

Tri-Party Agreement Milestone Review – Office of River Protection

August 26, 2003

Meeting Minutes

0061458

Approval: *Michael A. Wilson*
 Michael A. Wilson (B5-18)
 Ecology IAMIT Representative

Date: 2/24/04

Approval: *Paul Hudson for WWB*
 W. Wade Ballard (A5-12)
 RL IAMIT Representative

Date: 2/25/04

Approval: *Jim E. Rasmussen*
 Jim E. Rasmussen (H6-60)
 Chairman and ORP IAMIT Representative

Date: 2/24/04

Approval: *Nick Ceto*
 Nick Ceto (B5-01)
 EPA IAMIT Representative

Date: 2/24/04

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Minutes Prepared by:

Approval: *Eileen J. Murphy-Fitch*
 Eileen J. Murphy-Fitch (A1-14)
 Fluor Hanford, Inc. 44-25

Date: 2/24/04 **EDMC**

Aromi, E. S.	CHG	H6-63	Mattlin, E.	RL	A5-15*
Bartus, D.	EPA	B5-18*	Mauss, B.	ORP	H6-60*
Bilson, H. E.	RL	A3-04	Miera, F. R.	CHG	R1-31*
Brown, M.	Ecology	B5-18*	Morrison, R. D.	FH	A4-25*
Buxbaum, M.E.	FH	B3-53	Murphy-Fitch, E. J.	FH	A4-25*
Clark, C. E.	RL	A5-15*	K. Niles	OOE*	
Clark, D.	ORP	H6-60*	Piippo, R. E.	FH	A4-25
Cusack, L.	Ecology	B5-18*	Rasmussen, J. E.	ORP	H6-60
Dahl, S.	Ecology	B5-18*	Ramsay, M.	ORP	H6-60
DeWitt, K.	Ecology	B5-18	Rodriguez, H. M.	RL	A5-15
Dixon, B. T.	CHG	R1-51	Russell, W.	ORP	H6-60*
Duncan, G. P.	CHG	R3-76	Singleton, D.	Ecology	B5-18
Fowler, S. B.	CHG	H6-22*	Skinnarland, E. R.	Ecology	B5-18
Gay, R.	CTUIR		Sobotta, P.	NPT	
Hansen, J. L.	ORP/Inn	H6-60*	Stanley, R.	Ecology	Lacey*
Hebdon, J.	RL	A5-12*	Stevens, A.	ORP	H6-60
Hedges, J.	Ecology	B5-18*	Taylor, W.	ORP	H6-60*
Henry, D.	OOE*		Uziemblo, N. H.	Ecology	B5-18*
Hertz, J. S.	FH	A4-25	Vinson, R.	PEC	H6-60
Jentzen, B.	Ecology	B5-18*	Williams, D. J.	ORP	H6-60*
Jim, R.	YIN		Yasek, R.	ORP	H6-60
Keggen, D.	Ecology	B5-18*	Administrative Record	EDMC	H6-08*
LaMont, P.	ORP	H6-60	*w/Attachments		
Lober, R.	ORP	H6-60			
Liou W.	ORP	H6-60			

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FY 2003 ORP Tri-Party Agreement Milestone Performance

To date, 23 Tri-Party Agreement milestones have been completed in FY 2003. The nine remaining FY 2003 milestones will be completed on or ahead of schedule. Clarification was provided on DSA; the Tank Farm Documented Safety Analysis (DSA) is the new term for FSAR.

No significant regulatory issues/concerns resulting in follow-on actions were identified. Presentation attached.

M-043-00, Tank Farm Upgrades

Construction began in the SY Tank Farm March 17, 2003, completing Tri-Party Agreement Interim Milestone M-043-16 three months ahead of schedule (due June 30, 2003). Tri-Party Agreement Major Milestone M-043-00, *Complete Tank Farm Upgrades*, is forecast to be completed on schedule. Projects W-314 and E-525 are on schedule to complete Tank Farm upgrades in FY 2005.

No significant regulatory issues/concerns resulting in follow-on actions were identified. Presentation attached.

M-046-00, Double Shell Tank Space Evaluation

Tri-Party Agreement Interim Milestone M-046-00J will be completed by the September 30, 2003 due date. Scenarios and modeling plans were discussed with Ecology. Modeling and document preparation continue. Tri-Party Agreement Interim Milestone M-046-21, *Complete Implementation of DST Space Optimization Study Recommendations*, was discussed at length. Details for implementing the recommendation are on pages 33 and 34 of the presentation.

Action: Meet to discuss retrieval sequence, space evaluation and assumptions being used.
Actionee(s): Cathy Louie/Brenda Jenson, Jeff Lyon, Jeff Vgood

Presentation attached.

M-047-00, Tank Waste Treatment, Storage and Disposal Facilities

The M-047 series milestones will be completed on or ahead of schedule. The Evaporator campaign 3 began June 28, 2003, and finished July 13, 2003. The campaign achieved an approximate 39% waste volume reduction; final laboratory data is still pending.

No significant regulatory issues/concerns resulting in follow-on actions were identified. Presentation attached.

Interim Stabilization (Consent Decree)

Approximately 39,000 gallons of waste were pumped in July bringing the number of gallons of waste pumped in FY 2003 to roughly 538,000 gallons. Approximately 3 million gallons of waste have been removed from the SSTs since pumping began in 1998. At the end of July, the estimated percentage of pumpable liquid remaining (PLR) was roughly 2.8%; the volume to be pumped to achieve the 2% PLR was roughly 24,000 gallons; approximately 62,000 gallons of waste will remain in unstabilized SSTs upon completion of the 2% PLR Consent Decree Milestone for FY 2004. Pumping operations are roughly two days ahead of schedule.

The Consent Decree target dates will not be met as scheduled. The delays in these milestones will not impact any Tri-Party Agreement milestones. Pumping durations are based on "best estimates" of Pumpable liquid volumes, tank waste drainage rates, and operating efficiencies of saltwell pumping systems; however, considerable uncertainty exists in pumping durations and can be on the order of +/- one or two months. Detailed status of the Consent Decree target dates are on Page 17 of the presentation. There was a brief discussion on a public review update.

Action: Provide draft HNF-2978, Revision 5 to Ecology
Actionee: Andy Stevens

M-045-00, SST Closure

The renegotiation of the Second Phase SST Waste Retrieval activities will begin in October 2003 to support the February 28, 2004 completion date. The annual updates to the SST Retrieval Sequence Document will be completed by September 30, 2003 (Tri-Party Agreement Milestone M-045-02L). The SST Retrieval Sequence and DST Space Evaluation document will be combined into a single report (RPP-8554, Rev. 2) which covers two cases – a target case based on the RPP System Plan Rev. 2., and a Tri-Party Agreement compliant case. Tri-Party Agreement target date M-045-05K-T01, *Complete C-106 Waste Retrieval and Closure Demonstration Project Construction*, was completed and submitted to Ecology six weeks ahead of the September 30, 2003, due date.

The SST System Closure Plan, Revision 1, is on hold. Without that, ORP cannot grout. Ecology raised concern on:

- ✓ Getting tanks as empty as possible
- ✓ Is there a plan for additional equipment/options if needed
- ✓ Revise plan to restate retrieval goal
- ✓ Process for selection of the retrieval technology should be included in future SST retrieval Functions and Requirements (F&R) documents
- ✓ Meeting(s)/workshop(s) do not constitute formal documentation (was allowed for C-106; however, future SST retrieval should address this information in the F&R documents submitted to Ecology for approval)

The parties did agree to release the C-106 Enhanced Sluicing Process Control Plan with the understanding that the future plan will be different. There is a need for a description of the selection/decision process and why the choice was selected. F&R should include a detailed discussion on why the strategy is the best – "why" should inherently be part of the "how."

The status of the deliverables identified in the Integrated Mission Execution Schedule (IMES) were included in the presentation at Ecology's request.

No significant regulatory issues/concerns resulting in follow-on actions were identified. Presentation attached.

M-045-50, 60 SST Corrective Actions

Ecology and ORP staff met April 21, 2003, to revise the M-045, -050, and -060 milestone series to reflect projected work in the SST Farm vadose zone characterization. ORP staff provided a preliminary draft of the change package language to Ecology on June 3, 2003.

No significant regulatory issues/concerns resulting in follow-on actions were identified. Presentation attached.

M-023, Tank Integrity and Monitoring

The two remaining FY 2003 Tri-Party Agreement Milestones will be completed on or ahead of schedule. During the replacement of the liquid observation well (LOW) in TX-116, the LOW was damaged. That LOW will be removed and a replacement installed (currently scheduled to be done November 6, 2003).

Action: Provide Ecology with the date the LOW was installed and then damaged
Actionee: Deb Williams/Sandra Fowler

M-048-00, DST Integrity Assessment Program

Tri-Party Agreement Milestone M-048-11 is on schedule. Inspections were completed for AP-101, AP-103, AP-105 and AZ-102. However, not all of the analysis will be completed by the due date. A letter will be sent sometime during the first quarter of FY 2004.

Tri-Party Agreement Milestone M-048-02, Submit to Ecology a Report Assessing Technology Development, will be complete in September 2003. SAFT/TSAFT equipment was successfully deployed in December 2003 and the last Technology Development Report was transmitted in March 2003.

No significant regulatory issues/concerns resulting in follow-on actions were identified. Presentation attached.

M-045-11, Complete 244-AR Vault Interim Status Actions

Milestone was completed six weeks ahead of schedule on August 18, 2003. No significant regulatory issues/concerns resulting in follow-on actions were identified. Presentation attached.

In Tank Characterization and Summary

The status of the Tank Characterization Reports (TCR) was provided. No significant regulatory issues/concerns resulting in follow-on actions were identified. Presentation attached.

M-090-00, Complete Acquisition of Facilities for Interim Storage of IHLW and Storage/Disposal of ILAW and M-20 Part B Permits

All FY 2003 deliverables were completed. Significant accomplishments include the approval to reduce dose rate and heat load for IHLW; value engineering session for Project W-464 Detailed Design, Released update to W-464 Level I Spec; update to the Design Requirements Document for W-464, update to IDF Level 1 Spec; and hazardous analysis for IDF. Ecology agreed to a 14-month permitting schedule for IDF.

Ecology requested a briefing on alternatives for lag storage.

Action: Schedule meeting with Ecology to discuss alternatives for lag storage. Ecology would like an ORP manager discussion as well.

Actionee: Suzanne Dahl/Phil LaMont

M-062, Complete Pretreatment Processing and Vitrification of Tank Wastes

Tri-Party Agreement Change Request M-062-03- is going through public comment which concludes September 11, 2003. When approved, the M-062 milestones will be modified.

Ecology approved the WTP NESHAPs application to modify the WTP to the 2+2 melter configuration. The permit modification for technetium will follow the 2+2 melter permit modification. Ecology would like a "back of the envelope" risk assessment numbers for this – why it is okay to dispose ILAW with IDF; numbers with technetium in and out, include source term from the secondary waste streams coming from ETF (and anywhere else).

The WTP permit condition requires BNI to attain 4-9's (99.99%) destruction efficiency of organics in the melter system. As the design work continues, some of the design packages will reflect that requirement. continue to design and request approval to construct, some of the design packages are reflective of that requirement. If we are unable to attain this level of destruction, Ecology will not approve design packages that would install equipment that is affected by that permit requirement. ORP sent a letter to Ecology informing them that they are working on meeting that requirement and it appears that our calculations show it is attainable. ORP and its contractor are moving forward with these activities based on the intentions to meet the requirement.

Action: Arrange a meeting between Ecology and ORP to discuss what can be done/cannot be done while transferring ILAW packages (not just ability to load and transport but to dispose of them as well)

Actionee: Suzanne Dahl, Mark Ramsay

M-092-05, Inclusion of Hanford Site Cs/Sr Treatment and/or Repackaging Parameters in DGE TWRS Phase II Request for Proposals

This milestone is now being reported separately as part of the Central Plateau Project presentation.

In-tank Characterization and Summary

Ecology questioned how the activities and completion dates identified in the Integrated Mission Execution Schedule were completed; specifically, how can the DQO process be complete without

Ecology involvement. RL used C-106 as a template to build the C-200 DQO. The parties need to reach agreement on how DQO's will be done in the future. The milestones for closure of tanks remains Ecology's priority.

LDR Assessment Status

ORP is looking at the feasibility to consolidate the assessment process. Assessments are under Tri-Party Agreement milestone series M-023, M-045, and M-048. They would like to take credit for those assessments under M-026 (Land Disposal Restriction Report). When CHG completes the analysis, ORP will provide Ecology and EPA a copy/discuss at brown bag, or schedule a meeting.

ATTENDEES

**Office of River Protection
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<u>NAME</u>	<u>ORGANIZATION</u>	<u>MAILSTOP</u>	<u>ATTACHMENTS</u>
John Cox	DTUIR		
Suzanne Loh	Ecology		
Sandra Foster	CH2M HILL		
Moses JARAYESI	CH2M HILL		
Gil Ramin	ORP		
JOE CAGGIANO	ECOLOGY		
Laura Usack	ecology		✓
Nick Ceto	EPA		
Ron Skinnard	Ecology		
JANE HEDGES	Ecology		
Melinda Brown	Ecology		✓
Nancy Uziarolo	Ecology		
DEANNA HENRY	DREASON ENERGY		
Jeff Lynn	Ecology		✓
Diane Clark	DOE		
Phil LaMont	ORP		
KEN BURGARD	CH2M HILL		
Brenda Jentzen	Ecology		
Deborah Singleton	Ecology		
Moses Jaryas	ORP		
Andy Stevens	ORP		
Tom Murphy	PH TRM		
Pat Galt	ORP		
Vic Calhoun			



CH2MHILL
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TPA FY Summary

July 2003

Milestone Key

* - TPA change request modifies milestone. (Note CHG has not been formally notified of changes.)
TPA change request M-45-02-04 changes the due date for M-045-55-T03 to 01/31/2005.

