078
FYTD Perf (BCWP)	750	2,467	3,443	4,329	5,440	7,211	6,320	8,945	9,919	12,216	14,838	
FYTD Actuals (ACWP)	805	2,511	3,442	6,307	8,317	9,385	8,995	11,990	14,155	15,713	19,863	

**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-62-01M, Submit Semi-Annual Project Compliance Report.**  
Due: 07/31/2006  
Status: Completed
- **M-62-01N, Submit Semi-Annual Project Compliance Report.**  
Due: 01/31/2007  
Status: Completed
- **M-62-01O, Submit Semi-Annual Project Compliance Report.**  
Due: 07/31/2007  
Status: Completed
- **M-62-03, Submit DOE Petition for RCRA Delisting or Vitrified HLW.**  
Due: 12/31/2006  
Status: Completed.
- **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: To Be 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 – Insufficient information to compare technologies due to delays in constructing the Demonstration Bulk Vitrification System (DBVS) and lack of WTP cost and schedule information.

**1. Significant Accomplishments:**

- Continued preparation for FY2007 integrated dryer/38D full-scale melt test.
- Completed preliminary designs for the simplified Off Gas Treatment System and the auger-based Dried Waste Transfer System.
- Completed development of the draft project cost estimate and schedule baseline to be subjected to External Independent Review in support of Critical Decision 2, "Approve Performance Baseline."

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

- Conduct full-scale dryer testing.
- Conduct IDMT.
- Receive Critical Decision 2.

**3. Issues:**

- Resolution of the MIS issue must be demonstrated during the integrated dryer/38D full-scale melt test.

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

Due: 02/28/2009

Status: To Be Missed

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

Due: 01/31/2011

Status: To Be Missed

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

Due: 06/30/2007

Status: Missed

**II. Significant Accomplishments:**

- None

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

- None

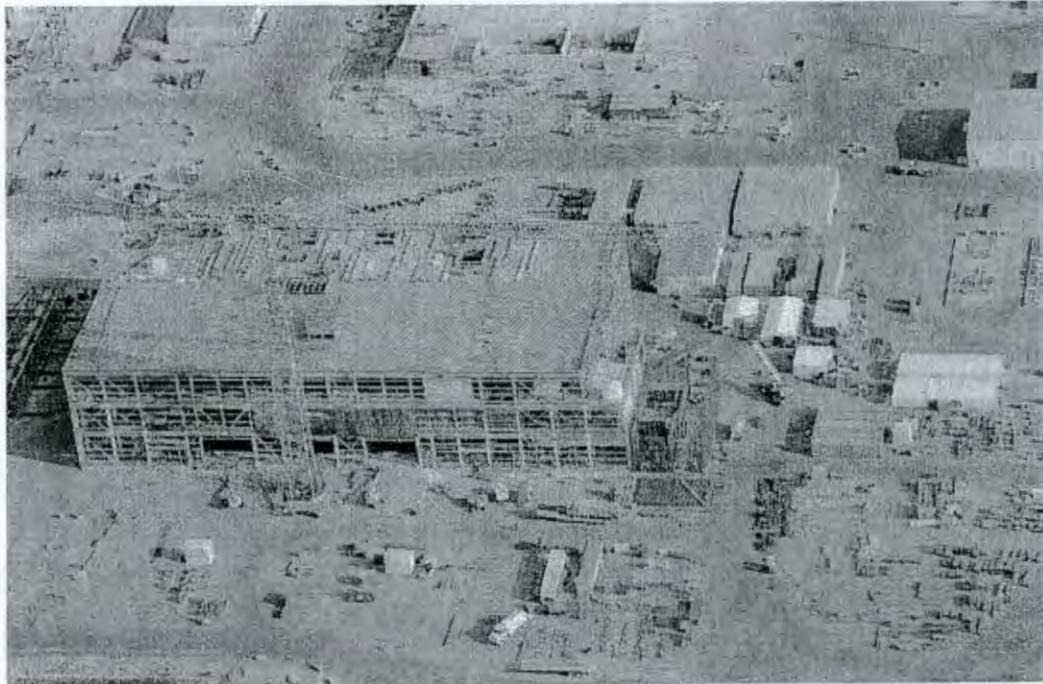
**IV. Issues:**

- ORP formally informed Ecology that the Milestone M-62-08 due date was not achievable. The Milestone requires submittal of a Supplemental Treatment Technologies Report that provides a recommendation describing the technical and financial alternatives for selection of a technology, or a second WTP ILAW plant, which in combination with the WTP could be implemented to treat all of the Hanford tank waste. In a letter dated December 26, 2006, Ecology requested ORP provide the current state of information on the supplemental low-activity waste treatment options. ORP and CH2M HILL met with Ecology on January 11, 2007, to agree on information to be provided to satisfy the Ecology request. All information requested for the DBVS Project has been submitted. Information requested on Steam Reforming is still being worked.

