

Office of River Protection

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Tri-Party Agreement  
Manager Milestone Review Meeting  
April 22, 2008



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

March 2008

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## Agenda

Office of River Protection  
 Tri-Party Agreement  
 Manager Milestone Review Meeting  
 2440 Stevens Center, Conference Room 1200  
 April 22, 2008  
 9:00 a.m. – 11:30 a.m.

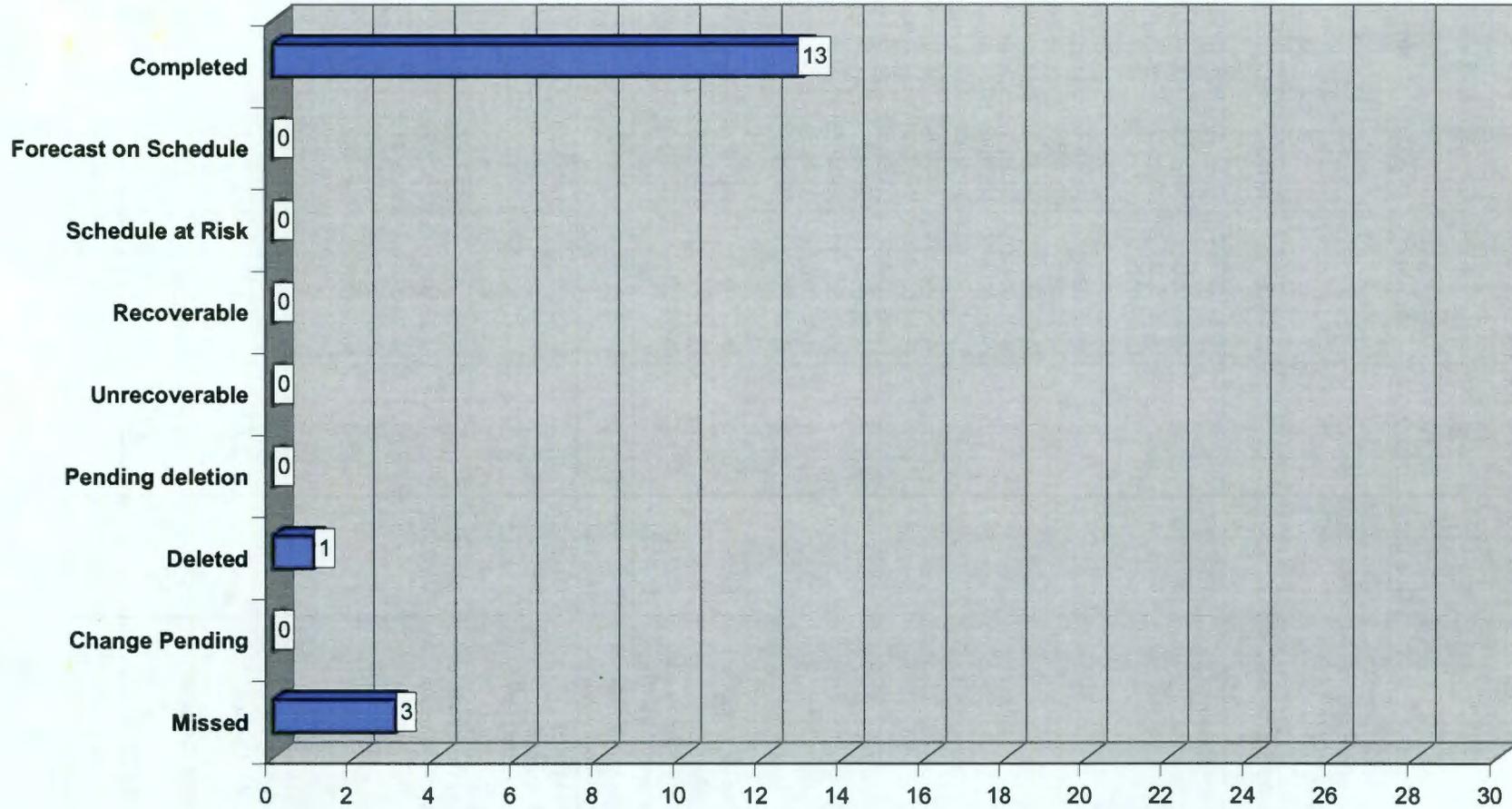
Page	Topic	Leads	Time
3	TPA Milestone Statistics	Woody Russell Suzanne Dahl / Jeff Lyon	9:00
50	M-45, -50, -60 Single-Shell Tank Corrective Action	Bob Lober / Joe Caggiano	9:10
52	M-45-00, Complete Closure of All Single-Shell Tank Farms	Roger Quintero / Jeff Lyon	9:30
62	Interim Stabilization Consent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

## TPA Milestone Statistics

(Including target milestones)

Milestone	Due Date	Total Active as of 02/21/08	Milestone Number	Due Date	Milestone Number	Due Date
<b>M-20-00</b> , Submit Part B Permit Application on Closure/Post Closure Plans for all RCRA TSD Units	12/31/08 (M-20-00)	0				
<b>M-42-00</b> , Provide Additional DST Capacity	TBD	1	M-42-00	TBD		
<b>M-45-00</b> , Complete Closure of all SST Farms	09/30/24 (M-45-00)	35	M-45-00 M-45-00B M-45-00C M-45-00D M-45-02 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-45-02P M-45-05-T10 M-45-05-T11 M-45-02Q M-45-05-T12	09/30/24 09/30/06 09/30/06 01/31/08 TBD 03/01/10 09/30/18 03/31/07 09/30/07 09/30/08 09/30/09 09/30/10 09/30/11 03/01/12 09/30/12 09/30/13 03/01/14 09/30/14	M-45-05-T13 M-45-02R M-45-05-T14 M-45-05-T15 M45-02S M-45-06 M-45-06-T03 M-45-06-T04 M-45-13 M-45-15 M-45-56 M-45-58 M-45-59 M-45-60 M-45-61 M-45-62	09/30/15 03/01/16 09/30/16 09/30/17 03/01/18 09/30/24 03/31/12 03/31/14 06/30/11 06/30/11 TBD 12/31/08 TBD 12/31/08 12/31/10 07/31/12
<b>M-47-00</b> , 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
<b>M-50-00</b> , Complete Pretreatment Processing of Hanford Tank Waste	12/31/28 (M-50-00)	1	M-50-00	12/31/28		
<b>M-51-00</b> , Complete Vitrification of Hanford High Level Tank Waste	12/31/28 (M-51-00)	1	M-51-00	12/31/28		
<b>M-61-00*</b> (alternate path), Complete Pretreatment & Immobilization of Hanford Low Activity Tank Waste	12/31/28 (M-61-00)	1	M-61-00	12/31/28		
<b>M-62-00</b> , Complete Pretreatment Processing and Vitrification of Tank Wastes	12/31/28 (M-62-00)	14	M-62-00 M-62-00A M-62-07B M-62-01Q M-62-01R M-62-01S M-62-01T	12/31/28 02/28/18 12/31/07 07/31/08 01/31/09 07/31/09 01/31/10	M-62-08 M-62-09 M-62-01U M-62-01V M-62-10 M-62-01W M-62-11	06/30/06 02/28/09 07/31/10 01/31/11 01/31/11 07/31/11 06/30/07
<b>M-90-00</b> , Interim Storage and Disposal of LAW and Interim Storage of HLW	TBD (M-90-00)	2	M-90-00 M-90-11	TBD 08/31/10		
<b>Interim Stabilization Consent Decree</b>	09/30/04 (D-001-00)	1	D-001-00			
<b>Total Active Milestones:</b>		<b>59</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								

## Fiscal Year 2006 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
M-048-07A-B	Completion of construction for the 241-AP-106A central pump pit upgrade (remove existing equipment, evaluate pit integrity, and replace pit coating, if necessary. This scheduled deliverable is a subset of M-48-07A, and thus labeled as M-48-07A-B	3/31/06	3/30/06								
M-048-14	Submit Written Integrity Report For The Double-Shell Tank System	3/31/06	3/31/06								
M-047-05A	Complete startup and turnover activities for waste retrieval and mobilization systems for selected initial low-activity waste feed tank (other than AZ-101 or AZ-102).	4/30/06	02/2/05								
M-45-55-T04	Submit to Ecology for review and comment a draft Field Investigation Report combining the results of field investigations and analysis for WMAs A-AX, C and U. As part of the Phase 2 Vadose Zone project renegotiations, being developed, this target milestone scope has been included in M-45-55 Phase 1 rollup documentation due in 1/08.	4/30/06								X	
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								

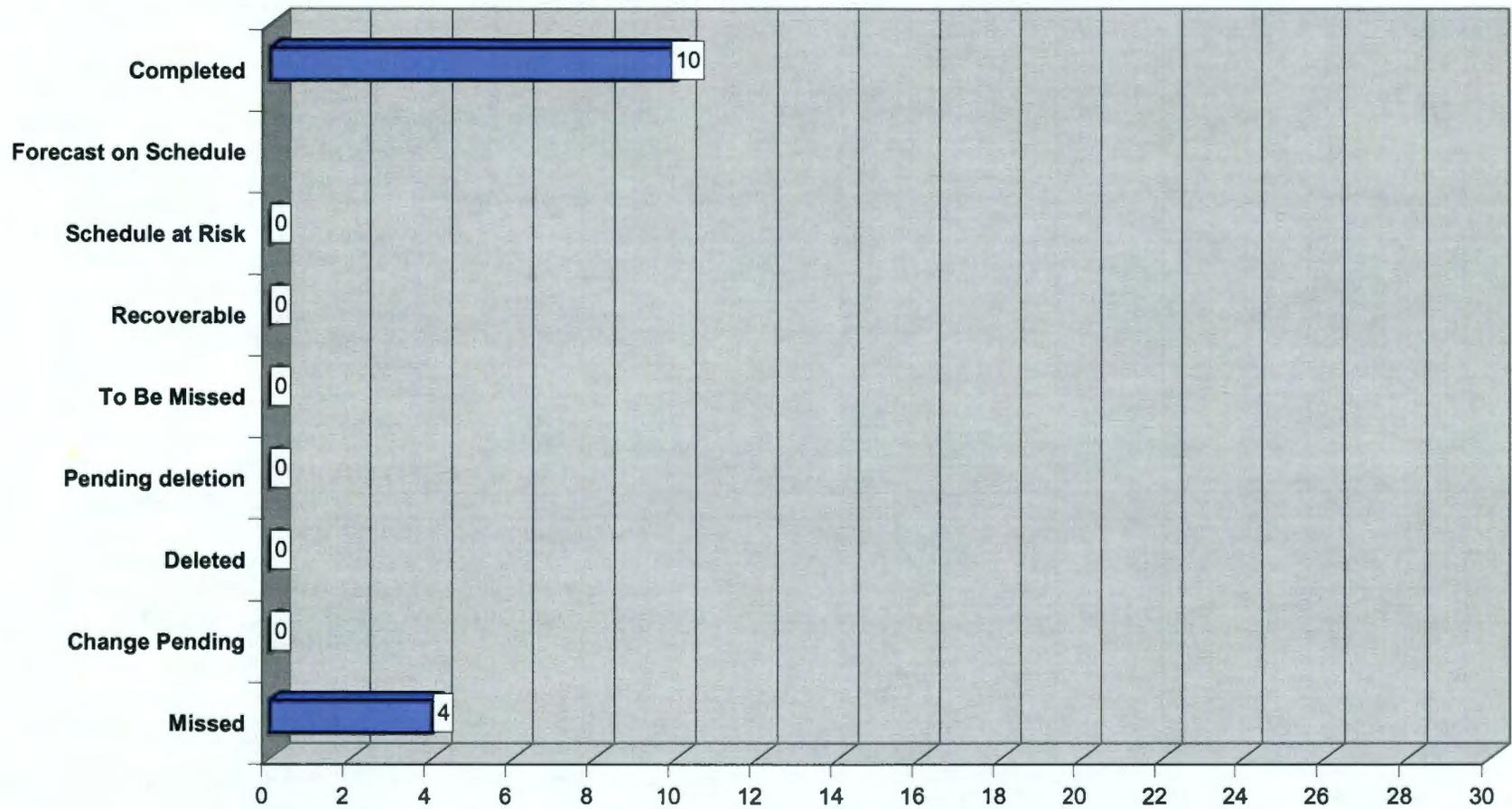
## Fiscal Year 2006 Tri-Party Agreement Milestone Status

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			

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

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
M-045-00C	Initiate negotiation of SST waste retrieval and closure activities and associated schedules (for the period February 07 through August 08).	09/30/06						X			

### FY 2007 MILESTONE PERFORMANCE



### Fiscal Year 2007 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R30	DOE Shall, On A Quarterly Basis, Submit To Ecology A Written Report Documenting Tank Stabilization Activities That Occurred During The Period Covered By The Report. This Written Report Shall Provide The Status Of Progress Made During The Reporting Period.	10/31/06	10/31/06								
M-062-03	Submit DOE Petition for RCRA Delisting of Vitrified HLW	12/31/06	12/31/06								
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								

### Fiscal Year 2007 Tri-Party Agreement Milestone Status

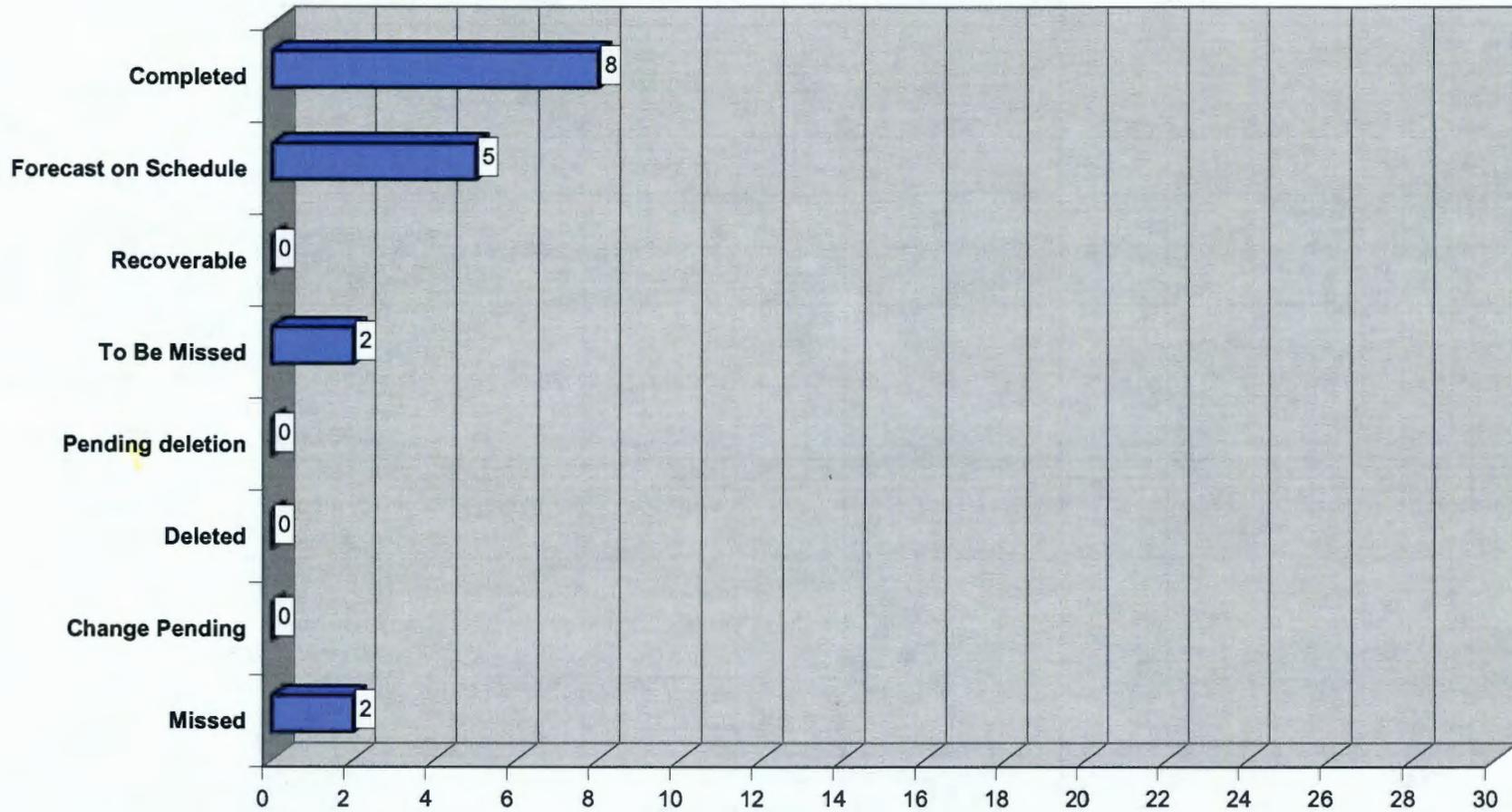
Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R31	DOE Shall, On A Quarterly Basis, Submit To Ecology A Written Report Documenting Tank Stabilization Activities That Occurred During The Period Covered By The Report. This Written Report Shall Provide The Status Of Progress Made During The Reporting Period.	01/31/07	01/31/07								
M-045-05A	Complete Waste Retrieval from S-102	3/31/07						X			
D-001-00-R32	DOE Shall, On A Quarterly Basis, Submit To Ecology A Written Report Documenting Tank Stabilization Activities That Occurred During The Period Covered By The Report. This Written Report Shall Provide The Status Of Progress Made During The Reporting Period.	04/30/07	04/27/07								
M-062-11	Submit a Final Hanford Tank Waste Treatment Baseline. Following completion of negotiations required by M-62-08, DOE will modify its draft baseline as required and submit its revised, agreed-to baseline for treating all Hanford Tank Waste (HLW, LAW, and TRU) by 12/31/2028.	06/30/07						X			
M-045-56C	Ecology and DOE agree, at a minimum, to meet yearly (by July or as needed to support annual budgeting) for the specific purpose of assessing the adequacy of	07/31/07	07/31/07								