** - Equipment was developed and deployed in December 2002. A closure document will be submitted to ORP prior to 9/30/2003.

Red - In Jeopardy

Orange - Overdue

Purple - Waste Treatment Plant

Blue or Blue Highlight - Document Deliverable

Green - Proposed Milestone or Milestone Due Date

FY Quarter	Milestone No.	Milestone Due Date	Contractor Manager	DOE Contacts	Description	110-Day Notification
1st Quarter FY 2003 October - December	D-001-02-T01	3/30/2001	R.J. Cash	A.J. Stevens	D-001-02-T01 Complete Pumping of S-102, S-106, and S-103	12/15/2000
2nd Quarter FY03 January - March	D-001-08-T01	2/28/2003	R.J. Cash	A.J. Stevens	D-001-08-T01 Complete Pumping of SX-105, SX-103, SX-101 & U-106	11/11/2002
3rd Quarter FY03 April - June	D-001-09-T01	6/30/2003	R.J. Cash	A.J. Stevens	D-001-09-T01 Complete Pumping of BY-105 BY106	3/12/2003
4th Quarter FY03 July - September	D-001-11-T01	8/30/2003	R.J. Cash	A.J. Stevens	D-001-R17 DOE Shall	5/13/2003
	D-001-00V	9/30/2003	R.J. Cash	A.J. Stevens	D-001-00V The Percentage of Pumpable Liquid Remaining to be Removed (Will be Equal to or Less than) 2% of Total Liquid	6/12/2003
	D-001-06-T01	9/30/2003	R.J. Cash	A.J. Stevens	D-001-06-T01 Complete Pumping of A-101 & AX-101	6/12/2003
	D-001-13-T01	9/30/2003	R.J. Cash	A.J. Stevens	D-001-13-T01 Complete Pumping of U-111, S-109, S-112, S-101, and S-107	6/12/2003
	M-023-25D	9/30/3003	T.L. Sams	B. Mauss	M-023-25D Complete the Installation of Liquid Observation Wells (LOWs) and Begin Weekly Liquid Observation Monitoring for Four SSTs	6/12/2003
	M-023-26	9/30/2003	T.L. Sams	B. Mauss	M-023-26 Submit to Ecology, as a Primary Document, a Schedule for Performaing Liquid Level Assessments for 241-AX-151-CT, 241-BY-ITS2 Tank 2, 241-AX-IX, 241-BY-ITS1.	6/12/2003
	M-045-02L	9/30/2003	T.L. Sams	A.J. Stevens	M-045-02L Submit Annual Update of SST Retrieval Sequence Document	6/12/2003
	M-045-11	9/30/2003	K.C. Dorwick	G.M. Ramin	M-045-11 Complete 244-AR Vault Interim Stabilization	6/12/2002
	M-046-00J	9/30/2003	J.A. Voogd	C.S. Louie	M-046-00J Double-Shell Tank Space Evaluation	6/12/2003
	M-048-02G **	9/30/2003	G.P. Duncan	V.L. Callahan	M-048-02G Submit to Ecology a Report Assessing Technology Development	6/12/2003
	M-048-11	9/30/2003	G.P. Duncan	V.L. Callahan	M-048-11 Submit Results of (4) DST'S Not Previously Examined	6/12/2003
M-045-05K-T01	9/30/2003	T.L. Sams	A.J. Stevens	M-045-05K-T01 Complete C-106 Waste Retrieval and Closure Demonstration Project Construction	6/12/2003	

FY Quarter	Milestone No.	Milestone Due Date	Contractor Manager	DOE Contacts	Description	110-Day Notification
1st Quarter FY 2004 October - December	D-001-00-R18	10/31/2003	R.J. Cash	A.J. Stevens	D-001-00-R18 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	7/12/2003
	M-062-07A	10/31/2003	P. Peistrap	K.C. Burgard	M-062-07A Initial Erection of Low-Activity Waste Vitrification Facility Elevation - 21' Structural Steel Columns, Beams, and Q Deck at Elevation +3	7/12/2003
	M-045-05L-T01	11/1/2003	T.L. Sams	A.J. Stevens	M-045-05L-T01 Complete Full Scale C-106 Waste Retrieval	8/12/2003
	M-046-01J	11/30/2003	J.A. Voogd	C.S. Louie	M-046-01J Concurrence of Additional Tank Acquisition	8/12/2003
	D-001-14-T01	12/30/2003	R.J. Cash	A. J. Stevens	D-001-14-T01 Complete pumping of C-103	9/12/2003
2nd Quarter FY 2004 January - March	D-001-00-R19	1/31/2004	R.J. Cash	A.J. Stevens	D-001-00-R19 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	10/13/2003
	M-062-01H	1/31/2004	P. Peistrap	K.C. Burgard	M-062-01H Submit Semi-Annual Project Compliance Report	10/13/2003
	M-045-05M-T01	2/27/2004	T.L. Sams	A.J. Stevens	M-045-05M-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	11/10/2003
	M-045-00C	2/28/2004	T.L. Sams	A.J. Stevens	M-045-00C Complete Renegotiation of Second Phase (I.E., 9/30/2006 Through 9/30/2015) SST Waste Retrieval Activities	11/11/2003
	M-045-55	2/28/2004	F.J. Anderson	R.M. Yasek	M-045-55 Submit to Ecology for Review and Approval as an Agreement	11/11/2003
	M-023-25F	3/31/2004	T.L. Sams	B.M. Mauss	M-023-25F Complete the Installation of Liquid Observation Wells (LOWs) and Begin Weekly Liquid Observation Monitoring for Four Additional SSTs	12/11/2003
M-045-05B	3/31/2004	T.L. Sams	A.J. Stevens	M-045-05B Complete S-102 Initial Retrieval Project Design	12/11/2003	
3rd Quarter FY 2004 April - June	D-001-00-R20	4/30/2004	R.J. Cash	A.J. Stevens	D-001-00-R20 DOE Shall, on a Quarterly Basis, Submit to Ecology a Written	1/11/2004
	M-045-05-T17	4/30/2004	T.L. Sams	A.J. Stevens	M-045-05-T17 Submit Second Tank Initial Waste Retrieval Functions and Requirements Document	1/11/2004
	M-045-05H	4/30/2004	T.L. Sams	A.J. Stevens	M-045-05H Interim Completion of Tank C-106 SST Waste Retrieval and Closure Demonstration Project	1/11/2004
	M-047-05	5/31/2004	J.G. Kristofzski	C.S. Louie	M-047-05 Start Construction of Waste Retrieval and Mobilization Systems for selected Initial Low-Activity Waste Feed Tank	2/12/2004
	M-045-03G	6/30/2004	T.L. Sams	A.J. Stevens	M-045-03G Complete C-104 Sludge/Hard Heel, Confined Sluicing and Robotic Technologies, Waste Retrieval Cold Demonstration	3/12/2004
	M-045-06-T06	6/30/2004	T.L. Sams	A.J. Stevens	M-045-06-T06 Submit Tank Farm Closure/Post-Closure Workplan Update	3/12/2004
	M-045-06-T20A	6/30/2004	T.L. Sams	A.J. Stevens	M-045-06-T20A Submit SST System Implementation Plan in Support of Retrieval and Closure Activities.	3/12/2004

FY Quarter	Milestone No.	Milestone Due Date	Contractor Manager	DOE Contacts	Description	110-Day Notification
4th Quarter FY 2004 July - September	M-047-03	7/30/2004	J.G. Kristofzski	C.S. Louie	M-047-03 Start Construction of Waste Retrieval and Mobilization	4/11/2004
	D-001-00-R21	7/31/2004	R.J. Cash	A.J. Stevens	D-001-00-R21 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	4/12/2004
	M-062-01I	7/31/2004	P. Peistrap	K.C. Burgard	M-062-01I Submit Semi-Annual Project Compliance Report	4/12/2004
	D-001-00	9/30/2004	R.J. Cash	A.J. Stevens	D-001-00 DOE Shall Complete Interim Stabilization of all 29 Single-Shell Tanks	6/12/2004
	M-023-25	9/30/2004	T.L. Sams	B. Mauss	M-023-25 Complete the Installation of Liquid Observation Wells (LOWs) for SSTs AX-103, B-101, T-109, TX-103, TX-104, B-107, B-108, B-109, BY-108, BX-110, TX-116, C-102, C-105, BX-109, TY-105, U-110, A-106, C-112, SX-111, SX-112, S-107, C-103, and TX-105	6/12/2004
	M-023-25G	9/30/2004	T.L. Sams	B. Mauss	M-023-25G Complete the Installation of Liquid Observation Wells (LOWs) and Begin Weekly Liquid Observation Monitoring for Four Additional SSTs	6/12/2004
	M-045-02M	9/30/2004	T.L. Sams	A.J. Stevens	M-045-02M Submit Annual Update of SST Retrieval Sequence Document	6/12/2004
	M-045-03E	9/30/2004	T.L. Sams	A.J. Stevens	M-045-03E Complete S-112 Saltcake Waste Retrieval Technology Demonstration Construction	6/12/2004
	M-045-03H	9/30/2004	K.C. Dorwick	A.J. Stevens	M-045-03H Complete C-104 Sludge/Hard Heel, Confined Sluicing and Robotic	6/12/2004
	M-046-00K	9/30/2004	J.A. Joogd	C.S. Louie	M-046-00K Double-Shell Tank Space Evaluation	6/12/2004
M-048-12	9/30/2004	G.P. Duncan	B.M. Mauss	M-048-12 Submit Results of (4) DST's Not Previously Examined	6/12/2004	
1st Quarter FY 2005 October - December	D-001-00-R22	10/31/2004	R.J. Cash	A.J. Stevens	D-001-00-R22 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	7/12/2004
	M-046-01K	11/30/2004	T.L. Sams	C.S. Louie	M-046-01K Concurrence of Additional Tank Acquisition	8/12/2004
	M-045-05N-T01	12/31/2004	T.L. Sams	C.S. Louie	M-045-05N-T01 Final Completion of Tank C-106 SST Retrieval and Closure Demonstration Project	9/13/2004
2nd Quarter FY 2005 January - March	M-062-01J	1/31/2005	P. Peistrap	K.C. Burgard	M-062-01J Submit Semi-Annual Project Compliance Report	10/12/2004
	M-090-08	2/28/2005	G.L. Parsons	P.E. LaMont	M-090-08 Initiate ILAW Disposal Facility Construction	11/11/2004
	M-045-06-B	3/31/2005	T.L. Sams	C.S. Louie	M-045-06-B Submit a Certified (Framework) SST System Closure Plan Modification and S-112 Waste Retrieval and Closure Demonstration Plan as a Hanford Site Wide Hazardous Waste Facility Permit Modification to Ecology	
	M-045-55-T03 *	1/31/2005	F.J. Anderson	R.M. Yasek	M-045-55-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 1 RFI/CMS Workplan Addenda for WMA T and WMA TX-TY	10/13/2004
3rd Quarter FY 2005 April - June	M-043-00	6/30/2005	J.A. Joogd	C.S. Louie	M-043-00 Complete tank Farm Upgrades	3/12/2005