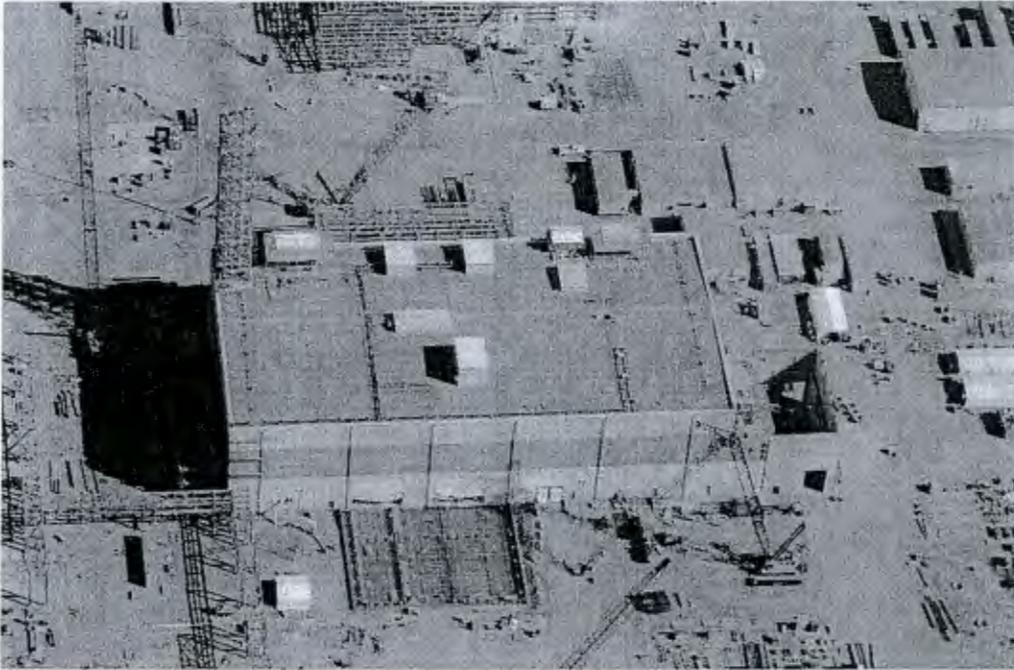
#### 4.1 Low-Activity Waste (LAW) Facility – 01-D-16A

The LAW Facility immobilizes (vitrifies) the low-activity fraction of the waste for onsite (Hanford) disposal.

**Figure 4.1.1. Low-Activity Waste Facility – Sept 2006**



**Figure 4.1.2. Low Activity Waste Facility Sept 2007**



**Figure 4.1.3 – LAW Control Room and Office Annex**



The last concrete placement for the LAW main facility has been placed. This placement is also the last placement for the container export bay.

The container import bay structural steel has been erected. This was accomplished four months earlier than the baseline. Siding and roofing installation can now proceed. The container import conveyor equipment is being installed next to the container import bay.

Melter fabrication is progressing. The melter base cracking issues have been resolved by changing the material to one that is more tolerant to multiple welding.

BNI has requested Peterson, the melter fabricator, to provide a revised delivery schedule for the melter structures. The redesign of the melter lids, from a three piece to a single piece configuration, should reduce the time required to fabricate the lid. Delivery of the lower portion (below the lid) should be delivered in CY08. Delivery of the lid in CY08 is doubtful.

BNI is walking through the processes necessary for the construction of the melter. There are three structural elements (the shield lid, gas barrier lid and the wall modules) that must be assembled within design tolerances to successfully construct the melter. The gas barrier lid is placed on the wall module and the shield lid is then installed on the wall module. The alignment tolerances between the shield lid and gas barrier lid must be maintained simultaneously with the wall module and shield lid tolerances. Construction of the melter will be difficult and BNI is proactively addressing these issues now to understand craft training requirements and if additional construction aides are required.

Peterson, the melter structure fabricator, identified a number of surface cracks in the melter electrodes. The electrodes are large Inconel forgings which extend from outside the melter through the refractory and into the melt pool. Maintaining the integrity of the electrodes is critical for efficient operation of the melter.

Surface cracks were previously found in the melter's Inconel electrodes rough forgings. Where necessary these cracks will be weld repaired. BNI will work with the melter structure fabricator to continue with machining the electrode rough forging to produce the final electrode shape. Machining of the electrode will address the work hardening properties of Inconel. The final electrode shape will be inspected for cracks. Additional nondestructive inspections may be required if there is evidence of surface or subsurface cracking/defects.

Structural steel and decking is being painted on the -21', 3' and 48' levels.

Awning is being installed on the annex. Scudders and downspouts are being installed on the main facility and the annex. Roofing is being installed on the annex.

Lightning protection components are being installed at the 68' level.

Shield plates are being installed on the north side of the second melter cave. The shield plates compensate for the temperature fluctuation in the melter cave while providing personnel protection for the container's radiation shine.

#### ***Accomplishments for 4<sup>th</sup> Quarter FY 2007***

- Complete production piping isometric design. For the quarter, issued over 320 revision 0 isometric drawings (4,900 lf).
- Review and approve the vendor pour cave insulated liner plate design
- Award the construction subcontract for installation of the process area partition walls
- Receive the spare melter fused cast refractory
- Received (64) in cave closed circuit TV camera assemblies
- Fabricated & delivered over 170 tons of structural steel
- Fabricated & delivered over 5,300 lf of process piping
- Complete installation of 40,000 pounds of HVAC on elevation +48.
- Complete the final export bay concrete wall placements.
- Complete Annex steel erection.
- Complete the import bay slab concrete placement. Initiate steel erection,
- Initiated installation of the mechanical handling container import conveyor system.
- Placed over 880 cyds of concrete & erected over 350 tons of structural steel.
- Installed over 5,600 lf of process piping.
- Installed over 850 lf of electrical tray and 7,800 lf of conduit.

