

Office Of River Protection
Tri-Party Agreement Milestone Review
Meeting Minutes
May 17, 2007

Approval: *J. Hedges*
J. Hedges (H0-57)
Ecology LAMIT Representative, Chairperson

Date: 7/19/07

Approval: *Wendy Russell for*
J. R. Eschenberg/Z. Smith (H6-60)
DOE LAMIT Representative

Date: 7/19/07

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

Date: 19 July 07

Minutes Prepared by:

Sonja Moore for
R.E. Piippo (H8-12)
Fluor Hanford, Inc.

Date: 7-20-07

Abdul, Wahed*	ORP	H6-60	Nicoll, B.L.*	ORP	H6-60
Bilson, H.E.	FH	H8-20	Niles, K.	OOE	
Bohnee, G.	NPT		Noland, T.W.*	FH	H8-12
Caggiano, J.A.*	Ecology	H0-57	Noyes, D.L.*	ORP	H6-60
Ceto, N.*	EPA	B1-46	Olinger, S.J.	ORP	H6-60
Chalk, S.	RL	A7-75	Piippo, R.*	FH	H8-12
Cimon, S.*	ODE		Quintero, R.A.*	ORP	H6-60
Clark, D.L.*	ORP	H6-60	Russell, R.W.*	ORP	H6-60
Cusack, L.J.*	Ecology	H0-57	Sands, J.P.*	RL	A3-04
Dahl, S.L.*	Ecology	H0-57	Skinnarland, R.R.	Ecology	H0-57
Engelmann, R.H.*	FH	H8-12	Smith, T.Z.	ORP	H6-60
Eschenberg, J.R.	ORP	H6-60	Triplett, M.B.*	PNNL	K6-52
Fredenburg, E.A.	Ecology	H0-57	Uziemblo, N.H.	Ecology	H0-57
Furlong, P.T.*	ORP	H6-60	Vance, J.G.	FH	H8-12
Harp, B.J.*	ORP	H6-60	Voogd, J.A.	CH2M	H6-03
Harris, S.	CTUIR		Whalen, C.L.*	Ecology	H0-57
Hedges, J.*	Ecology	H0-57	Wiegman, S.A.	ORP	H6-60
Henry, D.	OOE		Wolf, A.	CTUIR	
Horst, L.	OOE		Administrative Record		H6-08
Huffman, L.A.*	ORP	H6-60			
Jackson, D.E.	RL	A4-52			
Jim, R.	Yakama				
Lober, R.W.*	ORP	H6-60			
Louie, C.S.	ORP	H6-60			
Long, J.D.*	ORP	H6-60			
Luke, J.J.*	CH2M	H6-03			
Lyon, J.J.*	Ecology	H0-57			

* Attendees

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**Office Of River Protection
Tri-Party Agreement Milestone Review
Meeting Minutes
May 17, 2007**

General Discussion

ORP distributed their 2nd Quarter 2007 TPA milestone review handout. The information in these minutes reflects discussion based on that handout.

Tank Farm Earned Value Reporting

ORP reviewed the earned value section of the presentation (beginning on page 18) focusing on the cost and schedule. The project has had significant efficiencies, accelerated activities, and has an overall positive schedule variance.

Ecology pointed out that the current baseline is not in compliance with what is in the TPA and wanted this noted in the minutes. EPA stated that it does not accept the project declaring that a favorable budget exists as the project is clearly missing several TPA milestones.

EPA stated that it is not useful for the project to status to contract compliance; ORP is required to track performance measured against the TPA milestones. There was considerable discussion regarding the presentation of cost and schedule information that aligns with the TPA requirements.

Action: The Parties will meet to come to an agreement on budget and schedule status reporting per TPA requirements.

Ecology asked how far behind the project is on their critical path. ORP stated the project does not have a critical path. Ecology stated the TPA milestone requires the project to have a critical path. EPA stated the project needs to determine how short of funding it is in order to meet its' TPA commitments. ORP believes that no amount of funding will get the project back on the current TPA milestone compliance schedule. EPA requested that the presentation show the shortage of money where applicable.

ORP noted that the upcoming TPA negotiations will define the project's priorities per the parties agreement on activities at risk.

M-045, -050, -058, and -060 Single Shell Tank Corrective Action

Characterization work in the field is continuing in three locations; samples have been obtained from two holes and it is expected U farm will be complete in July. M-045-56 is on schedule and work is going well.

The project is updating the website and waiting availability of information on C Farm to finish it. Ecology asked if a link existing as yet and ORP stated some of the information is OOU so it needs to be screened.

Action: ORP will provide a date when the website will be available and will investigate current access to information on C Farm.

M-045-58 – Ecology inquired about the status of the Change Request (CR) to this milestone (M-045-06-03). ORP stated that data gathering is in progress and integration with the RL Groundwater Program is occurring. Ecology stated that they do not believe the discussions on this CR are meeting Ecology's expectations. They are very frustrated that the June 30, 2007 due date will not be met. ORP stated they are working to the proposed date in the CR of May 31, 2009.

Ecology commented that ORP is requesting a CR to extend the due date of this milestone, and now they are declaring that date will be missed. Ecology also noted that it is past the 100 day notification date.

Ecology asked why the project has not initiated a TPA change request that is integrated with the M-015 major milestone series that was just approved. Ecology stated it was not acceptable for ORP to miss the M-045-55 milestone in January and the forthcoming M-045-58 and M-045-60 milestones due in June and September 2007.

ORP will notify their management of the regulators concerns. The M-045-55 milestone will be statused as missed and M-045-58 and -60 as unrecoverable. The project will continue to work on them. Ecology noted for the record that they emphasize the need for the project to finalize the M-045-06-03 change package.

SST Retrieval and Closure Program

ORP provided status on M-045-00 milestones. Ecology asked what the term "interim lay-up of C-200" means (under Planned Activities). ORP explained that it means cleaning the skids in C Farm and putting them in a condition so they will not degrade and can be re-deployed.

The C Farm retrieval schedule was reviewed. The C-103 Retrieval Data Report will be out in a few days; C-109 may be accelerated; C-110 will meet the schedule if approval of the TWRWP is received; C-104 and C-110 are above the baseline and being accelerated.

EPA asked if the contract and the baseline ever match up, and if so, when. ORP replied that they get synchronized through establishment of performance incentives for the contractor. ORP always challenges the contractor to strive to do more.

ORP continued to work with the regulators on past tank leak assessments. The document will be provided to the stakeholders and Ecology asking for concurrence. Ecology noted that in April they requested a copy of a recovery plan that ORP completed in November. ORP plans to respond to that letter and stated they will follow that recovery plan.

ORP pointed out a significant accomplishment in the completed retrieval of Tank 241-S-112 (see page 65 of the presentation). Ecology asked when they would be provided the package on this completion. ORP stated they do not have a date at this time as they are waiting on sample results, but they plan to send a letter on the completion of the retrieval.

ORP will be transmitting a final report on M-023-00, Tank Integrity and Monitoring, in the next few weeks.

Interim Stabilization Consent Decree

The S-102 tank is at 90% and retrieval is expected to begin this July.

In Tank Characterization and Summary

ORP noted that core sampling has been impacted by failure of the truck. The project is working hard to replace the truck and is purchasing sample trailers. It was noted by ORP that the completion of the SST Component Closure and Environmental Vapor Stack Sampling DQOs were completed early.

M-047-00, Complete Work Necessary to Support Acquisition and Phase 1 Operations of HLRW TSDs

ORP reported they consider TPA milestones M-047-02 and 04 complete; they continue to support Ecology inspections and are awaiting Ecology's concurrence the milestones are complete. Ecology noted they found a concern during an inspection and they are meeting with ORP to status it. ORP stated they are discussing an integrated project team assessment on the evaporator and Ecology is being informed of the results.

Ecology asked if the evaporator campaigns were going to be performed closer together. ORP stated the campaigns are slipping due to authorization basis issues and there may be a six to nine month impact. Their goal is to have sufficient space to support retrieval.

EPA asked what is the maximum number of evaporator runs per year. ORP stated they can perform only six to eight runs due to safety issues. EPA asked if the project could complete C Farm earlier than planned. ORP explained that, yes, they could get done quicker, but then they would lose the crew and experience they have and will have to start over with a new crew. Evaporator runs are not driving the schedule for retrieval.

M-048-00, DST Integrity Assessment Program

M-048-15 and M-048-00 are on schedule due to a tremendous concentration of work performed by staff. There was some rust in the annulus which impacted the schedule as they had to be recleaned. There was an investigation as to why the rust occurred.

M-090-00, Complete Acquisition of New Facilities, Modifications of Existing Facilities, and/or Modifications of Planned Facilities

M-090-10 – This is considered closed. The modification to the permit is out for public comment as of June 8, 2007. The completion of planting of sagebrush was a significant accomplishment.

Hanford Waste Treatment and Immobilization Plant (WTP) Project

The Low Activity Waste (LAW) and Analytical Laboratory (LAB) engineering is behind schedule. While Engineering discovered new work, ORP will not fund new work or allow it to be placed into the baseline. The design lacks drain lines on pipes that should have been discovered earlier.

Ecology asked if this puts the project behind schedule, and EPA asked if the contractor earns fee on the work to correct the lack of engineering. Ecology asked how far behind the project is per the baseline schedule. ORP stated that the project has contingency and this does not impact completion of the project. Construction is trying to accelerate but discovered the structural steel has a QA issue as it is not nuclear grade steel. The LAW melter lid needs thicker welds or the lid may warp.

Ecology asked why the BNI quality program did not discover this issue but ORP identified it. ORP agreed the BNI quality assurance program is a problem and noted the project now has a second quality control manager. ORP explained that the lack of experience with the suppliers on dealing with nuclear grade requirements appears to be the issue.

EPA stated the project should have an independent quality assurance program. ORP noted that HQ is hiring more QA staff and that they would provide the regulators with the status of this. Ecology asked what BNI is doing to catch these problems. ORP stated they have questioned BNI on the quality program concerns but have not received a response as yet.

ORP noted they have brought in an independent corrosion engineer, but the problem is getting structural steel and the floods in the east have impacted vendors. Ecology had requested a more detailed status of notes being used for the presentation.

Action: ORP will provide the regulators a copy of the status for the presentation.
(NOTE: This status is included as an Attachment to these meeting minutes.)

Pretreatment Facility

Engineering activities are ongoing, scoping tests on fusion test specifications are being performed and internal comments are being incorporated. The project is reviewing a worst case scenario on the Multiple Overblow (MOB) testing and simulating it to overblow. The project is performing no construction on this activity.

Ecology asked what the impact of performing no construction is to the schedule. ORP explained they were revising the engineering schedule to address all impacts. They need to change the design to add more pumps and nozzles and this is being incorporated into the schedule.

High Level Waste Vitrification Facility

The construction for this facility is being pushed to 2016. The joggle fabrication drawings have been prepared and the design is an ALARA issue. This is critical to the pipe hot cell to non hot cell to eliminate any radiation return. Training of staff is continuing. The permit modification is with the Attorney General.

Ecology noted they have received no information on the WTP budget and schedule from ORP. A previous action was established to provide this information into the presentation. Action: ORP will provide budget and schedule information into the presentation.

Office of River Protection

Tri-Party Agreement
Quarterly Milestone Review Meeting
May 17, 2007



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

2nd Quarter of FY 2007

Agenda

Office of River Protection
Tri-Party Agreement
Quarterly Milestone Review Meeting
Ecology Offices
May 17, 2007
9:00 a.m. – 12:00 p.m.

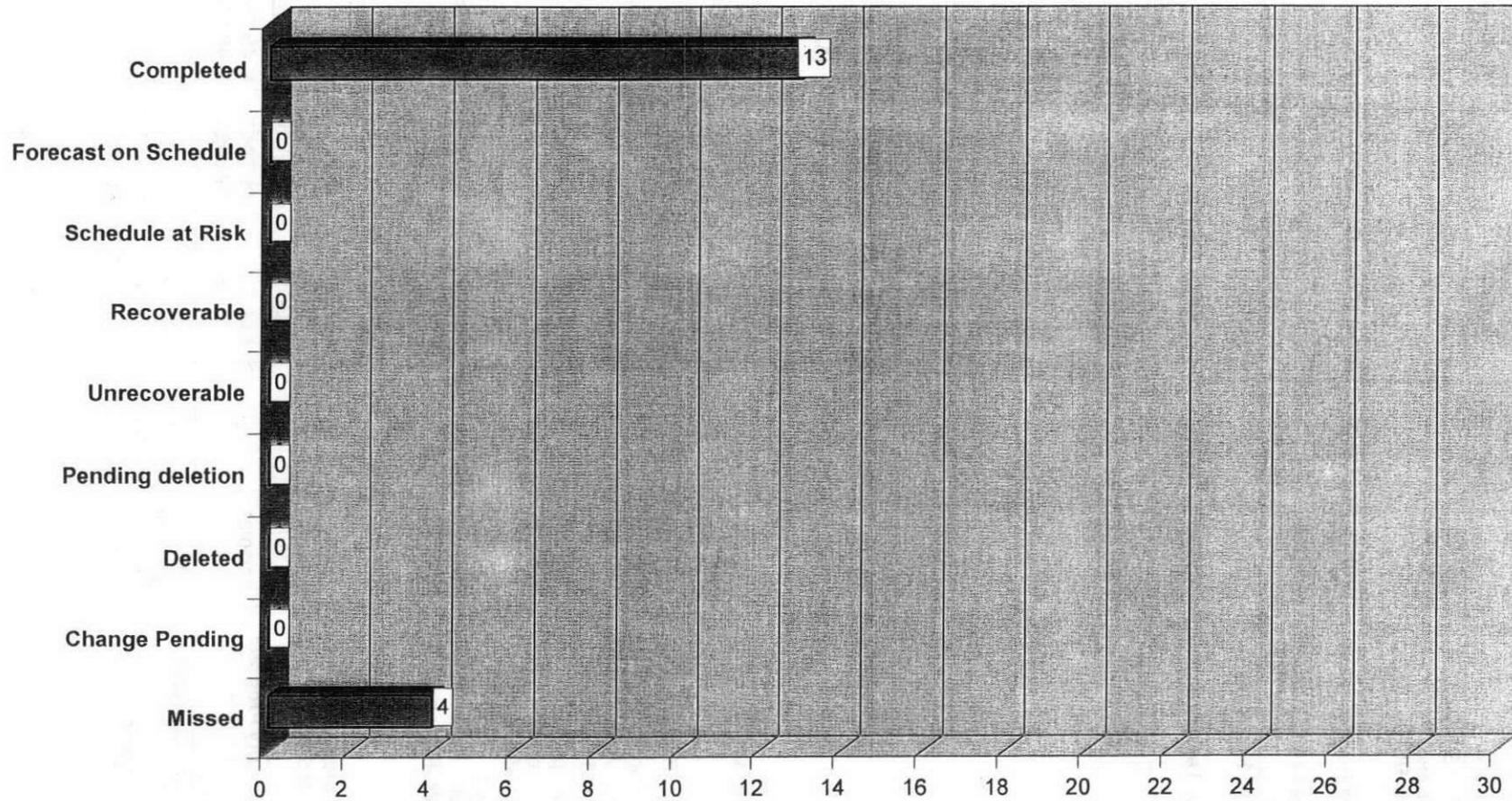
Page	Topic	Leads	Time
3 13	<ul style="list-style-type: none"> • TPA Milestone Statistics • FY 2006 ORP TPA Cost & Schedule Performance (CHG) 	Woody Russell / Diane Clark/ Suzanne Dahl / Jeff Lyon	9:00
54	M-45, -50, -60 Single-Shell Tank Corrective Action	Bob Lober / Joe Caggiano	9:10
57	M-45-00, Complete Closure of All Single-Shell Tank Farms	Roger Quintero / Jeff Lyon	9:30
67	Interim Stabilization Consent Decree	John Long / Nancy Uziemblo	10:00
68	M-23-00, Tank Integrity and Monitoring	John Long / Jeff Lyon	10:10
69	In Tank Characterization and Summary	John Long / Michael Barnes	10:20
71	M-47-00, Tank Waste Treatment, Storage and Disposal Facilities	Jim Thompson / Les Fort	10:30
73	M-48-00, DST Integrity Assessment Program	Cathy Louie / Les Fort	10:40
75	M-90-00, Complete Acquisition of Facilities for Interim Storage of IHLW and Storage/ Disposal of ILAW and M-20, Part B Permits	Cathy Louie / Bud Derrick	10:50
	BREAK		
77	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
88	M-62-08, M-62-11 Bulk Vitrification/Supplemental Technologies	Ben Harp/Suzanne Dahl	11:20