FY Quarter	Milestone No.	Milestone Due Date	Contractor Manager	DOE Contacts	Description	110-Day Notification
4th Quarter FY 2005 July - September	M-062-01K	7/31/2005	P. Peistrap	K.C. Burgard	M-062-01K Submit Semi-Annual Project Compliance Report	4/12/2005
	M-062-08	7/31/2005	P. Peistrap	K.C. Burgard	M-062-08 Submittal of Hanford Tank Waste Phase II treatment Alternatives Report	4/12/2005
	M-045-02N	9/30/2005	T.L. Sams	A.J. Stevens	M-045-02N Submit Annual Update of SST Retrieval Sequence Document	6/12/2005
	M-045-03C	9/30/2005	T.L. Sams	A.J. Stevens	M-045-03C Complete Full Scale Saltcake Waste Retrieval Technology Demonstration at Single-Shell Tank S-112	6/12/2005
	M-046-00L	9/30/2005	T.L. Sams	C.S. Louie	M-046-00L Double-Shell Tank Space Evaluation	6/12/2005
	M-048-13	9/30/2005	G.P. Duncan	B.M. Mauss	M-048-13 Submit Results of (4) DST'S Not Previously Examined	6/12/2005
1st Quarter FY 2006 October - December	M-045-05C	11/30/2005	T.L. Sams	A.J. Stevens	M-045-05C Complete S-102 Initial Waste Retrieval Project Construction	8/12/2005
	M-046-01L	11/30/2005	T.L. Sams	C.S. Louie	M-046-01L Concurrence of Additional Tank Acquisition	8/12/2005
	M-062-07B	11/30/2005	P. Peistrap	K.C. Burgard	M-062-07B Complete Assembly of Low Activity Waste Vitrification Facility Melter #1 so that it is Ready for Transport and Installation in the LAW Vitrification Building	8/12/2005
2nd Quarter FY 2006 January - March	M-062-01L	1/31/2006	P. Peistrap	K.C. Burgard	M-062-01L Submit Semi-Annual Project Compliance Report	10/12/2005
	M-047-01	3/31/2006	J.G. Kristofzski	C.S. Louie	M-047-01 Complete Construction of the Transfer System from the 241-AP Tank Farm to the BNFL Facility to Support the Start of Hot Commissioning of the Phase 1 Tank Waste Treatment Complex	12/12/2005
	M-048-14	3/31/2006	G.P. Duncan	B.M. Mauss	M-048-14 Submit Written Integrity Report for the Double-Shell Tank System	12/12/2005
3rd Quarter FY 2006 April - June	M-047-05A	4/30/2006	J.G. Kristofzski	C.S. Louie	M-047-05A Complete Startup and Turnover Activities for Waste Retrieval and Mobilization systems for Selected Initial Low-Activity Waste Feed Tank	1/12/2006
	M-045-05E	6/30/2006	T.L. Sams	A.J. Stevens	M-045-05E Complete Second Tank Initial Retrieval Project Design	3/12/2006
	M-045-13	6/30/2006	T.L. Sams	A.J. Stevens	M-045-13 Interim Completion of Tank S-112 SST Waste Retrieval and	3/12/2006
4th Quarter FY 2006 July - September	M-062-01M	7/31/2006	P. Peistrap	K.C. Burgard	M-062-01M Submit Semi-Annual Project Compliance Report (Report will continue on a semi-annual bases as needed.)	4/12/2005
	M-045-06-C	8/31/2006	T.L. Sams	A.J. Stevens	M-045-06-C Submit a Certified (Framework) SST System Closure Plan Modification and S-102 Waste Retrieval and Closure Demonstration Plan, as a Hanford Site-Wide Hazardous Waste Facility Permit Modification to Ecology	5/14/2006
	M-045-00B	9/30/2006	T.L. Sams	A.J. Stevens	M-045-00B Complete "Near Term" SST Waste Retrieval	6/12/2006
	M-045-02O	9/30/2006	T.L. Sams	A.J. Stevens	M-045-02O Submit Annual Update of SST Retrieval Sequence Document	6/12/2006
	M-045-03I	9/30/2006	T.L. Sams	A.J. Stevens	M-045-03I Complete C-104 Sludge/Hard Heel, Confined Sluicing and Robotic Technologies, Waste Retrieval Demonstration Construction	6/12/2006
	M-045-05A	9/30/2006	T.L. Sams	A.J. Stevens	M-045-05A Complete Initial Waste Retrieval from Tank S-102	6/12/2006
	M-046-00M	9/30/2006	T.L. Sams	C.S. Louie	M-046-00M Double-Shell Tank space Evaluation	6/12/2006

FY Quarter	Milestone No.	Milestone Due Date	Contractor Manager	DOE Contacts	Description	110-Day Notification
1st Quarter FY 2007 October - December	M-046-01M	11/30/2006	J.A. Voogd	C.S. Louie	M-046-01M Concurrence of Additional Tank Acquisition	8/12/2006
	M-062-03	12/31/2006	P. Peistrap	K.C. Burgard	M-062-03 Submit DOE Petition for RCRA Delisting of vitrified HLW	9/12/2006
2nd Quarter FY 2007 January - March	M-047-03A	2/28/2007	J.G. Kristofzski	C.S. Louie	M-047-03A Complete Startup and Turnover Activities for Waste Retrieval and Mobilization Systems for Selected Initial High-Level Waste Feed Tank	11/11/2006
	M-047-02	3/31/2007	J.G. Kristofzski	C.S. Louie	M-047-02 Complete Startup and Turnover Activities for Required Transfer System Upgrades to Allow Transfer of First High-Level Waste Feed to the	12/12/2006
3rd Quarter FY 2007 April - June	M-047-04	6/30/2007	J.G. Kristofzski	C.S. Louie	M-047-04 Complete Startup and Turnover Activities for Required Transfer System Upgrades to Allow Transfer of First Low-Activity Waste Feed to the Pretreatment/Treatment Complex	3/12/2007
	M-045-06-D	6/30/2007	T.L. Sams	A.J. Stevens	M-045-06-D Submit a Certified (Framework) SST System Closure Plan Modification and C-104 Waste Retrieval and Closure Demonstration Plan, as a Hanford Site-Wide Hazardous Waste Facility Permit Modification to Ecology	3/12/2007
	M-045-13-T01	6/30/2007	T.L. Sams	A.J. Stevens	M-045-13-T01 Final Completion of Tank S-112 SST Retrieval and Closure Demonstration Project	3/12/2007
	M-045-15	6/30/2007	T.L. Sams	A.J. Stevens	M-045-15 Interim Completion of Tanks S-102 SST Waste Retrieval and Closure Demonstration Project	3/12/2007
4th Quarter FY 2007 July - September	M-045-02P	9/30/2007	T.L. Sams	A.J. Stevens	M-045-02P Submit Annual Update of SST Retrieval Sequence Document	6/12/2007
	M-045-03F	9/30/2007	T.L. Sams	A.J. Stevens	M-045-03F Complete Full Scale Sludge/Hard Heel, Confined Sluicing and Robotic Technologies, Waste Retrieval Demonstration at Tank C-104	9/30/2007
	M-045-05-T05	9/30/2007	T.L. Sams	A.J. Stevens	M-045-05-T05 Initiate Tank Retrieval from Five Additional Single-Shell Tanks	6/12/2007
	M-048-15	9/30/2007	G.P. Duncan	B.M. Mauss	M-048-15 Submit a Report to Ecology for the Re-Examination of Six (6) DSTs by Ultrasonic Testing	6/12/2007
1st Quarter FY2008 October - December	M-062-09	12/31/2007	P. Peistrap	K.C. Burgard	M-062-09 Start (HOT) Commissioning - Phase I Treatment Complex	9/12/2007

FY Quarter	Milestone No.	Milestone Due Date	Contractor Manager	DOE Contacts	Description	110-Day Notification
3rd Quarter FY 2008 April - June	M-045-14	6/30/2008	T.L. Sams	A.J. Stevens	M-045-14 Interim Completion of Tank C-104 SST Waste Retrieval and Closure Demonstration Project	3/12/2008
	M-045-15-T01	6/30/2008	T.L. Sams	A.J. Stevens	M-045-14-T01 Final Completion of Tank S-102 SST Retrieval and Closure Demonstration Project	3/12/2008
4th Quarter FY 2008 July - September	M-090-10	8/31/2008	G.L. Parsons	P.E. LaMont	M-090-10 Initiate Placement of ILAW Waste Canisters in ILAW Disposal	5/14/2008
	M-045-02Q	9/30/2008	T.L. Sams	A.J. Stevens	M-045-02Q Submit Annual Update of SST Retrieval Sequence Document	6/12/2008
	M-45-05F	9/30/2008	T.L. Sams	A.J. Stevens	Complete Second Initial Waste Retrieval Project Construction	6/12/2008
	M-045-05-T06	9/30/2008	T.L. Sams	A.J. Stevens	M-045-05-T06 Initiate Tank Retrieval from Five Additional Single-Shell Tanks	6/12/2008
1st Quarter FY 2009 October - December	M-045-06E	12/31/2008	T.L. Sams	A.J. Stevens	M-045-06-E Submit a Certified (Framework) SST System Closure Plan Modification and C-104 Waste Retrieval and Closure Demonstration Plan, as a Hanford Site-Wide Hazardous Waste Facility Permit Modification to Ecology	9/13/2008
3rd Quarter FY 2009 April - June	M-090-11	6/30/2009	G.L. Parsons	P.E. LaMont	M-090-11 Complete Canister Storage Facility Construction (W-464 Startup)	3/12/2009
	M-045-14-T01	6/30/2009	T.L. Sams	A.J. Stevens	M-045-14-T01 Final Completion of Tank C-104 SST Retrieval and Closure Demonstration Project	3/12/2009
4th Quarter FY 2009 July - September	M-045-02R	9/30/2009	T.L. Sams	A.J. Stevens	M-045-02R Submit Annual Update of SST Retrieval Sequence Document	6/12/2009
	M-045-05-T07	9/30/2009	T.L. Sams	A.J. Stevens	M-045-05-T07 Initiate Tank Retrieval from Seven Additional SSTs	6/12/2009
1st Quarter FY 2010 October - December	M-045-05G-T01	10/31/2009	T.L. Sams	A.J. Stevens	M-045-05G-T01 Complete S-105, S-106, and S-103 Waste Retrieval	7/12/2009

FY Quarter	Milestone No.	Milestone Due Date	Contractor Manager	DOE Contacts	Description	110-Day Notification
3rd Quarter FY 2010 April - June	M-047-06	6/30/2010	J.G. Kristofzski	C.S. Louie	M-047-06 Complete Negotiation of Additional Agreement Requirements (Milestones, Target Dates, and Associated Language) Governing Work Necessary to Support Completion of Treatment Complex Phase 1 Operations By 2018	3/12/2010
4th Quarter FY 2010 July - September	M-045-16	7/31/2010	T.L. Sams	A.J. Stevens	M-045-16 Interim Completion of Tank S-105, S-106, and S-103 SST Waste Retrieval and Closure Demonstration Project	4/12/2010
	M-045-02S	9/30/2010	T.L. Sams	A.J. Stevens	M-045-02S Submit Annual Update of SST Retrieval Sequence Document	6/12/2010
	M-045-05-T08	9/30/2010	T.L. Sams	A.J. Stevens	M-045-05-T08 Initiate Tank Retrieval from Eight Additional Single-Shell Tanks	6/12/2010
2nd Quarter FY2011 January - March	M-062-10	1/31/2011	P. Peistrap	K.C. Burgard	M-062-10 Complete Hot Commissioning - Phase I Treatment Complex	10/11/2010
3rd Quarter FY 2011 April - June	M-045-00D	6/30/2011	T.L. Sams	A.J. Stevens	M-045-00D Complete Renegotiation of the Remainder of the SST Waste Retrieval and Closure Program	3/12/2011
4th Quarter FY 2011 July - September	M-045-16-T01	7/31/2011	T.L. Sams	A.J. Stevens	M-045-16-T01 Final Completion of tank S-105, S-106, and S-103 SST Retrieval and Closure Demonstration Project	4/12/2011
	M-045-02T	9/30/2011	T.L. Sams	A.J. Stevens	M-045-02T Submit Annual Update of SST Retrieval Sequence Document	6/12/2011
	M-045-05-T09	9/30/2011	T.L. Sams	A.J. Stevens	M-045-05-T09 Initiate Tank Retrieval from Ten Additional Single-Shell Tanks	6/12/2011
2nd Quarter FY 2012 January - March	M-045-06-T03	3/31/2012	T.L. Sams	A.J. Stevens	M-045-06-T03 Initiate Closure Actions on an Operable Unit or Tank Farm Basis	12/11/2012
4th Quarter FY 2012 July - September	M-045-02U	9/30/2012	T.L. Sams	A.J. Stevens	M-045-02U Submit Annual update of SST Retrieval Sequence Document	6/12/2012
	M-045-05-T10	9/30/2012	T.L. Sams	A.J. Stevens	M-045-05-T10 Initiate Tank Retrieval from 12 Additional Single-Shell Tanks	6/12/2012

Office of River Protection

Tri-Party Agreement
Quarterly Milestone Review



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

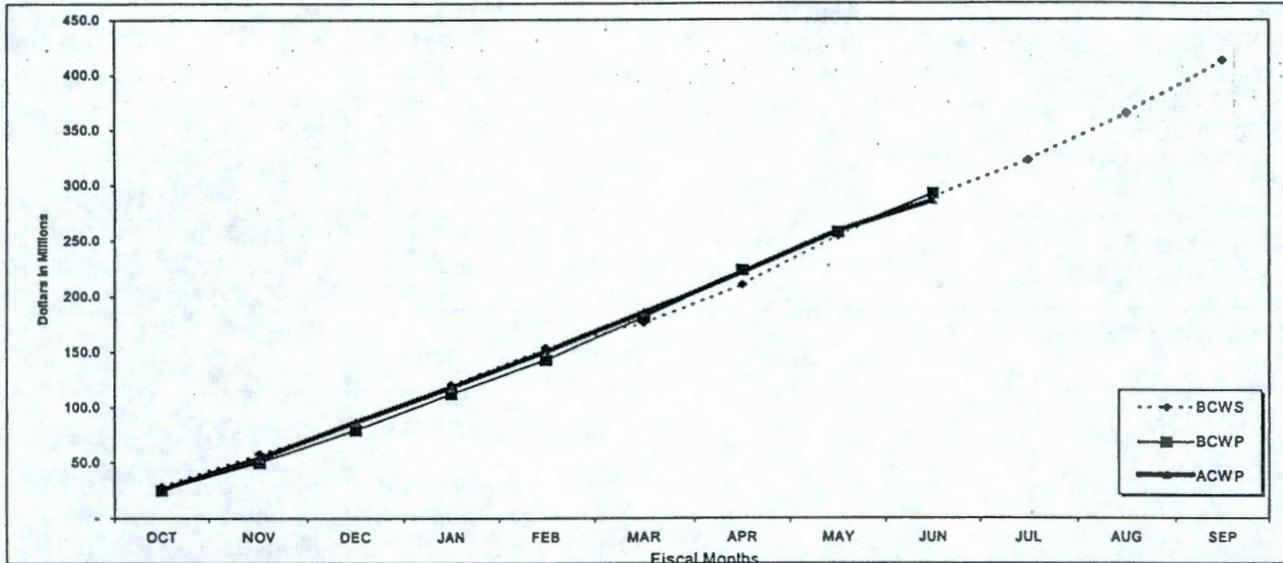
August 26, 2003

Agenda
 Office of River Protection
 Tri-Party Agreement Quarterly Milestone Review
 August 26, 2003
 712 Swift Blvd., Suite 5
 9:00 a.m. – 12:00 p.m.