#### ***Plans for 1st quarter of FY08***

- Install the permanent equipment access hatches on the roof penthouses.
- Pour the Melter concrete assembly pads.
- Receive the Container Finishing Line swab and monitoring system.
- Receive the Container Finishing Line jib crane.
- Receive the Melter Heater Power Supplies
- Award the contract for the Process Area Partition Walls
- Complete Annex Basemat concrete placement
- Complete Export Bay Concrete Walls concrete placements
- Complete erection of the Annex Structural Steel
- Issue melter gallery & offgas caustic scrubber platform designs.
- Receive the non ITS UPS electrical equipment (elev. +28).
- Receive the plant service air receiver.
- Receive four finishing line jib cranes.
- Receive four electrical Non-ITS motor control centers (elev +3)
- Complete Annex steel elevated slab concrete placement. Additionally, initiate siding and roofing installation.
- Complete weld out of anchorage for five process vessels (PA #1B).
- Complete import bay steel erection.
- Set the PCW cooling water pumps & heat exchangers (elev. +28)
- Mobilize the subcontractor and start installation of the pour cave insulated liner plate
- Mobilize the subcontractor and start installation of the process area partition walls

#### **4.2 Analytical Laboratory – 01-D-16B**

The LAB provides analysis of the waste at different points throughout the treatment and immobilization process to validate the characteristics of the waste and to better optimize the processing of the waste.

Figure 4.3.1. Analytical Laboratory - Sept 2006

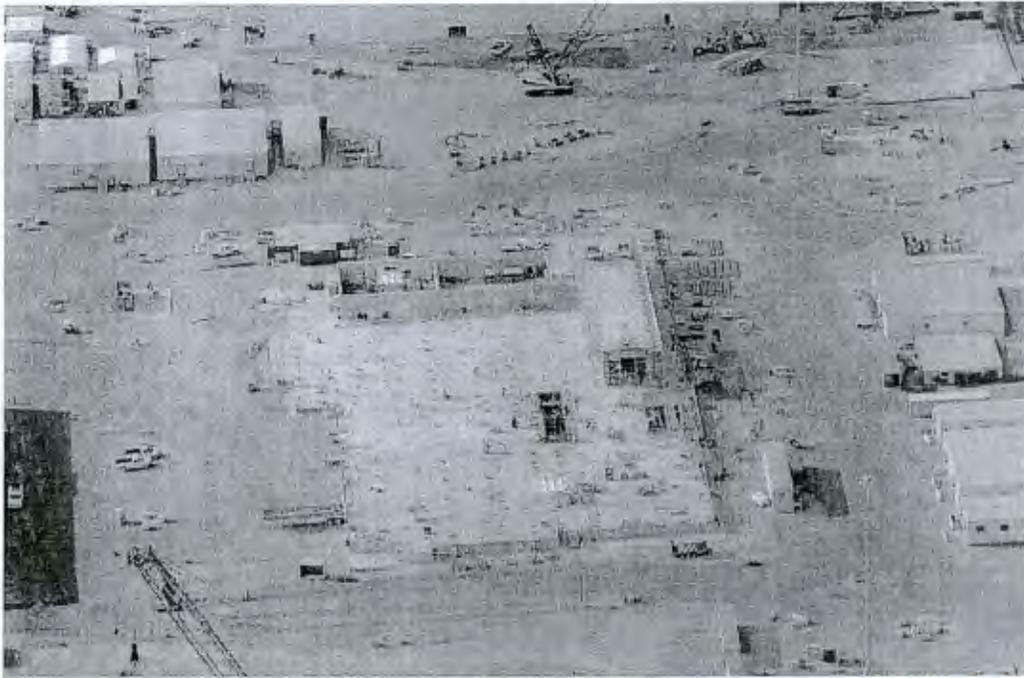


Figure 4.3.2. Analytical Laboratory - Sept 2007



LAB Construction has declared that the Erect Structural Steel Gatepost Milestone was completed on 11 Oct 2007, approximately three weeks earlier than the Milestone date. One year ago the lab facility was only a concrete basemat but today all the structural steel is complete (excluding the stack).

The siding and roofing installation is proceeding well and should be completed by the end of the year. Preparations are underway to start stack assembly. Roof decking is being installed on the west side of the facility. Siding is being installed on the west side of the facility. The first load of stack steel is being prepared for shipment to the site and area that will be used to assemble the stack is being cleared.

Permanent conduit and lighting is being installed. Preparations are underway to stage the air handling units at the 17' level. Piping hangers are being installed. Leak detection boxes are being installed in the C3 pit.

Fire protection coatings are being applied to the structural steel columns. Fire protection piping is being installed in the main facility.

Construction craft has completed the placement of all the concrete on the second floor. This will allow craft to start the installation of commodities and the large air handling units.

BNI has staged the first and second air handling units at the 17' level. Staging the air handling units early, while the roof is not installed, will save time and effort compared to installing the air handling units after the roof is installed.