TPA Milestone Statistics

(Including target milestones)

Milestone	Due Date	Total Active as of 03/31/06	Milestone Number	Due Date	Milestone Number	Due Date
M-20-00, Submit Part B Permit Application on Closure/Post Closure Plans for all RCRA TSD Units	12/31/08 (M-20-00)	0				
M-23-25, Tank Integrity and Monitoring	03/31/05 (M-23-25)	0				
M-23-27, Complete 244-CR Liquid Level Assessment	12/30/04	0				
M-42-00, Provide Additional DST Capacity	TBD	1	M-42-00	TBD		
M-43-00, Complete Tank Farm Upgrades	06/30/05 (M-43-00)	0				
M-45-00, Complete Closure of all SST Farms	09/30/24 (M-45-00)	31	M-45-00 M-45-00B M-45-00C M-45-00D M-45-02 M-45-02N M-45-02O M-45-05 M-45-05A M-45-05-T05 M-45-05-T06 M-45-05-T07 M-45-05-T08 M-45-05-T09 M-45-05-T10 M-45-05-T11	09/30/24 09/30/06 09/30/06 01/31/08 TBD 03/01/08 03/01/10 09/30/18 03/31/07 09/30/07 09/30/08 09/30/09 09/30/10 09/30/11 09/30/12 09/30/13	M-45-05-T12 M-45-05-T13 M-45-05-T14 M-45-05-T15 M-45-06 M-45-06-T03 M-45-06-T04 M-45-13 M-45-15 M-45-55 M-45-56 M-45-58 M-45-59 M-45-60	09/30/14 09/30/15 09/30/16 09/30/17 09/30/24 03/31/12 03/31/14 12/31/07 12/31/07 01/31/07 TBD 06/30/07 TBD 09/30/07
M-47-00, Complete All Work for Phase 1 Operations	02/28/18 (M-47-00)	5	M-47-00 M-47-02 M-47-03A	02/28/18 03/31/09 03/31/09	M-47-04 M-47-06	03/31/09 06/30/10
M-50-00, Complete Pretreatment Processing of Hanford Tank Waste	12/31/28 (M-50-00)	1	M-50-00	12/31/28		
M-51-00, Complete Vitrification of Hanford High Level Tank Waste	12/31/28 (M-51-00)	1	M-51-00	12/31/28		
M-61-00* (alternate path), Complete Pretreatment & Immobilization of Hanford Low Activity Tank Waste	12/31/28 (M-61-00)	1	M-61-00	12/31/28		
M-62-00, Complete Pretreatment Processing and Vitrification of Tank Wastes	12/31/28 (M-62-00)	9	M-62-00 M-62-00A M-62-01M M-62-03	12/31/28 02/28/18 07/31/06 12/31/06	M-62-07B M-62-08 M-62-09 M-62-10 M-62-11	12/31/07 06/30/06 02/28/09 01/31/11 06/30/07
M-90-00, Interim Storage and Disposal of LAW and Interim Storage of HLW	TBD (M-90-00)	3	M-90-00 M-90-10 M-90-11	TBD 08/31/08 08/31/10		
M-48-00, DST Integrity Program, Submit Results of 4 DSTs not Previously Examined	09/30/07	4	M-48-00 M-48-15	09/30/07 09/30/07	M-48-07A M-48-07B	06/30/06 06/30/06
Interim Stabilization Consent Decree	09/30/04 (D-001-00)	1	D-001-00			
Total Active Milestones:		57				

FY 2006 MILESTONE PERFORMANCE



Fiscal Year 2006 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R26	DOE Shall, On A Quarterly Basis, Submit To Ecology A Written Report Documenting Tank Stabilization Activities That Occurred During The Period Covered By The Report. This Written Report Shall Provide The Status Of Progress Made During The Reporting Period.	10/31/05	10/31/05								
M-048-07A-A	Complete construction of the AZ-301 condensate return system and remove the AZ-151 catch tank system from service by October 31, 2005. This scheduled deliverable is a subset of M-48-07A, and thus labeled as M-48-07A-A.	10/31/05	10/31/05								
M-046-21	Complete Implementation Of Double Shell Tank Space Optimization Study Recommendations (Tank Space Options Report Document No. RPP-7702, April 12, 2001).	12/31/05	12/15/05								
M-062-01L	Submit Semi-Annual Project Compliance Report	01/31/06	01/31/06								
M-045-02M	Submit biennial update to SST retrieval sequence document (agreement Appendix I, Section 2.1.2), double shell tank space evaluation document and Ecology concurrence of additional tank acquisition.	3/1/06	3/13/06								
M-048-07A-B	Completion of construction for the 241-AP-106A central pump pit upgrade (remove existing equipment, evaluate pit integrity, and replace pit coating, if necessary. This scheduled deliverable is a subset of M-48-	3/31/06	3/30/06								

Fiscal Year 2006 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
	07A, and thus labeled as M-48-07A-B										
M-048-14	Submit Written Integrity Report For The Double-Shell Tank System	3/31/06	3/31/06								
M-047-05A	Complete startup and turnover activities for waste retrieval and mobilization systems for selected initial low-activity waste feed tank (other than AZ-101 or AZ-102).	4/30/06	02/2/05								
M-045-55-T04	Submit To Ecology For Review And Comment A Draft Field Investigation Report Combining The Results Of Field Investigations And Analysis For WMAs A-AX, C & U Pursuant To The Site-Specific SST WMA Phase 1 RFI/CMS Work Plan Addenda For WMA A-AX, C And U. As part of the Phase 2 Vadose Zone project renegotiations, being developed, this target milestone scope will be included in M-45-55 Phase 1 Rollup documentation due in 1/07. Project continues to complete field characterization activities per approved work plan, but will defer stand alone paper study for additional characterization during phase 1.	04/30/06						X			X
M-048-07A	Complete construction of the AZ-301 condensate return system and pit upgrades. This includes: 1) Complete construction of the AZ-301 condensate return system and remove the AZ-151 catch tank system from service [see M 45-07A-A]; 2) Complete construction of AP-106A Central Pump upgrade [M 48-07A-B]; and 3) complete	06/30/06	06/28/06								

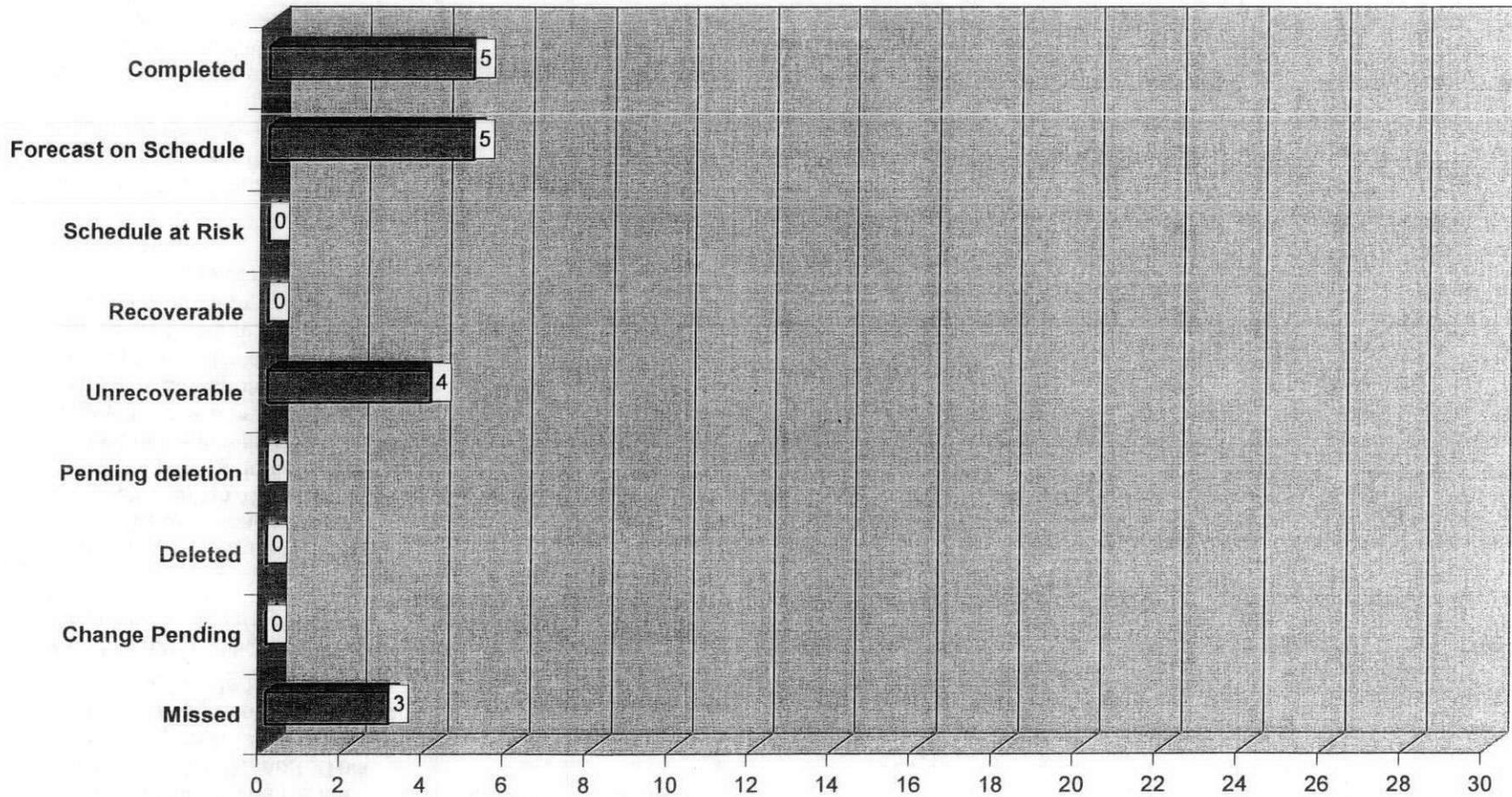
Fiscal Year 2006 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
	construction of SY-B Valve Pit upgrade [see M 48-07A-C].										
M-048-07A-C	Completion of construction for the 241-SY-B valve pit upgrade (remove existing equipment, evaluate pit integrity, and replace pit coating, if necessary). This scheduled deliverable is a subset of M-48-07A, and thus labeled as M-48-07A-C.	06/30/06	06/08/06								
M-048-07B	The Disposition of all Double-Shell Tank Transfer System Components that will not remain in use beyond June 30, 2005.	06/30/06	6/27/06								
M-062-08	Submittal Of Hanford Tank Waste Supplemental Treatment Technologies Report, Draft Hanford Tank Waste Treatment Baseline, And Draft Negotiations Agreement In Principle (AIP).	06/3/06						X			
M-045-56B	Ecology and DOE agree, at a minimum, to meet yearly (by July or as needed to support annual budgeting) for the specific purpose of assessing the adequacy of information, and the need for the establishment of additional agreement interim measures.	07/01/06	09/05/06								
M-062-01M	Submit Semi-Annual Project Compliance Report	07/31/06	07/31/06								
M-045-00B	Complete specified "near term" SST waste retrieval and interim closure activities, to result in the retrieval of all tank wastes in WMA-C SSTs pursuant to the agreement criteria in milestone M-45-00.	09/30/06						X			
M-045-00C	Initiate negotiation of SST waste retrieval and closure activities and associated schedules (for the	09/30/06						X			

Fiscal Year 2006 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
	period February 07 through August 08).										

FY 2007 MILESTONE PERFORMANCE



Fiscal Year 2007 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	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								
M-045-55	Submit to Ecology For Review And Approval as an Agreement Primary Document a Phase I RFI Report integrating results of data gathering activities and evaluations for all SST WMAs.	01/31/07						X			X
D-001-00-R31	DOE Shall, On A Quarterly Basis, Submit To Ecology A Written Report Documenting Tank Stabilization Activities That Occurred During The Period	01/31/07	01/31/07								

Fiscal Year 2007 Tri-Party Agreement Milestone Status

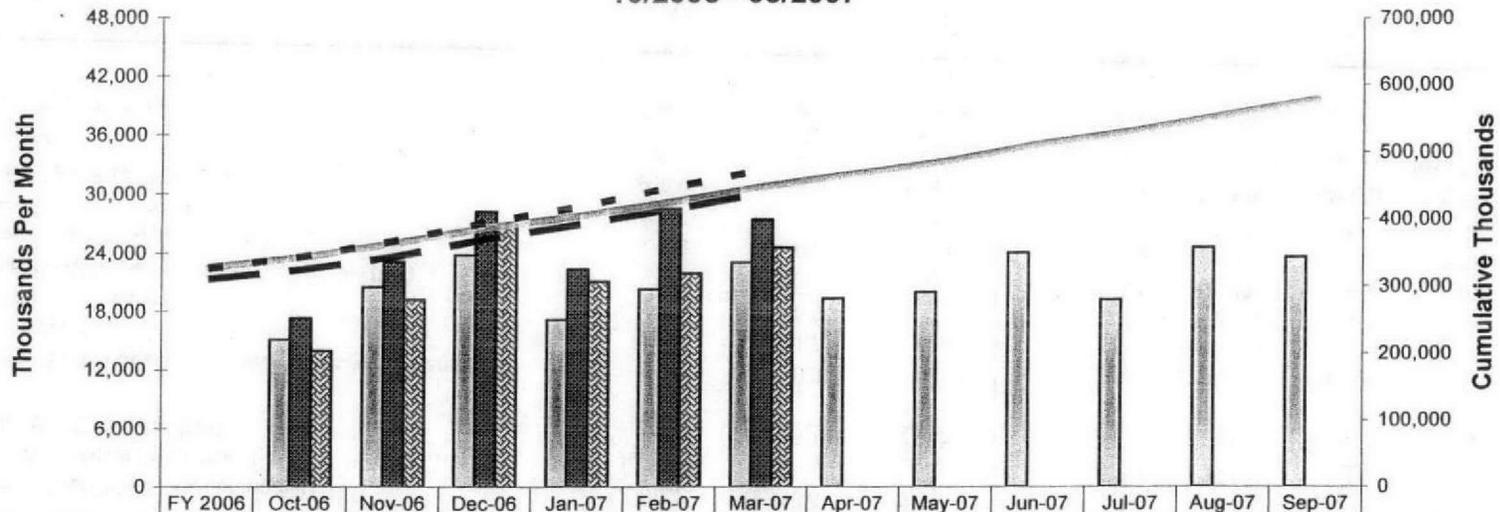
Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
	Covered By The Report. This Written Report Shall Provide The Status Of Progress Made During The Reporting Period.										
M-045-05A	Complete Waste Retrieval from S-102	3/31/07						X			
D-001-00-R32	DOE Shall, On A Quarterly Basis, Submit To Ecology A Written Report Documenting Tank Stabilization Activities That Occurred During The Period Covered By The Report. This Written Report Shall Provide The Status Of Progress Made During The Reporting Period.	04/30/07	04/27/07								
M-045-58	Submit to Ecology for review and approval as an Agreement Primary Document a corrective measures study for interim corrective measures (pending results and conclusions in the Phase 1 RFI report- Milestone M-45-55 or subsequent RFI reports).	06/30/07					X				X
M-062-11	Submit a Final Hanford Tank Waste Treatment Baseline. Following completion of negotiations required by M-62-08, DOE will modify its draft baseline as required and submit its revised, agreed-to baseline for treating all Hanford Tank Waste (HLW, LAW, and TRU) by 12/31/2028.	06/30/07					X				
M-045-56C	Ecology and DOE agree, at a minimum, to meet yearly (by July or as needed to support annual budgeting) for the specific purpose of assessing the adequacy of	07/01/07		X							

Fiscal Year 2007 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
	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		X							
M-062-010	Submit Semi-Annual Project Compliance Report	07/31/07		X							
M-045-60	Submit to Ecology for review and approval as an Agreement Primary Document DOE's RFI/CMS work plan for all SST WMAs.	09/30/07					X				X
M-048-15	Submit a report to Ecology for the re-examination of six (6) DSTs by ultrasonic testing in all areas previously examined to provide comparative data from which to calculate corrosion rates in each of the six DSTs examined.	09/30/07		X							
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		X							