Topic	Leads	Time
• FY 2003 ORP TPA Cost & Schedule Performance (CHG) and TPA Milestone Statistics	Diane Clark/ Suzanne Dahl/ Jeff Lyon	9:00
• M-45-11, Complete 244-AR Vault Interim Status Actions	Gil Ramin/ Jeff Lyon	9:10
• M-45-50, 60 Single-Shell Tank Corrective Action	Rob Yasek/ Joe Caggiano	9:20
• M-90-00, Complete Acquisition of Facilities for Interim Storage of IHLW and Storage/ Disposal of ILAW and M-20, Part B Permits	Phil LaMont/ Bud Derrick	9:30
• M-23, Tank Integrity and Monitoring	Deb Williams/ Jeff Lyon	9:40
• Interim Stabilization (Consent Decree)	Andy Stevens/ Nancy Uziemblo	9:50
• M-48, DST Integrity Assessment Program	Andy Stevens/ Vic Callahan / Brenda Jentzen	10:00
• M-45-00, Single-Shell Tank Closure	Roger Quintero/ Dick Heggen	10:10
• M-43-00, Tank Farm Upgrades	Cathy Louie/ Stephen Lijek	10:20
• M-46-00, Double-Shell Tank Space Evaluation	Cathy Louie / Jeff Lyon	10:30
• M-47-00, Tank Waste Treatment, Storage and Disposal Facilities	Cathy Louie /Jim Davis/ Steve Lijek	10:40
• In Tank Characterization and Summary	Wen-Shou Liou / Debra Singleton	10:50
• BNI Cost & Schedule Performance	Mark Ramsay/ Suzanne Dahl	11:00
• M-62, Complete Pretreatment Processing and Vitrification of Tank Wastes/Supplemental Technologies	Mark Ramsay/ Billie Mauss/Suzanne Dahl	11:10
• LDR Assessment Status	Woody Russell/ Jeff Lyon	11:30
• Review of new commitments and actions	Diane Clark/ Jeff Lyon/ Suzanne Dahl	11:40

Cost/Schedule Performance

CH2M HILL HANFORD GROUP, INC.
 FY 2002 - ALL DIRECT FUNDED ACTIVITIES (CH2M HILL ONLY)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
FY02 CURRENT APPROVED PERFORMANCE MEASUREMENT BASELINE												
CURRENT PERIOD												
BCWS	28.5	29.3	27.3	35.3	33.3	22.4	34.3	43.6	34.6	33.7	42.7	48.0
BCWP	24.8	25.1	29.4	32.9	30.6	38.5	42.0	34.1	34.8			
ACWP	25.5	28.4	32.6	31.8	32.0	35.1	35.9	37.3	27.0			
CUMULATIVE YEAR TO DATE												
BCWS	28.5	57.8	85.1	120.4	153.7	176.1	210.4	254.0	288.6	322.3	365.0	413.0
BCWP	24.8	49.9	79.3	112.2	142.8	181.3	223.3	257.4	292.2			
ACWP	25.5	53.9	86.5	118.3	150.3	185.4	221.3	258.6	285.6			
SV %	-12.9%	-13.6%	-6.9%	-6.8%	-7.1%	3.0%	6.1%	1.3%	1.3%			
CV %	-2.8%	-7.9%	-9.1%	-5.4%	-5.3%	-2.2%	0.9%	-0.4%	2.3%			

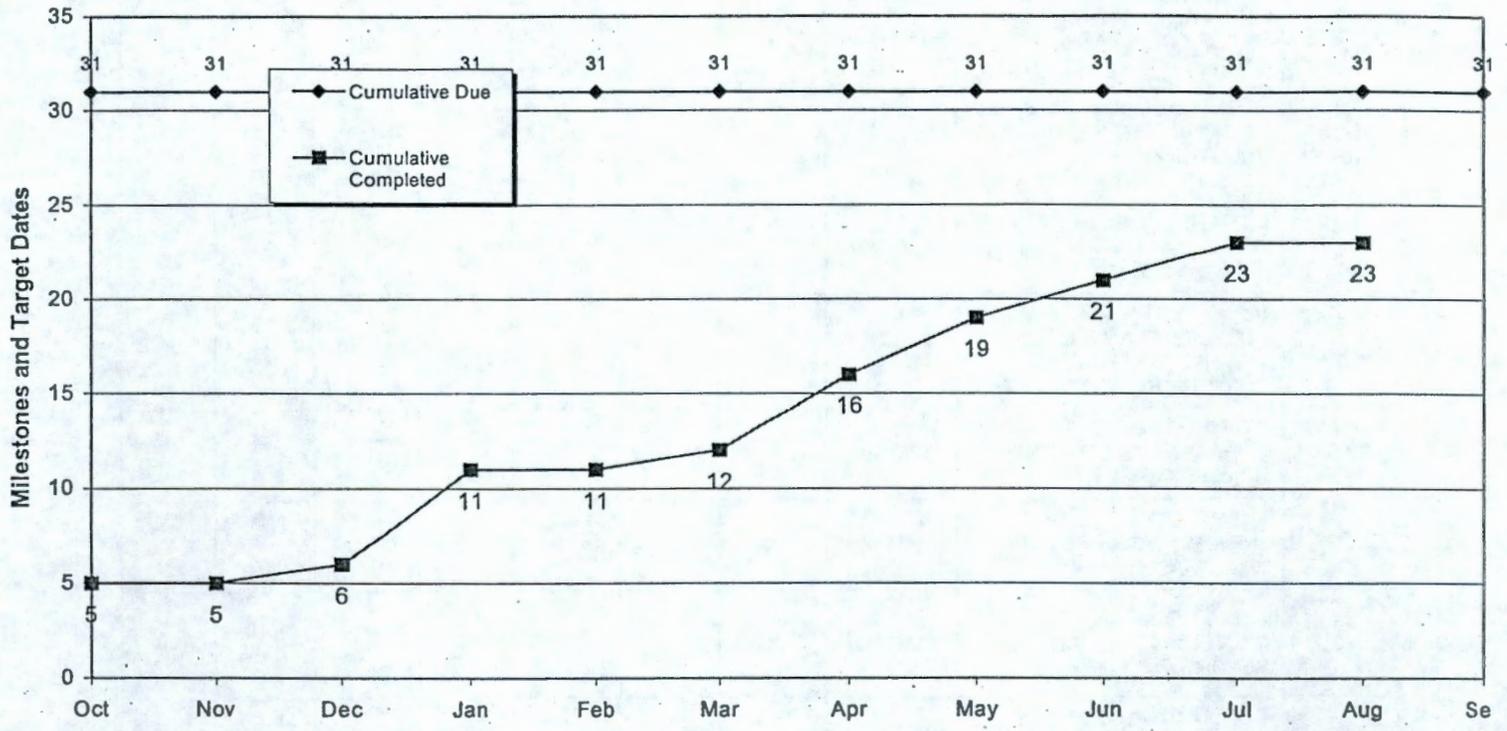
TPA Milestone Statistics
(Including target milestones)

Milestone	Due Date	Total Active as of 8/26/03	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	2/28/2004 (M-20-00)	0				
M-23-25, Tank Integrity and Monitoring	9/30/2004 (M-23-25)	6	M-23-25D	9/30/03	M-23-25	9/30/04
			M-23-26	9/30/03	M-23-25G	9/30/04
			M-23-25F	3/31/04	M-23-27	12/30/04
M-42-00, Provide Additional DST Capacity	TBD	1	M-42-00	TBD		
M-43-00, Complete Tank Farm Upgrades	6/30/2005 (M-43-00)	1	M-43-00	6/30/05		
M-45-00, Complete Closure of all SST Farms	9/30/2024 (M-45-00)	78	M-45-11	9/30/03	M-45-02Q	9/30/08
			M-45-02L	9/30/03	M-45-05F	9/30/08
			M-45-05K-T01	9/30/03	M-45-05-T06	9/30/08
			M-45-05L-T01	11/1/03	M-45-06E	12/31/08
			M-45-05M-T01	2/27/04	M-45-14-T01	6/30/09
			M-45-55	2/28/04	M-45-02R	9/30/09
			M-45-00C	2/28/04	M-45-05-T07	9/30/09
			M-45-06-T20A	6/30/04	M-45-05G-T01	10/31/09
			M-45-02M	9/30/04	M-45-06-T20C	6/30/10
			M-45-03E	9/30/04	M-45-16	7/31/10
			M-45-03H	9/30/04	M-45-02S	9/30/10
			M-45-05N-T01	12/31/04	M-45-05-T08	9/30/10
			M-45-55-T03	1/31/05	M-45-00D	6/30/11
			M-45-06B	3/31/05	M-45-16-T01	7/31/11
			M-45-05-T17	4/30/05	M-45-02T	9/30/11
			M-45-02N	9/30/05	M-45-05-T09	9/30/11
			M-45-03C	9/30/05	M-45-06-T03	3/31/12
			M-45-05C	11/30/05	M-45-06-T20D	6/30/12
			M-45-06C	3/31/06	M-45-02U	9/30/12
			M-45-06-T20A	6/30/06	M-45-05-T10	9/30/12
			M-45-13	6/30/06	M-45-02V	9/30/13
			M-45-02O	9/30/06	M-45-05-T11	9/30/13
			M-45-05A	9/30/06	M-45-06-T04	3/31/14
			M-45-03I	9/30/06	M-45-06-T20E	6/30/14
			M-45-00B	9/30/06	M-45-02W	9/30/14
			M-45-05E	6/30/07	M-45-05-T12	9/30/14
			M-45-06D	6/30/07	M-45-02X	9/30/15
			M-45-13-T01	6/30/07	M-45-05-T13	9/30/15
			M-45-15	6/30/07	M-45-06-T20F	6/30/16
			M-45-02P	9/30/07	M-45-02Y	9/30/16
			M-45-03F	9/30/07	M-45-05-T14	9/30/16
			M-45-05-T05	9/30/07	M-45-02Z	9/30/17
			M-45-06-T20B	6/30/08	M-45-05-T15	9/30/17
M-45-14	6/30/08	M-45-06-T20G	6/30/18			
M-45-15-T01	6/30/08	M-45-05	9/30/18			