#### ***Accomplishments for 4th quarter FY 2007***

- Review and approve approx. (300) vendor HVAC support designs.
- Complete installation of the Hot Cell Monorail (July, GPM).
- Complete primary structural steel erection and elevated slab concrete placement. Celebrated this accomplishment with a steel "topping out" media event.
- Initiate facility siding and roofing installation (Aug).
- Stage (12) HVAC air handling units (elev. +17, Sep).
- Complete Hot Cell HVAC header installations.
- Complete Hot Cell fire protection header installation and begin the general facility installation.
- Initiate general facility bulk floor coating applications (SE elevation 0)
- For the quarter, placed over 830 cyds of concrete & erected over 300 tons of structural steel.
- Complete the installation of the facility structural steel for the main portion of the facility.
- For the quarter, fabricated over 25,700 pounds of HVAC duct & installed over 8,950 pounds.

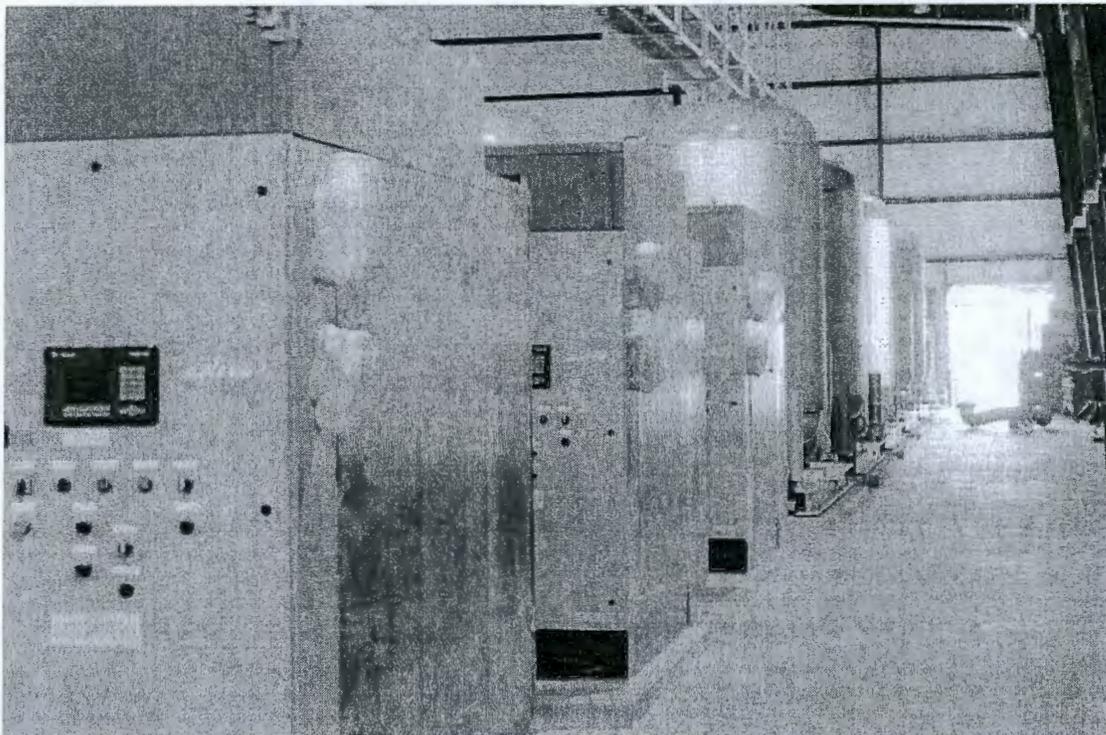
#### ***Plans for 1<sup>st</sup> quarter FY2008***

- Complete the installation of fire protection piping in the main portion of the facility.
- Complete all Mechanical Handling system engineering.
- Complete installation of the Roofing & Exterior Siding
- Issue over 3,000 lf of piping isometric design.
- Review and approve vendor P&ID design for the autosampling system
- Receive the Hot Cell trolley linear motor / cart
- Initiate preassembly of the facility stack (steel & HVAC)
- Complete siding and roofing to support release of interior areas for bulk commodity installations
- Complete C3/C5 pit pipe installation to support the start of liner plate installations.
- Continue elevation 0 general area floor coatings and initiate elev +17 coatings
- Initiate general area bulk HVAC installation (QL & CM).