## Fiscal Year 2007 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
	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	07/31/07								
M-048-15	Submit a report to Ecology for the re-examination of six (6) DSTs by ultrasonic testing in all areas previously examined to provide comparative data from which to calculate corrosion rates in each of the six DSTs examined.	09/30/07	09/27/07								
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	10/31/07								
M-045-13-A	Submit to Ecology a Retrieval Data Report for S-112 pursuant to Agreement Appendix I	12/31/07	12/21/07								
M-045-13-B	Remaining waste have been adequately characterized, and a risk assessment completed for S-112 residuals that remain in the tank	12/31/07	12/21/07								
M-062-07B	Complete Assembly of LAW Vitrification Facility melter #1 and complete move of #1 melter into the HLW Vitrification Facility	12/31/07						X			
M-062-01P	Submit Semi-Annual Project Compliance Report	01/31/08	01/31/08								
M-045-55	Submit to Ecology a Phase 1 RFI report integrating results of data gathering activities and evaluations for all SST WMAs	01/31/08	01/30/08								
D-001-00-R35	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This	01/31/08	01/31/08								

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

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
	written report shall provide the status of progress made during the reporting period.										
M-045-00D	Initiate negotiations of SST waste retrieval and closure for 2008-2013	01/31/08						X			
M-045-02N	Submit Biennial Update	03/01/08	02/29/08								
M-045-02N-A	Three Parties shall meet to establish new milestones within 60 days, if required, for acquisition of additional tanks	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 within 150 days	06/29/08					X				
M-045-56D	Ecology and DOE agree, at a minimum, to meet yearly (by July or as needed to support annual budgeting) for the specific purpose of assessing the adequacy of information, and the need for the establishment of additional agreement interim measures.	07/01/08		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	07/31/08		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						
	period covered by the report. This written report shall provide the status of progress made during the reporting period.										
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								
M-45-05-T06	Initiate tank retrieval from five additional SSTs	09/30/08					X				

## EXECUTIVE SUMMARY

### ON

#### TANK FARMS EARNED VALUE REPORTING

This Executive Summary reports the cost and schedule performance for the Tank Farms Contractor (TFC), CH2M HILL Hanford Group Inc. for the month of February 2008.

The company's current month (CM) schedule variance (SV) was a positive \$0.6M which increased the contract-to-date favorable SV from \$48.1M to \$48.7M (SPI 1.07). The CM cost variance was a negative \$3.1M which decreased the favorable CTD CV from \$46.1M to \$43.0M (CPI 1.07).

The CM favorable SV of \$0.6M is due to 1) Accelerated work performed for Tank C-104 and C-110 Retrieval (design, procurement and construction), C Farm Infrastructure (construction and procurement to support Tank C-104/AN-101 Retrieval), AY/AZ Upgrades (AZ-102 pump installation) and Project W-314 (AW Farm Upgrades for HVAC exhausters construction and Startup Testing and Turnover Phase 2); 2) Work performed ahead of schedule for the 242-A Evaporator Upgrades (MCS and HVAC) and Tank C-109 Retrieval (hard heel removal); and 3) Progress taken on installation of the 222-S Laboratory Inductively coupled plasma mass spectrometer (ICP-MS) which has been recovering schedule.

The Favorable CM SV is partially offset unfavorable variances related to 1) Behind schedule on the HIHTL Disposition Project work; 2) Behind schedule on the Liquid Mitigation of Catch Tanks/Double-Contained Receiver Tanks (DCRTs); 3) DBVS Project Engineering During Construction effort to complete final design and support design review (budget in February for final design work that was completed earlier and February status assumed minimal support from subcontractor in initial phase of design review; 4) S-102 Retrieval (operations and maintenance shut-down pending spill recovery actions); 5) 242-A Evaporator Operation and Maintenance (budget in February for campaign [08-01] that was completed early; and 6) miscellaneous WFO unfavorable variances including Tank Chemistry Control (AY Farm Annulus Water Intrusion Mitigation, AY-102 Chemistry corrosion probe and DST Caustic Additions), behind schedule on the WFO Waste Compatibility Program (delay in buoyant displacement gas release event [BDGRE] scope for Tank C-110 Retrieval).

The CTD positive SV is due to 1) C-100 Tank accelerated work on C-104 and C-110 retrievals, C Farm Infrastructure and work completed ahead of schedule for C-108 and C-109 retrievals; 2) Low-Activity Waste (LAW) Treatment accelerated work for DBVS Technology Development and Design to address External Review Panel (ERP) issues including the Integrated Dryer and Melt Test (IDMT); 3)

Tank S-102 Retrieval accelerated work; 4) W-314 Project accelerated work for completion and turnover of AN, AP, AW, SY Farms electrical and ventilation exhausters upgrades, and the Master Pump Shutdown(MPS)/Monitor Control System (MCS); 5) WFO Base Operations accelerated work for cross-site transfers and the SY Farm prefabricated pump pit (PPP) line replacement, as well as work completed ahead of schedule for DST to DST transfers and 242-A Evaporator campaign, all in support of SST retrievals; 6) Accelerated work for AY/AZ Farm Upgrades (AZ-102 pump replacement and installation); 7) Accelerated work on Environmental Health Program Tank Farm Characterization for vapor mitigation; and 8) Ahead of schedule work on the 242-A Evaporator Upgrades (MCS and supply side HVAC).

These favorable CTD SVs are partially offset by unfavorable variances for 1) The Retrieval/Closure Program due to delays in the HIHTL Disposition Project, delays in the 244-CR Vault work and Liquid Mitigation of Catch Tanks/Double-Contained Receiver Tanks (S-302) (due to required alternate pump replacements); and 2) WFO Projects due to DST Infrastructure Upgrades (delays in the Repair of Line SLL-3160, specifically initiating work on SL-3160 encasement leak check and delays in DST Valve Assembly Upgrades for DST valve replacement; behind schedule on the AP Farm Upgrades (AP-101 jumper installation and AP-103 in-process leak check/level rise [potential deferral]); Tank Chemistry Control (behind schedule on AY-102 Chemistry corrosion probe, AY Farm Annulus Water Intrusion Mitigation and AN-107 Chemistry); and Waste Compatibility Program (delay in BDGRE work not needed due to delay in Tank C-110 Retrieval).

The CM CV of -\$3.1M is due to 1) C Farm Retrievals for Tank C-104 procurement and design and construction (delays and costs associated with the impacts of S-102 Corrective Action implementation [Compensatory Measures and Engineering requirements]), and Tank C-109 Retrieval Hard Heel Removal (cost impacts associated with riser gauging issue and related FOLDTRACK® changes and Corrective Action Implementation); 2) Unplanned costs for the Tank S-102 leak event cleanup and investigation; 3) Unplanned costs for Tank S-102 Retrieval (Engineering analysis and alternative evaluation for retrieval path forward; 4) T Farm Interim Surface Barrier construction cost overruns; 5) SST and WFO TSR/Basic Maintenance costs (SST due to additional labor to complete preventative maintenance (PM) and CM; WFO due to February costs for retroactive pay increases resulting from the new Bargaining Unit [BU] contract); 6) 242-A Evaporator Operations and Maintenance (additional PMs and CMs required to support the MCS upgrade OAT, retroactive pay increase for BU labor, support for the unplanned PB-1 pump refurbishment and higher than expected crane and rigging

costs); 7) DST Integrity Project (cost for additional DST System Structural Analysis scope [BCR RPP-08-002 pending to add scope] and additional costs for integrity assessment [revision to DST Integrity Assessment Report and additional IQRPE support required for Evaporator assessment and UT]); 8) Manage Facilities and Properties Services cost for 2440 rent (first quarter rent charged in February but planned in December; CTD the account is under-run); 9) DBVS Engineering During Construction final design and review; and 10) WFO Infrastructure costs (late billing for fueling and maintenance);

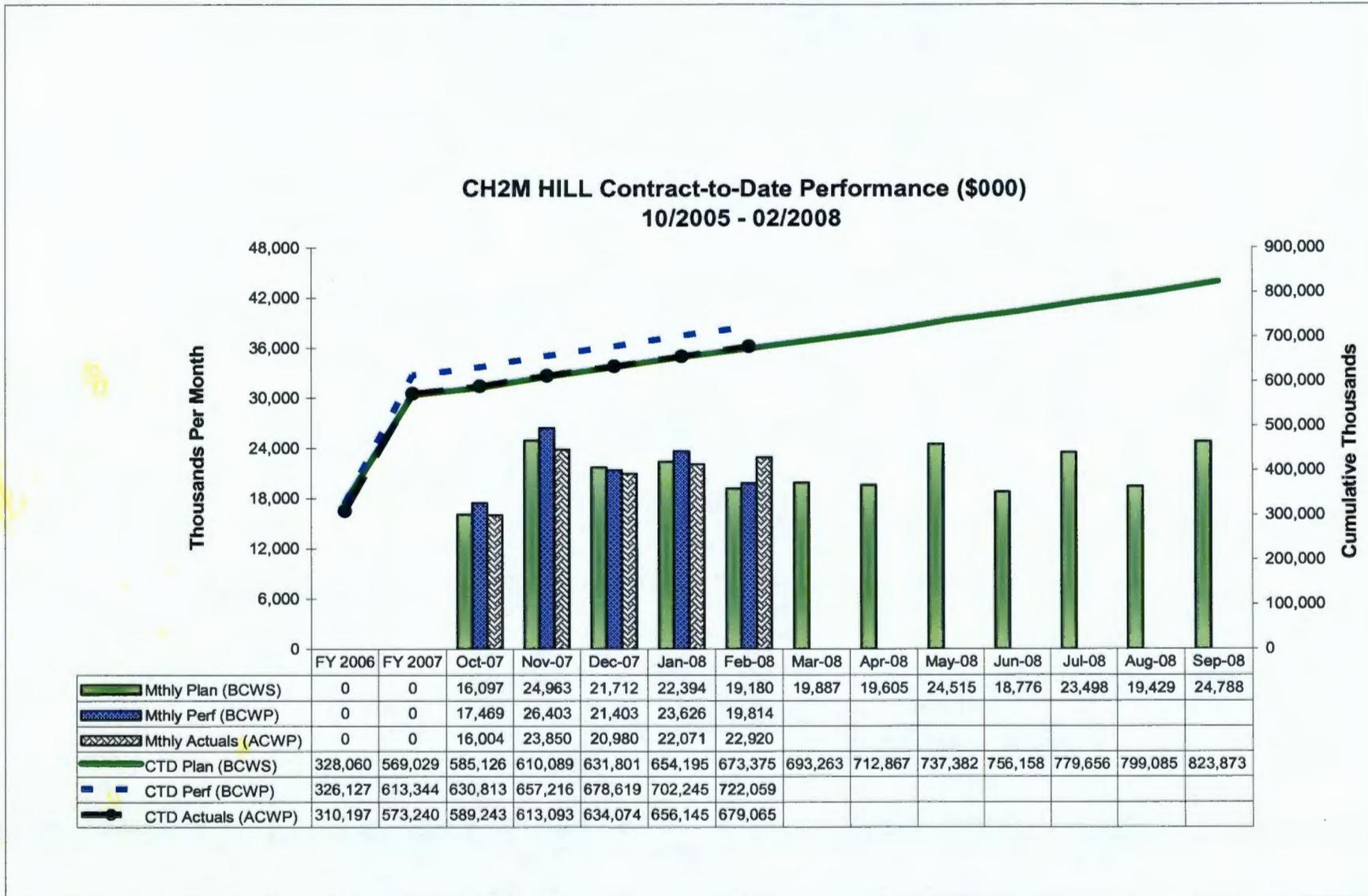
The unfavorable CVs are partially offset by favorable variances in 1) TFC Program area including Finance (accrual reversal for FY08 BU rate adjustment that was distributed to the projects in February), cost savings and efficiencies in Site and Shared Services; 2) C Farm Retrieval of Tank C-110 (CM adjustment for Fluor over-accrual of installation costs in January); 3) Closure Operations SST Essential Services labor less than planned (offset by labor assigned to SST PM)/CM backlog reduction); 4) Cost efficiencies on the W-314 AW Farm Upgrades (AW HVAC exhausters); and 5) DST to DST Transfers (labor efficiencies from use of shift personnel instead of overtime).

The CTD CV of \$43.0M is due to variances for 1) Efficiencies in preparation and retrieval work for C-100 Tanks and infrastructure (Tanks C-109, C-108 and C-110); 2) Efficiencies in S Farm Retrievals (Tank S-102 and S-112); 3) Cost savings and efficiencies in Tank Farm project and program management, support and Essential Services (Information Resource Management [IRM], Executive Management, Legal Counsel, Manage Facilities and Property Services, Work Force Realignment and Restructure, Liquidations, Shared Services, Miscellaneous Services and Site-Wide Services); 4) WFO savings and efficiencies in Surveillance and Monitoring, Isolation of Transfer System Components, Project Controls, DST to DST Transfers, Essential Services, AY/AZ Upgrades (use of spare pump for AZ-102 replacement instead of new procurement), Cross-Site Transfers, Tank Waste Database Management and miscellaneous other accounts; 5) Closure Operations Base Operations efficiencies in the Essential Services Infrastructure, Facility Upgrades Project Management and Liquid Level and Video Assessment; and 6) 222-S Laboratory Services under-runs in Base Services due to less than planned dedicated and matrixed staff, planned labor rates greater than actual costs, and revised waste volume projections for 222-S base services less than originally planned; and under-runs in Tank Sampling due to greater than planned resources directed to support Fluor Hanford Inc. (FH) core sampling of U-361 and less than planned sampling/analysis (core and grab) for Chemistry Control due to ongoing support to Retrieval and Base Operations.

These favorable CTD CVs are partially offset by unfavorable variances for 1) SST and WFO TSR/Basic Maintenance (to reduce and maintain the PM and CM backlog); 2) Unplanned costs for the

S-102 spill event cleanup, investigation and corrective action plan; 3) Vadose Zone due to T Farm Interim Barrier costs higher than baseline estimates (design, procurement, construction scope and weather issues); 4) LAW Treatment due to DBVS design labor and subcontract costs incurred in FY 2006, retroactive subcontractor rate adjustments resulting from a Defense Contract Audit Agency (DCAA) audit, cost overruns on DBVS Engineering During Construction (see above) and cost overruns on DBVS Procurement (for unplanned storage and maintenance of equipment awaiting restart of construction; 5) C-100 and C-200 Tanks due to prior year overruns on C-103 and C-201 to C-204 retrievals due to technical difficulties; 6) Office of the Vice President (VP) Project Delivery due to additional resources necessary to manage unplanned work for the DBVS ERP issues resolution, Molten Ionic Salt issue resolution, the IDMT and a cost correction for exhauster fabrication (work completed); 7) DST Integrity Project (Tank AY-101 Ultrasonic Testing [UT], DST System Structural Analysis and AP Valve Pit/Evaporator Integrity Assessment costs); 8) Project W-314 Upgrades and turnover (trouble-shooting, as-building and emergent work); and 9) Evaporator Upgrades (HVAC System costs due to complexity, corrective maintenance and emergent work).