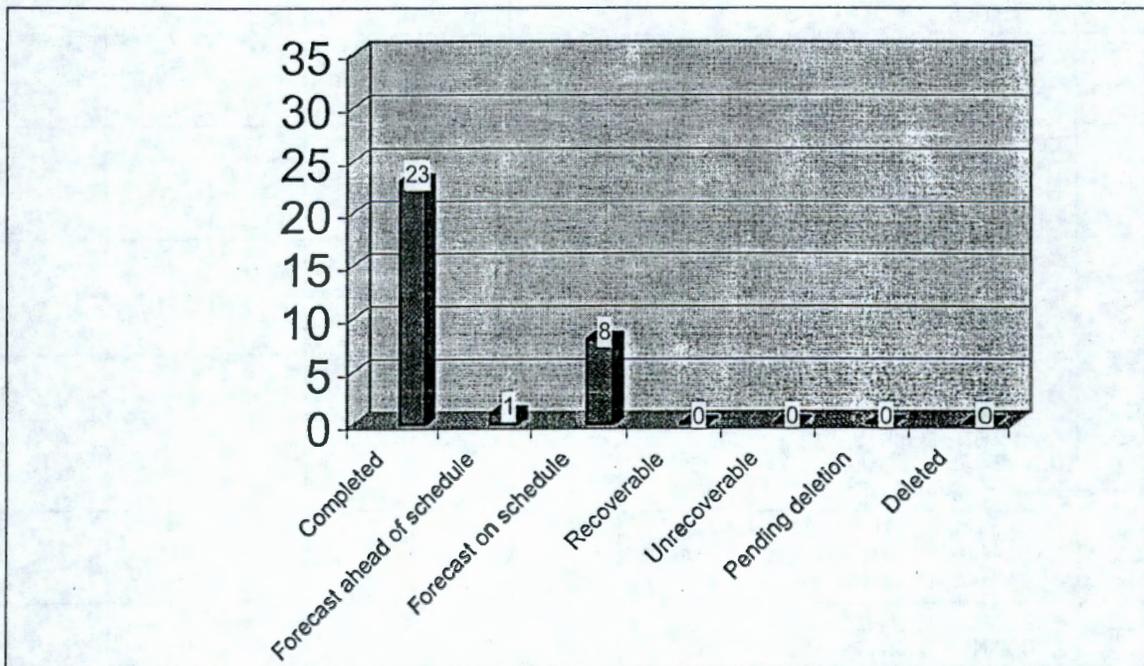
Milestone	Due Date	Total Active as of 8/26/03	Milestone Number	Due Date	Milestone Number	Due Date
M-45-00 cont.			M-45-06-T20J	6/30/20	M-45-60	TBD
			M-45-06-T20K	6/30/22	M-45-56	TBD
			M-45-06	9/30/24	M-45-58	TBD
			M-45-00	9/30/24	M45-59	TBD
M-46-00, Double Shell Tank Space Evaluation	11/30/2006 (M-46-01)	11	M-46-00J	9/30/03	M-46-01K	11/30/04
			M-46-01J	11/30/03	M-46-00L	9/30/05
			M-46-03	7/30/04	M-46-01L	11/30/05
			M-46-00K	9/30/04	M-46-21	12/31/05
					M-46-00M	9/30/06
					M-46-01M	11/30/06
M-47-00, Complete All Work for Phase 1 Operations	2/28/2018 (M-47-00)	8	M-47-05	5/31/04	M-47-04	6/30/09
			M-47-01	3/31/06	M-47-03A	2/28/09
			M-47-05A	4/30/06	M-47-06	6/30/10
			M-47-02	3/31/07	M-47-00	2/28/18
M-50-00, Complete Pretreatment Processing of Hanford Tank Waste	12/31/2028 (M-50-00)	1	M-50-00	12/31/28		
M-51-00, Complete Vitrification of Hanford High Level Tank Waste	12/31/2028 (M-51-00)	1	M-51-00	12/31/28		
M-61-00* (alternate path), Complete Pretreatment & Immobilization of Hanford Low Activity Tank Waste	12/31/2028 (M-61-00)	1	M-61-00	12/31/28		
M-62-00, Complete Pretreatment Processing and Vitrification of Tank Wastes	12/31/2028 (M-62-00)	16	M-62-07A	10/30/03	M-62-01M	7/31/06
			M62-01H	1/31/04	M-62-03	12/31/06
			M-62-01I	7/31/04	M-62-09	12/31/07
			M-62-01J	1/31/05	M-62-10	1/31/11
			M-62-01K	7/31/05	M-62-11	1/31/14
			M-62-08	7/31/05	M-62-00A	2/28/18
			M-62-07B	11/30/05	M-62-00	12/31/28
			M-62-01L	1/31/06	M-62-12	TBD
M-90-00, Interim Storage and Disposal of LAW and Interim Storage of HLW	TBD (M-90-00)	4	M-90-08	2/28/05	M-90-11	8/31/10
			M-90-10	8/31/08	M-90-00	TBD
M-48-00, DST Integrity Program, Submit Results of 4 DSTs not Previously Examined	9/30/2007	7	M-48-02G	9/30/03	M-48-13	9/30/05
			M-48-11	9/30/03	M-48-14	3/31/06
			M-48-12	9/30/04	M-48-15	9/30/07
					M-48-00	9/30/07

Milestone	Due Date	Total Active as of 8/26/03	Milestone Number	Due Date	Milestone Number	Due Date
Interim Stabilization Consent Decree	9/30/2004 (D-001-00)	12	D-001-09-T01	6/30/03	D-001-14-T01	12/30/03
			D-001-11-T01	8/30/03	D-001-00-R19	1/31/04
			D-001-00-R18	10/31/03	D-001-00-R20	4/30/04
			D-001-13-T01	9/30/03	D-001-00-R21	7/31/04
			D-001-00V	9/30/03	D-001-00	9/30/04
			D-001-06-T01	9/30/03	D-001-00-R22	10/31/04
			Total Active Milestones:		141	

FY 2003 Milestone Plan



FY 2003 MILESTONE PERFORMANCE



Fiscal Year 2003 Tri-Party Agreement Milestone Status

Milestone	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Pending Deletion	Deleted
				Ahead of Schedule	On Schedule				
D-001-00-R14	SUBMIT QUARTERLY REPORT FOR TANK STABILIZATION ACTIVITIES	10/31/02	X						
M-045-05-T16	SUBMIT DOCUMENT: S-102 INITIAL WASTE RETRIEVAL FUNCTIONS & REQUIREMENTS	10/30/02	X						
D-001-13	INITIATE PUMPING OF TANKS U-111, S-109, S-112, S-101, AND S-107	11/30/02	X						
P-045-06A	SUBMIT SST SYSTEM CLOSURE PLAN & C-106 WASTE RETRIEVAL & CLOSURE REPORT	12/19/02	X						
M-062-06	START OF CONSTRUCTION - PHASE I TREATMENT COMPLEX	12/31/02	X						
M-045-55-T02	SUBMIT SST WMA PHASE 1RFI/CMS WORK PLAN FOR WMA PHASE I	1/31/03	X						
M-062-01F	SUBMIT SEMI-ANNUAL PROJECT COMPLIANCE REPORT	1/31/03	X						
P-045-05I-T01	CONDUCT C-106 WASTE RETRIEVAL & CLOSURE DEMO PRODUCT 30% DESIGN CONSULTATION	1/31/03	X						
D-001-00-R15	SUBMIT QRTRLY REPORT FOR TANK STABILIZATION ACTIVITIES	1/31/03	X						
D-001-08-T01	COMPLETE PUMPING OF SX-105, SX-103, SX-101, AND U-106	2/28/03	X						
M-023-25C	COMPLETE INSTALLATION OF LOWs. BEGIN WEEKLY LIQUID OBSERVATION & MONITORING OF 4 SSTs	3/31/03	X						
(Ecology) M-046-01I	OBTAIN CONCURRENCE (BY TPA PARTIES) ON ADDITIONAL TANK ACQUISITION	4/30/03	X						
D-001-14	INITIATE PUMPING TANK C-103	4/30/03	X						
M-045-05J-T01	COMPLETE C-106 WASTE RETRIEVAL & CLOSURE DEMO PROJECT DESIGN	4/30/03	X						
M-045-05D	ESTABLISH COMPLETION DATE FOR SECOND TANK, INITIAL WASTE RETRIEVAL	4/30/03	X						
D-001-00-RI6	SUBMIT QRTRLY REPORT FOR TANK STABILIZATION ACTIVITIES	4/30/03	X						

Milestone	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Pending Deletion	Deleted
				Ahead of Schedule	On Schedule				
M-45-03D	COMPLETE S-112 SALTCAKE WASTE RETRIEVAL TECH DEMO DESIGN	5/30/03	X						
M-090-09-T01	COMPLETE DETAILED DESIGN OF ILAW DISPOSAL FACILITY CRITICAL SYSTEMS TO 80%	5/30/03	X						
M-020-56	SUBMIT CANISTER STORAGE FACILITY PART B DANGEROUS WASTE PERMIT APPLICATION	6/30/03	X						
M-020-57	SUBMIT ILAW DISPOSAL FACILITY CERTIFIED PART B PERMIT APPLICATION	6/30/03	X						
M-043-16	START CONSTRUCTION UPGRADES IN 9 TH TANK FARM	6/30/03	X						
D-001-00-R17	SUBMIT QRTLTY REPORT ON TANK STABILIZATION	7/31/03	X						
M-062-01G	SUBMIT SEMI-ANNUAL PROJECT COMPLIANCE REPORT	7/31/03	X						
M-023-25D	COMPLETE INSTALLATION OF LOWs & BEGIN WEEKLY LIQUID OBSERVATION / MONITORING 4 SSTs	9/30/03			X				
D-001-00V	REDUCE TOTAL LIQUIDS TO 2% OF TOTAL VOLUME FROM SSTs	9/30/03			X				
M-023-26	SUBMIT SCHEDULE AS PRIMARY DOC FOR PERFORMING LIQUID LEVEL ASSESSMENTS	9/30/03			X				
M-045-02L	SUBMIT ANNUAL UPDATE OF SST RETRIEVAL SEQUENCE DOC.	9/30/03			X				
M-045-11	COMPLETE 244-AR VAULT INTERIM STABILIZATION	9/30/03			X				
M-046-00J	COMPLETE ANNUAL DST SPACE EVALUATION REPORT	9/30/03			X				
M-048-11	SUBMIT RESULTS OF 4 DSTs NOT PRE. EXAMINED	9/30/03			X				
M-045-05K-T01	COMPLETE C-106 WASTE RETRIEVAL/CLOSURE DEMO PROJECT CONSTRUCTION	9/30/03			X				
TOTAL			23	1	8	0	0	0	0

M-45-11, Complete 244-AR Vault Interim Status Actions

I. Near-Term Deliverables:

- **M-45-11A, Complete 244-AR Vault Interim Stabilization**
Due: 9/30/03
Status: **Completed August 18, 2003.**

II. Significant Accomplishments:

- Completed facility isolation August 12, 2003

III. Significant Planned Actions in the Next Six Months:

- None

Near-term actions needed by DOE or Ecology

- None

IV. Issues:

- None

M-45-50, -60 Single-Shell Tank Corrective Action**I. Near-Term Deliverables:**

- **M-45-55-T02**, 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 B, BX, and BY
Due: 01/31/03
Status: **Complete**. Report has been delivered to Ecology for review. Ecology has requested additional review time.
- **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: 1/2005
Status: Preliminary work started, fieldwork continues.
- **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, and B-BX-BY and related activities, including groundwater monitoring and impacts assessment using Hanford Site groundwater models, with conclusions and recommendations
Due: 2/2004
Status: Work not started; forecast on schedule.
- **M-45-60**, Submit to Ecology for review and approval as an Agreement primary document DOE's RFI/CMS Work Plan for SST WMAs
Due: 6 months following RFI report approval
Status: Work not started; forecast on schedule.

II. Significant Accomplishments:

- Fieldwork for FY 2003 in the T SST Farm has been completed. The second characterization borehole was completed to a depth of 127 feet with 23 samples collected. The borehole was decommissioned the week of June 9.
- C and A/AX Subsurface Conditions Description Report - Completed March 2003. Ecology has been provided a copy.

II. Significant Planned Actions in the Next Six Months:

- Participate in C3T exercise for ground water monitoring.
- Start work on T/TX-TY Field Investigation Report.

IV. Issues:

Met with Ecology staff on April 21, 2003, to revise M-45-50/60 series to reflect projected work in SST Farm Vadose characterization. ORP staff provided a preliminary draft of Change Request language to Ecology on June 3, 2003.

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: On schedule

Out year (Post 2006) milestones:

- **M-90-10**, Initiate Placement of ILAW Waste Canisters in ILAW Disposal Facility
Due: 8/31/08
Status: On schedule
- **M-90-11**, Complete Canister Storage Facility Construction
Due: 8/31/2010
Status: On schedule

II. Significant Accomplishments:

- Continued detailed design of W-464 systems for the CSB – July 2003
- Obtained approval to reduce dose rate and heat load for IHLW – July 2003.
- Held Value Engineering Session for Project W-464 Detailed Design – July 2003.
- Released update to the W-464 Level 1 Specification – July 2003.
- Issued Update to the Design Requirements Document for Project W-464 – July 2003.
- Completed update to the IDF Level 1 Specification – July 2003.
- Initiated Hazards Analysis for IDF – July 2003.
- Obtained agreement with Ecology for a 14-month permitting schedule for IDF – July 2003.

III. Significant Planned Actions in the Next Six Months:

- Commence informal meetings with Ecology to resolve IDF permit questions – August 2003.
- Complete IDF Performance Assessment Update – September 2003.
- Launch formal IDF issue resolution process with Ecology for IDF Part B Permit – September/October 2003.

- Initiate detailed design of non-critical systems for the IDF – October 2003.
- Receive Record of Decision for SWEIS – October 2003.

IV. Issues

- None

M-23, Tank Integrity and Monitoring**I. Near-Term Deliverables:**

- **M-23-23**, Submit SST System Leak Detection and Monitoring F&R Document
Due: 6/15/02
Status: **Complete.**
- **M-23-25B**, Complete the Installation of Liquid Observation Wells (LOWs) and Begin Liquid Observation.
Due: 9/30/02
Status: **Complete.**
- **M-23-25C**, Complete the Installation of Liquid Observation Wells (LOWs) and Begin Liquid Observation
Due: 3/31/03
Status: **Complete**
- **M-23-25D**, Complete the Installation of Liquid Observation Wells (LOWs) and Begin Monitoring.
Due: 9/30/03
Status: On schedule. LOWs have been installed in tanks B-101, B-109, SX-111 and TX-105. Monitoring has been initiated to establish the baseline interstitial liquid level.
- **M-23-26**, Submit a Schedule, as a Primary Document, for Performing Liquid Level Assessments.
Due: 9/30/03
Status: On schedule
- **M-23-25F**, Complete the Installation of Liquid Observation Wells (LOWs) and Begin Monitoring.
Due: 3/31/04
Status: On schedule
- **M-23-25G**, Complete the Installation of Liquid Observation Wells (LOWs) and Begin Monitoring.
Due: 9/30/04
Status: On schedule
- **M-23-27**, Complete 244-CR Liquid Level Assessments
Due: 12/30/04
Status: On schedule

II. Significant Accomplishments:

- LOWs installed in TX-105, SX-111, B-101, and B-109.

III. Significant Planned Actions in the Next Six Months:

- Complete initiation of monitoring of LOWs for M-23-25D.
- Submit a schedule, as a primary document, for performing liquid level assessments.