CURRENT MONTH/CONTRACT TO-DATE PERFORMANCE – GRAPH

CH2M HILL CTD Performance (\$000)
10/2005 - 03/2007



	FY 2006	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07
Mthly Plan (BCWS)	0	15,128	20,472	23,767	17,166	20,273	23,002	19,315	19,963	24,005	19,182	24,538	23,542
Mthly Perf (BCWP)	0	17,306	23,051	28,161	22,301	28,455	27,319						
Mthly Actuals (ACWP)	0	13,947	19,194	26,739	21,044	21,870	24,530						
CTD Plan (BCWS)	328,060	343,187	363,659	387,427	404,592	424,865	447,826	467,182	487,145	511,150	530,332	554,870	578,412
CTD Perf (BCWP)	326,127	343,433	366,484	394,645	416,946	445,401	472,720						
CTD Actuals (ACWP)	310,197	324,145	343,338	370,078	391,122	412,992	437,522						

BCWS = Budgeted Cost For Work Scheduled

BCWP = Budgeted Cost for Work Performed

ACWP = Actual Cost for Work Perform

CURRENT MONTH (CM) PERFORMANCE - CHART

CURRENT MONTH PERFORMANCE MEASUREMENT - 03/2007
BY WORK BREAKDOWN STRUCTURE
Dollars in Thousands

WBS	TITLE	Current Month						
		Budgeted Cost			Variance			
		Work Scheduled ¹	Work Performed	Actual Cost Work Performed	Schedule	SV %	Cost	CV %
5.07	BASE OPERATIONS - Excluding 5.07.02	12,662.2	12,743.8	10,357.3	81.6	0.6%	2,386.5	18.7%
5.07.02	Env/TPA Milestone Achievement	<u>1,466.9</u>	<u>1,889.4</u>	<u>1,678.3</u>	<u>422.4</u>	28.8%	<u>211.0</u>	11.2%
	TOTAL BASE OPERATIONS	<u>14,129.1</u>	<u>14,633.1</u>	<u>12,035.6</u>	<u>504.0</u>	3.6%	<u>2,597.6</u>	17.8%
5.08	RETRIEVE AND CLOSE - Excluding foll. WBS Elements	0.0	0.0	31.4	0.0	0.0%	(31.4)	-31.4%
5.08.02	WTP Feed Delivery Program	691.7	691.7	619.0	(0.1)	0.0%	72.7	10.5%
5.08.03	DST Retrieval Program	0.0	0.0	(5.4)	0.0	0.0%	5.4	5.4%
5.08.04.01	Tank Farm Restoration and Safe Operations (W-314)	0.0	323.1	352.3	323.1	323.1%	(29.2)	-9.0%
5.08.04.02	Upgrade Transfer System (E-525)	0.0	0.0	0.0	0.0	0.0%	0.0	0.0%
5.08.05	Retrieval / Closure Program	4,498.6	4,242.1	4,206.9	(256.5)	-5.7%	35.3	0.8%
5.08.06/.07	SST Retrieval East / West Area	968.0	2,958.1	3,229.5	1,990.2	205.6%	(271.3)	-9.2%
5.08.12/.13	SST Closure	<u>30.4</u>	<u>30.4</u>	<u>(290.2)</u>	<u>0.0</u>	0.0%	<u>320.6</u>	1055.5%
	TOTAL RETRIEVE AND CLOSE	<u>6,188.7</u>	<u>8,245.4</u>	<u>8,143.4</u>	<u>2,056.7</u>	33.2%	<u>102.0</u>	1.2%
5.09	TREAT AND DISPOSE WASTE - Excl. foll. WBS Elements	378.5	456.6	515.1	78.1	20.6%	(58.5)	-12.8%
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	67.5	67.4	78.9	(0.1)	-0.2%	(11.5)	-17.1%
5.09.02.05/.11	Bulk Vitrification System (BVS) Project	0.0	1,883.2	1,323.0	1,883.2	1883.2%	560.2	29.7%
5.09.03.01	Integrated Disposal Facility	0.0	0.0	(14.5)	0.0	0.0%	14.5	14.5%
5.09.03.04	Initial IHLW Storage Facility (W-464)	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	0.0%	<u>0.0</u>	0.0%
	TOTAL TREAT AND DISPOSE WASTE	<u>446.0</u>	<u>2,407.2</u>	<u>1,902.6</u>	<u>1,961.2</u>	439.7%	<u>504.6</u>	21.0%
5.10	ANALYTICAL/TECHNICAL SERVICES	<u>2,238.0</u>	<u>2,032.7</u>	<u>2,448.1</u>	<u>(205.3)</u>	-9.2%	<u>(415.4)</u>	-20.4%
TFC TOTAL		<u>23,001.8</u>	<u>27,318.5</u>	<u>24,529.6</u>	<u>4,316.6</u>	18.8%	<u>2,788.7</u>	10.2%

¹ A difference of \$121.4K exists between the BCWS in this chart (HANDI values) and w/sight, due to adjustments to some FY 2006 activities that were not accounted for in HANDI. The HANDI adjustments will be made in April.

BCWS = Budgeted Cost For Work Scheduled

BCWP = Budgeted Cost for Work Performed

ACWP = Actual Cost for Work Perform

CONTRACT-TO-DATE PERFORMANCE - CHART

CH2M HILL Hanford Group, Inc. CONTRACT-TO-DATE PERFORMANCE MEASUREMENT - 10/2005 - 03/2007 BY WORK BREAKDOWN STRUCTURE Dollars in Thousands

WBS	TITLE	Budgeted Cost			Cumulative Contract-To-Date				Budget at Completion (BAC)*	Estimate at Completion (EAC)**
		Work Scheduled ¹	Work Performed	Actual Cost Work Performed	Variance					
					Schedule	SV %	Cost	CV %		
5.07	BASE OPERATIONS - Excluding 5.07.02	219,611.5	220,307.4	203,488.1	695.8	0.3%	16,819.3	7.6%	427,882.6	405,082.4
5.07.02	Env/TPA Milestone Achievement	<u>26,719.1</u>	<u>29,859.5</u>	<u>28,527.2</u>	<u>3,140.4</u>	11.8%	<u>1,332.2</u>	4.5%	<u>49,280.8</u>	<u>52,765.7</u>
	TOTAL BASE OPERATIONS	<u>246,330.6</u>	<u>250,166.8</u>	<u>232,015.3</u>	<u>3,836.2</u>	1.6%	<u>18,151.5</u>	7.3%	<u>477,163.4</u>	<u>457,848.1</u>
5.08	RETRIEVE AND CLOSE - Excluding foll. WBS Elements	0.0	0.0	134.1	0.0	0.0%	(134.1)	-134.1%	0.0	254.8
5.08.02	WTP Feed Delivery Program	10,807.4	10,807.4	9,637.4	0.0	0.0%	1,170.0	10.8%	22,019.8	20,486.2
5.08.03	DST Retrieval Program	1,676.3	1,676.3	2,148.0	0.0	0.0%	(471.7)	-28.1%	1,676.3	2,148.0
5.08.04.01	Tank Farm Restoration and Safe Operations (W-314)	2,865.8	4,433.0	4,464.5	1,567.3	54.7%	(31.5)	-0.7%	2,865.8	10,862.8
5.08.04.02	Upgrade Transfer System (E-525)	2,712.4	2,712.4	2,982.8	0.0	0.0%	(270.4)	-10.0%	2,712.4	2,982.8
5.08.05	Retrieval / Closure Program	74,671.9	73,454.5	66,108.6	(1,217.5)	-1.6%	7,345.9	10.0%	147,167.8	140,957.0
5.08.06/.07	SST Retrieval East / West Area	33,764.9	47,745.4	40,721.6	13,980.5	41.4%	7,023.8	14.7%	53,309.2	92,188.9
5.08.12/.13	SST Closure	<u>609.4</u>	<u>608.6</u>	<u>571.9</u>	<u>(0.8)</u>	-0.1%	<u>36.8</u>	6.0%	<u>1,101.8</u>	<u>1,037.1</u>
	TOTAL RETRIEVE AND CLOSE	<u>127,108.1</u>	<u>141,437.6</u>	<u>126,768.9</u>	<u>14,329.5</u>	11.3%	<u>14,668.7</u>	10.4%	<u>230,853.0</u>	<u>270,917.6</u>
5.09	TREAT AND DISPOSE WASTE - Excl. foll. WBS Elements	6,281.7	6,185.7	5,463.7	(96.1)	-1.5%	722.0	11.7%	13,984.0	12,406.0
5.09.02.02	TRU / LLW Packaging	0.0	0.0	65.6	0.0	0.0%	(65.6)	-65.6%	0.0	65.6
5.09.02.03/.08	LAW Treatment	1,053.0	1,053.0	1,016.4	0.0	0.0%	36.6	3.5%	2,150.2	2,055.2
5.09.02.05/.11	Bulk Vitrification System (BVS) Project	26,639.2	33,738.8	35,146.0	7,099.6	26.7%	(1,407.2)	-4.2%	26,639.2	42,375.9
5.09.03.01	Integrated Disposal Facility	7,132.9	7,132.9	5,402.4	0.0	0.0%	1,730.5	24.3%	7,132.9	5,402.4
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>35.1</u>
	TOTAL TREAT AND DISPOSE WASTE	<u>41,216.3</u>	<u>48,219.8</u>	<u>47,129.2</u>	<u>7,003.5</u>	17.0%	<u>1,090.6</u>	2.3%	<u>50,015.7</u>	<u>62,340.2</u>
5.10	ANALYTICAL/TECHNICAL SERVICES	<u>33,170.9</u>	<u>32,895.4</u>	<u>31,608.2</u>	<u>(275.5)</u>	-0.8%	<u>1,287.2</u>	3.9%	<u>66,823.4</u>	<u>70,195.4</u>
TFC TOTAL		<u>447,825.9</u>	<u>472,719.6</u>	<u>437,521.7</u>	<u>24,893.7</u>	<u>5.6%</u>	<u>35,198.0</u>	<u>7.4%</u>	<u>824,855.5</u>	<u>861,301.3</u>

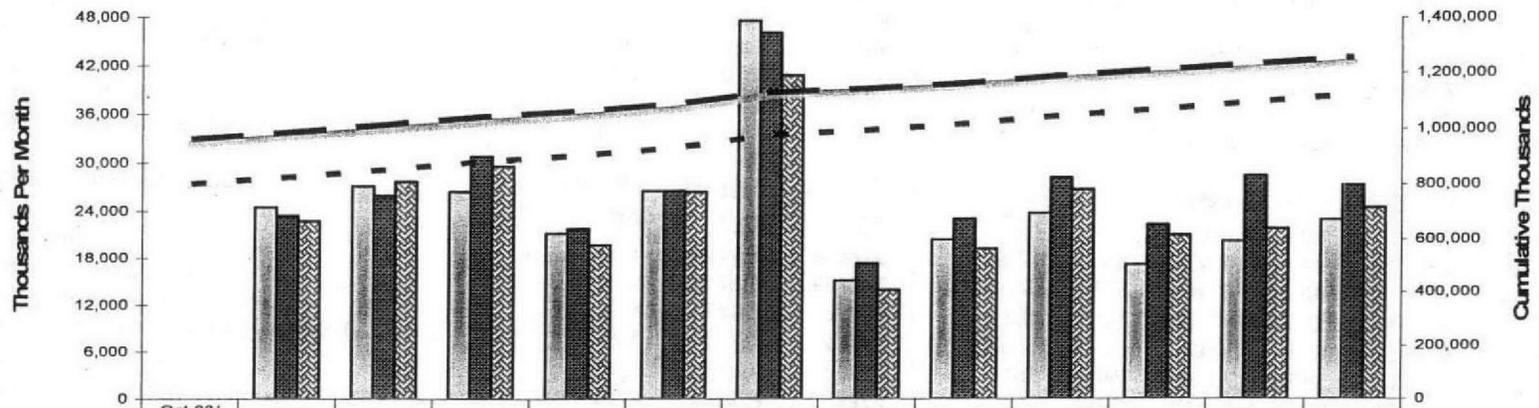
* BAC on this chart and in succeeding Cumulative Performance tables is for the period FY 2006 - FY 2008.

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

¹ A difference of \$121.4K exists between the BCWS in this chart (HANDI values) and w/sight, due to adjustments to some FY 2006 activities that were not accounted for in HANDI. The HANDI adjustments will be made in April.

PROGRAM-TO-DATE (PTD) Performance - Graph

CH2M HILL PTD Performance (\$000)
10/2003 - 03/2007



	Oct-03/ Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07
Mthly Plan (BCWS)	0	24,455	27,108	26,496	21,223	26,536	47,567	15,128	20,472	23,767	17,166	20,273	23,002
Mthly Perf (BCWP)	0	23,403	25,963	30,804	21,777	26,593	46,034	17,306	23,051	28,161	22,301	28,455	27,319
Mthly Actuals (ACWP)	0	22,753	27,686	29,617	19,688	26,411	40,767	13,947	19,194	26,739	21,044	21,870	24,530
PTD Plan (BCWS)	942,501	966,956	994,064	1,020,560	1,041,783	1,068,319	1,115,886	1,131,014	1,151,486	1,175,253	1,192,419	1,212,692	1,235,694
PTD Perf (BCWP)	799,545	822,948	848,911	879,715	901,493	928,085	974,119	991,425	1,014,476	1,042,637	1,064,938	1,093,393	1,120,712
PTD Actuals (ACWP)	959,852	982,605	1,010,291	1,039,908	1,059,597	1,086,008	1,126,775	1,140,722	1,159,916	1,186,655	1,207,700	1,229,569	1,254,099

BCWS = Budgeted Cost For Work Scheduled

BCWP = Budgeted Cost for Work Performed

ACWP = Actual Cost for Work Perform

PTD Cost/Schedule Performance - Chart

CH2M HILL Hanford Group, Inc.
 CUMULATIVE PERFORMANCE MEASUREMENT - 10/2003 - 03/2007
 BY WORK BREAKDOWN STRUCTURE
 Dollars in Thousands

WBS	TITLE	Cumulative Program-To-Date								
		Budgeted Cost			Actual Cost Work Performed	Variance				Budget at Completion (BAC) *
		Work Scheduled	Work Performed	Schedule		SV %	Cost	CV %		
5.07	BASE OPERATIONS - Excluding 5.07.02	479,940.5	477,254.7	475,110.1	(2,685.8)	-0.6%	2,144.6	0.4%	687,649.6	
5.07.02	Env/TPA Milestone Achievement	84,876.0	79,075.7	69,037.2	(5,600.3)	-6.6%	10,038.5	12.7%	107,237.7	
	TOTAL BASE OPERATIONS	564,616.5	556,330.4	544,147.3	(8,286.1)	-1.5%	12,183.1	2.2%	794,887.3	
5.08	RETRIEVE AND CLOSE - Excluding foll. WBS elements	6,785.7	6,939.5	4,231.9	153.8	2.3%	2,707.6	39.0%	6,785.7	
5.08.02	WTP Feed Delivery Program	32,252.4	32,086.9	40,389.0	(165.5)	-0.5%	(8,302.1)	-25.9%	43,464.8	
5.08.03	DST Retrieval Program	30,547.2	21,461.0	25,568.1	(9,086.2)	-29.7%	(4,107.1)	-19.1%	30,547.2	
5.08.04.01	Tank Farm Restoration and Safe Operations (W-314)	37,633.4	36,035.9	43,027.9	(1,597.5)	-4.2%	(6,992.0)	-19.4%	37,633.4	
5.08.04.02	Upgrade Transfer System (E-525)	17,307.8	14,165.1	26,709.8	(3,142.7)	-18.2%	(12,544.7)	-88.6%	17,307.8	
5.08.05	Retrieval / Closure Program	164,900.6	153,271.2	166,135.4	(11,629.4)	-7.1%	(12,864.2)	-8.4%	237,396.4	
5.08.06/07	SST Retrieval East / West Area	127,389.0	86,562.5	156,836.5	(40,826.5)	-32.0%	(70,274.0)	-81.2%	146,933.5	
5.08.12/13	SST Closure	17,273.5	7,411.8	10,849.4	(9,861.7)	-57.1%	(3,437.6)	-46.4%	17,765.9	
	TOTAL RETRIEVE AND CLOSE	434,089.6	357,933.9	473,748.0	(76,155.7)	-17.5%	(115,814.1)	-32.4%	537,834.7	
5.09	TREAT AND DISPOSE WASTE - Excl. foll. WBS Elements	28,387.9	25,529.4	20,180.0	(2,858.5)	-10.1%	5,349.4	21.0%	37,805.2	
5.09.02.02	TRU / LLW Packaging	28,343.4	11,695.5	19,883.5	(16,647.9)	-58.7%	(8,188.0)	-70.0%	28,343.4	
5.09.02.03/08	LAW Treatment	5,702.3	5,547.0	5,807.7	(155.3)	-2.7%	(260.7)	-4.7%	5,409.9	
5.09.02.05/11	Bulk Vitrification System (BVS) Project	58,842.4	54,441.3	92,369.4	(4,401.1)	-7.5%	(37,928.1)	-69.7%	58,842.4	
5.09.03.01	Integrated Disposal Facility	33,911.0	29,670.8	20,743.7	(4,240.2)	-12.5%	8,927.1	30.1%	33,993.8	
5.09.03.04	Initial IHLW Storage Facility (W-464)	4,789.3	4,553.4	2,673.2	(235.9)	-4.9%	1,880.2	41.3%	4,789.3	
	TOTAL TREAT AND DISPOSE WASTE	159,976.3	131,437.4	161,657.5	(28,538.9)	-17.8%	(30,220.1)	-23.0%	169,184.0	
5.10	ANALYTICAL/TECHNICAL SERVICES	77,011.3	75,010.2	74,546.4	(2,001.1)	-2.6%	463.7	0.6%	110,663.8	
RPP TOTAL		1,235,693.5	1,120,711.9	1,254,099.1	(114,981.6)	-9.3%	(133,387.2)	-11.9%	1,612,569.8	