### CURRENT MONTH/CONTRACT-TO-DATE PERFORMANCE - GRAPH



## CURRENT MONTH PERFORMANCE - CHART

CH2M HILL Hanford Group, Inc.

**CURRENT MONTH PERFORMANCE MEASUREMENT - 02/2008**

**BY WORK BREAKDOWN STRUCTURE**

Dollars in Thousands

WBS	TITLE	Budgeted Cost		Actual Cost Work Performed	Current Month			
		Work Scheduled	Work Performed		Schedule	Variance		
				SV %		Cost	CV %	
<b>5.07</b>	<b>BASE OPERATIONS - Excluding 5.07.02</b>	10,454.9	10,505.9	9,620.9	51.0	0.5%	884.9	8.4%
5.07.02	Env/TPA Milestone Achievement	<u>1,298.2</u>	<u>894.1</u>	<u>1,351.3</u>	<u>(404.1)</u>	-31.1%	<u>(457.2)</u>	-51.1%
	<b>TOTAL BASE OPERATIONS</b>	<u>11,753.1</u>	<u>11,399.9</u>	<u>10,972.2</u>	<u>(353.1)</u>	-3.0%	<u>427.7</u>	3.8%
<b>5.08</b>	<b>RETRIEVE AND CLOSE - Excluding foll. WBS Elements</b>	0.0	0.0	2.5	0.0	0.0%	(2.5)	-2.5%
5.08.02	WTP Feed Delivery Program	556.3	556.3	471.0	0.0	0.0%	85.4	15.3%
5.08.03	DST Retrieval Program	0.0	0.0	(15.5)	0.0	0.0%	15.5	15.5%
5.08.04.01	Tank Farm Restoration and Safe Operations (W-314)	0.0	432.4	461.0	432.4	432.4%	(28.6)	-6.6%
5.08.04.02	Upgrade Transfer System (E-525)	0.0	0.0	77.1	0.0	0.0%	(77.1)	-77.1%
5.08.05	Retrieval / Closure Program	3,643.6	3,354.5	4,166.1	(289.0)	-7.9%	(811.5)	-24.2%
5.08.06/.07	SST Retrieval East / West Area	455.0	1,466.2	3,842.4	1,011.2	222.2%	(2,376.2)	-162.1%
5.08.12/.13	SST Closure	<u>24.4</u>	<u>24.4</u>	<u>28.8</u>	<u>0.0</u>	0.0%	<u>(4.4)</u>	-18.0%
	<b>TOTAL RETRIEVE AND CLOSE</b>	<u>4,679.3</u>	<u>5,833.9</u>	<u>9,033.2</u>	<u>1,154.5</u>	24.7%	<u>(3,199.4)</u>	-54.8%
<b>5.09</b>	<b>TREAT AND DISPOSE WASTE - Excl. foll. WBS Elements</b>	388.2	368.0	285.7	(20.2)	-5.2%	82.3	22.4%
5.09.02.02	TRU / LLW Packaging	0.0	0.0	0.0	0.0	0.0%	0.0	0.0%
5.09.02.03/.08	LAW Treatment	54.5	54.6	47.1	0.0	0.1%	7.4	13.6%
5.09.02.05/.11	Bulk Vitrification System (BVS) Project	254.6	63.7	293.7	(190.9)	-75.0%	(230.0)	-360.9%
5.09.03.01	Integrated Disposal Facility	0.0	0.0	0.0	0.0	0.0%	0.0	0.0%
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>	0.0%
	<b>TOTAL TREAT AND DISPOSE WASTE</b>	<u>697.3</u>	<u>486.3</u>	<u>626.5</u>	<u>(211.0)</u>	-30.3%	<u>(140.2)</u>	-28.8%
<b>5.10</b>	<b>ANALYTICAL/TECHNICAL SERVICES</b>	<u>2,050.7</u>	<u>2,093.5</u>	<u>2,288.3</u>	<u>42.8</u>	2.1%	<u>(194.9)</u>	-9.3%
<b>TFC TOTAL</b>		<u>19,180.4</u>	<u>19,813.6</u>	<u>22,920.3</u>	<u>633.2</u>	3.3%	<u>(3,106.7)</u>	-15.7%

## CONTRACT-TO-DATE PERFORMANCE - CHART

CH2M HILL Hanford Group, Inc.

CONTRACT-TO-DATE PERFORMANCE MEASUREMENT - 10/2005 - 02/2008

BY WORK BREAKDOWN STRUCTURE

Dollars in Thousands

WBS	TITLE	Cumulative Contract-To-Date			Variance				Budget at Completion (BAC)*	Accelerated Scope**	Estimate at Completion (EAC)***
		Budgeted Cost		Actual Cost Work Performed	Schedule	SV %	Cost	CV %			
		Work Scheduled	Work Performed								
5.07	<b>BASE OPERATIONS - Excluding 5.07.02</b>	329,746.4	331,235.6	303,849.8	1,489.2	0.5%	27,385.9	8.3%	415,115.4	3,399.2	386,477.6
5.07.02	Env/TPA Milestone Achievement	<u>41,621.9</u>	<u>44,441.5</u>	<u>43,752.9</u>	<u>2,819.7</u>	6.8%	<u>688.7</u>	1.5%	<u>48,986.5</u>	<u>6,166.4</u>	<u>54,377.6</u>
	<b>TOTAL BASE OPERATIONS</b>	<u>371,368.3</u>	<u>375,677.2</u>	<u>347,602.6</u>	<u>4,308.8</u>	1.2%	<u>28,074.5</u>	7.5%	<u>464,101.8</u>	<u>9,565.6</u>	<u>440,855.2</u>
5.08	<b>RETRIEVE AND CLOSE - Excluding foll. WBS Elements</b>	0.0	283.3	214.1	283.3	283.3%	69.2	24.4%	0.0	298.2	220.6
5.08.02	WTP Feed Delivery Program	17,510.6	17,510.6	15,624.5	0.0	0.0%	1,886.1	10.8%	22,019.8	0.0	19,665.8
5.08.03	DST Retrieval Program	1,676.3	1,984.2	2,215.5	307.9	18.4%	(231.3)	-11.7%	1,676.3	1,338.9	2,499.1
5.08.04.01	Tank Farm Restoration and Safe Operations (W-314)	2,865.8	7,712.4	8,626.6	4,846.6	169.1%	(914.2)	-11.9%	2,865.8	7,892.0	10,048.9
5.08.04.02	Upgrade Transfer System (E-525)	2,712.4	2,712.4	3,059.9	0.0	0.0%	(347.6)	-12.8%	2,712.4	0.0	3,181.0
5.08.05	Retrieval / Closure Program	121,194.2	117,651.4	112,878.3	(3,542.8)	-2.9%	4,773.1	4.1%	148,974.5	0.0	141,778.9
5.08.06/07	SST Retrieval East / West Area	47,761.9	76,484.8	73,115.6	28,722.9	60.1%	3,369.2	4.4%	52,240.1	60,276.9	90,663.5
5.08.12/13	SST Closure	<u>903.8</u>	<u>903.8</u>	<u>892.8</u>	<u>0.0</u>	0.0%	<u>11.0</u>	1.2%	<u>1,101.8</u>	<u>0.0</u>	<u>1,157.1</u>
	<b>TOTAL RETRIEVE AND CLOSE</b>	<u>194,624.9</u>	<u>225,242.9</u>	<u>216,627.3</u>	<u>30,618.0</u>	15.7%	<u>8,615.6</u>	3.8%	<u>231,590.7</u>	<u>69,806.0</u>	<u>269,214.9</u>
5.09	<b>TREAT AND DISPOSE WASTE - Excl. foll. WBS Elements</b>	10,757.6	10,718.5	8,770.2	(39.0)	-0.4%	1,948.4	18.2%	13,904.0	0.0	11,331.2
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	65.6
5.09.02.03/08	LAW Treatment	1,708.2	1,708.2	1,670.7	0.0	0.0%	37.5	2.2%	2,150.2	0.0	2,192.0
5.09.02.05/11	Bulk Vitrification System (BVS) Project	27,882.9	41,733.1	45,007.3	13,850.2	49.7%	(3,274.2)	-7.8%	28,231.4	13,841.8	45,819.2
5.09.03.01	Integrated Disposal Facility	7,132.9	7,132.9	5,351.5	0.0	0.0%	1,781.4	25.0%	7,132.9	0.0	5,351.5
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>	<u>35.1</u>
	<b>TOTAL TREAT AND DISPOSE WASTE</b>	<u>47,591.0</u>	<u>61,402.2</u>	<u>60,900.3</u>	<u>13,811.2</u>	29.0%	<u>501.9</u>	0.8%	<u>51,527.8</u>	<u>13,841.8</u>	<u>64,794.6</u>
5.10	<b>ANALYTICAL/TECHNICAL SERVICES</b>	<u>59,790.8</u>	<u>59,736.3</u>	<u>53,934.8</u>	<u>(54.5)</u>	-0.1%	<u>5,801.5</u>	9.7%	<u>76,652.5</u>	<u>0.0</u>	<u>69,521.8</u>
<b>TFC TOTAL</b>		<u>673,375.1</u>	<u>722,058.6</u>	<u>679,065.1</u>	<u>48,683.5</u>	<u>7.2%</u>	<u>42,993.5</u>	<u>6.0%</u>	<u>823,872.8</u>	<u>93,213.4</u>	<u>844,386.5</u>
					<b>BAC</b>					<u>823,872.8</u>	
					<b>Adjusted Total with Accelerated Scope</b>					<u>917,086.2</u>	

\* BAC on this chart and in succeeding Cumulative Performance tables is for the period FY 2006 - FY 2008.

\*\* 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.

\*\*\* EAC on this chart is for the contract period (through FY 2008).

## EARNED VALUE PERFORMANCE

### 5.07 - BASE OPERATIONS (EXCLUDES 5.07.02)

**Scope Description:** The baseline scope for this Work Breakdown Structure (WBS) includes monitoring and maintaining the DSTs and equipment in compliance with 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
<b>CM</b>	10,454.9	10,505.9	9,620.9	51.0 0.5%	884.9 8.4%	
<b>CTD</b>	329,746.4	331,235.6	303,849.8	1,489.2 0.5%	27,385.9 8.3%	415,115.9

Note (All tables): Dollars in thousands

### SCHEDULE VARIANCE

**Description and Cause:** The CM SV is within the reporting threshold of +/-10 percent or \$1.0M.

The CTD SV is due to 1) Accelerated work completed on characterization for vapors solutions (T and U Farms) and AY/AZ Upgrades (AZ-102 supernate pump replacement required to support AZ-102 blending transfers); and 2) Work completed early (ahead of schedule) on Evaporator Upgrades (MCS and supply side HVAC upgrades).

These favorable variances are partially offset by unfavorable variances for 1) DST Infrastructure Upgrades due to delays in the Repair of Line SLL-3160, specifically initiating work on SL-3160 encasement leak check (low priority; potential deferral) and delays in DST Valve Assembly Upgrades (due to a change in scope from the AWA for DST valve replacement); 2) AP Farm Upgrades (AP-101 jumper installation [behind schedule] and AP-103 in-process leak check/level rise [potential deferral]); 3) WFO Waste Compatibility Program (deferral of BDGRE work not needed due to delay in Tank C-110 Retrieval); and 4) Tank Chemistry Control (behind schedule on AY-102 Chemistry corrosion probe, AY Farm Annulus Water Intrusion Mitigation and AN-107 Chemistry)

**Impact:** Re-prioritization of work has been addressed and re-planning of some work is underway via change action.

**Corrective Action:** The SV will continue for accelerated work and, in the short term, for work performed early. The Repair of Line SLL-3160 will be deferred to FY09 as it is low priority work. Pending BCR RPP-08-001 has been prepared to address the change in scope for the DST valve replacement. The AP Farm Upgrade AP-101 jumper installation will be completed in the Spring of 2008 as it is required prior to the AP-101 to AW-102 transfers which are pre-requisites for the second FY08 Evaporator campaign. The AP-103 in-process leak check is being evaluated for potential deferral. BCR RPP-08-020 was implemented in February to address the change in direction for AY Farm Annulus Water Intrusion Mitigation. BCR RPP-08-002, "DST Integrity Project and Tank Chemistry Control Project Addition/Deletions and Deferrals" is pending to address the AY-102 Chemistry corrosion probe schedule and BCR RPP-08-008 is being prepared to defer the AN-107 Chemistry work. Completion of the Tank C-110 BDGRE work will be deferred to FY09.

### **COST VARIANCE**

**Description and Cause:** The CM CV is within the reporting threshold of +/-10 percent or \$1.0M.

Significant contributors to the CTD favorable CV include efficiencies and cost savings in 1) Essential Services (FH allocation for General Site-Wide Services and Shared Services and Miscellaneous Services [AdvancedMed Hanford Services, Technical Library, DOE, Richland Operations Office service assessment pool Allocation, and miscellaneous services) and liquidation of COS rates on labor (more employees worked for others than anticipated in the baseline); 2) Ongoing efficiencies in Base Operations (WFO Safe Storage Surveillance and Monitoring, Radiation Protection Program, Tank Waste Sampling, Engineering Program, Industrial Health and Safety/HASP, QA Program, Assessments, Price-Anderson Amendment Act of 1988 Program, WFO Essential Services, WFO Facilities Operations Management, WFO BU Training and Nuclear Operations Program Management); 3) Ongoing efficiencies in Project Support (RPP Baseline Integration Support, IRM, TFC Executive Management, Legal Counsel, Manage Facilities and Property Services and Standards and Compliance); and 4) Other Mission Support efficiencies on AY/AZ Upgrades (use of spare pump for AZ-102

replacement instead of new procurement) and Work Force Realignment and Restructure (fewer employees impacted than anticipated by 2006 Involuntary Reduction of Force).

The favorable CTD variances are partially offset by unfavorable variances related to WFO TSR/Basic Maintenance (efforts to reduce and maintain the PM/CM backlog and support to S Farm Retrieval acceleration including DST to DST Transfers and Cross-Site Transfer, electrical outages and cathodic protection); WFO Parts/Materials/Tools (fabrication costs for jumpers and parts, purchase of cameras, parts and materials for PMs/CMs, and materials to support additional DST to DST and Cross-Site Transfers); WFO Radcon Surveys (FY 2006 costs for additional surveillances/routines on overtime and additional laboratory costs incurred); Environmental Health Program costs (vapors sampling support and Advanced Technologies and Laboratories International, Inc. (ATL) Readiness to Serve adder); Labor Relations (subcontractor support to Hanford Atomic Metal Trades Council Contract negotiations and ratification); Procurement and Contracts costs (work performed on the Marshalling Yard and Connector Road Improvements); and Evaporator Upgrades (for HVAC System subcontractor costs and MCS software development).

**Impact:** None.

**Corrective Action:** The favorable CVs are expected to continue for the ongoing level of effort Base Operations, Support and Essential Services accounts. The unfavorable CVs for completed work are not recoverable. Work has been reprioritized to meet mission objectives for the remainder of the Contract period and may result in some deferral of low priority activities.

## 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 TPA. Scope includes compliance efforts to meet TPA 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.

	BCWS	BCWP	ACWP	SV	CV	BAC
<b>CM</b>	1,298.2	894.1	1,351.3	-404.1 -31.1%	-457.2 -51.1%	
<b>CTD</b>	41,621.9	44,441.5	43,752.9	2,819.7 6.8%	688.7 1.5%	48,986.5

**SCHEDULE VARIANCE**

**Description and Cause:** The CM SV is due to 1) 242-A Evaporator Operation and Maintenance (budget in February for campaign 08-01 that was completed early; CTD the effort is ahead of schedule); and 2) DST Integrity Project (Tank AP-107 and AP-108 UT Support slightly behind schedule).

The CTD favorable SV is due 1) Accelerated work (planned outside the contract period in the baseline) completed for Cross-Site Transfers and the SY Pre-fabricated Pump Pit (PPP) Line Replacement, both in support of tank retrievals and 2) Work completed early (ahead of schedule) for DST to DST Transfers (supports tank retrievals, Evaporator and tank level increases) and 242-A Evaporator Campaign 08-01.