IV. Issues:

- During replacement of the LOW in TX-116, the LOW was damaged. That LOW will be removed and a replacement installed. (Currently scheduled to be performed November 6.)

Interim Stabilization Consent Decree

Near-Term Deliverables:

- Reduce Total Liquids to 2% of Total Volume from SSTs (D-001-00V)
Due: 9/30/03
Status: Ahead of schedule by approximately two days (targeting 9/1/03 early completion.)
- Complete Interim Stabilization of all 29 SSTs (D-001-00)
Due: 9/30/04
Status: On schedule

Status:

- As of the end of July, of the sixteen (16) remaining SSTs included in FY 2003 scope, four (4) tanks have been interim stabilized (BY-105, C-103, SX-103, U-111). Eight (8) tanks continue to be pumped (A-101, BY-106, S-101, S-107, S-111, SX-102, U-107, U-108). Two tanks (S-102 and S-112) are being removed from the Interim Stabilization scope to permit an accelerated retrieval. Two tanks, AX-101 and SX-101, completed pumping and are in evaluation to confirm that interim stabilization criteria have been met.
- Completed evaluation of tank C-103 confirming tank meets interim stabilization criteria; letter to ORP in CH2M HILL concurrence cycle.
- Completed Consent Decree Milestone D-001-00-R17, "Issue Third Quarter Report on Interim Stabilization Activities" and transmitted the report to ORP; ORP subsequently transmitted the report to Ecology.
- Completed several unplanned maintenance activities to ensure continuity of pumping operations including replacement of pump legs on tank S-101, replacement of proximity switch and pressure gauge on tank A-101, and replacement of check valves on tank SX-102. The 244-BX double-contained receiver tank (DCRT) was also transferred to support pumping in tank BY-106.
- Approximately 39,000 of waste were pumped in July and roughly 538,000 gallons of wastes have been pumped in FY 2003 through July 31st.
- Approximately 3 million gallons of waste have been removed from SSTs since pumping began in 1998.
- As of the end of July, the estimated percentage of pumpable liquid remaining in unstabilized SSTs was roughly 2.8%; the volume to be pumped to reach the 2% pumpable liquid remaining (PLR) Consent Decree Milestone (D-001-00V) was roughly 24,000 gallons; approximately 62,000 gallons of waste will remain in unstabilized SSTs upon completion of the 2% PLR Consent Decree Milestone for removal during FY 2004.
- As of the end of July, pumping operations are roughly two days ahead of schedule for early completion of the 2% PLR Consent Decree Milestone around 9/1/03. The actual milestone due date is 9/30/03.

Issues/Recovery:

- The Consent Decree target date of June 30, 2003, for Milestone D-001-09-T01, "Complete pumping of BY-105 and BY-106," was not met due to delayed transfer wastes from the 244-BX DCRT, power outages, and a valve failure. Tank BY-105 has been

interim stabilized but tank BY-106 still has approximately 1,000 gallons of pumpable liquid remaining. The current forecast shows completion of pumping in September 2003.

- The Consent Decree target date of August 30, 2003, for Milestone D-001-11-T01, "Complete pumping of U-108, U-107, S-111, and SX-102," will likely not be met based on the pumpable liquid remaining in tanks U-108 and S-111 and anticipated drainage rates and pumping durations. Current projections for completion of pumping for these two tanks show the two tanks pumping into FY 2004. Completion of pumping is expected well before the required milestone date of September 30, 2004. (Currently targeted for June or July of 2004.)
- The Consent Decree target date of September 30, 2003, for Milestone D-001-06-T01, "Complete pumping of A-101 and AX-101," may not be met. Tank AX-101 has completed pumping and a letter was received by ORP for this tank. Tank A-101 is projected to pump to the end of September 2003.
- The Consent Decree target date of September 30, 2003, for Milestone D-001-13-T01, "Complete pumping of U-111, S-109, S-112, S-101, and S-107," will likely not be met. Tanks S-101 and S-107 are currently projected to pump into FY-2004. Tank S-112 has been transitioned to retrieval operations. The other two tanks have completed pumping. Completion of pumping is expected well before the required milestone date of Sept. 30, 2004.
- Pumping durations are based on "best estimates" of pumpable liquid volumes, tank waste drainage rates, and operating efficiencies of saltwell pumping systems; however, considerable uncertainty exists in pumping durations and can be on the order of \pm one or two months.
- Tank S-107 continues to pump beyond the originally estimated probable pumpable liquid volume of 79,000 gallons. As of the end of July, tank S-107 pumped roughly 81,000 gallons. This situation results in slight increases to probable pumpable liquid volume and volume pumped to date. Adjustments are being made on a daily basis to reflect the pumping status of tank S-107 and impacts on estimated percent of probable liquid remaining and volume to be pumped to reach the 2% PLR Consent Decree Milestone.
- At the beginning of July, the "delta" between the total gallons pumped and the early completion (9/1/03) target volume was approximately -7,200 gallons. By the end of July this situation was turned around and the "delta" was +1,900 gallons.

Significant Planned Actions in the Next 6 Months:

- Complete the final stabilization evaluations for tanks AX-101 and SX-101 confirming that interim stabilization criteria have been met.
- Keep remaining saltwell pumping systems on-line and maintain high pumping efficiencies and flowrates, while minimizing system down time.
- Complete pumping of tanks A-101, BY-106, and SX-102 by September 30, 2003.
- Complete pumping of Tank U-107 by December 3, 2003.
- Complete pumping of tank S-107 by October 8, 2003
- Complete pumping of tank U-108 by January 17, 2004
- Issue fourth quarter interim stabilization activity report.

- Complete 2% PLR Consent Decree milestone ahead of scheduled due date of 9/30/03.
- The estimates of pumpable volumes have been updated to reflect the additional information now available since the previous revision. The new report, HNF-2978, Rev 5, was released on July 1, 2003.
- Public Review update

Issues:

- None

M-48-00, DST Integrity Assessment Program**I. Deliverables:**

- **M-48-02**, Submit to Ecology a Report Assessing Technology Development
Due: 9/17/00 and every six months thereafter until equipment is deployed
Status: **Complete**
SAFT/TSAFT equipment was successfully deployed in December FY03 and last Ecology Technology Development report was transmitted early March 2003. M-48-02 will be declared complete in Sept. FY 2003.
- **M-48-10**, Submit Results of Four DSTs not Previously Examined
Due: 9/30/02
Status: **Complete**
- **M-48-11**, Submit Results of Four DSTs not Previously Examined
Due: 9/30/03
Status: On schedule
- **M-48-12**, Submit Results of Four DSTs not Previously Examined
Due: 9/30/04
Status: On schedule
- **M-48-13**, Submit Results of Four DSTs not Previously Examined
Due: 9/30/05
Status: On schedule
- **M-48-14**, Submit Written Integrity Report for the DST System
Due: 3/31/06
Status: On schedule
- **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

II. Significant Accomplishments:

- Completed integrity assessment evaluation reports for AP-1-1/103/105. Scheduled to transmit to ORP the end of July.
- Completed video examination report for SY Farm.

III. Significant Planned Actions in the Next Six Months:

- Initiate FY03 UT inspections of four DSTs not previously examined (AP-101, AP-103, AP-105, AZ-102). Completed inspection reports for AP-101, AP-103, and AP-105. Final tank inspection is in progress and scheduled to complete first week of August.
- Initiate FY03 video inspections of 10 DSTs: SY-101 through SY-103, AP-101 through AP-106, AN-105. SY Farm videos and report are complete. Video assessment for the remaining DST's will continue after the completion of the DST UT examinations.

IV. Issues:

- None

Milestone M-45-00, Complete Closure of All Single-Shell Tank Farms**I. SST Retrieval and Closure Program**

- **M-45-00C**, "Complete Renegotiation of Second Phase SST Waste Retrieval Activities" (September 30, 2006 through September 30, 2015)
Due: 2/28/04
Status: On schedule. Negotiations expected to begin in October 2003.
- **M-45-06-T20A**, "Submit SST System Implementation Plan in Support of Retrieval and Closure Activities"
Due: 6/30/04
Status: On schedule
- **M-45-06-T20B**, "Submit SST System Implementation Plan in Support of Retrieval and Closure Activities"
Due: 6/30/06
- **M-45-06-T20C**, "Submit SST System Implementation Plan in Support of Retrieval and Closure Activities"
Due: 6/30/08 (and every 2 years thereafter)
- **M-45-00D**, "Complete Renegotiation of the Remainder of the SST Waste Retrieval and Closure Program"
Due: 6/30/2011
- **M-45-06-T03**, "Initiate Closure Actions on an Operable Unit or Tank Farm Basis. Closure shall follow completion of the retrieval actions under proposed milestone M-45-05."
Due: 3/31/2012
- **M-45-06-T04**, "Complete Closure Actions on one Operable Unit or Tank Farm"
Due: 3/31/2014
- **M-45-00**, "Complete Closure of all SST Farms"
Due: 9/30/2024
- **M-45-06**, "Complete Closure of all SST Farms in Accordance with Approved Closure/Post Closure Plans"
Due: 9/30/2024

II. SST Retrieval Sequence Document

- **M-45-02L**, "Submit Annual Updates to SST Retrieval Sequence Document"
Due: 9/30/03
Status: On schedule. The SST Retrieval Sequence and DST Space Evaluation combined into a single report, RPP-8554, Rev. 2, will cover two cases: A target case based on the RPP System Plan Rev. 2, and a TPA compliant case.

- **M-45-02M**, "Submit Annual Updates to SST Retrieval Sequence Document" Due: 9/30/04
- **M-45-02N**, "Submit Annual Updates to SST Retrieval Sequence Document" Due: 9/30/05
- **M-45-02O**, "Submit Annual Updates to SST Retrieval Sequence Document" Due: 9/30/06
- **M-45-02P**, "Submit Annual Updates to SST Retrieval Sequence Document" Due: 9/30/07 (and annually thereafter)

III. SST Retrieval Demonstration Projects

- **M-45-00B**, "Complete Near-Term SST Waste Retrieval Activities" Due: 9/30/06
Status: On schedule per supporting milestones, as noted below.

C-106:

- **M-45-06A**, "Submit a Certified (Framework) SST System Closure Plan and C-106 Waste Retrieval and Closure Demonstration Plan" Due: 12/19/02
Status: **Complete.** 12/17/02.
- **M-45-05J-T01**, "Complete C-106 Waste Retrieval and Closure Demonstration Project Design (including all physical systems and design/operating strategies for LDMM)" Due: 4/30/03
Status: **Complete.** C-106 was pumped week of 3/31/03.
- **M-45-05K-T01**, "Complete C-106 Waste Retrieval and Closure Demonstration Project Construction (including all physical systems and design/operating strategies for LDMM)" Due: 9/30/03
Status: On schedule. CH2M Hill submitted completed package on 8/12/03; ORP submittal letter in process.
- **M-45-05L-T01**, "Complete Full Scale C-106 Waste Retrieval" Due: 11/1/03
Status: On schedule
- **M-45-05M-T01**, "Submit C-106 Waste Retrieval Results, Analysis of Residual Waste(s), and (if appropriate) Request for Exemption to the Criteria Pursuant to Agreement Appendix H" Due: 2/27/04
Status: On Schedule

- **M-45-05H**, "Interim Completion of Tank C-106 SST Waste Retrieval and Closure Demonstration Project"
Due: 4/30/04
Status: On schedule
- **M-45-05N-T01**, "Final Completion of Tank C-106 SST Retrieval and Closure Demonstration Project"
Due: 12/31/04
Status: On schedule

Accomplishments:

- Installed transfer line from C-06B to AN-06A
- Performed acid dissolution system test
- Completed C-106 field installations for acid dissolution
- Completed C-106 readiness assessment and startup authorization
- Started addition of acid to C-106

Issues:

- SST System Closure Plan, Revision 1 submittal on hold.

Planned Activities:

- Approve and release C-106 Enhanced Sluicing Process Control Plan
- Test C-Farm Exhauster for operability
- Complete C-106 waste redistribution to optimize subsequent acid dissolution
- Install/test Acid Dissolution Retrieval System in C-106
- Retrieve C-106 sludge waste using acid dissolution

S-112:

- **M-45-03D**, "Complete S-112 Saltcake Waste Retrieval Technology Demonstration Design" (all physical systems including LDMM provisions)
Due: 5/31/03
Status: **Complete**. ORP letter 03-TPD-048, dated 5/22/03.
- **M-45-03E**, "Complete S-112 Saltcake Waste Retrieval Technology Demonstration Construction (all physical systems including LDMM provisions)"
Due: 9/30/04
Status: On schedule
- **M-45-06B**, "Submit a Certified (Framework) SST System Closure Plan and S-112 Waste Retrieval and Closure Demonstration Plan"
Due: 3/31/05
Status: On schedule

- **M-45-03C**, "Complete Full-Scale Saltcake Waste Retrieval Technology Demonstration at Tank S-112 (all physical systems including LDMM provisions)"
Due: 9/30/05
Status: On schedule.
- **M-45-13**, "Interim Completion of Tank S-112 Waste Retrieval and Closure Demonstration Project"
Due: 6/30/06
Status: On schedule
- **M-45-13-T01**, "Final Completion of Tank S-112 SST Retrieval and Closure Demonstration Project"
Due: 6/30/07
Status: On schedule

Accomplishments:

- Completed installation of S-112 instrument and water skids.
- Completed removal of S-112 Liquid Observation Well (LOW) installation of the S-112 inlet filter, and placed exhaustor
- Completed installation of S-112 exhaustor ductwork
- Completed pressure drop test for S-112 inlet filter and exhaustor train
- Completed Standard Hydrogen Monitoring System (SHMS) probe and breather filter removal and breather filter installation for S-112
- Completed installation of S-112 Remote Water Distribution Device's (RWDDs) and the Central Water Distribution Device (CWDD)
- Completed installation of half of the above ground shielding plates for S-112 SA to SY Hose in Hose

Issues:

- Leak Detection Monitoring and Mitigation approach for S-112 and S-102 requires approval by Ecology.