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

EXECUTIVE SUMMARY

ON

TANK FARM EARNED VALUE REPORTING

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

During March, CH2M HILL's contract-to-date (CTD) favorable cost variance increased by \$2.8M to \$35.2M. The increase in the current month is primarily due to Site Wide/Shared Services, DBVS, and waste transfers. Contract-to-date reporting represents the period FY 2006 through FY 2008. The primary contributors to the CTD positive variance were: Chief Financial Officer (CFO) - Business Services due to pass backs for over liquidation of continuity of service; CFO-Site Services due to reduced costs plus a lower allocation percentage for shared services; S-100 Tanks due to significant performance being reported against planned retrieval systems, at a less-than-estimated cost; C-100 Tanks due to efficiencies on Tank 241-C-108 as a result of prior retrieval experience; and Waste Feed Operations (WFO) Base Operations due to efficiencies realized in performing DST to DST transfers and SY-PPP Line Replacement. These positive cost variances are partially offset by negative variances: Advanced Technologies and Laboratories International, Inc. (ATL) Readiness to Serve costs in excess of actual laboratory analysis requirements; DBVS' additional labor and subcontract support required for the extended AMEC design effort completed in FY 2006; Safety Program due to the Environmental Health Program and its incremental costs for vapor sample analysis in FY 2006; Double-Shell Tank (DST) Space Management Project due to delays and rework required to modify and fit-up the AP slurry line jumpers; and Project W-211 due to closeout costs on discontinued AN-101 mixer pump design.

The CH2M HILL favorable CTD schedule variance increased in March by \$4.4M to \$25.0M. The increase in the current month is primarily due to acceleration of DBVS activities, Tanks 241-S-102, 241-C-109, and 241-C-104 retrieval, Project W-314, and waste transfers. The CTD variance is primarily due to acceleration of Tanks 241-S-102,

241-C-108 and 241-C-109; completion of DBVS work in FY 2007 supporting the Expert Review Panel issue resolution planned for performance in FY 2009; WFO Base operations due to accelerated tank to tank transfers and SY-PPP Line Replacement; and W-314 Project due to Phase 2 SY and AW Upgrades accelerated scope.

5.07 - BASE OPERATIONS (EXCLUDES 5.07.02)

Scope Description: The baseline scope for this work breakdown structure (WBS) includes monitoring and maintaining the DST and equipment in compliance with Technical Safety Requirements, and Environmental, Safety, Health and Quality programmatic requirements. This 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, contract fee for completing PBI is included. Note: Fee for FY 2007 is not included.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	12,662.2	12,743.8	10,357.3	81.6 0.6%	2,386.5 18.7%	
CTD	219,611.5	220,307.4	203,488.1	695.8 0.3%	16,819.3 7.6%	427,882.6
PTD	479,940.5	477,254.7	475,110.1	(2,685.8) -0.6%	2,144.6 0.4%	687,649.6

SCHEDULE VARIANCE

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

Impact: None. A revised Tank Farm Contract has been issued with new PBI milestones. Previous PBI milestones have been closed, completed, or covered in a Request for Equitable Adjustment.

Corrective Action: None required.

COST VARIANCE

Description and Cause: The CM favorable variance is due to efficiencies in Essential Site Wide /Shared Services resulting in actual costs for services being less than the baseline estimates. Additionally, Tank Chemistry Control's contract support is charging at a slower burn rate than anticipated during the first half of the year, however, the favorable CV will begin to decline as work will be ramping up during the last half of the year. The CTD and PTD favorable variances are due to receipt of FY 2006 year-end

cost pass backs for continuity of service and to moving spare parts inventory from this cost account to Operations accounts. Additionally, costs are lower than planned for Site-Wide Shared Services, Advanced Medical Services, Business and Occupation taxes, expenses related to site layoffs, work for others, and Project support costs. The favorable variance is partially offset by higher than planned costs for the Environmental Health Program sampling activity and the Readiness to Serve adder from ATL, WFO surveillance, and the Tank 241-AN-107 Chemistry Optimization activity.

Impact: None.

Corrective Action: None required.

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 SST and DSTs and approximately 60 miscellaneous underground storage tanks (MUST). This includes monitoring and maintaining activities associated with the Hanford Federal Facility Agreement and Consent Order (HFFACO), commonly referred to as the Tri-Party Agreement. Scope includes compliance efforts to meet Tri-Party Agreement Milestones M-23, M-46, and M-48, including characterization, DST Space Management and DST Integrity. Scope includes transfer operations and the operations and maintenance of the 242-A Evaporator to reduce the volume of waste stored in DSTs.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	1,466.9	1,889.4	1,678.3	422.4 28.8%	211.0 11.2%	
CTD	26,719.1	29,859.5	28,527.2	3,140.4 11.8%	1,332.2 4.5%	49,280.8
PTD	84,676.0	79,075.7	69,037.2	(5,600.3) -6.6%	10,038.5 12.7%	107,237.7

SCHEDULE VARIANCE

Description and Cause: The CM and CTD variances are due to early performance of DST to DST Transfers, Cross-Site Transfers, and Evaporator Upgrades. The CTD variance is also caused by acceleration of work scope for SY-PPP Line Replacement. The PTD unfavorable variance is due to deferral of certain DST Infrastructure and Tank Farm Upgrades activities; delays in DST UT activities caused by vapor mitigation activities and the need to rescan two DSTs; and vendor-experienced software problems.

Impact: The PTD unfavorable variance has resulted in some DST Infrastructure and Tank Farm Upgrades activities being delayed.

Corrective Action: FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been

replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

COST VARIANCE

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

Impact: None.

Corrective Action: None required.

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

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

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	0.0	0.0	31.4	0.0 0.0%	(41.2) -41.2%	
CTD	0.0	0.0	134.1	0.0 0.0%	(134.1) -134.1%	0.0
PTD	6,785.7	6,939.5	4,231.9	153.8 2.3%	2,707.6 39.0%	6,785.7

SCHEDULE VARIANCE

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

Impact: No impact.

Corrective Action: None required.

COST VARIANCE

Description and Cause: The CM and CTD unfavorable cost variances are due to costs which have been incurred against accelerated work scope, for which CH2M HILL received a letter of direction from the ORP to proceed with this work. A BCR is pending the ORP's approval which will add the BCWS to the baseline. The favorable PTD variance is due to Interim Stabilization activities, which were completed under the estimated cost, but is partially offset by the AP-101 Transfer Pump Replacement, where

costs were in excess of baseline estimates due to vapor mitigation activities and the use of significant amount of overtime.

Impact: No impact.

Corrective Action: A BCR is in the approval process which will allow for the recording of budget and performance.

5.08.02 - WASTE TREATMENT PLANT (WTP) FEED DELIVERY PROGRAM

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

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	691.7	691.7	619.0	(0.1) 0.0%	72.7 10.5%	
CTD	10,807.4	10,807.4	9,637.4	0.0 0.0%	1,170.0 10.8%	22,019.8
PTD	32,252.4	32,086.9	40,389.0	(165.6) -0.5%	(8,302.1) -25.9%	43,464.8

SCHEDULE VARIANCE

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

Impact: No impact.

Corrective Action: None required.

COST VARIANCE

Description and Cause: The CM and CTD favorable variances are due to labor efficiencies primarily in project staff to support the Project Delivery Management team. The PTD unfavorable cost variance is due to greater than planned costs for support of vapor mitigation activities.

Impact: Increased PTD costs are impacting the ability to complete all planned baseline scope.

Corrective Action: FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

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	(5.4)	0.0 0.0%	5.4 5.4%	
CTD	1,676.3	1,676.3	2,148.0	0.0 0.0%	(471.7) -28.1%	1,676.3
PTD	30,547.2	21,461.0	25,568.1	(9,086.2) -29.7%	(4,107.1) -19.1%	30,547.2

SCHEDULE VARIANCE

Description and Cause: The PTD unfavorable variance is a result of deferring the Tanks 241-AY-101, 241-AY-102, and 241-AZ-102 Retrieval Systems, and start-up of the Tank 241-AN-101 Retrieval System to future years.

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

Corrective Action: FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

COST VARIANCE

Description and Cause: The CM variance is within the threshold of ± 10 percent or \$1M. The CTD unfavorable variance is due to the higher than planned negotiated costs for design of a mixer pump. The PTD unfavorable cost variance is primarily due to costs related to added scope, the as-built drawings effort, and vapor mitigation activities on the Tank 241-AN-101 Retrieval System.

Impact: The PTD unfavorable variance is unrecoverable.

Corrective Action: FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is

managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

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

Scope Description: The baseline for Project W-314 provides essential tank farm infrastructure upgrades to support waste feed delivery to the WTP and to correct environmental compliance deficiencies with the tank farm support systems. Work scope includes waste transfer line installation, valve pit upgrades, ventilation system upgrades, instrument/control system upgrades, electrical distribution system upgrades and installation of a Master Pump Shutdown system. The project scope includes Phase 1 and 2 upgrades in seven different tank farms (AN, AW, AY, AZ, AP, SY, and A), as well as transfer system upgrades between tank farms.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	0.0	323.1	352.3	323.1 323.1%	(29.2) -9.0%	
CTD	2,865.8	4,433.0	4,464.5	1,567.3 54.7%	(31.5) -0.7%	2,865.8
PTD	37,633.4	36,035.9	43,027.9	(1,597.5) -4.2%	(6,992.0) -19.4%	37,633.4

SCHEDULE VARIANCE

Description and Cause: The CM and CTD favorable variances are due to the acceleration of selected Project W-314 work scope from FY 2009. The PTD unfavorable variance is primarily due to delays in field construction and start-up/turnover activities as a result of changes to operational priorities and funding reductions, as-found field conditions, and vapor mitigation.

Impact: None.

Corrective Action: FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

COST VARIANCE

Description and Cause: The CM and CTD unfavorable variances are within the threshold of ± 10 percent or \$1M. The PTD unfavorable variance is primarily caused by vapor mitigation activities and as-found field conditions, which resulted in additional effort in field construction, and extended project management and engineering support.

Impact: The PTD cost variance is not recoverable.

Corrective Action: FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

5.08.04.02 - PROJECT E-525 (UPGRADE TRANSFER SYSTEMS)

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

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

SCHEDULE VARIANCE

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

Impact: None.

Corrective Action: FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

COST VARIANCE

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

Impact: The PTD cost overruns are not recoverable.

Corrective Action: FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

5.08.05 - RETRIEVAL / CLOSURE PROGRAM

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

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	4,498.6	4,242.1	4,206.9	(256.5) -5.7%	35.3 0.8%	
CTD	74,671.9	73,454.5	66,108.6	(1,217.5) -1.6%	7,345.9 10.0%	147,167.8
PTD	164,900.6	153,271.2	166,135.4	(11,629.4) -7.1%	(12,864.2) -8.4%	237,396.4

SCHEDULE VARIANCE

Description and Cause: The CM unfavorable variance is within the threshold of ± 10 percent or \$1M. The CTD unfavorable variance is due to delay 244-CR Vault activities which are behind schedule until results of an Engineering Study of alternative retrieval processes has been completed. The PTD unfavorable schedule variance is primarily because of field work delays on Vadose Zone RCRA Corrective Actions activities (resource availability issues, vapor mitigation activities, and weather delays); delays on starting Tank Farm Risk Assessments modeling and waste constituent studies; and delays in Liquid Level and Video Assessment, and Hose-in-Hose Transfer Line (HIHTL) disposal activities due to vapor mitigation activities, radiological conditions, and weather delays.

Impact: The PTD variances are not recoverable.

Corrective Action: The Engineering Study was completed in March and major 244-CR Vault construction efforts are projected to resume in April. Fiscal year 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline.

The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

COST VARIANCE

Description and Cause: The CM favorable variance is within the threshold of ± 10 percent or \$1M. The CTD favorable cost variance is because of 1) labor underruns as Closure Operations continues to provide support to other Projects; 2) efficiencies in performing the DST Component Isolation accelerated work scope; and 3) costs are less than expected for Vadose Zone Corrective Actions field work and 244-CR Vault activities. The PTD unfavorable cost variance is due to unplanned Closure Project surveillance and monitoring costs for vapor mitigation activities and the use of increased overtime.

Impact: The PTD variances are not recoverable.

Corrective Action: FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

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.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	968.0	2,958.1	3,229.5	1,990.2 205.6%	(271.3) -9.2%	
CTD	33,764.9	47,745.4	40,721.6	13,980.5 41.4%	7,023.8 14.7%	53,309.2
PTD	127,389.0	86,562.5	156,836.5	(40,826.5) -32.0%	(70,274.0) -81.2%	146,933.5

SCHEDULE VARIANCE

Description and Cause: The favorable CM variance is due to acceleration of Tank 241-S-102 retrieval completion activities and early start of Tank 241-C-109 retrieval preparation; partially offset by the unfavorable variance on Tank 241-C-108 where activities were accelerated to prior months. The CTD variance is due to acceleration and positive performance on retrieval of Tanks 241-S-102 and 241-C-108; and on Tank 241-C-109 retrieval preparation. The PTD unfavorable schedule variance is due to delays in C-Farm Modified Sluicing and Mobile Retrieval Systems design; C-Farm retrievals due to vapor mitigation activities and as-found conditions such as the potential for gelling and high radiation; development of multiple retrieval systems and the need for multiple evolutions due to tank waste characteristics; and deferral of B, T, and U-Farm retrievals.

Impact: The PTD issues identified have caused an extension in the schedules for retrieval procurement, construction, and operations.

Corrective Action: FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

COST VARIANCE

Description and Cause: The unfavorable CM variance is due to costs related to replacement of the sluicer in Tank 241-C-108, increased costs on Tanks 241-S-102, and correction of prior month sampling costs on C-200 retrievals; partially offset by positive performance on Tanks 241-C-109, 241-C-104, and 241-S-112 retrievals. The CTD variance is due to Tank 241-C-108 system installation, and startup and readiness scope requiring fewer resources than planned; efficiencies on Tanks 241-S-102 and 241-S-112; and Tank 241-C-109 design costs are lower than planned due to the ability to use data from Tank 241-C-108. The CTD favorable variance is partially offset by the unfavorable variance on Tank 241-C-103 due to unplanned costs to address retrieval issues. The PTD unfavorable cost variance for SST retrievals is due to a realization of risks in the field for which no contingency was planned, including higher than planned material and fabrication costs, longer than planned retrieval durations, increased special equipment and engineering costs, rework due to improvements to the work planning process, weather delays resulting in work stoppages, costs due to vapor mitigation activities, costs for a second pumping system for Tank 241-S-102, and costs for the partial retrieval of Tank 241-S-109 test waste in support of the DBVS.