**Impact:** None.

**Corrective Action:** None required.

**COST VARIANCE**

**Description and Cause:** The CM unfavorable CV is due to 1) 242-A Evaporator Operations and Maintenance (additional PMs and CMs required to support the MCS upgrade OAT, retroactive pay increase for BU labor, support for the unplanned PB-1 pump refurbishment and higher than expected crane and rigging costs); and 2) DST Integrity Project (cost for additional DST System Structural Analysis scope [BCR RPP-08-002 pending to add scope] and additional costs for integrity assessment [revision to DST Integrity Assessment Report and additional IQRPE support required for Evaporator assessment and UT]).

The CTD favorable CV is within the reporting threshold of +/-10 percent or \$1.0M.

**Impact:** None.

**Corrective Action:** BCR RPP-08-002 is in process to address scope and assessment requirements associated with DST System Structural Analysis.

5.08 - RETRIEVE AND CLOSE (EXCLUDES 5.08.02/.03; 5.08.04.01/.02;  
5.08.05/.06/.07/.12/.13)

**Scope Description:** In the future, specific life cycle scope in this WBS 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 ORP.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	0.0	0.0	2.5	0.0 0.0%	-2.5 -2.5%	
CTD	0.0	283.3	214.1	283.3 283.3%	69.2 24.4%	0.0

#### SCHEDULE VARIANCE

**Description and Cause:** The CM SV is within the reporting threshold of +/-10 percent or \$1.0M.

The CTD favorable SV is due to ORP directed acceleration of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 IS-1 work plans in support of the RL TPA M-15 Milestones.

**Impact:** None.

**Corrective Action:** None required.

#### COST VARIANCE

**Description and Cause:** The CM CV is within the reporting threshold of +/-10 percent or \$1.0M.

The CTD favorable CV is due to cost savings in closure of old cross site transfer lines.

**Impact:** None.

**Corrective Action:** None required.

## 5.08.02 - WASTE TREATMENT PLANT 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 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
<b>CM</b>	556.3	556.3	471.0	0.0 0.0%	85.4 15.3%	
<b>CTD</b>	17,510.6	17,510.6	15,624.5	0.0 0.0%	1,886.1 10.8%	22,019.8

**SCHEDULE VARIANCE**

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

**Impact:** None.

**Corrective Action:** None required.

**COST VARIANCE**

**Description and Cause:** The CM and CTD favorable CV is due to ongoing cost efficiencies in level of effort labor for WFO Project Controls (improved systems, organizational realignment and co-location to improve performance); Startup and Testing (use of direct staff instead of subcontracted labor and reduced material usage); and Tank Waste Database Support (staff reductions). Favorable CV partially offset by unfavorable CV for Office of VP Project Delivery (additional unplanned DBVS staff assigned to manage external review issue resolution and exhauster fabrication cost correction to support vapors).

**Impact:** None.

**Corrective Action:** None required.

## 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
CM	0.0	0.0	-15.5	0.0 0.0%	15.5 15.5%	
CTD	1,676.3	1,984.2	2,215.5	307.9 18.4%	-231.3 -11.7%	1,676.3

**SCHEDULE VARIANCE**

**Description and Cause:** The CM SV is within the reporting threshold of +/-10 percent or \$1.0M.

The CTD favorable SV is due to acceleration of the Tank 241-AN-101 Retrieval Systems work (design, construction and startup) in support of Tank 241-C-104 Retrieval.

**Impact:** None.

**Corrective Action:** None required.

**COST VARIANCE**

**Description and Cause:** The CM CV is due to an accounting adjustment for final cost on this completed work.

The CTD unfavorable CV is due to previous cost overruns on the AN-101 mixer pump procurement which is partially offset by cost efficiencies on accelerated work for the AN-101 Retrieval System and level of effort Project Support to Construction of DST Retrieval Systems.

**Impact:** None.

**Corrective Action:** None required.

### 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 WFD to the WTP and to correct environmental compliance deficiencies with the tank farm support systems. Work scope includes completion of the Waste Transfer System, AN, AP, AW, and SY Farm electrical Upgrades, AN and AW HVAC Exhausters and the MPS System and MCS. Project Management, Project Support and Startup, Testing, Readiness and Turnover to Operations are also included.

	BCWS	BCWP	ACWP	SV	CV	BAC
<b>CM</b>	0.0	432.4	461.0	432.4 432.4%	-28.6 -6.6%	
<b>CTD</b>	2,865.8	7,712.4	8,626.6	4,846.6 169.1%	-914.4 -11.9%	2,865.8

#### SCHEDULE VARIANCE

**Description and Cause:** The CM SV is due to acceleration of the Project W-314 AW Farm Upgrades (HVAC exhausters) and Phase 2 Startup, Testing and Turnover. The CTD favorable SV is due to the acceleration of Project W-314 work including all Farm electrical upgrades, the MPS/MCS, AN and AW HVAC Exhausters and Phases 1 and 2 Startup, Testing, Readiness, and Turnover.

**Impact:** None.

**Corrective Action:** None required.

#### COST VARIANCE

**Description and Cause:** The CM CV is within the reporting threshold of +/- 10 percent or \$1.0M.

The CTD CV is due to unfavorable variances on the AP Upgrades (construction and Engineering effort for troubleshooting and Engineering to update and as-built project and facility documents), costs to complete the AN Upgrades (emergent ECN construction activities resulting from walk downs, testing and the HAZOP evaluations), costs to complete the AW Upgrades (FY 2007 costs for emergent construction activities on the encasement leak detectors), SY Upgrades (pit upgrades performed in FY 2006 and increased scope to complete the Upgrades [differing field conditions, troubleshooting

and CAT]), and increased cost of the Phase 1 Startup, Testing and Turnover of the MPS/MCS due to increased labor required for Engineering support to bring the system on-line, debugging of programming and test bed setup.

Unfavorable CV is partially offset by efficiencies in Phase 2 Startup, Testing and Turnover, and Project Support.

**Impact:** None.

**Corrective Action:** Work has been reprioritized to support the mission objectives for the remainder of the Contract period. Completion of the Phase 1 MPS/MCS Startup, Testing and Turnover will be deferred

## 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 TPA Milestone M-43-00.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	0.0	0.0	77.1	0.0 0.0%	-77.1 -77.1%	
CTD	2,712.4	2,712.4	3,059.9	0.0 0.0%	-347.6 -12.8%	2,712.4

**SCHEDULE VARIANCE**

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

No work has been performed on Project E-525 in the FY 2007 and FY 2008 period.

**Impact:** None.

**Corrective Action:** None required.

**COST VARIANCE**

**Description and Cause:** The CM CV is due to increase in the final negotiated cost to close an FFS construction subcontract (DCAA audit labor rate adjustment).

The CTD unfavorable CV is due to cost overruns on construction of COBs and the SY-Farm Transfer Line Backfill (work performed on supplied air which was not budgeted for at the time). Unfavorable CV for construction is partially offset by cost efficiencies on the AZ-151 Catch Tank Bypass Construction and in level of effort Project Support.

**Impact:** None.

**Corrective Action:** None required.

## 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, CTF 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.

<b>CM</b>	3,643.6	3,354.5	4,166.1	-289.0 -7.9%	-811.5 -24.2%	
<b>CTD</b>	121,194.2	117,651.4	112,878.3	-3,542.8 -2.9%	4,773.1 4.1%	148,974.5

**SCHEDULE VARIANCE**

**Description and Cause:** The CM SV is within the reporting threshold of +/- 10 percent or \$1.0M.

The CTD unfavorable SV is due to behind schedule condition on 1) The HIHTL Disposition Project (work delayed pending completion of a Life Extension Study and agreement with State Regulators on a path forward and schedule); 2) 244-CR Vault (work deferred); 3) Liquid Mitigation of Catch Tanks/Double-Contained Receiver Tanks (DCRTs) (field work on S-302 pumping delayed pending procurement and installation of an alternate retrieval pump); and 3) T Farm Interim Surface Barrier (design completed behind schedule and procurement/construction taking longer than expected due to scope and weather issues). Unfavorable CTD SV is partially offset by favorable variance for Vadose work ahead of schedule (direct push sampling and SGE).

**Impact:** Re-planning of some work is in process.

**Corrective Actions:** The HIHTL Disposition Project and 244-CR Vault work is being re-planned via pending BCR RPP-08-005, "Realign FY 2007 through FY 2009 HIHTL and 244-CR Vault Activities." The remaining 244-CR Vault work is being deferred to FY09. The pending BCR aligns HIHTL work with the Life Extension Study and provides for completion of S Farm work in FY08 and deferral of U Farm work to FY09. The work for Liquid Mitigation of Catch Tanks has resumed and an alternate pump was delivered in January 2008. A/E design work is expected to be completed in March 2008 with

pumping of S-302 in July 2008. The T Farm Interim Barrier work will be completed by the end of March 2008.

### **COST VARIANCE**

**Description and Cause:** The CM CV is due to 1) Vadose Resource Conservation and Recovery Act of 1976 (RCRA) Corrective Actions T Farm Interim Surface Barrier construction cost overruns (additional scope 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 associated material costs); 2) SST TSR Basic Maintenance (higher than expected labor costs to complete basic PMs/CMs and maintain the backlog); and 3) costs associated with the Closure Projects Safe Storage Surveillance/Monitoring.

The CTD favorable CV is due to 1) Under-runs in SST Operations Essential Services (labor planned in Essential Services being utilized in SST TSR/Basic Maintenance account to complete preventive and corrective maintenance activities); 2) Cost savings on Isolate Transfer System Components work (FY 2006 labor and construction); 3) Cost efficiencies in Infrastructure support from FH and Lockheed Martin Services (lower than projected support required); and 4) Miscellaneous other cost efficiencies and savings in Grand Junction Gamma Logging, Tank Farms Risk Assessments (efficient use of in-house staff instead of subcontractors as planned), Retrieval Technology Development, CTF Management and Maintenance (lower share of cost as other programs used the facility) and Liquid Level and Video Assessment (under-runs on completed work).

The favorable CTD CVs are partially offset by unfavorable variances for 1) SST TSR Basic Maintenance (higher than expected labor costs being incurred to complete basic PMs/CMs and maintain the backlog); 2) Vadose Resource Conservation and Recovery Act of 1976 (RCRA) Corrective Actions T Farm Interim Surface Barrier work exceeding the baseline estimates (design, procurement, weather and construction scope issues including additional steps to complete the required work such as 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 associated material costs); and 3) Closure Operations Office of the VP (unplanned purchase of spare cameras and unplanned costs for vapor sampling for chemicals of concern).

**Impact:** T Farm Interim Surface Barrier costs at completion will exceed the budget.

**Corrective Action:** Measures have been implemented to reduce the costs on the remaining T Farm Interim Surface Barrier construction work (streamlined the management structure, implemented weather enclosure to apply polyurea in bad weather, and optimized staff). Work will be complete by the end of March 2008. A Value Engineering Study and senior management presentation will be conducted in March to assess issues encountered with this first of a kind barrier. Lessons learned and potential improvements will be utilized for future scope, schedule and cost on similar barriers.

## 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
<b>CM</b>	455.0	1,466.2	3,842.4	1,011.2 222.2%	-2,376.2 -162.1%	
<b>CTD</b>	47,761.9	76,484.8	73,115.6	28,722.9 60.1%	3,369.2 4.4%	52,240.1

**SCHEDULE VARIANCE**

**Description and Cause:** The CM SV is due to 1) accelerated work performed on the Tank C-104 and C-110 Retrievals and C Farm Infrastructure design and construction; and 2) early work performed on Tank C-109 Retrieval. This CM favorable SV is partially offset by a unfavorable SV for Tank S-102 Retrieval.

The CTD favorable SV is due to accelerated work performed on retrieval of Tanks S-102, C-104, C-110 and C Farm Infrastructure; and work completed ahead of the contract period baseline schedule on retrieval of Tanks C-108 and C-109 (design, construction, startup and retrieval).

**Impact:** The favorable SVs will continue for accelerated work. The favorable SVs will zero-out for work ahead of schedule by the end of FY 2008.

**Corrective Action:** None required.

**COST VARIANCE**

**Description and Cause:** The CM unfavorable CV is due to 1) Tank C-104 Retrieval procurement (rules of performance for statusing progress [BCWP] will be revised in March to reflect current scenario versus the budget plan), and design and construction (delays and costs associated with the impacts of S-102 Corrective Action implementation [Compensatory Measures and Engineering requirements]); 2) Tank C-109 Retrieval Hard Heel Removal (cost impacts associated with riser gauging issue and

related FOLDTRACK® changes and Corrective Action Implementation); 3) Unplanned costs for the Tank S-102 leak event cleanup and investigation; and 4) Unplanned costs for Tank S-102 Retrieval (Engineering analysis and alternative evaluation for retrieval path forward; CTD, this Retrieval have a positive CV). Unfavorable CV is partially offset by minor favorable CV for Tank C-110 Retrieval (CM adjustment for Fluor over-accrual of installation costs in January).

The CTD favorable CV is due to cost efficiencies and savings on Retrieval of Tanks C-108, C-109, C-110, S-102, S-112 and S-109 (partial retrieval). The favorable CTD CV is partially offset by overruns on Tank C-103 Retrieval (equipment problems and increased sampling), Tanks C-201-204 Retrievals (equipment issues), Tank C-104 Retrieval, C Farm Infrastructure and unplanned costs for S-102 leak event investigation, corrective action plan and cleanup.

**Impact:** The large favorable CV generated through retrieval efficiencies and savings is being reduced by S-102 recovery costs and impacts on C Farm retrieval due to implementation of Compensatory Measures, Engineering requirements and process improvements (technical evaluations, Process Hazards Analyses and Level 2 Readiness Assessments).

**Corrective Action:** Continued acceleration of C-104 and C-110 Hard Heel Removal using the FOLDTRACK® MRT will help minimize the unfavorable cost impacts from the S-102 spill event.

## 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	24.4	24.4	28.8	0.0 0.0%	-4.4 -18.0%	
CTD	903.8	903.8	892.8	0.0 0.0%	11.0 1.2%	1,101.8

**SCHEDULE VARIANCE**

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

**Impact:** No impact.

**Corrective Action:** None required.

**COST VARIANCE**

**Description and Cause:** The CM CV is due to minor costs incurred for Tank S-112 Interim closure. The CTD CV is within the reporting threshold of  $\pm 10$  percent or \$1M.

**Impact:** None.

**Corrective Action:** None required.

5.09 - TREAT AND 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 immobilized high-level waste (IHLW) Shipping Facility support, and support to the TPA Milestone M-62-08 deliverables. Also included are the Failed Melter Disposal System and future expansions to IDF. Both are outside of the CTD 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	388.2	368.0	285.7	-20.2 -5.2%	82.3 22.4%	
CTD	10,757.6	10,718.5	8,770.2	-39.0 -0.4%	1,948.4 18.2%	13,904.0

#### SCHEDULE VARIANCE

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

**Impact:** None.

**Corrective Action:** None required.

#### COST VARIANCE

**Description and Cause:** The CM favorable CV is due to Infrastructure Services Phase 1 (reduced electrical usage at the WTP), and labor efficiencies in Supplemental Treatment Strategic Planning, Immobilized Low-Activity Waste (ILAW) and Immobilized High Level Waste (IHLW Baseline Management).

The CTD favorable CV is due to efficiencies in the aforementioned Strategic Planning and WTP electrical usage as well as underruns in the ILAW (Baseline Management, Systems Definition and Performance Assessment). The favorable CV is partially offset by overruns in the IDF Operations care and custody (equipment calibrations and performance testing, procedure development, training and habitat mitigation).

**Impact:** None.

**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
CM	0.0	0.0	0.0	0.0 0.0%	0.0 0.0%	
CTD	0.0	0.0	65.6	0.0 0.0%	-65.6 -65.6%	0.0

**SCHEDULE VARIANCE**

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

**Impact:** None.

**Corrective Action:** None required.

**COST VARIANCE**

**Description and Cause:** The CM CV is within the reporting threshold of  $\pm 10$  percent or \$1.0M.

The CTD unfavorable CV is due to residual costs received in early FY 2006.

**Impact:** None.

**Corrective Action:** None required.

## 5.09.02.03/08 - LAW TREATMENT

**Scope Description:** This work element includes the facilities and systems to treat LAW that will not be treated at the WTP. The work scope includes design, permitting, procurement, construction, startup and testing, readiness, operations, and decontamination and decommissioning of a treatment facility in the 200 East Area. Scope includes the same activities for a 200 West Area facility and a 200 West Area Pretreatment Facility.