Planned Activities:

- Complete construction and installation of S-112 Waste Retrieval System
- Complete retrieval of 25% of S-112 volume
- Conduct post retrieval sampling of C-106 and S-112 for closure
- Submit Revision 0 of the RCRA Closure Plan for S-112 and S-102 to Ecology
- Complete S-112 Readiness preparation

S-102:

- **M-45-05B**, "Complete S-102 Initial Retrieval Project Design (all physical systems including LDMM provisions)"
Due: 3/31/04
Status: **Complete**. ORP letter 03-TPD-048, dated 5/22/03.

- **M-45-05C**, "Complete S-102 Initial Waste Retrieval Project Construction (all physical systems including LDMM provisions)"
Due: 11/30/05
Status: On schedule
- **M-45-06C**, "Submit a Certified (Framework) SST System Closure Plan and S-102 Waste Retrieval and Closure Demonstration Plan"
Due: 3/31/06
Status: On schedule
- **M-45-05A**, "Complete Initial Waste Retrieval from SST S-102"
Due: 9/30/06
Status: On schedule
- **M-45-15**, "Interim Completion of Tank S-102 SST Waste Retrieval and Closure Demonstration Project"
Due: 6/30/07
Status: On schedule
- **M-45-15-T01**, "Final Completion of Tank S-102 SST Retrieval and Closure Demonstration Project"
Due: 6/30/08
Status: On schedule

Accomplishments:

- Received technical review and approval from the Washington State Department of Health (WDOH) and U. S. Environmental Protection Agency (EPA) for the S-102 Radiological Notice of Construction

Issues:

- Leak Detection Monitoring and Mitigation approach for S-112 and S-102 requires approval by Ecology

Planned Activities:

- Continue S-102 Waste Retrieval System fabrication and installation
- Submit Revision 0 of the RCRA Closure Plan for S-112 and S-102 to Ecology

C-200s (no milestones, due dates per Integrated Mission Execution Schedule (IMES)):

- Complete Retrieval Design
Due: 6/30/03
Status: Complete
- Submit Closure Plan Rev. 0 to Ecology
Due: 9/16/03
Status: On hold

- Complete Construction for Retrieval
Due: 10/13/03
Status: On schedule
- Complete Retrieval
Due: 1/2/04
Status: On schedule
- Interim Completion of Retrieval and Closure Activities
Due: 8/17/04
Status: On schedule
- Final Completion of Retrieval and Closure Activities
Due: 9/30/04
Status: On schedule

Accomplishments:

- Completed C-200 series final design
- Completed the fit out of the vacuum retrieval system
- Completed fabrication of portable exhauster POR 03
- Obtained approval from WDOH of the RAD NOC
- Formally transmitted the Functions and Requirements documents (F&R) to ORP
- Approximately 50% of major equipment procurements received to date

Issues: None

Planned Activities:

- Personnel training on the Vacuum Retrieval System ongoing at the Cold Test Facility. Currently three operators are qualified on the operation of the system
- Field installation activities scheduled to commence 8/18/03
- Declare readiness scheduled for 10/16/03 (Operational Readiness Review, ORR)
- Retrieval operations scheduled 12/3/03 – 12/24/03

C-104:

- **M-45-03G**, "Complete C-104 Sludge/Hard Heel, Confined Sluicing and Robotic Technologies, Waste Retrieval Cold Demonstration"
Due: 6/30/04
Status: **Complete** (11 months ahead of schedule); ORP letter 03-TPD-074, 8/13/03
- **M-45-03H**, "Complete C-104 Sludge/Hard Heel, Confined Sluicing and Robotic Technologies, Waste Retrieval Demonstration Design (all physical systems including LDMM provisions)"
Due: 9/30/04
Status: On schedule.

- **M-45-03I**, "Complete C-104 Sludge/Hard Heel, Confined Sluicing and Robotic Technologies, Waste Retrieval Demonstration Construction (all physical systems including LDMM provisions)"
Due: 9/30/06
Status: On schedule
- **M-45-06D**, "Submit a Certified (Framework) SST System Closure Plan and C-104 Waste Retrieval and Closure Demonstration Plan"
Due: 6/30/07
Status: On schedule
- **M-45-03F**, "Complete Full-Scale Sludge/Hard Heel, Confined Sluicing and Robotic Technologies, Waste Retrieval Demonstration a SST C-104"
Due: 9/30/2007
Status: On schedule
- **M-45-14**, "Interim Completion of Tank C-104 SST Waste Retrieval and Closure Demonstration Project"
Due: 6/30/08
Status: On schedule
- **M-45-14-T01**, "Final Completion of Tank C-104 SST Retrieval and Closure Demonstration Project"
Due: 6/30/09
Status: On schedule

Accomplishments: None

Issues: None

Planned Activities:

- Initiate C-104 Final Design

S-105/S-106/S-103:

- **M-45-05-T17**, "Submit S-105, S-106, and S-103 Waste Retrieval and Closure Demonstration Functions and Requirements Document"
Due: 4/30/05
Status: On schedule
- **M-45-05E**, "Complete S-105, S-106, and S-103 Waste Retrieval and Closure Demonstration Project Design (including all physical systems and design/operating strategies for LDMM for each tank)"
Due: 6/30/07

- **M-45-05F**, "Complete S-105, S-106, and S-103 Waste Retrieval and Closure Demonstration Project Construction (including all physical systems and design/operating strategies for LDMM for each tank)"
Due: 9/30/08
- **M-45-06E**, "Submit a Certified (Framework) SST System Closure Plan Modification for Tanks S-105, S-106, and S-103 Closure Demonstration Plan"
- **M-45-05G-T01**, "Complete S-105, S-106, and S-103 Waste Retrieval"
Due: 10/31/09
- **M-45-16**, "Interim Completion of Tank S-105, S-106, and S-103 SST Waste Retrieval and Closure Demonstration Project"
Due: 7/31/10
- **M-45-16-T01**, "Final Completion of Tank S-105, S-106, and S-103 SST Retrieval and Closure Demonstration Project"
Due: 7/31/11

IV. SST Retrieval from Remaining Tanks

- **M-45-05-T05**, "Initiate Tank Retrieval from 5 Additional SSTs"
Due: 9/30/2007
- **M-45-05-T06**, "Initiate Tank Retrieval from 5 Additional SSTs" by 9/30/2008
Due: 9/30/2008
- **M-45-05-T07**, "Initiate Tank Retrieval from 7 Additional SSTs" by 9/30/2009
Due: 9/30/2009
- **M-45-05-T08**, "Initiate Tank Retrieval from 8 Additional SSTs" by 9/30/2010
Due: 9/30/2010
- **M-45-05-T09**, "Initiate Tank Retrieval from 10 Additional SSTs" by 9/30/2011
Due: 9/30/2011
- **M-45-05-T10**, "Initiate Tank Retrieval from 12 Additional SSTs" by 9/30/2012
Due: 9/30/2012
- **M-45-05-T11**, "Initiate Tank Retrieval from 14 Additional SSTs" by 9/30/2013
Due: 9/30/2013
- **M-45-05-T12**, "Initiate Tank Retrieval from 17 Additional SSTs" by 9/30/2014
Due: 9/30/2014
- **M-45-05-T13**, "Initiate Tank Retrieval from 20 Additional SSTs" by 9/30/2015
Due: 9/30/2015

- **M-45-05-T14, "Initiate Tank Retrieval from 20 Additional SSTs" by 9/30/2016**
Due: 9/30/2016
- **M-45-05-T15, "Initiate Tank Retrieval from 20 Additional SSTs" by 9/30/2017**
Due: 9/30/2017
- **M-45-05, "Retrieve Waste from All Remaining SSTs" by 9/30/2018**
Due: 9/30/2018

Milestone M-43-00, Tank Farm Upgrades**I. Near-Term Deliverables:**

- **M-43-16, Start Construction in 5th farm**
Due: 6/30/03
Status: **Complete.** Construction began in SY Farm March 17, 2003. Official notification to Ecology sent in letter 03-ED-060, April 24, 2003, "Completion of Hanford Federal Facility Agreement and Consent Order (HFFACO) M-43-016," "Start Construction for upgrades in the Fifth Tank Farm," Due June 30, 2003, J.E. Rasmussen/ORP to M.A. Wilson/DOEC.
- **M-43-00, Complete Tank Farm Upgrades**
Due: 6/30/05
Status: On schedule, pending definition of completion. Projects W-314 and E-525 are on schedule to complete Tank Farm upgrades in FY05.

II. Significant Accomplishments:

- Received Washington State Department of Health phased approval for installation and testing of the W-314 AN HVAC exhausters skids on June 3
- Completed W-314 AW Farm Pit 02D upgrade and turnover to Operations on June 3
- Completed W-314 SY Farm Pit SY-A upgrade and turnover to Operations on July 15
- Completed W-314 Phase 2 Definitive Design for AY/AZ Farm June 12
- Completed W-314 Phase 2 AP Farm Definitive Design, June 13
- Awarded contract and initiated construction for W-314 WTS Cross-Site tie-in, June 5
- Awarded contract and initiated construction for W-314 244-S DCRT Bypass, June 23
- Resolved issue with Ecology regarding installation of additional HVAC treatment equipment by W-314
- E-525 Released approved final design, July 16
- E-525 Issued Clean Out Box construction Request for Proposal, June 16
- Drafted Variance Request from Secondary Containment Standards for Ten Double-Shell Tank Waste Transfer Lines

III. Significant Planned Actions in the Next Six Months:

- W-314, AP Phase 2, award contract and initiate construction
- W-314, AN Phase 1, complete turnover of upgrades to Operations
- W-314, AY/AZ Phase 2, award contract and initiate construction
- W-314, AN Phase 2, Complete construction
- W-314, A/A Valve Pit bypass, complete design and initiate construction
- E-525 Establish construction contracts for work starting in FY 2004
- E-525, Approval of Notice of Construction
- E-525, Initiate construction
- Submittal of Request for Variance from Secondary Containment Standards for Ten Double-Shell Tank System Dangerous Waste Transfer Lines to Ecology.

Near-term Actions Needed by DOE or Ecology:

- Review request for Variance of Secondary Containment

IV. Issues:

- Nothing to report.

Milestone M-46-00, Double-Shell Tank Space Evaluation**I. Deliverables:**

- **M-46-00I**, Double-Shell Tank Space Evaluation
Due: 9/30/02
Status: **Complete**
- **M-46-01I (Ecology MS)**, Concurrence of Additional Tank Acquisition
Due: Extended to 4/20/03
Status: **Complete.**
- **M-46-00J**, Double-Shell Tank Space Evaluation
Due: 9/30/03
Status: On schedule. Scenarios and modeling plans briefed with Ecology. Modeling and document preparation are ongoing.
- **M-46-01J**, Concurrence of Additional Tank Acquisition
Due: 11/30/03
Status: On schedule
- **M-46-00K**, Double-Shell Tank Space Evaluation
Due: 9/30/04
Status: On schedule
- **M-46-01K**, Concurrence of Additional Tank Acquisition
Due: 11/30/04
Status: On schedule
- **M-46-00L**, Double-Shell Tank Space Evaluation
Due: 9/30/05
Status: On schedule
- **M-46-01L**, Concurrence of Additional Tank Acquisition
Due: 11/30/05
Status: On schedule
- **M-46-00M**, Double-Shell Tank Space Evaluation
Due: 9/30/06
Status: On schedule
- **M-46-01M**, Concurrence of Additional Tank Acquisition
Due: 11/30/06
Status: On schedule

- **M-46-21**, Complete implementation of Double Shell Tank Space Optimization Study recommendations (Tank Space Options report, Document No. RPP-7702, April 12, 2001)
Due: 12/31/05

Status:1) *Increase the DST fill height*

Status: Schedule being developed

A subtask is being created within the DST Tank Integrity project to review and establish the technical basis for increased fill height within the DST tanks. This effort will provide confirmation of previous engineering assessments.

The DST Tank Integrity project scope also includes modification of the first 10 – 12 tanks where increased fill height could be used. The project plan is currently under development for inclusion into the FY04 baseline.

2) *Reserve emergency space to reflect compliance with DOE Order 435.1 for the DST system (provides 1.1 M gallons of DST space).*

Status: Complete

2.2 M gallons of space had been kept in reserve for the DST system and WTP returns, while DOE Order 435.1 requires 1.1 M gallons (equivalent to one DST). Reducing the reserve space to respond to a single emergency with 1.1 M gallons of available space continues to meet DOE's order requirement, while making 1.1 M gallons of space available to support acceleration. Agreement was reached between WTP and Tank Farm to share the emergency space in ICDs 19 and 20. A revision of the DST Emergency Pumping Guide (HNF-3484) was completed and has been shared with Ecology.