Impact: There is no impact from the CM and CTD variances. Unplanned PTD costs are impacting ability to complete all approved baseline scope.

Corrective Action: FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

5.08.12/13 - SST CLOSURE

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

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	30.4	30.4	(290.2)	0.0 0.0%	320.6 1055.5%	
CTD	609.4	608.6	571.9	(0.8) -0.1%	36.8 6.0%	1,101.8
PTD	17,273.5	7,411.8	10,849.4	(9,861.7) -57.1%	(3,437.6) -46.4%	17,765.9

SCHEDULE VARIANCE

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

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

Corrective Action: FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess

COST VARIANCE

Description and Cause: The CM variance is due to correction of February's billing from ATL for the Tank 241-C-204 Post Retrieval Sampling and Analysis which was sent to this account in error. The CTD favorable variance is within the threshold of ± 10 percent

or \$1M. The PTD unfavorable cost variance is due to higher than planned costs for sampling and analytical work, and closure design and work package planning.

Impact: Increased PTD costs are impacting ability to complete all planned baseline scope.

Corrective Action: Fiscal year 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

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

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

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	298.5	456.6	515.1	158.1 53.0%	(58.5) -12.8%	
CTD	6,201.7	6,185.7	5,463.7	(16.1) -0.3%	722.0 11.7%	13,984.0
PTD	28,266.5	25,529.4	20,180.0	(2,737.1) -9.7%	5,349.4 21.0%	37,805.2

SCHEDULE VARIANCE

Description and Cause: The CM favorable variance is due to an adjustment to the baseline to move ILAW Systems Definition work scope to FY 2009. The CTD unfavorable variance is within the threshold of ± 10 percent or \$1M. The PTD unfavorable schedule variance is because of delay in Project W-QQQ (Hanford Shipping Facility) in order to fund higher priority work.

Impact: No impact.

Corrective Action: FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

COST VARIANCE

Description and Cause: The CM unfavorable variance is due to receipt of the contractor's invoice for completion of the sagebrush planting as identified in the IDF Mitigation Plan. The CTD and PTD favorable variances are due to efficiencies in WTP interface, Immobilized Low-activity waste (ILAW) Performance Assessment, and Strategic Planning activities.

Impact: No impact.

Corrective Action: None required.

5.09.02.02 - TRU / LLW PACKAGING

Scope Description: The baseline provides for the design, construction, testing, operation, and decommissioning of a system to treat contact handled transuranic/mixed (CH-TRUM) waste for eventual shipment/disposal at the Waste Isolation Pilot Plant.

1) CH-TRUM Waste Packaging: Nine tanks are currently thought to contain CH-TRUM waste: four T-200 series SSTs, four B-200 series SSTs, and Tank 241-T-111. 2)

Remote Handled transuranic/mixed (RH-TRUM) Waste Packaging: Three tanks are currently thought to contain RH-TRUM waste: 241-AW-103, 241-AW-105 and 241-SY-102. 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
PTD	28,343.4	11,695.5	19,883.5	(16,647.9) -58.7%	(8,188.0) -70.0%	28,343.4

SCHEDULE VARIANCE

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

Impact: Permitting issues and regulatory uncertainty have delayed packaging operation planning such that completion of the first 284,000 gallons of tank waste by the end of FY 2006 was not possible.

Corrective Action: FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is

managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

COST VARIANCE

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

Impact: A revised estimate at completion for the project has been developed and will be reflected in the life cycle baseline.

Corrective Action: FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

5.09.02.03/.08 - LAW TREATMENT

Scope Description: The baseline provides for (1) Bulk Vitrification / Containerized Grout including: issue Request for Proposal for Containerized Grout predown-select effort; issue Request for Proposal for Bulk Vitrification predown-select effort; award contract to vendor for testing and engineering pre-conceptual design development; contract costs for vendor testing and design; support contract testing and design; and issue predown-select data package; (2) Steam Reforming: prepare conceptual design for Hanford-deployable Steam Reforming unit [Phase 0]; award contract to vendor for testing and engineering preconceptual design development; contract costs for vendor testing and design; support contract testing and design; and issue predown-select data package; (3) Pre-Treatment/Sulfate Removal: evaluate dissolution progress during Tanks 241-S-102 and 241-U-107 retrieval operations; and evaluate high integrity containers for cesium removal; Post Down Select: perform long-lead permitting activities: issue procurement package and award contract for low activity waste (LAW) system construction; contract costs for vendor design, fabrication, and testing; support contractor design, fabrication, and testing; issue design; implement field modifications for tank farm LAW system deployment; and operate LAW system.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	67.5	67.4	78.9	(0.1) -0.2%	(11.5) -17.1%	
CTD	1,053.0	1,053.0	1,016.4	0.0 0.0%	36.6 3.5%	2,150.2
PTD	5,702.3	5,547.0	5,807.7	(155.3) -2.7%	(260.7) -4.7%	5,409.9

SCHEDULE VARIANCE

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

Impact: None.

Corrective Action: None required.

COST VARIANCE

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

Impact: None.

Corrective Action: None required.

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

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

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	0.0	1,883.2	1,323.0	1,883.2 1883.2%	560.2 29.7%	
CTD	26,639.2	33,738.8	35,146.0	7,099.6 26.7%	(1,407.2) -4.2%	26,639.2
PTD	58,842.4	54,441.3	92,369.4	(4,401.1) -7.5%	(37,928.1) -69.7%	58,842.4

SCHEDULE VARIANCE

Description and Cause: The CM and CTD favorable variances are due to the DBVS Project accomplishing accelerated work this fiscal year that is planned for performance in FY 2009. This early performance of work supports resolution of the Expert Review Panel issues. The PTD unfavorable schedule variance is due to delays caused by technical issues associated with the failed melt container, additional environmental standard for the off-gas system, and delay in placement of procurements to determine if the specifications could be modified to reduce costs.

Impact: The PTD variance is not recoverable.

Corrective Action: FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is

managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

COST VARIANCE

Description and Cause: The CM favorable variance reflects under-budget completion of HRTS design and cost effective subcontractor construction at the HRTS in preparation for dryer testing (May) and the integrated dryer/full-scale melt 38D test (June). The CTD unfavorable variance is due to additional engineering manpower and subcontractor effort required to issue, review, revise, and complete the DBVS design two months later than planned. The PTD unfavorable cost variance is a realization of risks for which no contingency was planned, including higher than anticipated negotiated contract costs with AMEC for design, fabrication, and installation; and new project scope (Engineering Scale-13).

Impact: The CTD variance is not recoverable. The PTD cost variances for supplemental treatment will be addressed with the approval and implementation of the life cycle performance baseline.

Corrective Action: Beginning in March, BCWS will reflect the remainder of the AMEC manpower loading. This will resolve the CM variance.

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
CM	(41.4)	0.0	(14.5)	41.4 41.4%	14.5 14.5%	
CTD	7,132.9	7,132.9	5,402.4	0.0 0.0%	1,730.5 24.3%	7,132.9
PTD	33,911.0	29,670.8	20,743.7	(4,240.2) -12.5%	8,927.1 30.1%	33,993.8

SCHEDULE VARIANCE

Description and Cause: The CM favorable variance is due to an adjustment to the baseline to move work scope to FY 2009. The PTD unfavorable schedule variance is a function of implementation of the Interim Baseline in FY 2006. The IDF was completed on schedule in April 2006, and is currently in a "Care and Custody" condition. The variance will be eliminated with approval and implementation of the revised baseline.

Impact: None.

Corrective Action: FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

COST VARIANCE

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

Impact: No impact.

Corrective Action: None required.

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

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

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

SCHEDULE VARIANCE

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

Impact: No impact.

Corrective Action: None required.

COST VARIANCE

Description and Cause: The CTD favorable variance is due to effective project management and utilizing less project management support resources than planned.

The PTD favorable variance is due to efficiencies realized on the detailed design activity, resulting from favorable contract performance.

Impact: No impact.

Corrective Action: None required.

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; perform facility assessment and characterization activities; develop NEPA and other regulatory documentation, deactivation plans, post-deactivation surveillance and maintenance plans; develop deactivation endpoints and turnover package; flush, isolate, and blank process or sub-process systems; and remove radioactive and hazardous materials and mixed wastes.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	2,238.0	2,032.7	2,448.1	(205.3) -9.2%	(415.4) -20.4%	
CTD	33,170.9	32,895.4	31,608.2	(275.5) -0.8%	1,287.2 3.9%	66,823.4
PTD	77,011.3	75,010.2	74,546.4	(2,001.1) -2.6%	463.7 0.6%	110,663.8

SCHEDULE VARIANCE

Description and Cause: The CM and CTD unfavorable variances are within the threshold of ± 10 percent or \$1M. The CTD and PTD favorable variances are due to installation of the SEM which was delayed because of the extended procurement process. In addition, several Facility Upgrade activities and the procurement of three Gas chromatography/mass spectrometry (GC/MS) did not begin as planned in January because of FY 2007 funding constraints.

Impact: Continued degradation of facilities/equipment will occur until upgrades are completed.

Corrective Action: A BCR will be prepared to delete/defer the Facility Upgrades activities and delete the procurement of (3) GC/MS. The SEM installation was completed in March.

COST VARIANCE

Description and Cause: The CM favorable variance is due to ATL Readiness to Serve costs that were not planned. The CTD and PTD favorable variances are comprised of (1) less than planned dedicated and matrixed staff in support of Maintenance, Production Control and Technology Development, and (2) planning labor rates being greater than actual costs; revised waste volume projections that are less than originally planned; and offset by unplanned ATL's Readiness-to-Serve (RTS) costs. Additionally, PTD unplanned costs have been incurred relative to the transition of the 222-S Laboratory analysis activities to ATL. Specific costs include ATL transition costs, Information Resource Management Desktop support, and Waste Management of laboratory samples. These costs have been offset by favorable variances elsewhere in the ATS program.

Impact: ATL Readiness to Serve costs are currently projected to total over \$4M in FY 2007.

Corrective Action: ATL Readiness to Serve costs will require additional funds, deferral of work, or use of project savings currently planned to accelerate fee bearing scope.

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

I. Near-Term Deliverables:

- **M-45-55-T03, Submit to Ecology for review and comment as an Agreement secondary document a Field Investigation Report pursuant to the site-specific SST WMA Phase I RFI/CMS Work Plan addenda for WMA T, TX, and TY.**
Due: 07/30/05
Status: Complete. Delivered on 07/29/05. Ecology comments were received on 01/05/06. Responses have been provided to Ecology.

- **M-45-55-T04, Submit to Ecology for review and comment a draft of the A-AX, C, and U Field Investigation Report.**
Due: 04/30/06
Status: Missed. Discussions between Ecology and ORP are ongoing regarding scope and schedule for this report. A draft TPA change request, letter 06-TPD-026, was provided to Ecology on May 4, 2006. Ecology, DOE and CH2M HILL met March 21, 2007 to continue discussing the change package approach.

- **M-45-55, Submit to Ecology for review and approval as an Agreement primary document a Phase 1 RFI report integrating results of data gathering activities and evaluations for WMAs S-SX, T, TX-TY, A-AX, B-BX-BY, C, and U; and related activities, including groundwater monitoring and impacts assessment using Hanford Site groundwater models, with conclusions and recommendations.**
Due: 01/31/07
Status: Missed-Change Request Pending. C Farm direct push characterization near the C-152 pipeline leak was completed June 9, 2006. 15 samples were pulled and sent for analysis. Push sampling was completed at T Farm. Push sampling equipment was moved into B Farm and sampling was completed in January 2007. SGE activities were completed in August 2006 in U Farm and C Farm; reports of these activities have been released. SGE field activities were completed in April 2007 for B/BX/BY Farms and surrounding liquid disposal sites.

A draft TPA change request, letter 06-TPD-026, was provided to Ecology on May 4, 2006. Ecology returned the change request with comments and are waiting a response. Ecology, DOE and CH2M HILL met March 21, 2007 to continue discussing change package approach.

- **M-45-56, Complete Implementation of Agreed to Interim Measures.**
Due: 07/31/07
Status: On Schedule.

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

Due: 06/30/07

Status: Unrecoverable. A draft TPA change request, letter 06-TPD-026, was provided to Ecology on May 4, 2006. Ecology returned the change request with comments and are waiting a response. Ecology, DOE and CH2M HILL met March 21, 2007 to continue discussing change package approach.

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

Due: 09/30/07

Status: Unrecoverable. A draft TPA change request, letter 06-TPD-026, was provided to Ecology on May 4, 2006. Ecology returned the change request with comments and are waiting a response. Preliminary discussions on the CWMA DQO and Work Plan were held. Ecology, DOE and CH2M HILL met March 21, 2007 to continue discussing change package approach.

II. Significant Accomplishments:

- Borehole associated with Tank C-105 was successfully decommissioned and four vertically isolated electrodes, to support SGE, were installed during decommissioning.
- Initial SST-PA comment disposition workshops were initiated.
- A report, Surface Geophysical Exploration of the C Tank Farm at the Hanford Site, RPP-RPT-31558, was released through Document Control.
- Surface Geophysical Exploration of B, BX, and BY tank farms as well as surrounding liquid disposal sites was initiated on 10/23/06. Data collection was completed on 4/13/2007. This represents the first fully integrated deployment of the technology between the Tank Farm waste management area and the adjacent central plateau waste sites.

III. Significant Planned Actions in the Next Six Months:

- Complete design/construction of the interim surface barriers at T-106.
- Complete analysis of SGE work for B/BX/BY WMA.
- Develop initial U FIR sections for internal review.
- Comment disposition workshops will continue on the initial SST-PA
- Develop initial sections of role-up RFI for internal review.
- Complete direct push work in the 241-U Farm.
- Deploy direct push system to collect samples from the proposed T-Farm interim barrier infiltration area north of 241-T Farm.

IV. Issues

- A draft change package for M045-55-T-04, 55, 58, and 60 has been submitted to Ecology. Ecology, DOE and CH2M HILL met March 21, 2007 to continue discussing change package approach.

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: At risk

- **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.
 - Tank C-103: HRR system demonstration complete.
 - Tank C-108: HRR system installed; supporting retrieval operations.
 - Completed HRR demonstration 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: On schedule

- **M-45-00E, Initiate Negotiation of SST Waste Retrieval and Closure Activities for the Remainder of the SST Program**
Due: 10/31/12
Status: On schedule

- **M-45-05, Retrieve Waste from all Remaining Single-Shell Tanks**
Due: 9/30/18
Status: At risk

- **M-45-05-T05, Initiate Tank Retrieval from Five Additional Single-Shell Tanks**
Due: 9/30/07
Status: Unrecoverable

- **M-45-05-T06, Initiate Tank Retrieval from Five Additional Single-Shell Tanks**
Due: 9/30/08
Status: At risk

- **M-45-05-T07, Initiate Tank Retrieval from Seven Additional Single-Shell Tanks**
Due: 9/30/09
Status: At risk

- **M-45-05-T08, Initiate Tank Retrieval from Eight Additional Single-Shell Tanks**
Due: 9/30/10
Status: At risk

- **M-45-05-T09, Initiate Tank Retrieval from Ten Additional Single-Shell Tanks**
Due: 9/30/11
Status: At risk
- **M-45-05-T10, Initiate Tank Retrieval from 12 Additional Single-Shell Tanks**
Due: 9/30/12
Status: At risk
- **M-45-05-T11, Initiate Tank Retrieval from 14 Additional Single-Shell Tanks**
Due: 9/30/13
Status: At risk
- **M-45-05-T12, Initiate Tank Retrieval from 17 Additional Single-Shell Tanks**
Due: 9/30/14
Status: At risk
- **M-45-05-T13, Initiate Tank Retrieval from 20 Additional Single-Shell Tanks**
Due: 9/30/15
Status: At risk
- **M-45-05-T14, Initiate Tank Retrieval from 20 Additional Single-Shell Tanks**
Due: 9/30/16
Status: At risk
- **M-45-05-T15, Initiate Tank Retrieval from 20 Additional Single-Shell Tanks**
Due: 9/30/17
Status: At risk
- **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: At risk
- **M-45-06-T03, Initiate Closure Actions on a WMA Basis**
Due: 3/31/12
Status: At risk
- **M-45-06-T04, Complete Closure Actions on one WMA**
Due: 3/31/14
Status: At risk

II. Significant Accomplishments

- Continued C-108 retrieval operations.
- Continued construction of C-109 retrieval system.
- Initiated design 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.
- Work with Ecology, EPA, and DOE-RL to develop Retrieval Team recommendation on retrieval and closure activities.
- Complete C-108 retrieval.
- Complete construction of the C-109 retrieval system and begin retrieval.
- Complete comment resolution on the Mobile Retrieval System (MRS) TWRWP and obtain Ecology approval.
- Complete RDR for C-204 and C-103 and transmit to Ecology.
- Complete interim lay-up of C-200 retrieval system.
- Submit Modified Sluicing TWRWP for Tank C-110

IV. Issues

- The MRS TWRWP, the last of the TWRWPs identified in Milestone M-45-00B, has not been approved by Ecology. ORP submitted a revised MRS TWRWP for tanks C-101/105/111 to Ecology on April 26, 2007.
- Milestones M-45-00B (retrieve all C-Farm tanks) and M-45-00C (initiate negotiations on next set of SST retrievals) were both due on September 30, 2006 and missed. DOE, Ecology, and EPA are expected to begin TPA negotiations in May 2007, to include tank waste retrieval milestones.