	BCWS	BCWP	ACWP	SV	CV	BAC
<b>CM</b>	54.5	54.6	47.1	0.1 0.1%	7.4 13.6%	
<b>CTD</b>	1,708.2	1,708.2	1,670.7	0.0 0.0%	37.5 2.2%	2,150.2

**SCHEDULE VARIANCE**

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

**Impact:** None.

**Corrective Action:** None required.

**COST VARIANCE**

**Description and Cause:** The CM CV is due to efficiencies in Pretreatment Project Management 200W.

The CTD CV is within the reporting threshold of  $\pm 10$  percent or \$1M.

**Impact:** None.

**Corrective Action:** None required.

## 5.09.02.05/.11 - DEMONSTRATION BULK VITRIFICATION SYSTEM 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
<b>CM</b>	254.6	63.7	293.7	-190.9 -75.0%	-230.0 -360.9%	
<b>CTD</b>	27,882.9	41,733.1	45,007.3	13,850.2 49.7%	-3,274.2 -7.8%	28,231.4

**SCHEDULE VARIANCE**

**Description and Cause:** The CM unfavorable SV is related to work performed on the DBVS Engineering During Construction effort to complete and review the final design. Performance (BCWP) taken in February reflected the A/E subcontractor's completion of the final design package and the start of review by CH2M HILL which was slightly ahead of the plan reflected in the time-phased budget. The expected design review "serial" approach anticipated minimal participation by the A/E subcontractor until comments were submitted for response, resolution and incorporation in the design. CTD, the Engineering During Construction effort is slightly ahead of schedule.

CTD, the favorable SV is due to accelerated work performed on the DBVS Project Technology Development and Design to support resolution of the ERP issues/final design (IDMT, Molten Ionic Salts and CD-2).

**Impact:** None.

**Corrective Action:** None.

## **COST VARIANCE**

**Description and Cause:** The CM unfavorable CV is due to 1) A/E subcontractor costs associated with the DBVS Engineering During Construction final design review. The serial design review approach originally anticipated was changed to an improved parallel approach whereby the subcontractor was initially significantly more involved in the review responding to, dispositioning and incorporating changes into the design as it was being reviewed. This resulted in higher costs in February than anticipated but better supports the schedule to issue the final design in April; and 2) The cost of additional 90 percent design package work required to address lessons learned from the IDMT and changes from the PRHOA.

The CTD unfavorable variance is due to additional subcontractors' effort to complete initial design (in prior years), retroactive subcontractor rate adjustments resulting from a Defense Contract Audit Agency audit, cost overruns on DBVS Engineering During Construction (see above) and cost overruns on DBVS Procurement (for unplanned storage and maintenance of equipment awaiting restart of construction). The unfavorable CTD CV is partially offset by cost efficiencies on DBVS Project Support and the recent DBVS Technology Development work for the IDMT.

**Impact:** The CTD CV for completed work is not recoverable. Additional funding is required for follow-on testing to optimize mixer/dryer prill/pellet production.

**Corrective Action:** Sources of additional funding are being investigated for modest testing program in FY 2009.

## 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	0.0	0.0 0.0%	0.0 0.0%	
<b>CTD</b>	7,132.9	7,132.9	5,351.5	0.0 0.0%	1,781.4 25.0%	7,132.9

**SCHEDULE VARIANCE**

**Description and Cause:** The CM and CTD SV are within the reporting threshold of  $\pm 10$  percent or \$1M. Work on this Facility is completed.

**Impact:** None.

**Corrective Action:** None required.

**COST VARIANCE**

**Description and Cause:** The CTD favorable CV is due to cost effective management of the IDF construction changes, utilization of internal engineering resources rather than subcontracted support, and less project management resource usage than planned.

**Impact:** None.

**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 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
<b>CM</b>	0.0	0.0	0.0	0.0 0.0%	0.0 0.0%	
<b>CTD</b>	109.4	109.4	35.1	0.0 0.0%	74.3 67.9%	109.4

**SCHEDULE VARIANCE**

**Description and Cause:** The CM and CTD SV are within the reporting threshold of  $\pm 10$  percent or \$1M. No work is currently being performed on this Project.

**Impact:** None.

**Corrective Action:** None required.

**COST VARIANCE**

**Description and Cause:** The CM CV is within the threshold of  $\pm 10$  percent or \$1M. The CTD favorable CV is due to cost effective use of support resources on Project W-464.

**Impact:** None.

**Corrective Action:** None required.

## 5.10 - ANALYTICAL TECHNICAL SERVICES

**Scope Description:** The baseline scope includes 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 National Environmental Policy Act of 1969 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	2,050.7	2,093.5	2,288.3	42.8 2.1%	-194.9 -9.3%	
CTD	59,790.8	59,736.3	53,984.8	-54.5 -0.1%	5,801.5 9.7%	76,652.5

**SCHEDULE VARIANCE**

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

**Impact:** None.

**Corrective Action:** None.

**COST VARIANCE**

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

The CTD favorable CV is due to 1) Efficiencies in ATS Management technical advisors (attrition and transfer to WFO); 2) Efficiencies in 222-S Services (less than planned ORP steam allocations); 3) Efficiencies in 222-S Safe and Compliant Operations and General Support (less than planned dedicated and matrixed staff, planning rates greater than actual costs and revised waste volume projections for waste handling are less than originally planned); 4) Cost savings for 222-S Facility Reliability (Maintenance Annex

HVAC and roof repair completed under budget); 5) Efficiencies in 222-S Analytical Support (re-direction of Analytical Process Development scientist and Engineering technical support to Technology Development and Tank Sampling analytical support for corrosion control activities); 6) Efficiencies in 222-S Technology Development (less than planned Analytical Methods Development activities in FY 2006 as resources were re-directed to support the Industrial Hygiene Program and vapor analysis); 7) Cost efficiencies in ATL Waste Handling (shipments of waste for processing have been less than planned due to actual analytical production); 8) Efficiencies in ATL Waste Handling Disposition (shipments of waste for processing have been less than planned due to actual analytical production resulting in the billing of ATL waste handling costs to the end users being less than planned); and 9) ATL Readiness to Serve costs less than planned. The ATL Readiness to Serve positive CV is attributed to a re-distribution of costs between readiness to serve and other sampling. However, increased ATL costs are forecasted in FY 2008 due to reduced support to FH and increases in staffing levels.

Favorable CTD CVs are partially offset by minor unfavorable variance for 1) 222-S Capital Equipment Not Related to Construction (procurement of the gas chromatograph/mass spectrometer and increased costs associated with design for the installation of the ICP/MS) and 2) ATL Waste Handling Revenue (shipment of waste for processing have been less than planned due to actual analytical production resulting in the billing of ATL waste handling costs to the end users being less than planned).

**Impact:** None.

**Corrective Action:** None required.

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

### I. Near-Term Deliverables:

- **M-45-56, Complete Implementation of Agreed to Interim Measures.**  
Due: 07/31/08  
Status: On Schedule.
  
- **M-45-58, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 Master Work Plan that describes the proposed approach for the completion of Corrective Action to meet Final Closure Requirements in the Waste Management Areas as described in Appendix I, Section 2.3.**  
Due: 12/31/08  
Status: On Schedule. TPA Change Request, M-45-06-03 approved by DOE and Ecology on December 4, 2007.
  
- **M-45-60, Submit to Ecology for review and approval as an Agreement primary document DOE's Phase 2 RFI/CMS Work Plan and Sampling and Analysis Plan (SAP) for WMA C.**  
Due: 12/31/08  
Status: On Schedule. TPA Change Request, M-45-06-03 approved by DOE and Ecology on December 4, 2007.
  
- **M-45-61, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 RCRA Facility Investigation/Corrective Measures Study Report for WMA C.**  
Due: 12/31/10  
Status: On Schedule.
  
- **M-45-62, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 Corrective Measures Implementation Work Plan for WMA C.**  
Due: 7/31/12  
Status: On Schedule

### II. Significant Accomplishments:

- Construction of the T-Farm interim barrier is complete. The monitoring system is being actuated.
- Initiated direct push work at C WMA. Eight initial exploration holes have been driven and logged. Sample horizons have been identified. Nineteen vertically separated horizons resulting in twenty-one samples

being collected from three locations and forwarded for laboratory analyses. Rapid turn-around analyses have shown that  $^{99}\text{TC}$  activity is less than detectable and that  $\text{NO}_3$  concentrations are above background but consistent across the WMA. The remaining samples are undergoing laboratory analysis.

- The TX and TY geophysics field work is complete: analysis of well-to-well resistivity survey has been completed. Surface-to-surface survey analysis is underway and analysis of the ground-penetrating radar survey has been initiated.
- Washington State Department of Ecology has notified the Office of River Protection by letter (0800086) that Ecology completed the screening review of the RCRA Facility Investigation Report and determined that the report meets the minimum requirements of TPA Milestone M-45-55.

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

- Initiate investigation of UPR-200E-81 using direct push.
- Initiate construction of a groundwater monitoring and vadose zone sampling well in the BX Tank Farm.
- Complete the WMA C data quality objectives.

### **IV. Issues**

- None.

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

### SST Retrieval and Closure Program

#### I. Deliverables

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

Due: 9/30/24

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

- **M-45-00B, Complete Specified "Near-Term" SST Waste Retrieval and Interim Closure Activities, to Result in the Retrieval of all Tank Wastes in WMA-C SSTs Pursuant to the Agreement Criteria in Milestone M-45-00**

Due: 9/30/06 (Or as otherwise indicated within the descriptive text of this milestone.)

Status: Missed.

- Completion of four limits of technology retrieval demonstrations:
  - Saltcake dissolution (S-112): Completed (M-45-03C)
  - Modified sluicing (C-106): Completed
  - Vacuum retrieval (C-200s): Completed; C-203 field retrieval operations completed on 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: Missed
- **M-45-00E, Initiate Negotiation of SST Waste Retrieval and Closure Activities for the Remainder of the SST Program**  
Due: 10/31/12  
Status: To Be Missed (Based on current DOE Baseline planning)
- **M-45-05, Retrieve Waste from all Remaining Single-Shell Tanks**  
Due: 9/30/18  
Status: To Be Missed (Based on current DOE Baseline planning)
- **M-45-05-T05, Initiate Tank Retrieval from Five Additional Single-Shell Tanks**  
Due: 9/30/07  
Status: Missed.
- **M-45-05-T06, Initiate Tank Retrieval from Five Additional Single-Shell Tanks**  
Due: 9/30/08  
Status: To Be Missed (Based on current DOE Baseline planning)
- **M-45-05-T07, Initiate Tank Retrieval from Seven Additional Single-Shell Tanks**  
Due: 9/30/09  
Status: To Be Missed (Based on current DOE Baseline planning)

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

- **M-45-06-T04, Complete Closure Actions on one WMA**  
Due: 3/31/14  
Status: To Be Missed (Based on current DOE Baseline planning)

## II. Significant Accomplishments

- Continued 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.
- Perform readiness assessment to resume C-Farm retrievals.
- Deploy FoldTrak in C-109 and resume retrieval (04/29/08).
- Deploy FoldTrak in C-108 and resume retrieval (07/21/08).
- Continue construction for C-104 retrieval system and start retrieval.
- 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.

## IV. Issues

- C-102 and C-104 Tank Waste Retrieval Work Plan (TWRWP) (RPP-22393, Rev 3C): A draft Modification Notice for this TWRWP has been provided informally to Ecology. The Modification Notice would add text to Section 5.0 of the TWRWP stating that the three concrete pits at each tank do not need to be upgraded to meet the secondary containment requirements of WAC 173-303-640, and do not need to be certified by an Independent Qualified Registered Professional Engineer as meeting those secondary containment requirements, because the leak detection systems, drain back provisions, and sump pumps in each pit are adequately protective of human health and the environment.
- C-108 TWRWP (RPP-22393, Rev. 3C) and C-109 TWRWP (RPP-21895 Rev. 2B): A draft Modification Notice was informally provided to Ecology in March 2008 deleting RPP-24576 as a reference for how HRR data are processed and adding RPP-32477 as the new reference.
- The C-110 and MRS TWRWPs have not been approved by Ecology. ORP submitted document updates for both TWRWPs on January 15, 2008.
- Milestones M-45-00B (retrieve all C-Farm tanks) and M-45-00C (initiate negotiations on SST retrievals for 2007-2008), and M-45-00D (initiate negotiations on SST retrievals for 2008-2013) were missed. TPA negotiations to address these and other milestones are ongoing.

**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 <sup>c</sup>	4/22/08	7/14/08	7/1/08	8/25/08	4/8/09	3/8/09	2/17/10
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	10/1/08	12/5/08	11/1/08	10/9/09
C-109	Complete	Complete	Complete	5/8/08	7/2/08	6/1/08	7/20/09
C-110 <sup>bc</sup>	6/11/08	7/31/08	6/17/08	8/26/08	3/20/09	2/2/09	12/28/09
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 statused March month-end Integrated Mission Execution Schedule (IMES) as of 3/27/08 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.

c. Schedules are being updated for inclusion of S-102 corrective actions and compensatory measures.

d. Restart retrieval.

## 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: Complete
- **M-45-02N-A, Embedded Milestone; Within 60 days of receiving the DST Space Evaluation Document, the Three Parties Shall meet to Establish New Milestones, If Required, for Acquisition of Additional Tanks.**  
Due: 4/30/08  
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
- **M-45-02P-A, Embedded Milestone; Within 60 days of receiving the DST Space Evaluation Document, the Three Parties Shall meet to**

**Establish New Milestones, If Required, for Acquisition of Additional Tanks.**

Due: 4/30/10

Status: On schedule

**II. Significant Accomplishments**

- Submitted M-45-02N deliverable on February 29, 2008, ORP letter, 08-TPD-010

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

- Respond to Ecology comments on the M-45-02N deliverable.

**IV. Issues**

- None

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

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

Due: 2/27/04

Status: 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-45-05A, 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: 6/30/11  
Status: On Schedule. Change Request M-45-07-01 approved by DOE and Ecology on December 4, 2007.
- **M-45-15A, Embedded Milestone, Submit a Retrieval Data Report Pursuant to Agreement Appendix I**  
Due: 6/30/11  
Status: On schedule
- **M-45-15B, Embedded Milestone, Remaining Wastes have been adequately Characterized, and a Risk Assessment has been completed for residuals that remain in the tank.**  
Due: 6/30/11  
Status: On schedule
- **M-45-15C, Embedded Milestone, An update to the S-102 Component Closure Activity Plan has been submitted by DOE.**  
Due: 6/30/11  
Status: On schedule
- **M-45-15D, Embedded Milestone, If appropriate, DOE has requested an exception to waste retrieval criteria pursuant to Agreement Appendix H.**  
Due: 6/30/11  
Status: On schedule

**II. Significant Accomplishments**

- Completed removal of above grade equipment in preparation for removal of contaminated soil.
- Continued removing contaminated soil. Initiated value engineering study to develop technical approach for completing S-102 retrieval.

**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 in FY-09.

**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, recovery actions started immediately and are continuing.

**Tank 241-S-112****I. Deliverables**

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

- **M-45-13D, Embedded Milestone, If appropriate, DOE has requested an exception to waste retrieval criteria pursuant to Agreement Appendix H.**  
Due: 6/30/11  
Status: On schedule

**II. Significant Accomplishments**

- None

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

- Respond to Ecology comments on the S-112 RDR.

**IV. Issues**

## 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:

None.

### 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.

## In Tank Characterization and Summary

For the period from March 1 – March 31, 2008

### I. Accomplishments:

- Data letter report 20081174, Final Report for N-Nitrosodimethylamine Utilizing Single Ion Monitoring Analysis of the Contaminated Soil samples from the Tank 241-S-102 Tank Waste Spill, was issued March 19, 2008.
- Completed the analytical data review (RPP-RPT-36420) for the 241-AW-105 grab sampling event conducted December 12, 2007 , on March 14, 2008.
- Completed the analytical data review (RPP-RPT-36596) for the 241-AY-101 grab sampling event conducted December 17, 2007, on March 23, 2008.
- Completed core sampling of Tank 241-AP-108 on March 26, 2008.

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

#### Tank Sampling

- Tank 241-AP-103 core corrosion samples scheduled for May 2008.
- Tank 241-AY-101 core samples scheduled for April 2008.
- Tank 241-C-104B Pit liquid grab samples scheduled for April 2008.
- Tank 241-AZ-102 Leak Detection Pit liquid grab samples scheduled for April 2008.
- Tank 241-AZ-102 liquid grab samples scheduled for May 2008.
- Tank 241-AN-106 post 241-C-109 retrieval sampling scheduled for June 2008.
- Tank 241-AP-107 liquid grab samples scheduled for September 2008.
- Tank 241-AW-106 liquid grab samples scheduled for September 2008.