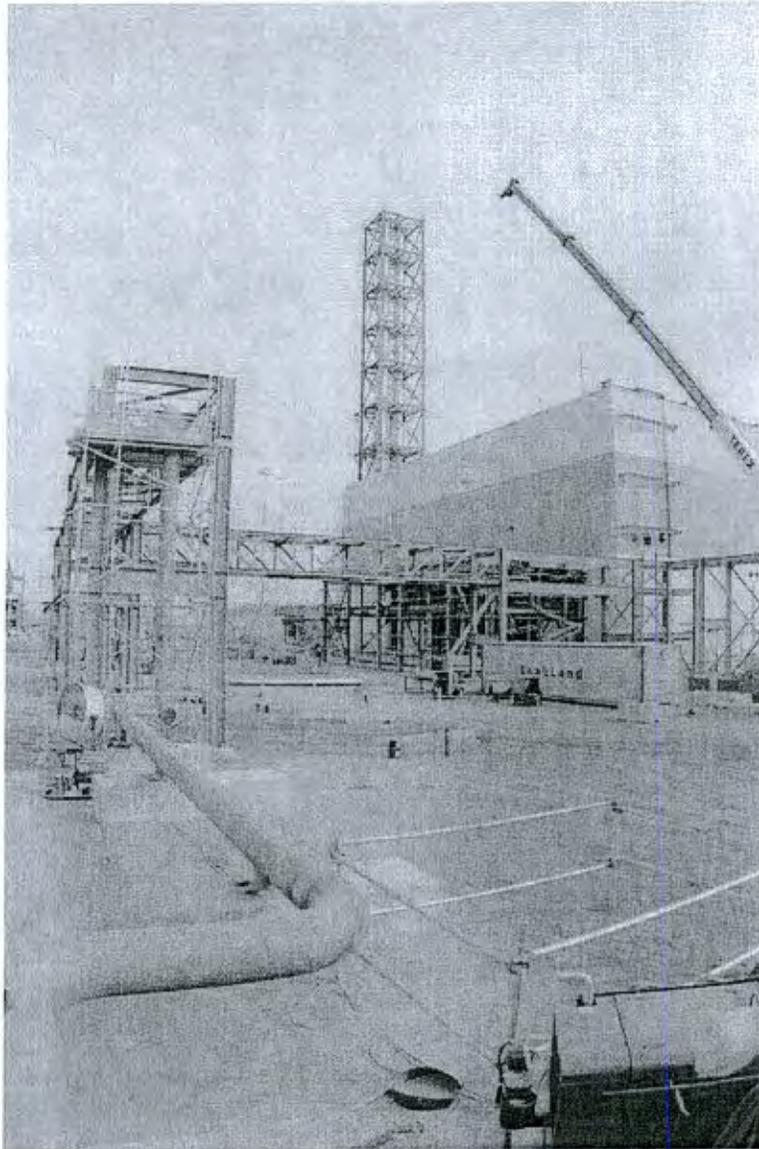
#### **4.3 Balance of Facilities (BOF) – 01-D-16C**

The BOF is made up of approximately 20 support facilities and the common area encompassing the remaining elements of the WTP, including the Glass Former Storage Facility, Chiller Compressor Plant, and Water Treatment Plant.

**Figure 4.3.1. Chiller Compressor Plant – Air Dryers Installed**



**Figure 4.3.2 Commodity Racks and Steam Pipe Installation**



The Balance of Facilities is a grouping of smaller critical facilities necessary for operation of the Waste Treatment Plant. Construction is proceeding in most of the facilities. Progress is steady but slow.

Construction forces are continuing the installation of cable tray in the Chiller Compressor Plant (CCP). Construction craft is working the blowers and grating for air compressor filter installation.

Craft is continuing the installation of piping and hangers between the fire water tanks and the pump buildings.

Steam piping and intra-yard piping support steel installation is progressing. The intra-yard structure extends from the west side of the LAW facility, to the north side of LAW and then back to the steam plant.

Grounding is being installed in the Water Treatment Building and the Fuel Oil tank.

Embeds are being installed in the Melter Assembly Pads (MAP) located south of the LAW facility. BOF Engineering's MAP design utilized in-stock embeds to reduce the material procurement time and cost, and to reduce the number of in-stock embeds. This is a small example but is representative of the efforts to effectively use available resources to support construction.

The Steam Plant Fire Detection system is being installed.

Steam piping and intra-yard piping support steel installation is progressing. The intra-yard structure extends from the west side of the LAW facility, to the north side of LAW and then back to the steam plant.

#### ***Accomplishments for 4<sup>th</sup> Quarter FY 2007***

- Receive (5) Chiller Compressor Plant compressor/dryer skids
- Initiate Fire Water System system completion activities
- Continue piping and electrical commodity installation in the Chiller Compressor Plant and the Water Treatment facility.
- Initiate fire protection upgrades in the T-52 warehouse
- For the quarter, erect over 85 tons of pipe rack steel.
- For the quarter, installed over 250 lf of rad transfer coax piping and 360 lf of pipe rack steam piping.