C-FARM RETRIEVAL SUMMARY SCHEDULE FORECASTS

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	5/25/07
C-104	7/03/07	1/9/08	1/22/08	2/22/08	9/9/08	8/9/08	7/9/09
C-105	5/2/12	6/5/13	7/30/13	8/30/13	3/6/14	2/6/14	12/4/14
C-106	Complete	Complete	Complete	Complete	Complete	Complete	Complete
C-107	3/21/14	12/19/14	2/26/15	3/26/15	12/18/15	11/18/15	4/26/17
C-108	Complete	Complete	Complete	Complete	7/09/07	8/17/07	5/19/08
C-109	4/19/07	8/02/07	8/20/07	8/31/07	3/10/08	4/16/08	12/09/08
C-110	11/9/07	2/25/08	2/20/08	3/25/08	10/24/08	9/24/08	7/29/09
C-111	8/18/14	9/21/15	11/21/15	12/21/15	4/28/16	3/28/16	1/31/17
C-112	10/18/13	7/23/14	9/9/14	10/9/14	3/25/15	2/25/15	3/1/17
C-201	Complete	Complete	Complete	Complete	Complete	Complete	Complete
C-202	Complete	Complete	Complete	Complete	Complete	Complete	Complete
C-203	Complete	Complete	Complete	Complete	Complete	Complete	Complete
C-204	Complete	Complete	Complete	Complete	Complete	Complete	8/9/07

- a. Completion dates are based on the stated performance baseline as of 5/08/07 and are subject to change as efforts continue to identify and implement schedule efficiencies.
- b. Projected dates for C-110 are based on utilizing Modified Sluicing technology and availability of acceleration funding.

SST RETRIEVAL SEQUENCE DOCUMENT

I. Deliverables

- **M-45-02M, Submit Biennial Updates to SST Retrieval Sequence Document (Agreement Appendix I, Section 2.1.2), Double-Shell Tank Space Evaluation Document and Ecology Concurrence of Additional Tank Acquisition Within 60-days**
Due: 3/1/06 (Parties to meet annually to agree on SSTs to be retrieved during the coming year from the tank pool.)
Status: Complete. RPP-21216 Rev. 1B, Single-Shell Tank Retrieval Sequence Document and Double-Shell Tank Evaluation Document, delivered to Ecology on March 13, 2006 (see "Issues" below).
- **M-45-02N, Submit Biennial Update of SST Retrieval Sequence Document (Agreement Appendix I, Section 2.1.2), and Double-Shell Tank Space Evaluation Document and Ecology Concurrence of Additional Tank Acquisition Within 60-days (See Text of M-45-02M for further details)**
Due: 3/1/08 (Parties to meet annually to agree on SSTs to be retrieved during the coming year from the tank pool.)
Status: On schedule
- **M-45-02O, Submit Biennial Update of SST Retrieval Sequence Document (Agreement Appendix I, Section 2.1.2), and Double-Shell Tank Space Evaluation Document and Ecology Concurrence of Additional Tank Acquisition Within 60-days (See Text of M-45-02M for further details)**
Due: 3/1/10 (Parties to meet annually to agree on SSTs to be retrieved during the coming year from the tank pool.)
Status: On schedule
- **M-45-02P, Submit Biennial Update of SST Retrieval Sequence Document (Agreement Appendix I, Section 2.1.2), and Double-Shell Tank Space Evaluation Document and Ecology Concurrence of Additional Tank Acquisition Within 60-days (See Text of M-45-02M for further details)**
Due: 3/1/12 (Biennially thereafter. Parties to meet annually to agree on SSTs to be retrieved during the coming year from the tank pool.)
Status: On schedule

II. Significant Accomplishments

- Meetings were held between ORP, CH2M HILL, and Ecology to agree on proposed revisions to the SST Retrieval Sequence Document and Double-Shell Tank Evaluation Document.

III. Significant Planned Activities in the Next Six Months

- None

IV. Issues

- The Single-Shell Tank Retrieval Sequence Document and Double-Shell Tank Evaluation Document (Milestone M-45-02M) has not been approved by Ecology. ORP submitted a document revision to Ecology on December 22, 2006. Ecology provided comments informally in February 2007, and a series of comment resolution workshops were initiated and completed in April 2007. ORP, CH2M, and Ecology reached agreement with on path forward for revision and resubmittal of the M-45-02M deliverable by June 2007, and completion of the M-45-02N deliverable due March 2008, as documented in Ecology letter dated April 3, 2007. Path forward includes working jointly with Ecology to develop HTWOS modeling assumptions in support of the March 2008 deliverable, but no additional HTWOS modeling to complete the M-45-02M deliverable.

TANK RETRIEVALS WITH INDIVIDUAL MILESTONES

Tank 241-C-106

I. Deliverables

- **M-45-05H, Interim Completion of Tank C-106 SST Waste Retrieval and Closure Demonstration Project**
Due: 6/30/04
Status: Completed
- **M-45-05L-T01, Complete Full-Scale C-106 Waste Retrieval**
Due: 11/1/03
Status: Completed
- **M-45-05M-T01, Submit C-106 Waste Retrieval Results, Analysis of Residual Waste(s), and (if appropriate) Request for Exception to the Criteria Pursuant to Agreement Appendix H**
Due: 2/27/04
Status: Completed

II. Significant Accomplishments

- Completed draft process to assess tank farm leaks and draft leak assessments for tanks C-110 and C-111 (ORP and Ecology collaboration).

III. Significant Planned Activities in the Next Six Months

- Complete revisions to C-106 Appendix H documentation, incorporating Ecology and NRC comments and reflecting the Single-Shell Tank Performance Assessment (SST PA).
- Submit C-106 revisions to NRC to complete their review of the C-106 exception request.

- Work with Ecology and EPA to obtain approval of C-106 Appendix H exception request.
- Transmit draft process to assess tank farm leaks and draft leak assessments for tanks C-110 and C-111 to Ecology for concurrence.
- Continue to work with Ecology and EPA on past tank leak assessments.
- 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 2008.

Tank 241-S-102

I. Deliverables

- **M-45-05C, Complete S-102 Initial Waste Retrieval Project Construction (to Include all Physical Systems Including Those Necessary for Leak Detection, Monitoring, and Mitigation)**
Due: 3/31/04
Status: Completed
- **M-45-06C, Submit a Certified S-102 Component Closure Activity Plan, as an Application for a Modification to the Hanford Site-Wide Hazardous Waste Facility Permit to Ecology**
Due: 9/30/04
Status: Completed
- **M-45-05A, Complete Waste Retrieval from Tank S-102**
Due: 3/31/07
Status: Missed. As a result of equipment failure on March 14, 2007, retrieval operations were suspended at Tank S-102 with retrieval approximately 91% complete and approximately 423,000 gallons total waste removed. ORP and CH2M HILL are implementing recovery actions to complete S-102 retrieval (ORP letter 07-TPD-015, dated March 30, 2007).
- **M-45-15, Interim Completion of Tank S-102 SST Waste Retrieval and Closure Demonstration Project**
Due: 12/31/07
Status: .At risk.

II. Significant Accomplishments

- Achieved approximately 91% retrieval with a high pressure mixer ("Rotary Viper") before suspending retrieval operations.

III. Significant Planned Activities in the Next Six Months

- Install new Seepex pump in tank and resume retrieval.
- Respond to Ecology letter dated April 24, 2007 regarding recovery plan.
- Continue development and testing of new retrieval technologies.
- Complete cross-site transfers from SY-101 as necessary to maintain space available at SY-102 for S-102 retrieval.

IV. Issues

Retrieval of Tank 241-S-102 was not completed by TPA milestone date of March 31, 2007, due to pump failure.

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

Tank 241-S-112

I. Deliverables

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

II. Significant Accomplishments

- Completed retrieval of Tank S-112.
- Performed in-tank video to support residual volume estimation.
- Completed residual volume estimate.

III. Significant Planned Activities in the Next Six Months

- Obtain residual sample and complete waste inventory report.

IV. Issues

- Milestone M-45-13 requires the submittal, by ORP, and approval by Ecology of a "Closure Demonstration Plan" and incorporation of the plan in the Site-wide Permit. Approval of closure plans is being held in abeyance

by Ecology until issuance of a Record Of Decision for the Tank Closure EIS (Ecology letter dated August 15, 2006).

Interim Stabilization Consent Decree

I. Near-Term Deliverables:

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

Due: 09/30/04

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

II. Significant Accomplishments:

Retrieval of Tank S-112 complete.

III. Significant Planned Actions in the Next 6 Months:

- None.

IV. Issues

- Tank S-102 retrieval not completed by milestone M-45-05A date of March 31, 2007.

Milestone M-23-00, Tank Integrity and Monitoring

I. Near-Term Deliverables:

- None.

II. Significant Accomplishments:

- Completed video observation and liquid level assessment for all facilities (241-AX-IX, 241-AX-151, 241-BY-ITS-1, 241-BY-ITS-2)

III. Significant Planned Actions in the Next Six Months:

- Transmit final report to Ecology

IV. Issues

- Nothing to report.

In Tank Characterization and Summary

For the period from April 1 – April 30, 2007

I. Accomplishments:

- Completed RPP-PLAN-32285, *Chemistry Control Push-Mode Core Tank Sampling and analysis Plan for Tank 241-SY-101*, Rev. 0, on April 19, 2007.
- Completed revision of DQO RPP-8532, *Double-Shell Tanks chemistry Control Data Quality Objectives*, Rev. 8 on April 3, 2007.
- Completed revision of DQO HNF-SD-WM-DQO-001, *Data Quality Objectives for Tank Farms Waste Compatibility Program*, Rev. 12 on April 3, 2007.

II. Planned Action within the next Six Months:

Tank Sampling

- Tank 241-S-112 solid closure samples scheduled for May 2007.
-
- Tank 241-SY-103 core corrosion samples scheduled for May 2007.
- Tank 241-AP-105 liquid evaporator feed samples scheduled for June 2007.
- Two Tank 241-SY-102 liquid grab sample events are scheduled: one in June 2007 and one in September 2007.
- Tank 241-SY-101 core corrosion samples scheduled for May 2007.
- Tank 241-AP-101 liquid evaporator feed samples scheduled for June 2007.
- Tank 241-AN-106 liquid grab samples scheduled for June 2007.
- Tank 241-C-108 solid closure samples scheduled for August 2007.
- Tank 241-U-361 push mode core samples scheduled for July 2007.
- Tank 241-AP-108 core corrosion samples scheduled for October 2007.

BBI Updates

- Fourteen BBI updates for the second quarter of FY2007 were completed and published on April 5, 2007.
- Work has started on the 16 BBI updates scheduled for the third quarter of FY 2007.

DQO s

- Complete Evaporator DQO, Rev. 5 in August 2007.
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- Start DBVS DQO Rev. 1 in September 2007.

- Complete SST Component Closure DQO, Rev 4 in May 2007.
- Complete Environmental Vapor Stack Sampling DQO in June 2007.

III. Issues:

- None.

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

I. Near-Term Deliverables:

- **M-47-02, Complete startup and turnover activities for required transfer system upgrades to allow transfer of first high-level waste feed to the Pretreatment/Treatment Complex.**
Due: 03/31/09
Status: Complete. ORP completion letter submitted to WDOE June 28, 2006, (06-TPD-043). Ecology initiated completion inspection on 4/3/07.
- **M-47-04, Complete startup and turnover activities for required transfer system upgrades to allow transfer of first low-activity waste feed to the pretreatment/treatment complex. Installation of the pump will not be required until necessary to support WTP waste feed activities.**
Due: 03/31/09
Status: Complete. ORP completion letter submitted to WDOE June 28, 2006 (06-TPD-043). Ecology initiated completion inspection on 4/3/07.
- **M-47-03A, Complete startup and turnover activities for waste retrieval and mobilization systems for selected initial high-level waste feed tank.**
Due: 03/31/09
Status: Pending path forward with Ecology for renegotiation of new milestone commitments.
- **M-47-06, Complete negotiation of additional agreement requirements (milestones, target dates, and associated language) governing work necessary to support completion of treatment complex Phase I operations by 2018.**
Due: 06/30/10
Status: Negotiations are not yet underway.

II. Significant Accomplishments:

- Continued to support Ecology completion inspections of Milestones M47-02 and 04.

III. Significant Planned Actions in the Next Six Months:

- None.

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

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

V. Issues:

- Nothing to report.

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

EVAPORATOR CAMPAIGNS

Fiscal Year	Campaign No.	Feed Source	Slurry Tank	Comments
FY07	07-01 (07-02)	AN-106/AY-102 (AW-102)	AP-103	AN-106 and AY-102 candidate feed staged and sampled in AW-102.
FY07	07-02 (08-01)	AP-104	AP-103/ AP-104	Campaign 08-01 is being accelerated to be performed as Campaign 07-02 back-to-back with 07-01
FY08	08-01 (09-01)	AP-105	AP-104	Baseline planning underway to accelerate campaign 09-01 into FY08. If approved, campaign to be performed as 08-01.
FY09	09-01 (09-02)	AP-105 or AP-107	AP-105 or AP-107	Baseline planning underway to accelerate Campaign 09-02 into FY08. If approved, campaign to be performed as 08-02.

Milestone M-48-00, DST Integrity Assessment Program

I. Deliverables:

- **M-48-14, Submit Written Integrity Report for the DST System**
Due: 3/31/06
Status: Complete.
- **M-48-15, Submit a Report to Ecology for the Re-examination of Six DSTs by Ultrasonic Testing**
Due: 9/30/07
Status: On schedule.
- **M-48-00, Complete Tank Integrity Assessment Activities for Hanford Double Shell Tanks System**
Due: 9/30/07
Status: On schedule.
- **M-48-07, Submit To Ecology a Disposition Plan for All DST Components Not In Use Post 2005.**
Due: 12/16/2000
Status: Complete.
- **M-48-07b, (Embedded milestone) Isolation, Stabilization and Monitoring (i.e., administrative and/or engineering controls in place to prevent use within twelve (12) months, or sooner, from the date of removal from service.**
Due: 06/30/2006
Status: Complete. ORP letter 06-TPD-042 transmitted to Ecology on June 27, 2006. Based upon an inspection of the completion status Ecology formally documented acceptance, via letter of 2/27/07, that specific requirements of M-48-07 have been met.
- **M-48-07A, Complete Construction of the AZ-301 Condensate Return System and Pit Upgrades. This includes construction of the AZ-301 condensate return, removal of AZ-151 catch tank from service, construction of the AP-106A central pump pit upgrades, and construction of the SY-B valve pit upgrade (milestones M-48-07A-A, M-48-07A-B & M-48-07A-C).**
Due: 06/30/06
Status: Complete. ORP letter 06-TPD-041 transmitted to Ecology on June 28, 2006. Based upon an inspection of the completion status Ecology formally documented acceptance, via letter of 2/27/07, that specific requirements of M-48-07 have been met.