#### BBI Updates

- Ten tank updates are planned for the third quarter of FY 2008. Five of the updates have been started.

#### DQOs

- Complete Evaporator DQO, Rev. 5 in August 2008.
- Complete SST Component Closure DQO, Rev 4 in March 2008.
- Complete Compatibility DQO, Rev. 13 in July 2008.
- Complete Chemistry Control DQO, Rev. 9 in June 2008.
- Complete Corrosion Probe DQO Rev. 1 in April 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-47-03A, Complete startup and turnover activities for waste retrieval and mobilization systems for selected initial high-level waste feed tank.**  
Due: 03/31/09  
Status: Will Be Missed. 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:**

- None

### **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	Campaign completed 7/22/07.
FY07	07-02 (08-01)	AP-104	AP-103/ AP-104	Campaign completed 11/15/07.
FY08	08-CR	None	None	Planning is underway to conduct a Cold Run to complete 242-A monitoring and control system (MCS) upgrades and equipment testing, and personnel training in FY08.
FY08	08-01 (09-01)	AP-101/AP-105	AP-104	Planning is underway to accelerate the FY09 baseline campaign into FY08. The accelerated campaign is to be performed back-to-back with Campaigns 08-CR and 08-02 (acceleration of 10-01).
FY08	08-02 (10-01)	AP-101/AP-105	AP-104/AP-101	Planning is underway to accelerate an FY10 baseline campaign into FY08. The accelerated campaign is to be performed back-to-back with Campaign 08-01 (acceleration of 09-01).
FY09	TBD	TBD	TBD	Detailed planning for FY09 and outyear campaigns subject to retrieval activities and contract requirements.

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

**I. Near-Term Deliverables:**

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

**II. Significant Accomplishments:**

- "Pre-active life" surveillance and monitoring has been implemented in accordance with the IDF Permit modification. Results to date indicate the IDF is performing in accordance with the approved design.

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

- Complete a survey in Fall 2008 to determine survival rate of sagebrush planted to date and determine delta to meet 60% survival required by the Mitigation Action Plan – Fall 2008.
- By agreement between ORP and Ecology, withdrawal of the Canister Storage Facility Part B Permit Application is 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 – April 2008.

**IV. Issues**

- None.

## **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-62-01P, Submit Semi-Annual Project Compliance Report.**  
Due: 01/31/2008  
Status: Completed
  
- **M-62-01Q, Submit Semi-Annual Project Compliance Report.**  
Due: 07/31/2008  
Status: On schedule
  
- **M-62-07B, Complete Assembly of Low Activity Waste Vitrification Facility Melter #1 So That It Is Ready for Transport and Installation in the LAW Vitrification Building (BNI Baseline Schedule Activity 4DL321A200 as Part of DOE Contract No. DEAC27-01RV14136), and Complete Schedule Activity ID 4DH46102A2 – Move #1 Melter into the High Level Waste Vitrification Facility.**  
Due: 12/31/2007  
Status: Missed

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

Due: 06/30/2006

Status: Missed – Insufficient information to compare technologies due to delays in constructing the Demonstration Bulk Vitrification System (DBVS) and lack of WTP cost and schedule information.

- **M-62-09, Start Cold Commissioning – Waste Treatment Plant.**  
Due: 02/28/2009  
Status: To Be Missed (Based on current DOE Baseline planning)

- **M-62-10, Complete Hot Commissioning – Waste Treatment Plant.**  
Due: 01/31/2011  
Status: To Be Missed (Based on current DOE Baseline planning)
  
- **M-62-11, Submit a Final Hanford Tank Waste Treatment Baseline.**  
Due: 06/30/2007  
Status: Missed

**II. Significant Accomplishments:**

- Review of the DBVS facility design changes was completed with issuance of the final design planned for April 2008. Preparation of the revised PDSA continues.

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

- Issued final design package and PDSA to ORP.

**IV. Issues:**

None.

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

### Waste Treatment Plant

The project is 44% complete. BNI's spend plan for FY 2008 was \$725M. Expenditures to date are \$283M that combined with approved Baseline Change Proposals (BCP) implemented this year, results in a forecasted spend of \$749M. ORP and BNI track the expenditures to understand the overall progress that BNI is making in completing the contract work scope. The spend plan is a management indicator beyond project performance indicators (BCWS, BCWP, and ACWP) due to the wider picture it provides regarding project progress.

	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08
BCWS	48,396	93,184	135,015	178,633	259,849
BCWP	48,645	95,247	134,615	177,802	255,241
ACWP	54,226	111,143	160,591	208,495	283,264

Variances improved in February, but continue to be dominated by plant-wide engineering factors, insufficient budget to cover equipment/line list development, calculation revisions required in mechanical systems, increased documentation due to quality initiatives, closure spool work scope and vendor support where the number of cycles required per vendor document, and the number of documents reviewed are larger than estimated. Also, design actions related to hydrogen piping in ancillary vessels (HPAV), increased vessel seismic work, additional standard pipe support details, and seismic re-qualification efforts are all having unfavorable impacts.

Unit prices for received and paid quantities of structural steel are also above composite budget rates. Steel prices are being re-evaluated, but recent proposals from the primary structural steel vendors indicate a significant impact to future steel prices. However, several plant equipment procurements awarded for less than budgeted, understaffing in some control accounts, and historical positive performance in the PT and HLW craft control accounts are offsetting some of the unfavorable variances.

Research and Technology (R&T) activities also impacted cost and schedule variance. While 50 of 69 total actions from the External Flowsheet Review Team (EFRT) are complete, these necessary activities have delayed schedule and increased costs. Longer test cycles, delays in fabrication and instrumentation needed for testing, and additional time to implement new software procedures have contributed to the schedule delays.

Craft staffing is currently at about a full-time equivalent (FTE) of 710, with field non-manual staff at about 450 FTEs.

Winter weather continued, and 1-1/2 days of work were lost due to heavier than usual snow. Outdoor work was also shut down one day for several hours due to thunder and lightning. Below-freezing temperatures delayed excavation and backfill activities, but the schedule is expected to recover.

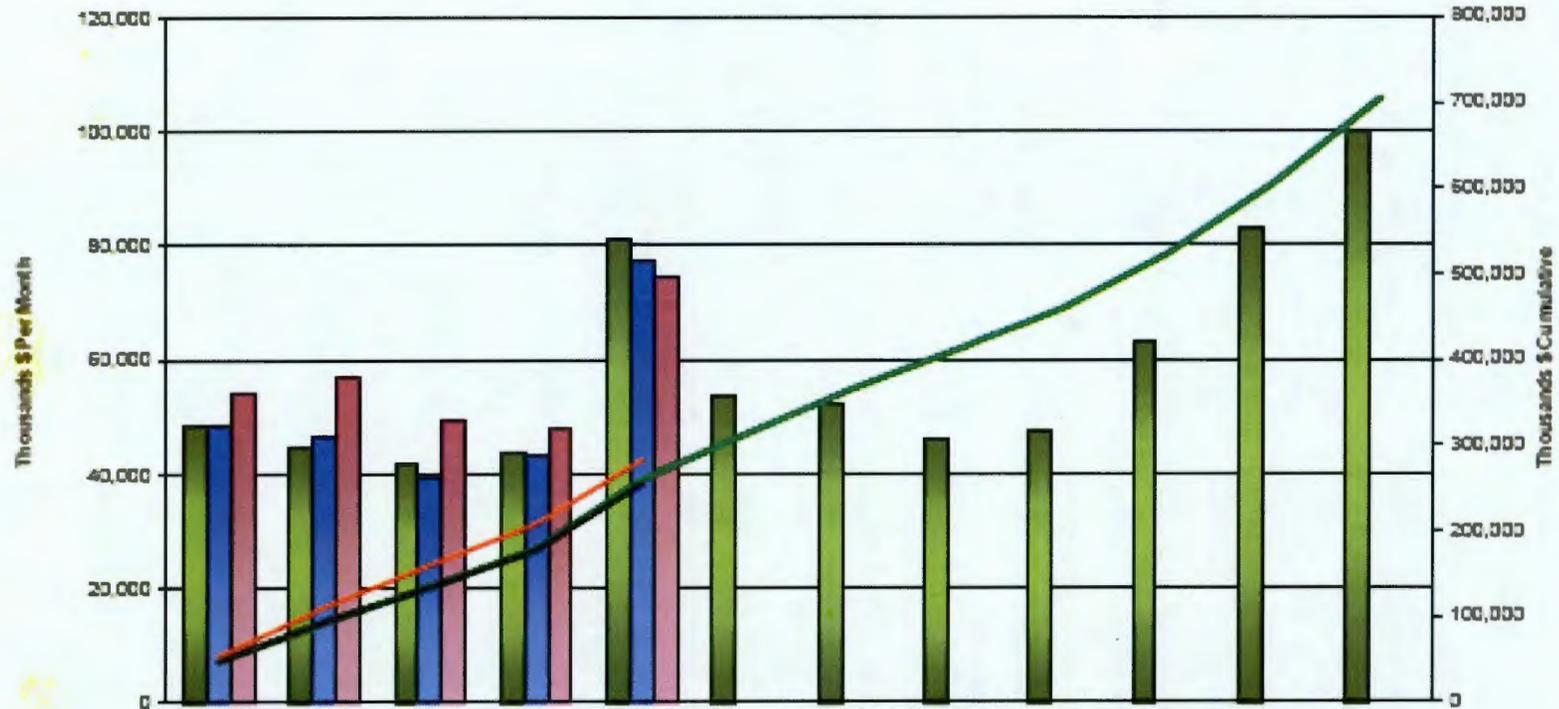
The Broad Based Review team is conducting a comprehensive, six-month review of the WTP design and action tracking process. This review stemmed from the issue of vendor misunderstanding of the black cell piping requirement due to unclear flowdown of requirements. The scope of the engineering review is to examine upper-tier requirements from the Design Criteria Database, such as contract and Authorization Basis requirements, and verify that they have cascaded down to lower-level procurement documents and construction drawings, and have been implemented in the design. The review examines seven systems and four component classes in vertical and horizontal slices. There is also a Quality Assurance review that is examining action tracking to determine if actions are tracked to completion. The team is comprised of approximately 45 engineers and quality professionals with previous nuclear experience, including 2 DOE personnel. The requirements verification phase of the review is complete, and the execution phase is approximately 10 percent complete, with completion scheduled for mid May 2008. The final report is scheduled for release in late June 2008.

BNI completed an assessment of WTP risks and submitted the results to ORP. Activities to support this assessment included updating the current risk register; assessing Engineering, procurement, construction and commissioning (EPCC) risks using the Bechtel Risk Analysis Contingency Monte Carlo simulation software; and updating current technical risks using Crystal Ball Monte Carlo simulation software. BNI will continue to recognize and manage the Management Reserve established during the May 2006 EAC and updated during the April 2007 Execution Revision. BNI has identified the actual impact of material and equipment cost escalation, actual cost associated with capacity modifications, extended curtailment, and EFRT issue resolution, as areas requiring continued attention by management.

### WTP Fiscal Year to Date Performance

October 2007 – September 2008

(\$ in thousands)



	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08
Monthly Plan (BCWS)	48,398	44,788	41,831	43,618	81,216	53,888	52,505	45,900	47,362	83,160	82,881	100,011
Monthly Perf (BCWP)	48,546	48,802	39,365	43,187	77,439							
Monthly Actuals (ACWP)	64,228	58,917	49,448	47,904	74,788							
FY 08 TO Plan (BCWS)	48,398	93,184	135,016	178,634	259,849	313,738	366,243	412,143	459,492	522,653	605,533	705,544
FY 08 TO Perf (BCWP)	48,546	95,248	134,616	177,804	255,242							
FY 08 TO Actuals (ACWP)	64,228	111,143	160,591	208,495	283,284							

## Pretreatment (PT) Facility – February 2008

The PT Facility will separate radioactive tank waste into high-level waste (HLW) and low-activity waste (LAW) fractions and transfer each waste type to the respective vitrification facility for immobilization.

Facility construction began November 2002 with a scheduled construction completion date of October 2014. Currently, design is 70% complete and construction is 25% complete.

Construction crews placed two walls (3-58 and 3-27) totaling 133 cubic yards. Structural steel erection continues at the 28' to the 56' elevations and crews are assembling temporary decks for several black cells designed with sufficient capacity to support man lifts. The plan is to hold off placing 56' elevation slabs over some of the black cells while potential issues with vessel internals are addressed and to use the decks as work platforms to construct the fourth lift walls.

Floor coating applications have started in the northeast corner. Installation of the ring beam for vessel HLP-VSL-00027A continues and workers are installing grillage in vessel rings in Planning Area 3 for liner plate installation.

At the 28' elevation, crews continue to install expansion materials, rebar, "Q" decking, curb plate, and staging pipe in overhead pipe racks. Piping and floor drains are also being staged and crews are erecting structural steel at the 28' to 56' elevations. Crews are preparing walls in the fire water pit stairwell and in the resin dewatering system control room in preparation for installing stairs.

Dominion Engineering, Inc. (DEI) is analyzing data from the first in a series of erosion tests being conducted in response to the EFRT issue M2, "Mixing Vessel Erosion." DEI started the second test that utilizes a simulant with a mean particle size of 54  $\mu\text{m}$ , the largest particle size simulant planned for this series of tests. Analysis on the data from the first test is still underway.

Five skids for the Pretreatment Engineering Platform (PEP) arrived in March, bringing the total to 11 of 16 skids received to date. The last skid is scheduled for delivery by April 15, 2008. PEP assembly is scheduled to be complete in June 2008; Phase 1 testing is to be initiated in November 2008. The PEP provides the equipment needed to perform a 1:4.5 scale test of the WTP ultrafiltration system to address questions associated with the system's caustic and oxidative leaching processes, equipment performance, and system capacity.

Recovery actions continue with the nondestructive testing of black cells piping. The fabricator of black cell piping was released to resume fabrication. BNI continued work on the revised root cause analysis and submitted the report to ORP in early April.

The M11, "Loss of WTP Expertise Base," and P7, "Complexity of Valving," closure packages were approved March 15, 2008, bringing the total EFRT issues closed to 20. Two lesser issue packages were also closed (Anti-Foam and High-Level Waste Wet Electrostatic Precipitator). All 18 of the reference case tests to resolve issue M-1, "Plugging in Process Piping," are complete, and test data are being analyzed to determine whether additional testing is required. The ORP/BNI Technology Steering Group is reviewing the remaining testing proposed to resolve issues M-1 and M-3, "Inadequate Mixing System," to determine if all the testing is necessary. The testing program for issue P-9, "Undemonstrated Sampling System," is on hold due to plugging problems and other design deficiencies identified during the prototypical sampler testing.

The Consortium for Risk Assessment with Stakeholder Participation (CRESP) completed its review of efforts to resolve EFRT issue M-12, "Undemonstrated Leaching Process." The M-12 Issue Response Plan will demonstrate the ultrafiltration system and associated leaching process. CRESP held an outbriefing March 6, 2008. Overall, comments received were supportive of the PEP, as well as ongoing work on issues M-1, "Plugging in Process Piping," and M-3, "Inadequate Mixing System." CRESP's scope is to provide independent review and input to the ORP Manager on adequacy of available data, test plans, and testing results to support issue resolution for the WTP. The CRESP's draft report is expected in early April.