#### ***Plans for 1<sup>st</sup> quarter FY2008***

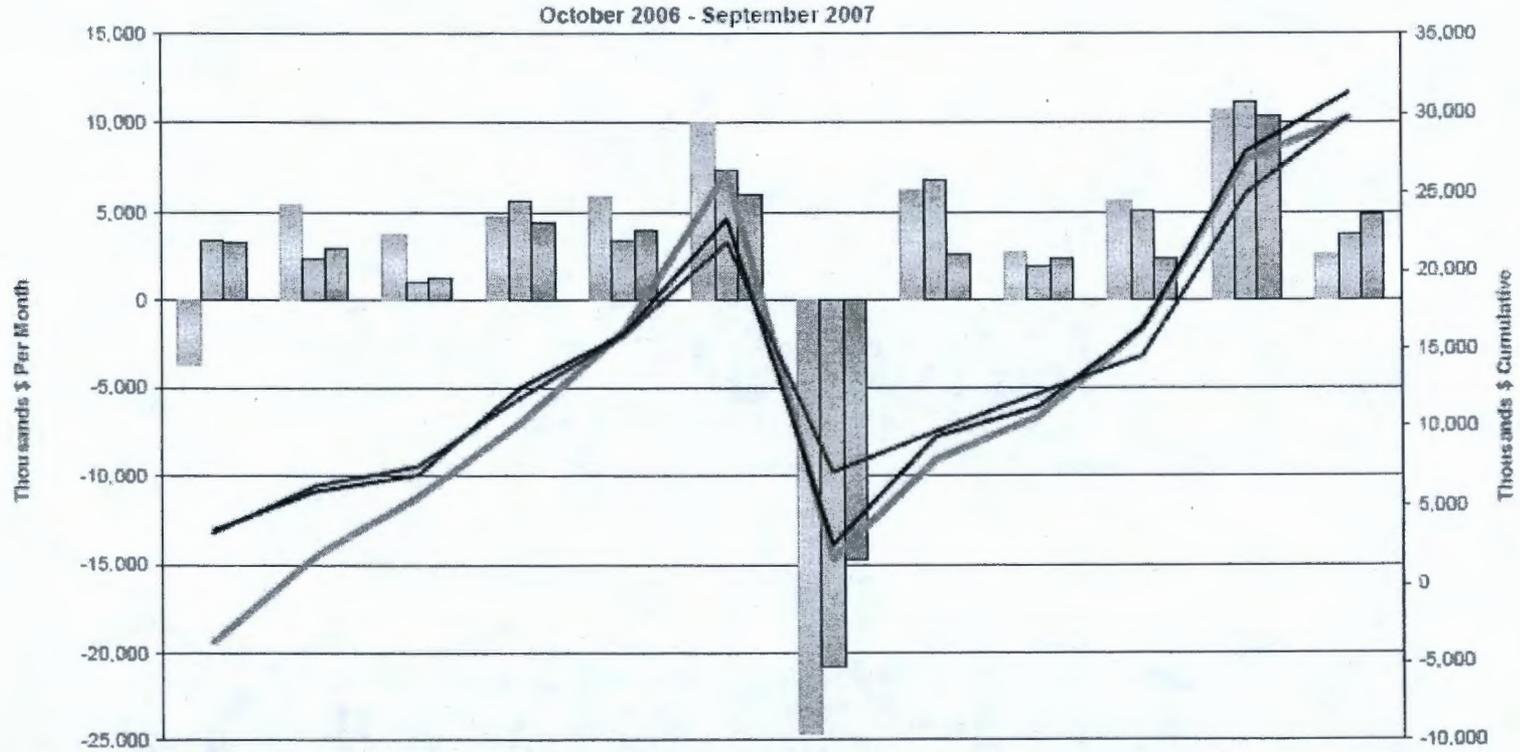
- Receive the Standby Diesel Generators.
- Receive the Glass Former Storage Facility control panels. Initiate receipt of first silos & hoppers.
- Receive the non ITS UPS electrical equipment for Bldg #82, 87 & 91.
- Complete concrete placement for the LAW melter assembly pad
- Complete pipe rack steel installation in Areas #5A & #8A
- Mobilize the subcontractor and start Phase II pipe rack pier drilling
- Complete the Steam Plant construction
- Complete the transfer pipe installation and backfill between HLW and Pretreatment.
- Complete fire protection upgrades in the T-52 Warehouse

Error! Reference source not found. provides the status for the 20 support facilities and two common areas that comprise the scope of Balance of Facilities. The "Common Scope" comprises mostly design work that is common to the facilities. "Site Work" consists of the general earthwork and utilities across the site and between facilities, and is not associated with a particular facility. Note that several Facilities are fully designed and constructed. The percent complete for the facilities decreased from the last Report due to an increase in the BOF facilities work scope to allow early commissioning and operations of the Analytical Laboratory and the LAW Vitrification facility.