- **M-48-07A-A, Complete Construction of the AZ-301 Condensate Return System and Pit Upgrades Remove the AZ-151 Catch Tank System from Service.**

Due: 10/31/05

Status: Complete. Based upon an inspection of the completion status Ecology formally documented acceptance, via letter of 2/27/07, that specific requirements of M-48-07 have been met.

- **M-48-07A-B, Complete construction of the AZ-301 condensate return system and pit upgrades. This includes: 2) Completion of construction for the 241-AP-106A Central Pump Pit upgrade (remove existing equipment, evaluate pit integrity, and replace pit coating (if necessary) by March 31, 2006.**

Due: 3/31/06 AP-106A Central Pump Pit Upgrade (Evaluate integrity of pit and replace pit coating if necessary).

Status: Complete. ORP letter 06-ED-033, transmitted to Ecology on April 4, 2006. Based upon an inspection of the completion status Ecology formally documented acceptance, via letter of 2/27/07, that specific requirements of M-48-07 have been met.

- **M-48-07A-C, Complete construction of the AZ-301 condensate return system and pit upgrades. This includes: 3) Completion of construction for the 241-SY-B Central Pump Pit upgrade (remove existing equipment, evaluate pit integrity, and replace pit coating (if necessary) by June 30, 2006.**

Due: 6/30/06 for complete construction for the 241-SY-B Valve Pit Upgrade (Evaluate integrity of pit and replace pit coating if necessary).

Status: Complete. ORP letter 06-TPD-041 transmitted to Ecology on June 28, 2006. Based upon an inspection of the completion status Ecology formally documented acceptance, via letter of 2/27/07, that specific requirements of M-48-07 have been met.

II. Significant Accomplishments:

- Completed the AN-106 annulus video examination.
- Completed the AY-101 and AN-106 UT examinations.
- Completed AW-02A encasement pressure test (transfer lines SN-268 and SL-162) and pit coating valve repair.

III. Significant Planned Actions in the Next Six Months:

- Complete the AZ-101 UT examination
- Complete the AN-107, AW-103, AN-106, AY-101, and AZ-101 primary videos
- Complete AZ-101 annulus video

IV. Issues

- None.

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

I. Near-Term Deliverables:

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

Out year (Post 2006) milestones:

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

II. Significant Accomplishments:

- Ecology approved IDF Permit Modification Incorporating As Built Design Media (February 2007).
- Completed planting of initial nursery production of sagebrush and installation of owl burrows on the Hanford site – February 2007.

III. Significant Planned Actions in the Next Six Months:

- Place gravel layer on portions of the North and East side slopes to provide added protection for wind erosion – May 2007.
- Determine sagebrush survival and initiate nursery planting of additional sagebrush to meet requirements of the Mitigation Action Plan – Summer/Fall 2007.
- Complete public comment period for the Agency initiated modification of the IDF Permit for Custodial Care Phase Requirements – June 8, 2007.
- Ecology prepare and issue responsiveness document – TBD.

IV. Issues

- None.

Hanford Waste Treatment and Immobilization Plant (WTP) Project

Pretreatment (PT) Facility

The PT Facility will separate the radioactive tank waste into High Level Waste (HLW) and Low Activity Waste (LAW) fractions and transfer each waste type to the respective vitrification facility for immobilization. Facility construction began November 2002 and the construction completion date is October 2014. Currently the design is 64% complete and construction is 24% complete.

Bechtel National, Inc (BNI) is beginning to prepare for restart of construction which has been suspended since December 2005. BNI has identified a team that will evaluate readiness for resumption of construction activities. The team which met for the first time early in May will take advantage of the work and planning that has been accomplished by a comparable HLW team that is about three months ahead of them. The PT plan is to resume construction activities in October 2007 rather than in January 2008.

The main PT facility focus is Engineering and Research and Technology (R&T) activities required to close the External Flowsheet Review Team (EFRT) recommendations, and to accommodate capacity increase requirements. The EFRT recommended that testing be done to better understand the operation of the Pretreatment facility including caustic leaching and ultra-filtration. In response to their recommendations WTP is developing the Engineering Scale Pretreatment System (ESPS) to carry out the recommended testing. The leaching and filtration processes will be run at elevated temperatures to determine the impact of temperature on the leaching process and on the filter through-put. BNI will also test Ultrafiltration units in both horizontal and vertical orientation to evaluate the effect of orientation on flushing capability. The results from these tests will be used to confirm the flow sheet and will provide a basis for selecting the Ultrafiltration units. The ESPS is being designed and fabricated in Carlsbad, New Mexico where it will be assembled and tested. The ESPS skid will be shipped to Richland and reassembled in the Process Development Laboratory -West (PDL-W) prior to initiation of testing. The ESPS 30% design review was completed on schedule late last month in Carlsbad. In Richland PNNL has started the design for the utilities and foundations in PDL-W that will be required to support the ESPS skids.

Reevaluation of the basis for erosion calculations is another important activity. The initial erosion scoping tests have been completed and preparation for the required erosion testing is underway. BNI has prepared the test specification for these fully documented tests and they expect to release the testing subcontractor to start testing later this month. These erosion tests are expected to validate the design of the wear plates in PT Facility vessels.

The Multiple Overblow (MOB) testing in the 300 Area 336 building continues to go well. Last year BNI determined that they could not rule out the possibility that more than one pulse jet mixers (PJM) could overblow simultaneously, which is referred to as a MOB. Since all vessels with PJMs had been designed to withstand a single overblow, the design requirements for the vessels need to be upgraded to include the hydrodynamic forces imparted to the vessel internal equipment by a MOB. The test runs simulate conditions for both Newtonian (water) and non-Newtonian fluids (clay simulant). The water and clay simulant tests, with an eight PJM array, have been completed and the test apparatus is now being modified to accommodate a four PJM array which will also be tested with water and clay.

Mechanical Systems and Plant Design continue checking the design for piping and pipe supports that had been released for fabrication prior to the seismic design criteria change. They have also nearly completed the consolidation of the requirement changes that will impact vessels and piping systems as a result of the EFRT recommendation and Hydrogen in Piping and Ancillary Vessels (HPAV) issues. They are currently evaluating the changes that will be required as a result of the increase in specific gravity of the waste.

The fabrication of the horizontal shield door for the PT Hot Cell has been completed at Oregon Iron Works in the Portland, Oregon area was shipped to the Marshalling Yard in Richland earlier this month. Fabrication of the Hot Cell vertical shield door is nearly complete and will be shipped to the site next month.

One of the vessel fabricators is working on installation of the cooling jackets on vessel that they are currently working on and will also install stellite nozzles on the PJMs and the weld nozzles in the vessel head.

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

Facility	Milestone	Scheduled	Projected
PT	Complete PJM Multiple Overblow Test	3/07	10/07
	Approve PJM Multiple Overblow Final Report	6/07	12/07
	Receive Oxidative Leaching Test Draft Report	5/07	8/07
	EFRT Recommendation M2, Perform Submerged Jet Test	6/07	8/07

High-Level Waste Vitrification Facility

High-Level Waste Vitrification Facility

The WTP project is in the process of developing a revised baseline schedule to incorporate the "Execution Revision" strategy of completion of construction of LAW facility first, EFRT scope and capacity modifications. Revised schedule is planned to be issued later in May 2007. Congressional language restricts the construction of HLW and PT until the certification of the final seismic criteria is obtained from the Secretary of Energy. Based on that, the construction of the HLW Facility has been suspended since January 2006, and the only ongoing construction activity has been the application of special protective coatings for Concrete slabs and walls at elevation (-) 21'-0". Installation of non-seismic fire water piping at elevation -21' by Patriot Fire Protection has started recently. Secretarial certification will be obtained when the ground motion spectra evaluated based on the soil characterization data collected from the deep boreholes drilled to ~1400 ft below ground level confirms that the current design basis Revised Ground Motion (RGM) is bounding. This is anticipated to be completed in July 2007. Preliminary evaluations indicate that the RGM would be bounding.

Key design activities ongoing are the concrete walls, slabs and supporting steel, embedded plates, Joggle reverification and piping design for 0'-0" to 14'-0" elevations to support upcoming construction effort. In addition, HLW is working towards expediting construction remobilization to FY 07 from the planned start in FY 08 to reduce the construction load in peak years. BNI is in the midst of performing a construction readiness assessment to ensure safety and programmatic capability, forecasted to be complete in May 2007.

Re-design of concrete slabs at 0'-0" was completed earlier. Design of rebar and embedments for the walls between elevation 0' and 14' have been completed. Design of rebar and embedments for slabs at elevation 14' is ongoing. Time history calculation for Melter Cave crane has been completed, which will provide the loading to the crane vendor for their design. Impacts of the revised dynamic analysis of the HLW facility on the equipment are being evaluated. Spectra comparisons for Power Tunnel Bogie Door and Locking bolt, High Integrity Cranes, Power Manipulator Crane, Melter & Feed Vessels and Melter Feed slurry pumps have been completed.

151 joggle fabrication drawings have been prepared, and Request for Proposal for electrical joggles (critical for early construction) has been issued. Steel framing calculations for elevation +37'-0" are being performed. All the P&ID drawings for HLW (except the ASX system) have been issued as committed system design packages. Engineering review of the equipment layout drawing for elevation 58' has been completed. Piping for the non-radioactive liquid disposal system and Concentrate Receipt System has been issued.

Pull tests for adhesion of 120 mil thick fireproofing material on structural Steel were successfully completed on the mock-up beam, and is ready for installation.

Factory Acceptance Test (FAT) of the Melter Crane Maintenance shield door at Oregon Iron Works (OIW) has been successfully completed on March 28, 2007. Material procurement for all 17 HLW Shield doors (part of the original contract with OIW) has been completed. Purchase Orders for Oregon Iron Works (OIW) for the front end engineering scope for the shield doors transferred from the bankrupt Unidynamics Inc., has been awarded. In addition to the design activity, the contract for the Physical Configuration Audit (PCA) of these shielded doors has also been awarded, which will allow OIW to perform the assessment of the existing fabrication work to determine the extent of additional work needed to complete the shielded doors. Purchase Order (worth ~\$3M) for the HLW melter bus and power supply has been awarded to ABB. EPCON, the vendor for the Thermal Catalytic Oxidizer (TCO) and PreHeaters, has awarded a purchase order for WEST METALS to establish an NQA-1 program at the EPCON facility to enable EPCON to perform "Q" fabrication. However, in parallel, BNI is evaluating other options to enable "Q" fabrication at EPCON facility. The East and West Canister Lid Welders and Weld Machine Cameras have been received.

DOE is waiting for the 2+2 permit modification by Ecology to understand the extent of incorporation of the DOE comments on the draft.

Low Activity Waste (LAW) Vitrification Facility

LAW Engineering continues to work with the melter fabricator, Peterson, to develop engineering changes to the melter lid. The current configuration requires significant welding that could result in unacceptable lid warpage. BNI and Peterson are evaluating alternatives that require thermal analysis prior to design change acceptance. Peterson is increasing the number of specialized craft to support the construction of the melter frame.

Hirschfeld Steel has started to ship Annex structural steel to the Marshalling Yard. The initial shipment of 56 tons has occurred. Delivery of the structural steel is essential to support the LAW schedule to complete structural steel erection by the end of the year.

BNI's Construction and Start-up groups have been working for several months to prepare the processes and procedures necessary to test the Wet Process Overhead Crane. Construction plans to use the crane to install components and piping in the Wet Process Cells. The crane is the first component or building that is to be turned over for operations. BNI is preparing the procedures for future component turnover to Operations.

Piping and hanger installation is preceding on the -21', 3' and 28' levels. Conduit installation is proceeding on the -21' and 3' levels. Cable tray is being installed at the 28' level. Ventilation ducting and insulation is being installed at the -21', 28' and 48' levels. Fan coil units are being installed on the 28' level. Fireproofing repairs are underway at the -21', 3', 28' and 48' levels. Shield plates are being installed over the pour caves. Annex basemat construction joints and grounding straps are being installed. Structural steel and decking is being painted on the -21', 3', 28' and 48' levels. Transformers and panels are being installed at the 3' level northeast corner. Millwrights are aligning the shield doors tracks on the north and south container export bay. Construction forces are installing concrete placement forms for the 14' – 24' container export bay south wall.

		Engineering		Construction	
Commodity	UOM	Total Quantity At Completion	Release Act to Date	Install Act to Date	Install Act %
Concrete	1000 CY	28.068	27.29	23.09	82.28%
Structural Steel	1 TN	5997	5753	4705	78.46%
Pipe	1000 LF	99.965	84.66	28.31	28.32%
HVAC	1000 LB	931.19	0	0	0.00%
Cable Tray	1000 LF	16.867	15.11	8.76	51.98%
Conduit	1000 LF	161.566	65.01	20.50	12.69%
Cable & Wire	1000 LF	840.087	270.46	0	0.00%
Terminations	1000 EA	51.276	15.82	0	0.00%

Analytical Laboratory (LAB)

Structural steel installation is continuing in the northern and western sections of the facility. Structural steel bolts are being torqued as part of permanent installation activities. Girts and sag rods are being installed in the facility. Rebar, sleeve and embed installation continues in the mezzanine level. Small bore and large bore piping hangers are being installed. Monorail electrical supports are being installed in the hotcell.

Piping is being placed in the facility overhead to support future installation. LAB Project Management has determined that piping is available for installation, but not scheduled for installation, and has decided to place the piping in the overhead to ease final installation once the facility is dried in.

Small bore piping is being installed in the transfer line leak detection boxes.

Commodity	UOM	Engineering		Construction	
		Total Quantity At Completion	Release Act to Date	Install Act to Date	Install Act %
Concrete	1000 CY	16.45	9.42	10.03	60.93%
Structural Steel	1 TN	887.00	728.00	192.00	21.65%
Pipe	1000 LF	46.20	28.22	5.12	11.09%
UG Pipe	1000 LF	112.16	111.61	103.66	92.43%
Cable Tray	1000 LF	4.39	2.92	1.57	35.65%
Conduit	1000 LF	52.87	40.68	25.22	47.71%
UG Conduit	1000 LF	187.32	175.76	158.05	84.38%
Cable & Wire	1000 LF	569.82	289.73	176.50	30.97%
Terminations	1000 EA	16.52	5.19	0.78	4.72%

Balance of Facilities (BOF)

Installing of piping between the tank and building in the Fuel Oil facility is progressing.

Construction forces are continuing the installation of large bore pipes and hangers and preparing for the installation of exhaust fans in the Chiller Compressor Plant. Installation is progressing on the Water Treatment Plant Main Control Center, conduit for monitoring devices and tank lighting, and installation of piping to skids. Installing piping between the tank and building in the Fuel Oil facility. Construction forces are installing communication conduit in the Steam Plant Facility.

Pretreatment-HLW feed lines repairs are progressing. These pipes have out-of-tolerance slope requiring that the connection at the Pretreatment facility and piping installation welds be removed. The piping will be reinstalled to obtain the required 0.5% slope.