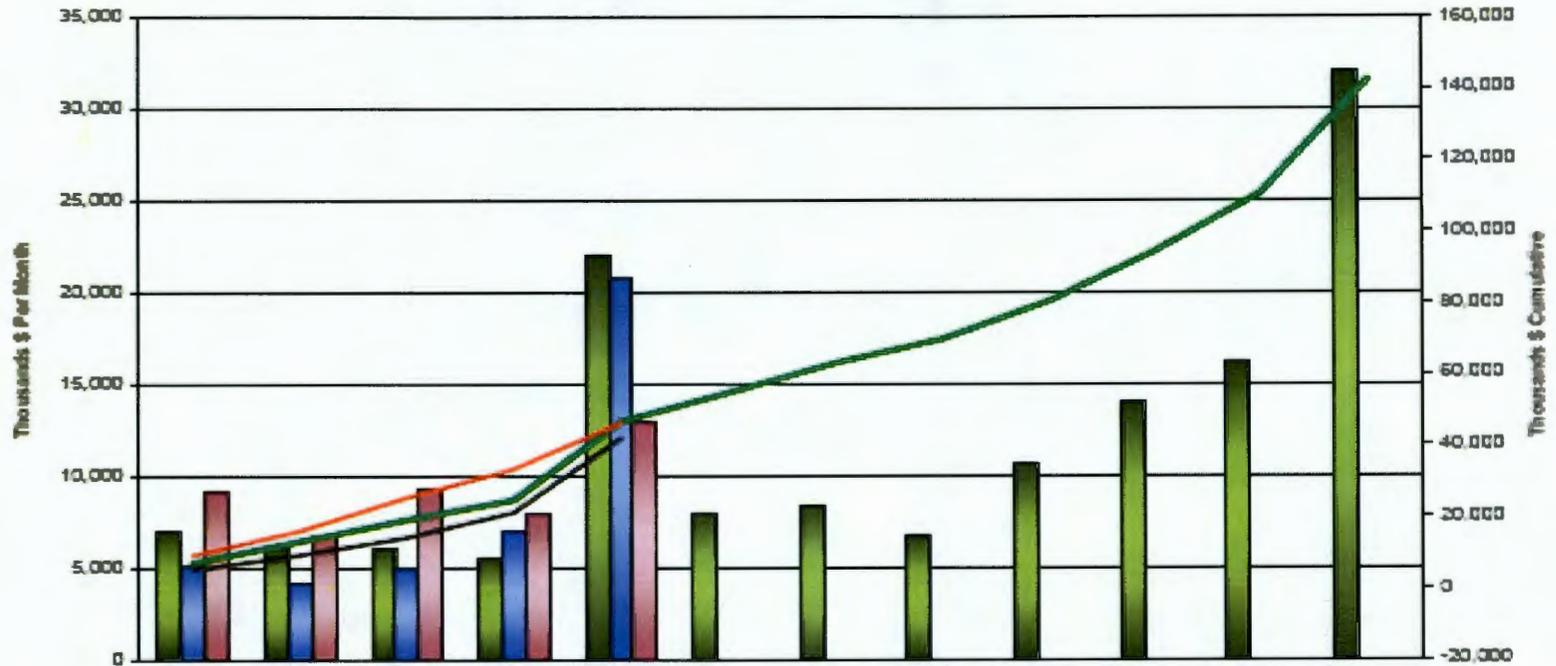
The following table provides a status of near-term gatepost milestones for the PT Facility.

Pre-Treatment Facility	Milestone	Scheduled	Projected
	Approve PJM Multiple Overblow Final Report	6/07	4/08
	EFRT Recommendation M2, Perform Submerged Jet Test	6/07	8/08
	Issue Committed Design for Cesium Resin Addition Process System	3/08	3/08A
	Issue Committed Design for Waste Feed Evaporation Process System	3/08	3/08A
	Issue Committed Design for Anti-Foam, Sodium Permanganate and Strontium Nitrate Reagent Systems	4/08	4/08

### PT Fiscal Year to Date Performance

October 2007 – September 2008

(\$ in thousands)



	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08
Monthly Plan (BCWS)	6,935	8,054	8,010	5,475	22,025	7,989	8,363	6,298	10,561	13,949	15,240	31,935
Monthly Perf (BCWP)	6,028	4,153	4,908	6,993	20,744							
Monthly Actuals (ACWP)	9,100	8,758	9,297	7,939	12,875							
FYTD Plan (BCWS)	6,935	12,990	19,000	24,475	46,500	54,489	62,852	69,548	80,209	94,158	110,397	142,332
FYTD Perf (BCWP)	6,028	9,182	14,090	21,083	41,827							
FYTD Actuals (ACWP)	9,100	15,856	25,153	33,142	46,017							

## High-Level Waste Facility – February 2008

The HLW Facility is 38% complete with design at 84% and Construction at 22% complete. Construction performance is good, and engineering performance has improved from past months. HLW construction is going strong with more than 100 craft personnel and supporting crews working towards placement of concrete walls and steel beams for slabs and other commodity installations. Engineering and procurement activities are ongoing. DOE and Ecology top management met in April to negotiate Tri-Party Agreement milestones. DOE and Ecology have reached a tentative agreement on some of the concerns DOE raised on the 2+2 permit modifications Ecology issued. Contract negotiations with BNI are ongoing, and anticipated to be complete by summer 2008.

At the 0' elevation, about 300 cubic yards of concrete were placed for wall 1104 at the southwest corner of the facility and wall 1115 of melter cave #2. Construction forces continue to install forms, rebar, joggles, and embeds for walls 1113 and 1117, 1133, and 1134, around pour cave #2, and around canister rinse tunnel. Crews are preparing to install the structural steel beams, columns, and Q-decking at the annex at the northwest side of the facility for the slab at 14' elevation. At the -21' elevation, subcontractor, Intermech is preparing to install HVAC ducting at the northeast area, and subcontractor Patriot is preparing to install remaining fire sprinkler system piping. Crews are also erecting scaffolds over vessel 903, welding rail plinths on the drum transfer tunnel rails, and installing electrical conduit and temporary electrical power. Iron workers continue beam installation in the filter lay-down room.

On March 18, the silver mordenite crane was set on the crane rail, meeting the DOE gatepost milestone ahead of the May 26 schedule date. Architectural drawings for exterior elevations +58' and +72' have been issued. BNI re-issued eight piping and instrumentation diagrams (P&ID) symbol and legends sheets showing expanded symbols with control and instrumentation (C&I) details. Revised ground motion (RGM) modifications for pour tunnel bogie rails are complete. Mechanical sequence diagrams for the Radioactive Waste Handling System (RWH) have been issued, which will allow software development. Revised vendor proposal drawings for process canister buffer and cooling racks have been issued incorporating changes to quality level and resolution of concrete overheating issue. RGM evaluation of melters has been awarded to the subcontractor, AREVA. BNI issued the authorization to resume vendor design of the Autosampling System (ASX).

Review of the vendor submittal for the HLW Melter Power System design was completed satisfactorily. A review was also completed of the detailed drawings of the C5 shield doors allowing fabrication to begin of all ancillary C5 door components. Walls between the 14' to 37' elevations were released for construction. Verification of existing weld, material thickness, etc. and refurbishing of melter shield doors at the Oregon Ironworks, Inc. vendor shop is going well; load testing of the upgraded door is planned in May 2008. Hold have been placed on vendors for high-efficiency mist eliminators (HEME) and HLW

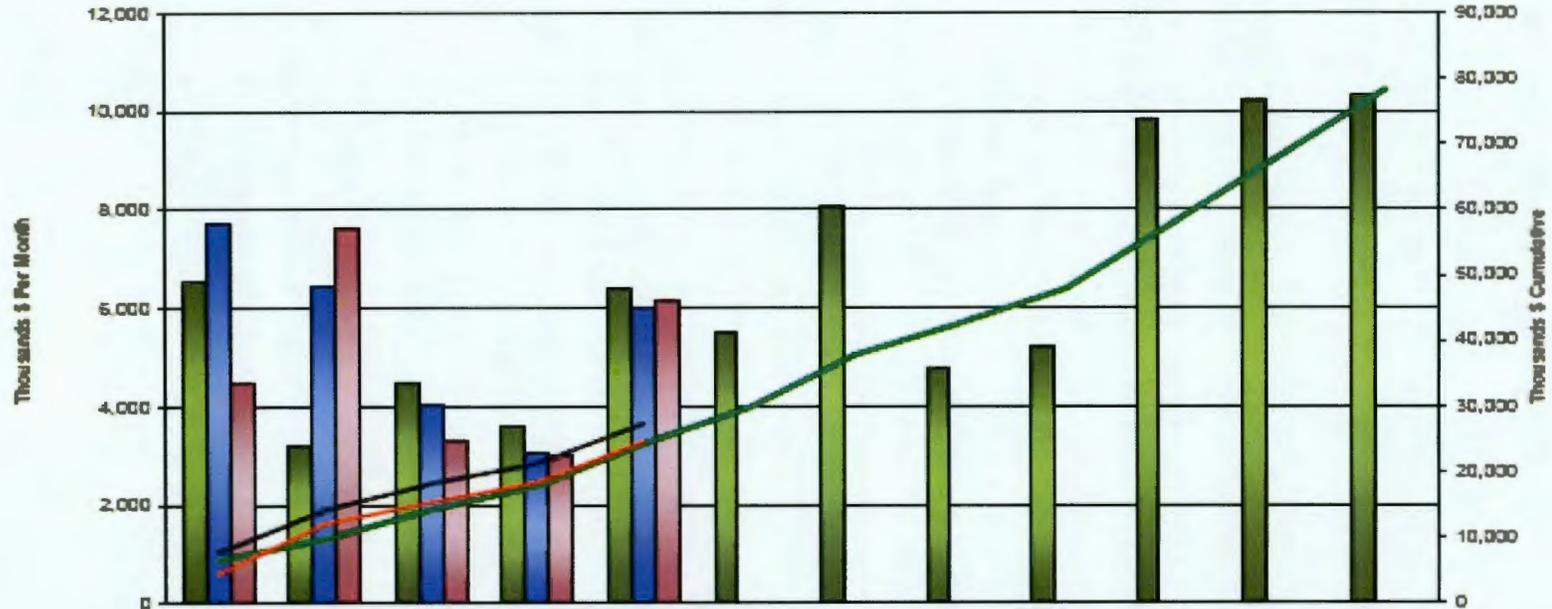
Melter Feed Process System (HFP) vessels and agitators due to variety of reasons from quality issue to RGM to environmental qualification to HPAV. BNI continues to evaluate this holds for release by this summer.

Members of the Defense Nuclear Facilities Safety Board (DNFSB) and BNI met March 18 and 19, 2008, to resolve DNFSB and Peer Review Team (PRT) comments made in January 2008 on the HLW Summary Structural Report (SSR). Over 80 percent of the comments were resolved during the meetings. No technical issues remain; the report will be subjected to one final edit by all concerned parties and then published in May 2008. A May 2008 meeting is planned to resolve comments on the Pretreatment (PT) Facility SSR and to comments made to the fire protection calculations on the four major WTP structures. Both the HLW and PT SSRs summarize the structural analysis and design processes used for the facilities. A primary objective of these reports is to document facility responses to the seismic spectra at the WTP and ensure the design is adequate. DNFSB has also noted that they would like to use the WTP SSRs as standards for other DOE facilities. DNFSB staff has been reviewing the closure of another issue regarding the design of structural steel to maintain structural adequacy during and after fire. The majority of the issues have been resolved, except the impact of non-fireproofed steel on the main steel which is fireproofed. This issue is planned to be completed in May 2008.

During the week of March 10, 2008, DNFSB technical staff conducted an onsite review of the WTP confinement ventilation systems. This review included DNFSB evaluation of BNI's authorization basis amendment request (ABAR) to tailor prescriptive fire protection features (e.g., deluge spray on high-efficiency particulate air [HEPA] filters, detection and ember screens) on the plant confinement ventilation systems specified by DOE-STD-1066, *Fire Protection Design Criteria*. As a result of this review, DNFSB staff raised a number of valid technical issues regarding the completeness and accuracy of analyses included with the ABAR. It is not anticipated that the DNFSB will insist on full compliance with DOE-STD-1066, but rather an equivalent level of fire safety from the standard. DOE will continue to dialogue with the DNFSB during its review of the ABAR, which is scheduled for completion in August 2008.

The Office of Disposal Operations (EM-12)/Office of Civilian Radioactive Waste Management (OCRWM or RW) review of the ORP Immobilized High-Level Waste Form Compliance Plan was completed in March 2008. Comment resolution is ongoing.

### HLW Fiscal Year to Date Performance October 2007 – September 2008 (\$ in thousands)



	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08
Monthly Plan (BCWS)	6,569	3,208	4,498	3,594	6,415	5,501	8,085	4,793	5,218	9,936	10,258	10,319
Monthly Perf (BCWP)	7,740	6,457	4,060	3,074	6,030							
Monthly Actuals (ACWP)	4,456	7,623	3,309	3,015	6,156							
FYTD Plan (BCWS)	6,569	9,777	14,275	17,869	24,284	29,785	37,870	42,663	47,881	57,716	67,974	78,293
FYTD Perf (BCWP)	7,740	14,197	18,257	21,331	27,362							
FYTD Actuals (ACWP)	4,456	12,089	15,399	18,413	24,569							

## Low-Activity Waste Facility – February 2008

Concrete under the melter rail inside of the facility is being scabbled to accept epoxy grout once the rail is set (one of the four rail runs is complete). Crews continue to install partition walls around the C5 filter (applying joint compound) and exhaust fan rooms and grillage clips for attaching insulation in the pour caves on the -21' elevation; piping and coating supports on the -21', +3', +28', and +48' elevations; cable tray and electrical conduit -21', +3', and +48' elevations; and ductwork on the +48' elevation. Fireproofing repairs on the -21', +3', and +28' elevations are ongoing. Adjustable speed drive units for operating equipment in the melter cells are scheduled to be mounted on the exterior walls.

Craft personnel finished installing the mezzanine steel for the maintenance cranes in the export bay and are performing final beam alignment that will support the bridge crane rails. The beneficial use date for the bridge crane over the process cell (Crane 8) has been extended to resolve nine startup field reports issued during functional testing.

A weather enclosure was erected around the annex stair penthouse to allow for fireproofing of the structural steel members. Piping and heat exchanger installation in the submerged bed scrubber (SBS) cooling room for the process cells is progressing and personnel are performing quarterly assured grounding, ladder, rigging, and electrical cord inspections.

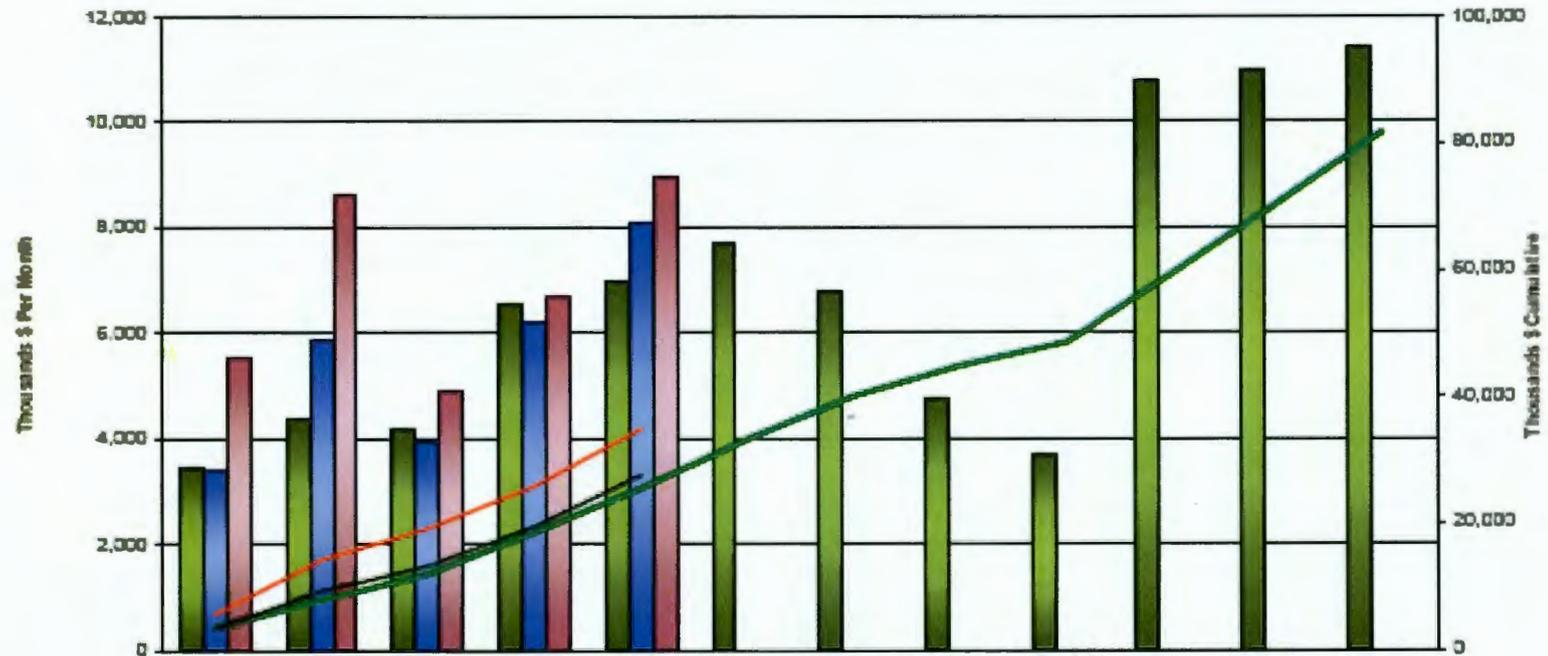
Construction forces are applying cementitious fireproofing to the exterior face of the structural steel members of the import bay to allow for siding installation. Crews are removing fireproofing in the elevator shaft where structural steel connections will be required for the elevator. Epoxy grouting under the pumps for the demineralized water tank was completed on the +28' elevation.