Table 4.3.1 – Balance of Facilities Percent Complete

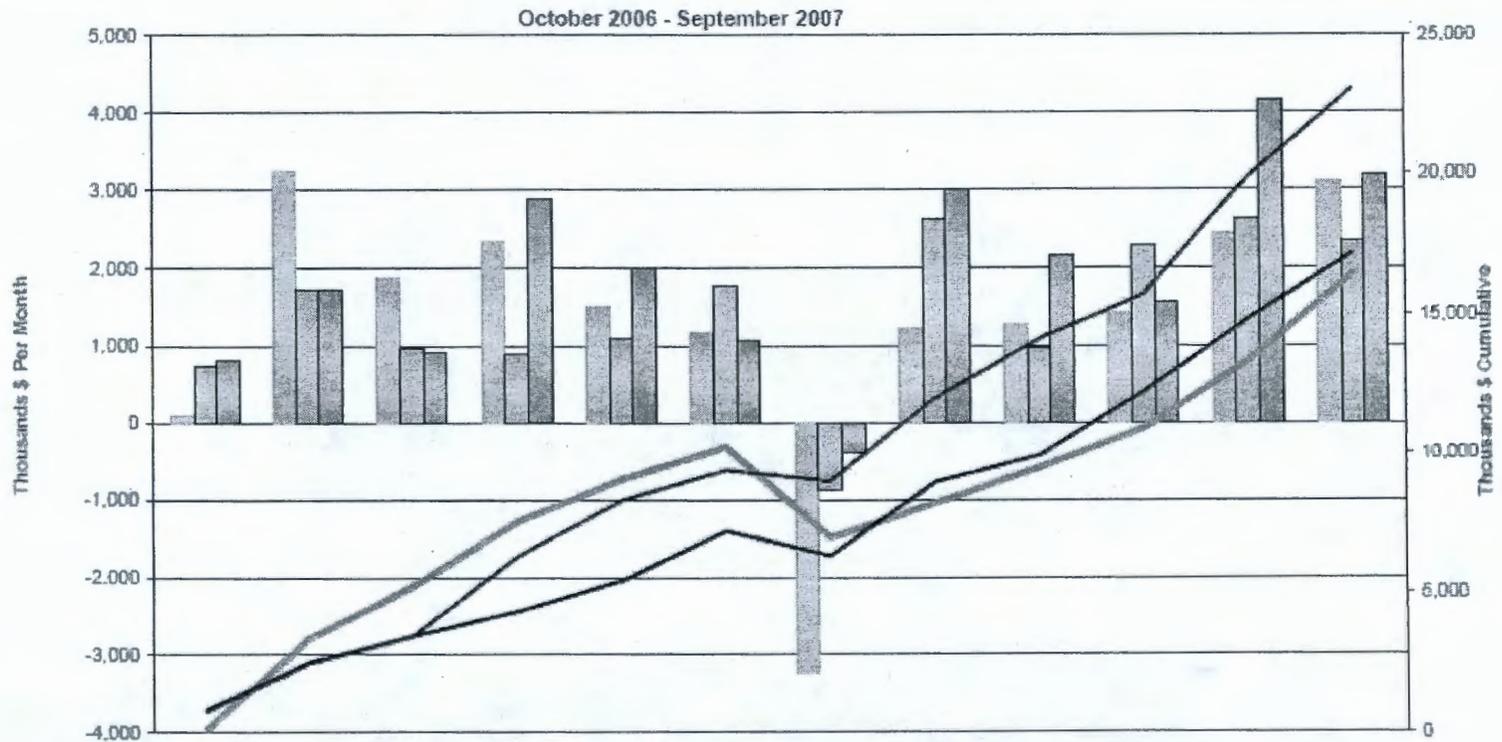
Facility	Engineering Percent Complete	Construction Percent Complete	Scheduled Completion Date
Balance of Facilities Common Scope	55.1%	25.7%	Dec 2011
Site Work	91.3%	49.1%	Jun 2016
Administration Building	10.5%	0.0%	Nov 2014
Cooling Tower Facility	99.1%	95.4%	Oct 2009
Fire Water Pump House Facility	97.8%	95.1%	Jul 2008
Fuel Oil Facility	99.6%	92.2%	Oct 2009
Diesel Generators Facility	52.4%	0.0%	Jan 2012
Glass Former Storage Facility	91.1%	10.5%	Mar 2011
Guard House Facility	100.0%	100.0%	Complete
Chiller Compressor Plant	98.2%	81.9%	May 2010
Steam Plant Facility	99.8%	98.1%	Jul 2009
Wet Chemical Storage Facility	62.7%	0.0%	Jan 2016
Water Treatment Building	99.2%	63.3%	Aug 2009
Non-Dangerous, Non-Radioactive Effluent Facility	96.2%	72.8%	Sep 2009
Switchgear Building	92.9%	72.5%	Dec 2009
ITS Switchgear Building	94.9%	83.4%	Nov 2011
Erected Tanks - Process/Potable	100.0%	98.6%	Complete
Failed Melter Storage	13.7%	2.4%	Feb 2012
BOF Switchgear Building	92.1%	66.3%	Dec 2009
Simulator Facility	99.7%	85.9%	Mar 2011
Anhydrous Ammonia	22.5%	0.0%	Jan 2011