		Engineering		Construction	
Commodity	UOM	Total Quantity At Completion	Release Act to Date	Install Act to Date	Install Act %
Concrete	1000 CY	11.86	11.86	10.57	89.11%
Structural Steel	1 TN	1719.00	1719.00	99.00	5.76%
Pipe	1000 LF	35.35	26.01	8.43	23.84%
Cable Tray	1000 LF	2.77	2.77	0.00	0.00%
Conduit	1000 LF	50.95	6.98	0.96	1.89%
Cable & Wire	1000 LF	172.43	23.76	0.00	0.00%
Terminations	1000 EA	11.65	0.00	0.00	0.00%

Balance of Facilities Construction Completion Status

Facility	Engineering % Complete	Construction % Complete	Scheduled Completion Date	Value \$k
1.05 Balance of Facilities Common Scope	35%	15%	Jul-14	\$219,588
1.5A Site Work	87%	48%	Jul-14	\$95,616
1.5B Administration Building (convert from temp)	5%	0%	Jul-14	\$5,473
1.5C Cooling Tower Facility	99%	97%	Oct-06	\$6,800
1.5D Fire Water Pump House Facility	99%	96%	Oct-07	\$1,313
1.5E Fuel Oil Facility	99%	92%	Nov-06	\$1,196
1.5F Diesel Generators Facility	72%	0%	Nov-11	\$5,254
1.5G Glass Former Storage Facility	48%	8%	Sep-10	\$8,321
1.5H Guard House Facility	100%	100%	COMPLETE	\$7
1.5J Chiller Compressor Plant	92%	75%	Jun-08	\$22,174
1.5K Steam Plant Facility	100%	98%	Sep-08	\$8,516
1.5L Wet Chemical	50%	0%	Dec-13	\$4,498

Storage Facility				
1.5M Water Treatment Building	98%	65%	May-07	\$7,028
1.5N Non-Dangerous, Non-Radioactive Effluent Facility	75%	77%	Oct-07	\$1,507
1.5P Switchgear Building	94%	78%	Apr-11	\$5,993
1.5Q ITS Switchgear Building	64%	17%	Feb-12	\$4,998
1.5S Erected Tanks - Process/Potable	100%	100%	COMPLETE	\$5,216
1.5T Failed Melter Storage	14%	0%	Apr-10	\$1,608
1.5V BOF Switchgear Building	95%	79%	Apr-11	\$5,593
1.5Y Simulator Facility	46%	85%	Aug-10	\$14,940
1.5Z Anhydrous Ammonia	42%	0%	Sep-08	\$1,579

Significant Planned Actions (next six months):

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: At Risk – DOE is currently evaluating WTP cost and schedule information.
- **M-62-00A, Complete WTP Pretreatment Processing and Vitrification of Hanford HLW and LAW Tank Wastes.**
Due: 02/28/2018
Status: At Risk
- **M-62-01M, Submit Semi-Annual Project Compliance Report.**
Due: 07/31/2006
Status: Completed
- **M-62-01N, Submit Semi-Annual Project Compliance Report.**
Due: 01/31/2007
Status: On Schedule
- **M-62-01O, Submit Semi-Annual Project Compliance Report.**
Due: 07/31/2007
Status: On Schedule
- **M-62-03, Submit DOE Petition for RCRA Delisting or Vitrified HLW.**
Due: 12/31/2006
Status: Completed.
- **M-62-07B, Complete Assembly of Low Activity Waste Vitrification Facility Melter #1 So That It Is Ready for Transport and Installation in the LAW Vitrification Building (BNI Baseline Schedule Activity 4DL321A200 as Part of DOE Contract No. DEAC27-01RV14136), and Complete Schedule Activity ID 4DH46102A2 – Move #1 Melter into the High Level Waste Vitrification Facility.**
Due: 12/31/2007
Status: Unrecoverable

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

Due: 06/30/2006

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

1. Significant Accomplishments:

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

2. Significant Planned Actions in the Next Six Months:

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

3. Issues:

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

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

Due: 02/28/2009

Status: Unrecoverable

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

Due: 01/31/2011

Status: Unrecoverable

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

Due: 06/30/2007

Status: Unrecoverable. Delays in M-62-08 will cause delays in this milestone.

II. Significant Accomplishments:

- None

III. Significant Planned Actions in the Next Six Months:

- None

IV. Issues:

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

Attachment to the ORP Quarterly Milestone Review Minutes – May 17, 2007

LAW

Delivery of Annex structural steel from Hirschfeld Steel was placed in abeyance during March awaiting resolution of quality assurance issues. BNI was concerned that the structural steel installed in the LAW facility would be affected by a quality assurance (QA) issue resulting from BNI exempting their subcontractor from performing source inspections of their steel vendors. BNI's was relying on vendor records and performance history to assure that the steel met nuclear quality requirements. BNI was able to resolve the LAW steel QA issues and all Annex steel has been received on site. This supports near this year's completion of Annex structural steel erection.

LAW Project Management is continuing their efforts to deliver the first LAW melter by the end of CY08, as promised by Bechtel to the Secretary. LAW Engineering continues to work with the melter fabricator, Peterson, to develop engineering changes to the melter lid. The current configuration requires significant welding that could result in unacceptable lid warping. A redesign of the melter lid has been proposed to reduce the cooling requirements and the size of the cooling coils will reduce lid design complexity. BNI will perform a thermal analysis of the design change to ensure the lid temperature remains within design parameters.

BNI Engineering has assigned a rotating group of engineers to the melter fabricator, Peterson, shop to assist in resolving design issues. BNI and Peterson had previously resolved these issues using formal channels which resulted in long lead times. Having knowledgeable BNI personnel on site will allow quicker turnaround time for problems. These actions are intended to assure that the melter arrives on site by Dec 2008, a BNI commitment to the Secretary,

A review of the melter lid fabrication schedule shows that the delivery could be reduced by several months if all six lid sections can be fabricated in parallel. Peterson is ramping up the number of personnel in their shop to support melter fabrication.

Construction crafts have completed the placement of the Annex basemat and installation of Container Import Bay rebar. Craft is also installing conduit and preparing mudmat forms for Melter Assembly pads. LAW Construction identified these two concrete placements as areas that could be worked without being impeded by material shortages.

Melter bus acceptance and installation has opened a large work front. Ventilation ducting immediately below the bus-work is being installed, followed by piping, cable trays, and cable. Approximately 8,000 liner feet of piping will be installed north of the melter pour caves.

The procurement for the melter off-gas spools has been issued. Due to the size and complexity of the melter spools their installation is a driver for the design and installation of the piping in the Wet Process Cell. Commercial Grade Dedication issues with the spools were recently resolved.

BOF

Pretreatment-HLW feed lines repairs are progressing. These pipes have out-of-tolerance slope requiring that the connection at the Pretreatment facility and piping installation welds be removed. The piping will be reinstalled to obtain the required 0.5% slope. Realignment of the feed piping between HLW and Pretreatment was on hold for several months awaiting BNI Construction Management's implementation of a hexavalent chrome mitigation program. OSHA has decreased the allowable level of chrome exposure by a factor of 10 and BNI did not have a comprehensive program in place on the effect date of the OSHA regulations. Since the feed piping between HLW and Pretreatment is stainless steel any welding on the piping was placed on hold.

Shrink wrap is being replaced on the exposed underground piping between the HLW and Pretreatment facility. This assures that the shrink wrap temperature specifications are within the worse case temperature calculations for operations. Since the driving factor for the shrink wrap is the ground resistance against movement of the piping the buried piping will not need to have the existing wrap replaced. BNI is obtaining information data from the shrink wrap supplier that supports performance of engineering calculations that will show that the shrink wrap on the underground piping does need to be replaced.

Atlas Copco and Parsons Engineering have signed the contract to repair the Chiller Compressor facility air dryers. BNI has been working with Atlas Copco for more than a year to come up with a technical requirement for the dryers and repair requirements. The Parson Engineering contract will result in all five dryers being delivered to the Marshalling Yard by the end of June.

Dynamic Air, the fabricator for the Glass Former Storage Facility (GFSF), has a contract with Imperial for the fabrication of the GFSF silos. BNI performed an inspection of the Imperial facility and found that the welds in two of the silos were not in accordance with design drawings and the painting was unacceptable. Repairing the welds and removing the paint took two days. However, there is a three week impact to the delivery of the silos. Imperial took the GFSF silos out of the production process to make repairs and must find a period in the production process to reinsert the silos for continued fabrication.

Construction forces continue to work on the installation of commodities in the Water Treatment Building, the Fuel Oil Storage tank, the Cooling Tower, Chilled Water Compressor Building, the Steam Plant and the Non-radioactive Liquid Disposal Facility. The Steam Plant is scheduled to be essentially complete this year, ready for component testing prior to operation.

BNI has hired an Independent Corrosion Engineer which will allow the LERF lines to be inspected and buried.

LAB

Structural steel installation is continuing in the central section of the facility. Approximately 45 tons of structural steel has been installed.

Delivery of the Hot Cell Manipulators has been delayed approximately 10 months, from April 2007 to February 2008. This is not an issue for the LAW First planning because the manipulators are not required to support LAW operations but are required to support HLW and Pretreatment operations. Delivery of the manipulators will require establishment of controlled atmosphere storage in the Marshalling Yard.

BNI worked with Paxton Vierling Steel (PVS) to resolve quality deficiency reports (QDR)s that were impacting the shipment of the remaining LAB steel. BNI reviewed specific welding procedures to ensure that PVS had incorporated BNI comments. The shipping company responsible for moving the steel from PVS to the Marshalling Yard recently declared bankruptcy leaving BNI with no means of moving the steel. BNI contracted with an additional trucking company to move the steel. BNI is working with the bankruptcy bank to allow the steel to be shipped on the first shipper's trailers and not unload and reload the steel to the second shipper's trailers. Use of the first shipper's trailers saved time and money for delivery of the steel.

Piping is being placed in the facility overhead to support future installation. LAB Project Management has determined that piping is available for installation, but not scheduled for installation, and has decided to place the piping in the overhead to ease final installation once the facility is dried in.

Small bore piping is being installed in the transfer line leak detection boxes.

Status of Tracking Milestones

Activity Number	Nomenclature	Schedule Date	Current Date	Status
3EL15PD060	LAW-Flag- 28 PA04 Piping Fabrication Isometrics	1-Nov-06	30-Oct-06	Actual
4LL1414115	LAW-Flag-S/C-Install Siding North Side Main Bldg	1-Nov-06	7-Sep-06	Actual
3EB16WTBGM	BOF - Flag - EE - Water Treatment Building (86)	3-Nov-06	31-Oct-06	Actual
3EL15PD231	LAW-Flag +48 Last Planned Isometric	7-Nov-06	7-Jun-07	
3EL13CLGM4	LAW - Flag - Complete Civil Conc & Steel	10-Nov-06	9-Jun-06	Actual
4FB36100VG	BOF-Flag- DMY GFSF Transfer Piping PO Item 6	30-Nov-06	25-May-07	
4LL1414415	LAW-Flag-S/C- Install Siding West Side Main Bldg	20-Dec-06	23-Oct-06	Actual
3EL15PD145	LAW - Flag-28 PA02 Piping Fabrication Isometrics	5-Jan-07	22-Feb-07	Actual
4LL1314A65	LAW - Flag-Set Pre-Assemble Stack On Roof	10-Jan-07	27-Oct-06	Actual
4LL1612A40	LAW - Flag- Install Cable Tray PA12A EL+28	11-Jan-07	30-Oct-06	Actual
4BB12075X	BOF - Flag-Pour Silo Slab-(GFSF) Cmplt	5-Feb-07	4-Dec-06	Actual
4LL001399F	LAW -Flag- Completion of Stack Erection	8-Feb-07	2-Nov-06	Actual
4BB1000150	BOF - Flag - Complete Const - Cooling Tower	14-Feb-07	10-Nov-10	
4LL1414315	LAW-Flag-S/C-Install Siding South Side Main Bldg	14-Feb-07	10-Aug-06	Actual
4BB0BGM130	BOF - Flag - Cmpt Const Fuel Oil Pumphouse	28-Feb-07	1-Sep-09	
4LL001499F	LAW -Flag- Main Building "Closed-In"	7-Mar-07	26-Oct-06	Actual
3EB125A020	BOF- Flag-C/S LAW Pad Foundation (MAP)	19-Mar-07	15-Feb-07	Actual
3EL15P7013	LAW -Flag- 48 PA09 Piping Fabrication Isometrics	3-Apr-07	04-May-07	
3EL15P8013	LAW-Flag- 48 PA08 Piping Fabrication Isometrics	3-Apr-07	25-Apr-07	
3EL15PD154	LAW -Flag- 28 PA08 Piping Fabrication Isometrics	3-Apr-07	9-Mar-07	
4TT12GP01	LAB - Flag- Concrete Placement Complete	3-Apr-07	27-Aug-07	
3EL15PD141	LAW-Flag- 28 PA01 Piping Fabrication Isometrics	10-Apr-07	26-Apr-07	
4TT1432	LAB - Flag - Start Install Roofing	12-Apr-07	30-Jul-07	
4TT1452	LAB - Flag - Start Install Exterior Siding	18-Apr-07	12-Sep-07	
3EL15PD135	LAW - Flag-03 PA11 Piping Fabrication Isometrics	23-Apr-07	16-May-07	
3EB11SI086	BOF-Flag- Landscape Design Complete	18-May-07	17-May-11	
4BB365G15	BOF -Flag - Install Silos - (GFSF)	21-May-07	29-Aug-09	
4BB0000200	BOF - Flag-Complete Const - Erected Tanks (S/C)	23-May-07	14-Jun-07	
4TT13SSTGM	LAB - Flag - Structural Steel Cmplt	11-Jun-07	21-Nov-07	
4TT1431	LAB - Flag Install Roofing Cmpt	27-Jul-07	16-Oct-07	
4LL001398F	LAW -Flag- Complete Structural Steel in Annex	6-Aug-07	27-Jun-07	
4BB0BGM160	BOF - Flag - Cmpt Const Water Treatment Bldg	16-Aug-07	4-Mar-08	
4LL1610H40	LAW-Flag- Install Schedule Conduit PA10H EL-21	12-Sep-07	30-Oct-08	
3EL17J0628	LAW -Flag- Final Cable to Setroute (EL+03)	12-Oct-07	19-Jul-07	
4FT2722TGM	LAB-Flag HVAC DMY High Int Fans Complete	17-Oct-07	10-Apr-08	
3EL15P3012	LAW -Flag -21 PA10 Piping Fabrication Isometrics	22-Oct-07	6-Jul-07	
4BB155A011	BOF - Flag - Install Hangers/Pipe Pipe Rack 5A	2-Nov-07	25-Jul-08	
4TT00TGM	LAB -Flag - Building "Closed-In" Cmplt	28-Nov-07	21-Feb-08	

3EL17J0669	LAW -Flag- Final Cable to Setroute (EL+28)	12-Dec-07	14-Jul-06	Actual
4LL001498F	LAW -Flag- Annex Building "Closed-In"	30-Jan-08	24-Jun-08	
4BB0BGM135	BOF - Flag - Cmpt Const Fire Water Pumphouse	4-Feb-08	22-Oct-07	
4BB1000175	BOF -Flag- Cmplt Const -Non Dang, Non Rad Effl	14-Feb-08	15-May-08	
3EL15PD184	LAW - Flag-48 PA13 Piping Fabrication Isometrics	15-Feb-08	27-Oct-07	
3EL15PD155	LAW-Flag- 28 PA12 Piping Fabrication Isometrics	12-Mar-08	22-Feb-07	
3EL15PD128	LAW -Flag -68 PA00 Piping Fabrication Isometrics	17-Mar-08	27-Jun-07	
4BB165A030	BOF -Flag-Install Cable Pipe Rack 5A	1-Jul-08	2-Mar-08	
3EL17J0709	LAW - Flag - Final Cable to Setroute (EL+48)	8-Aug-08	8-Jan-08	
4BB0BGM105	BOF - Flag - Cmpt Const Chiller/Compressor Plant	3-Sep-08	17-May-10	
3ET15RIS10	LAB-Flag-Prep&IFC Remng ISO Drwgs/All Sys&Elev	17-Sep-08	23-Jun-08	



Agenda
May 17, 2007

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

Chairperson: Delmar Noyes

9:00 a.m. – 11:30 a.m.

Page	Topic	Leads	Time
3 13	<ul style="list-style-type: none"> • TPA Milestone Statistics • FY 2006 ORP TPA Cost & Schedule Performance (CHG) 	Woody Russell / Diane Clark/ Suzanne Dahl / Jeff Lyon	9:00
54	M-45, -50, -60 Single-Shell Tank Corrective Action	Bob Lober / Joe Caggiano	9:10
56	M-45-00, Complete Closure of All Single-Shell Tank Farms	Roger Quintero / Jeff Lyon	9:30
66	Interim Stabilization Consent Decree	John Long / Nancy Uziemblo	10:00
67	M-23-00, Tank Integrity and Monitoring	John Long / Jeff Lyon	10:10
68	In Tank Characterization and Summary	John Long / Michael Barnes	10:20
70	M-47-00, Tank Waste Treatment, Storage and Disposal Facilities	Jim Thompson / Les Fort	10:30
72	M-48-00, DST Integrity Assessment Program	Cathy Louie / Les Fort	10:40
74	M-90-00, Complete Acquisition of Facilities for Interim Storage of IHLW and Storage/ Disposal of ILAW and M-20, Part B Permits	Cathy Louie / Bud Derrick	10:50
	BREAK		
76	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
87	M-62-08 Bulk Vitrification/Supplemental Technologies	Ben Harp/Suzanne Dahl	11:20