The baseline change proposal that identifies Title 2 and Title 3 activities is under review and is expected to be issued in April 2008. This will establish milestones for Title 2 Design Complete activities. Title 2 design encompasses the initial release of designs needed to allow construction teams to construct the facility. While there will still be significant field engineering and review of vendor designs, Title 2 Design complete for LAW is scheduled for later this year and is a significant project level milestone. The only item at risk for not meeting the Title 2 design complete milestone is Control and Instrumentation design for the Autosampling and Environmental Monitoring and Programmable Protection systems. The designs for these systems are to be finished by vendors; BNI is designing the interface to the control and instrumentation for these systems.

The following table depicts near-term gatepost milestones for the LAW Facility.

<b>Low Activity Waste</b>	<b>Milestone</b>	<b>Scheduled</b>	<b>Projected</b>
	Complete Production Piping Isometric Design	10/07	8/07 A
	Complete Export Bay Concrete Walls	11/07	8/07 A
	Complete Structural Steel in Annex	11/07	8/07 A
	Complete C2 Fan Room Slab	1/08	2/08 A
	Install 22,500 lf of Pipe, All Elevations	2/08	2/08 A
	Install Partition Walls, Elevation -21	4/08	3/08A
	Complete Export Bay Structural Steel	5/08	5/08
	Annex Facility "Closed In"	7/08	5/08

### LAW Fiscal Year to Date Performance October 2007 – September 2008 (\$ in thousands)



	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08
Monthly Plan (BCWS)	3,471	4,358	4,163	6,965	6,976	7,693	6,800	4,739	3,693	10,791	10,961	11,426
Monthly Perf (BCWP)	3,408	5,851	3,964	6,207	8,115							
Monthly Actuals (ACWP)	5,554	8,832	4,887	6,713	8,973							
FYTD Plan (BCWS)	3,471	7,830	11,993	18,558	25,533	33,226	40,026	44,765	48,458	59,249	70,230	81,656
FYTD Perf (BCWP)	3,408	9,259	13,224	19,431	27,546							
FYTD Actuals (ACWP)	5,554	14,186	19,073	25,786	34,759							

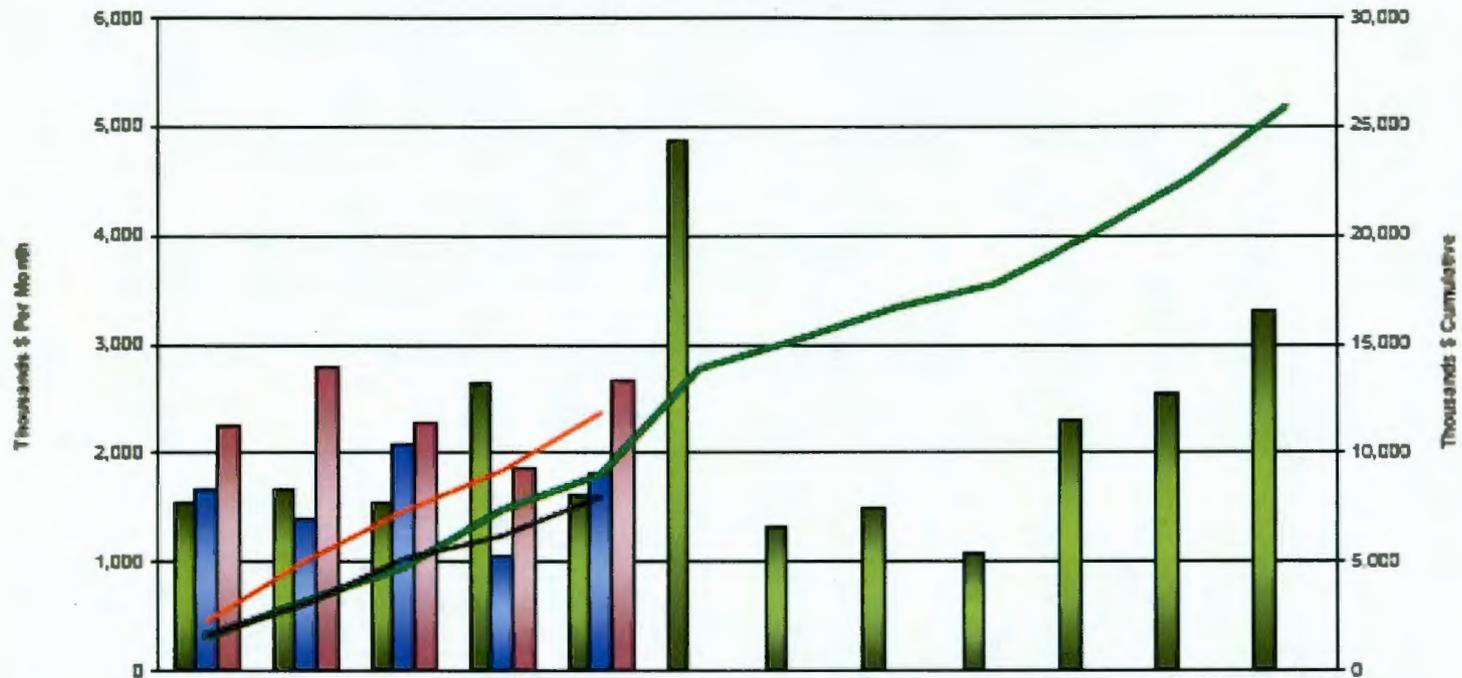
## Analytical Laboratory – February 2008

Construction continues to erect the LAB stack structural steel on the facility's north side, and install insulation and roofing on the north and south shed roofs. Installation of partition walls and liner plate in the hot cell is ongoing, along with the installation of multi-commodity steel, permanent lighting conduit, ductwork, pipe hangers, and fireproofing. Crews finished installing the air-handling units and base frames on the +17' elevation. Installation of the decontamination glovebox and platform in the C3 maintenance is nearing completion. Temporary lighting is being installed as needed. Floor coatings work on both elevations is progressing.

The following table depicts near-term gatepost milestones for the LAB.

Analytical Laboratory	Milestone	Scheduled	Projected
	Complete Structural Steel Frame	11/07	10/07 A
	Complete Instrument Database	1/08	1/08 A
	Issue Final C&I Conduit Design	4/08	6/08
	Deliver Master Slave Manipulators	4/08	4/08
	Complete Structural Steel Fireproofing	5/08	4/08
	Complete Laser Ablation Site Accept Testing	7/08	6/08

### LAB Fiscal Year to Date Performance October 2007 – September 2008 (\$ in thousands)



	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08
Mthly Plan (BCWS)	1,534	1,659	1,545	2,643	1,627	4,862	1,334	1,493	1,072	2,297	2,540	3,301
Mthly Perf (BCWP)	1,654	1,395	2,079	1,065	1,804							
Mthly Actuals (ACWP)	2,253	2,796	2,259	1,854	2,667							
FYTD Plan (BCWS)	1,534	3,194	4,739	7,381	9,008	13,869	15,203	16,696	17,767	20,065	22,605	25,906
FYTD Perf (BCWP)	1,654	3,049	5,127	6,193	7,997							
FYTD Actuals (ACWP)	2,253	5,049	7,317	9,171	11,838							

## Balance of Facilities – February 2008

The Balance of Facilities (BOF) provides services and utilities to support operation of the main production facilities – Pretreatment (PT), High-Level Waste (HLW), Low-Activity Waste (LAW), and Analytical Laboratory (LAB)

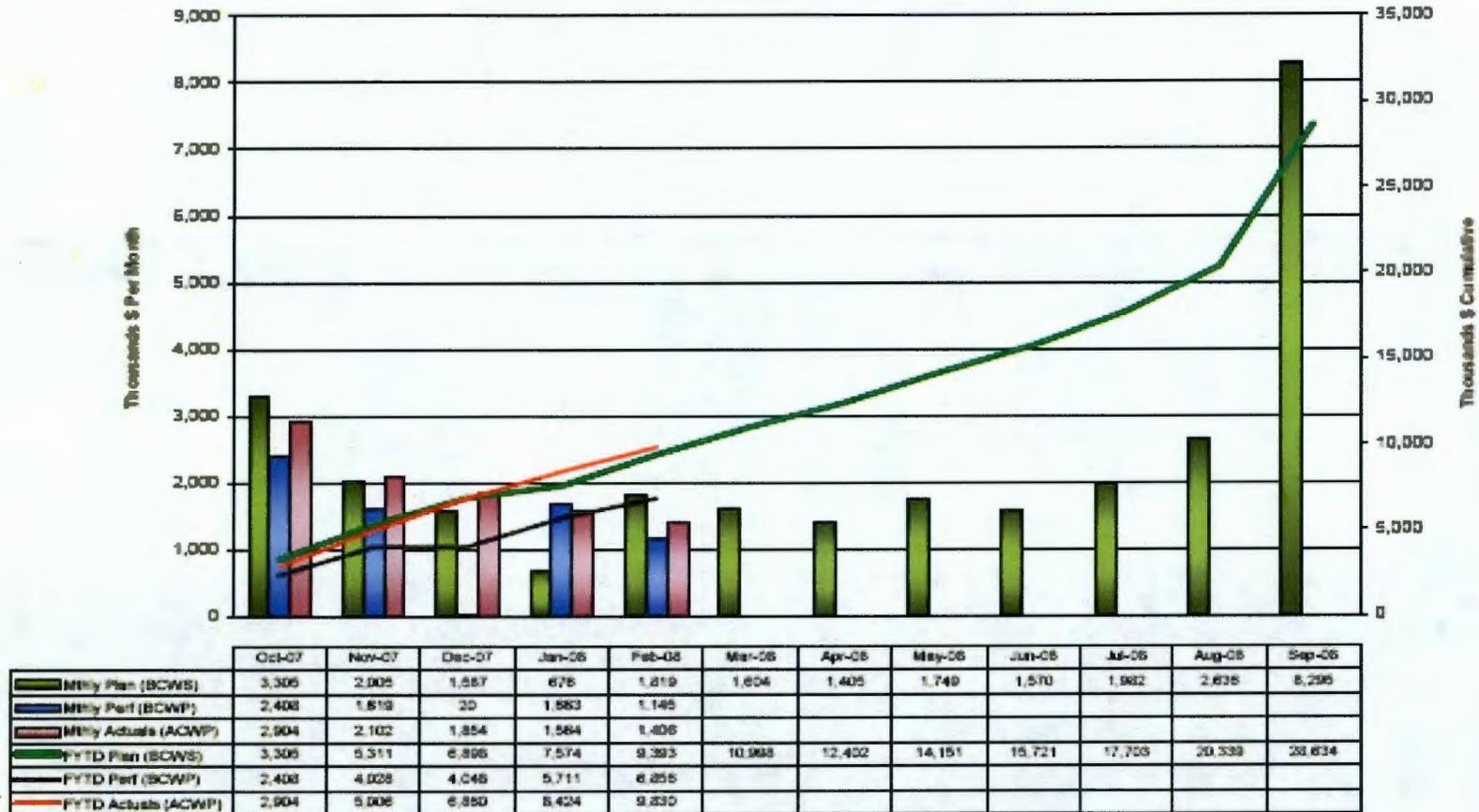
On March 24, 2008, an 80-foot tall Glass Former Silo was installed at the WTP. The silo, which will store and dispense silica during vitrification (glass-making) operations, weighs 78,100 lb and is the tallest of the 13 silos needed at the plant. To date, six silos have arrived and three have been installed. Each of the 13 silos will hold a different glass-forming material that will be dispensed to the WTP vitrification facilities in the proper combinations for each batch of glass.

On March 26, BNI Construction turned over a portion of the Fire Service Water Storage & Distribution System (FSW) to the Startup organization.

In the Chiller Compressor Plant, construction forces continue to run electrical conduit, install motor starters, small and large bore piping, and scheduled conduit, and to grout the air-dryer base frames. Crews have also grouted three air-dryer base frames with two remaining. Efforts to backfill the radiological waste transfer piping between the PT and HLW Facilities and to install rectifier foundations and temporary power for the cathodic protection system continue. The following table depicts near-term gatepost milestones for BOF.

Balance of Facilities	Milestone	Scheduled	Projected
	Issue Rack #5A Pipe Fab Isometrics	5/08	4/08
Complete LAW Melter Slab	6/08	1/08 A	
Deliver GFSF Bins, Silos and Steel	5/07	5/08	
Complete GFSF Silo/Tanks (17) Sets	12/07	5/08	

### BOF Fiscal Year 2007 to Date Performance October 2007 – September 2008 (\$ in thousands)



## Waste Treatment Plant Project - Percent Complete Status through February 2008

(Hrs - Thousands)	Overall Facility Percent Complete			Design/Engineering			Construction		
	Budget at Completion	Budgeted Cost of Work Performed	% Complete	Current Budget	Total Hours Earned to Date		Current Budget	Total Hours Earned to Date	
					Hours	% Complete		Hours	% Complete
Facilities									
Low-Activity Waste	5,591	3,089	55%	1,570	1,493	95%	2,275	1,215	53%
Analytical Lab	2,693	882	33%	478	432	90%	632	299	47%
Balance of Facilities	3,829	1,965	51%	775	595	77%	1,805	1,007	56%
High-Level Waste	9,772	3,672	38%	2,521	2,119	84%	5,240	1,157	22%
Pretreatment	15,009	5,594	37%	4,295	2,989	70%	8,138	2,027	25%
Plant Wide/Gen Services	42,434	19,399	46%	6,488	4,619	71%	5,367	2,253	42%
<b>Total WTP</b>	<b>79,328</b>	<b>34,601</b>	<b>44%</b>	<b>16,127</b>	<b>12,247</b>	<b>76%</b>	<b>23,458</b>	<b>7,959</b>	<b>34%</b>

**Source Data:**

WTP Contractor Contract Performance Report (CPR) , Engineering Progress & Performance Report (EPPR) and Quantity & Unit Rate Summary Report (QURR)

<b>WTP COMMODITY SUMMARY BY FACILITY</b>											
<b>Commodity</b>	<b>UOM</b>	<b>PT</b>		<b>HLW</b>		<b>LAW</b>		<b>LAB</b>		<b>BOF</b>	
		<b>Qty</b>	<b>Pct</b>								
Concrete	1000 CY	78.41	69.13%	46.94	53.56%	26.28	92.06%	11.64	93.66%	11.75	63.78%
Structural Steel	1 Ton	3,273	21.80%	631	6.58%	5,458	92.36%	1,680	97.67%	306	19.34%
Pipe	1000 LF	36.97	6.90%	3.45	2.11%	54.06	53.06%	10.12	27.70%	20.72	40.17%
Cable Tray	1000 LF	0.35	0.94%	1.20	3.34%	12.4	79.38%	0.28	10.25%	2.60	56.87%
Conduit	1000 LF	17.95	6.43%	14.70	6.59%	30.46	18.46%	0.96	1.89%	20.77	32.87%
Cable & Wire	1000 LF	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	196.79	29.16%

**Sign In Sheet**  
**Monthly Milestone Review Meeting**  
**April 22, 2008 - ORP**

NAME	ORG	MSIN	PHONE
Woody Russell	ORP		373-5277
Joe Voogd	ORP		373-4101
ROB PIIPPO	FHTPA		373-3285
JOHN LONG	ORP		376-5416
Bob Lobe	ORP		373-7849
Roger Quintero	ORP		373-0421
Becky Wilgman	PAC		373-9443
Jeanne Wallace	Ecology		372-7931
Nancy Dziemba	Ecology		372-7928
Corbin Babel	ORP		373-9281
Ed Fredenburg	ECY		372-7899
Pamela Logan	ORP		376-0445
Jeff Lyon	ECY		372-7914
Janet Diodice	ORP		372-3043
Felix Miera	CH2MHILL		376-7034
Robbie Biyani	ECY		372-7884
Brian Speer	ECY		372-7985
Tracy Gao	ECY		372-7901
Pete Furlong	ORP		438-0472
BRUCE NICOLL	ORP		438-0456
Gary Olsen	ORP		438-4707