## LAW FY2007 Performance



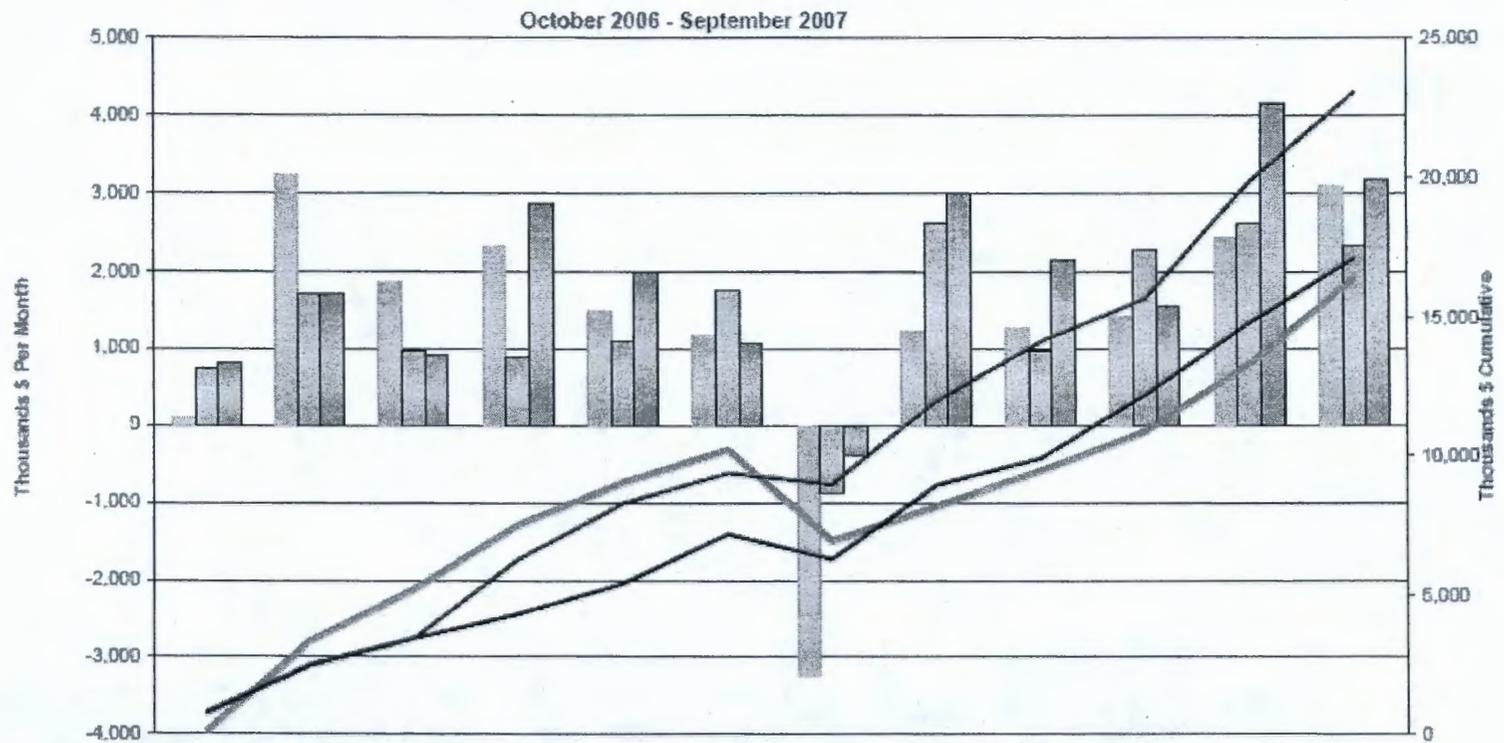
	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07
Mthly Plan (BCWS)	-3,865	5,404	3,792	4,788	5,873	10,059	-24,592	6,249	2,742	5,683	10,744	2,639
Mthly Perf (BCWP)	3,418	2,449	1,070	5,616	3,417	7,334	-20,787	6,827	1,910	5,097	11,218	3,711
Mthly Actuals (ACWP)	3,258	2,984	1,280	4,422	3,943	5,974	-14,741	2,583	2,446	2,415	10,355	4,907
FYTD Plan (BCWS)	-3,865	1,739	5,531	10,268	16,172	26,231	1,639	7,988	10,830	16,314	27,058	29,697
FYTD Perf (BCWP)	3,418	5,868	6,937	12,553	15,970	23,304	2,517	9,344	11,254	16,351	27,568	31,280
FYTD Actuals (ACWP)	3,258	6,221	7,501	11,923	15,866	21,840	7,098	9,681	12,127	14,542	24,897	29,804

# LAB FY2007 Performance



	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07
Mthly Plan (BCWS)	110	3,239	1,870	2,328	1,508	1,165	-3,247	1,227	1,269	1,427	2,434	3,116
Mthly Perf (BCWP)	750	1,717	976	886	1,111	1,771	-891	2,825	974	2,297	2,621	2,332
Mthly Actuals (ACWP)	805	1,705	932	2,865	2,010	1,068	-390	2,995	2,165	1,558	4,151	3,189
FYTD Plan (BCWS)	110	3,348	5,218	7,546	9,054	10,220	6,973	8,200	9,469	10,896	13,330	16,446
FYTD Perf (BCWP)	750	2,467	3,443	4,329	5,440	7,211	6,320	8,945	9,919	12,210	14,838	17,170
FYTD Actuals (ACWP)	805	2,511	3,442	6,307	8,317	9,385	8,995	11,990	14,155	15,713	19,863	23,052

## BOF FY2007 Performance



	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07
Mthly Plan (BCWS)	110	3,239	1,870	2,328	1,508	1,185	-3,247	1,227	1,289	1,427	2,434	3,118
Mthly Perf (BCWP)	750	1,717	978	888	1,111	1,771	-891	2,825	874	2,287	2,821	2,332
Mthly Actuals (ACWP)	805	1,705	932	2,865	2,010	1,069	-380	2,995	2,165	1,558	4,151	3,189
FYTD Plan (BCWS)	110	3,348	5,218	7,548	9,054	10,220	6,973	8,200	9,489	10,899	13,330	16,448
FYTD Perf (BCWP)	750	2,467	3,443	4,329	5,440	7,211	6,320	8,945	9,919	12,216	14,838	17,170
FYTD Actuals (ACWP)	805	2,511	3,442	6,307	8,317	9,385	8,985	11,990	14,155	15,713	19,863	23,052