3) *Implement tank-by-tank evaluations to allow greater concentration of wastes beyond current 1.41 SpG limit.*

Status: On schedule

Tank-by-tank assessments may allow additional concentration while avoiding solids precipitation that influences flammable gas retention (may provide up to an additional 3.0M gallons of effective DST space).

Status: A safe and technically sound path was developed to allow the 242-A Evaporator to concentrate waste to a specific gravity (SpG) high than 1.41. The concentration planned for each campaign will be based on gas retention limits for each tank. The Evaporator Campaign 03-03, began June 28 and increased the SpG of waste from AP-108. Laboratory results on the final SpG are still pending. The waste concentration reduced the DST waste inventory by approximately 460k gallons from the original volume and (tbd) gallons of additional space by concentrating the waste above 1.41 SpG.

4) *Use space currently identified as "restricted" space in tanks that contain staged feed for WTP. (Provides up to 1.3M gallons of DST space).*

Status: On going

Waste feed controls are being developed to preserve the characteristics of WTP near term feed while allowing concentration and consolidation of waste in the tanks currently designated as feed tanks for the WTP. Discussions between ORP, CHG, and BNI are ongoing.

5) *Retrieve SST Waste Direct to Treatment and/or Packaging (Avoid using DST space for SST retrieved waste)*

Status: Ongoing

- Process demonstrations, process flow sheets, technical concepts and business plans are being developed to establish mechanisms for SST waste retrieval direct to supplemental treatment and packaging systems.

II. Significant Accomplishments:

- Evaporator campaign 03-03 began June 28 and finished July 13. The campaign achieved an approximate 39% Waste Volume Reduction, final laboratory data is still pending.

III. Significant Planned Actions in the Next Six Months:

- Evaporator campaigns scheduled:
03-04 August 2003
04-01 November 2003
04-02 December 2003
04-03 February 2004
- Update the SST Retrieval Sequence and DST Space Evaluation Report, RPP-8554

IV. Issues:

- None to report.

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-47-05**, Start construction of waste retrieval and mobilization systems for selected initial low-activity waste feed tank (other than AZ-101 and AZ-102)
Due: 5/31/04
Status: On schedule. The AP-101 transfer pump was removed in November 2002. New pump ordered. New pump installation is scheduled for FY 2004.
- **M-47-03**, Start construction of waste retrieval and mobilization systems for selected initial high-level waste feed tank.
Due: 7/30/04
Status: **Complete.**
- **M-47-01**, Complete construction of the transfer line system from the 241-AP Tank Farm to the WTP Facility to support the start of hot commissioning of the Phase I Tank Waste Treatment Complex
Due: 3/31/06
Status: Ahead of schedule. Pipe installation and testing is complete. AP-02A and AP-02D pit modifications are ongoing.
- **M-47-05A**, 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)
Due: 4/30/06
Status: Ahead of schedule. AP-101 pump installation and turnover to operations scheduled for FY 2004.

Out year (Post 2006) Milestones:

- **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: 3/31/07
Status: Ahead of schedule. W-314 completed construction of new transfer lines from AZ to AP tank farms (SN-634, SN-636, and SN-637). W-211 AP-WTP transfer line and pit construction is ongoing (see M-47-01).
- **M-47-03A**, Complete startup and turnover activities for waste retrieval and mobilization systems for selected initial high-level waste feed tank
Due: 2/28/09
Status: Ahead of schedule. AY-102 Detailed design will begin 1st Quarter FY04.
- **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: 6/30/09

Status: Ahead of schedule. Startup and turnover follow AP-101 transfer pump installation, as shown in M-47-05A. Currently scheduled for completion in FY 2004.

- **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: 6/30/10

Status: Negotiations are not yet underway.

II. Significant Accomplishments:

- W-211, Completed backfill of the AP-to-WTP transfer piping system.
- W-211, Completed installation of new wall nozzles, pressure tested AP-02A pit jumpers and placed concrete for new cover blocks for AP-02D.
- W-211, Started installation of the controllers and Variable Frequency Drives in building AZ-156 for AN Infrastructure
- W-211, Started excavation for underground utilities and continued installation of underground piping and conduit for AN Infrastructure

III. Significant Planned Actions in the Next Six Months:

- Complete construction of the transfer system from the 241-AP Tank Farm to the WTP interface point.
- Complete construction of the AZ-101 Retrieval System (delayed transfer pump installation to FY08).
- Complete AN Infrastructure (AZ-156) upgrades
- Initiate electrical upgrades for AP-101 transfer pump.
- Initiate detailed design for AY-102, First HLW feed tank

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

- Nothing to report

IV. Issues:

- Nothing to report

In Tank Characterization and Summary

I. Significant Accomplishments:

As of July 31, 2003:

- Sampling Activities:

<u>Program</u>	<u>Tanks Completed</u>			
	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter
Cross-Site Transfer Compatibility	SY-102 (G)		244-AR (G)	
Chemistry Control	AN-107 (C)	AW-101 (C)	AN-102 (C)	
	AN-101 (G)	AN-107 (G)	AY-102 (C)	
	AP-103 (G)	AW-105 (G)	AN-107 (C)	
	AP-106 (G)			
	AY-102 (G)			
	AW-102 (G)			
SST Retrieval/Closure	U-107 (G)	C-106 (G)	C-106 (G)	
Evaporator Operations	SY-101 (G)	AP-108 (G)	AW-106 (G)	AP-105 (G)
	AW-106 (G)	AW-104 (G)		AP-108 (G)
		AP-104 (G)		
Health		TX-116 (G)	TX-116 (G)	

- Completed a total of 7 TCRs for this Fiscal Year.
- Completed DQO for Tank 241-U-107 Dissolution Proof-of -Concept, Rev. 2, November 2002.
- Completed FY 2003 1st Quarter Status Report and submitted to Ecology January 2003.
- Completed Annual Characterization Sampling Priority Workshop on February 12, 2003.
- Conducted a comment resolution meeting on C-106 Closure Demonstration DQO with Ecology April 18, 2003. All comments were resolved.
- Completed FY 2nd Quarter Status Report and submitted to Ecology in April 2003.
- Completed Closure DQO for Tanks 241-C-201, C-202, C-203, and C-204 in July 2003.
- Completed FY 2003 3rd Quarter Status Report and submitted to Ecology in July 2003.

II. Significant Planned Actions within the Next Six Months:

- Complete Tank 241 C-106 Closure Demonstration DQO, mid August 2003.
- Complete Closure DQO for Tanks 241-S-102 and S-112 in September 2003.
- Complete FY 2003 4th Quarter Status Report and submit to Ecology by October 31, 2003.

III. Issues:

- None

M-62, Complete Pretreatment Processing and Vitrification of Tank Wastes**I. Near-Term Deliverables:**

- **M-62-01**, Submit Semi-Annual Compliance Report
Due: Semi-annually beginning July 31, 2000
Status: The report due July 31, 2003 was completed. ORP letter 03-ED-126. The next report will be due Jan. 31/2004.

- **M-62-06**, Start of Construction – Phase I Treatment Complex
Due: December 31, 2002
Status: **Complete.** 7/10/02, first concrete pour made.

- **M-62-07**, Construction Progress Milestones (2) – Phase I Treatment Complex
Due: TBD
Two new Construction Progress Milestones have been defined and submitted in the Recovery Plan. Pending approval of the associated change form, the new milestones will be:
 - M-62-07A, Initial erection of LAW Structural Steel in the Vit. Facility
Due Date: October 30, 2003
 - Recovery Plan: M-62-07B, Complete Assembly of LAW Melter
Due Date: October 30, 2005

- **M-62-08**, Submittal of Hanford Tank Waste Phase II Treatment Alternatives Report
Due: July 31, 2005
Status: On schedule
The Strategic Planning Group within the ORP Office of the Assistant Manager for Integration and Control has initiated long range planning for the remainder of the Hanford waste immobilization. Efforts include proposed R&D needs, tank waste inventory projections and plant sizing options. Initial submittal of the report is scheduled for July 31, 2005.

- **M-62-03**, Submit DOE petition for RCRA de-listing of vitrified HLW
Due: December 31, 2006
Status: The LDR and delisting DQO are under review and comment. Research and technology work continues. This activity is on schedule to be completed by 12/31/06.

Out year (Post 2006) milestones:

- **M-62-09**, Start (Hot) Commissioning - Phase 1
Due: December 31, 2007
Status: Hot Commissioning of the Phase I Treatment Complex is on schedule. This milestone is a contract requirement for the Waste Treatment Plant; reference Section F, paragraph F.1 (b) milestone M-4. The contractor is incentivised to meet or beat the start of Hot Commissioning by December 31, 2007.

- **M-62-10**, Complete Hot Commissioning – Phase I Treatment Complex
Due: January 31, 2011
Status: On schedule
- **M-62-11**, Submittal of Hanford Tank Waste Treatment Phase II Plan
Due: January 31, 2014
Status: On schedule
- **M-62-00A**, Complete pretreatment, processing and vitrification of Hanford Phase I HLW and Low Activity Waste (LAW)
Due: February 28, 2018
Status: On schedule
As committed to in the BNI contract, stated in the change package, DOE is on a schedule to complete the first 10% of waste processing measured by mass and 25% of waste processing measured by radioactivity by February 28, 2018.
- **M-62-00**, Complete pretreatment processing and vitrification of Hanford high level and low activity tank waste
Due: December 31, 2028
Status: On schedule
ORP remains committed to this activity. The completion date for this milestone will be evaluated on a continual basis as we progress with this program. Committed means that DOE intends to “bring about” or perform all work to ensure that Hanford’s high-level radioactive waste is vitrified by December 31, 2028.
- **M-62-12**, Issuance of DOE Authorization to Proceed – Phase II Treatment
Due: TBD
Status: This milestone will be negotiated in the 2014 timeframe.

II. Significant Accomplishments:

General Highlights

- Nearly 11,000 cubic yards of concrete poured in June and July.
- 61,972 cubic yards installed to date against 57,273 scheduled.
- 23.9% complete based on concrete schedule.
- Construction remains ahead of schedule.
- 1st structural steel placed in LAW facility meeting TPA milestone nearly three months early.
- DOE and Ecology agree to new TPA milestones.
- The EPA approved the WTP NESHAPS application to modify the WTP to the 2+2 melter configuration.

Pretreatment Facility

- Received process pit vessels (two major vessels) via delivery by Columbia River. Scheduled to be installed in October.

- Continued preassembly work of '4-Pack' Feed Receipt vessels now more than 50% complete.
- More than 65% complete with basemat, additional concrete placements planned and walls to grade are underway.

LAW Vitrification Facility

- Concrete wall placements continue with 18 of the 32 interior wall placements completed to date.
- Structural steel placements began in July and continue at the -21 elevation.
- Completed more than 50% of the mass backfill.

HLW Vitrification Facility

- Installed the first shield door (12 inches thick and weighing 8 tons)
- Completed concrete placements for thickened slab and interior wall, continuing with preparations for additional thickened slab placements and wall placements in August.

Balance of Facilities

- Began and continue with concrete preparations for cooling tower basin and three tank foundations.
- Continued with installation of electrical and piping underground utilities.
- Initiated subcontractor work to construct eight field erected tanks.

Analytical Laboratory Facility

- Decision was made to eliminate the Temporary Laboratory.

III. Significant Planned Actions in the Next Six Months

- Complete EI-21 Civil Wall Drawings for HLW
- Set the #1 Melter Submerged Scrubber Condensate Collection Vessel in the HLW
- Initiate Concrete Placement at +3 Elevation in LAW

IV. Issues

- None

Backup Information: Cost and Schedule Variance Analysis

- **M-62-10, Complete Hot Commissioning – Phase I Treatment Complex**
Due: January 31, 2011
Status: On schedule

- **M-62-11, Submittal of Hanford Tank Waste Treatment Phase II Plan**
Due: January 31, 2014
Status: On schedule

- **M-62-00A, Complete pretreatment, processing and vitrification of Hanford Phase I HLW and Low Activity Waste (LAW)**
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General Highlights

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- DOE and Ecology agree to new TPA milestones.
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Pretreatment Facility

- Received process pit vessels (two major vessels) via delivery by Columbia River. Scheduled to be installed in October.

CH2M HILL Hanford Group, Inc.
FY 2003 PERFORMANCE MEASUREMENT - JULY 2003
BY PROJECT BASELINE SUMMARY/CAPITAL PROJECTS
Dollars in Thousands

		Cummulative FYTD				Variance				Budget at Completion (BAC)
		Budgeted Cost		Actual Cost	Schedule	SV %	Cost	CV %		
		Work Scheduled	Work Performed	Work Performed						
ORP-TW03	STORE WASTE	109,561	108,241	116,804	(1,320)	-1.2%	(8,563)	-7.9%	136,996	
ORP-TW04	RETRIEVE WASTE	55,998	55,156	57,418	(842)	-1.5%	(2,263)	-4.1%	69,202	
	W-211 - Initial Tank Retrieval Systems - Project	17,715	25,090	17,873	7,375	41.6%	7,217	28.8%	23,757	
	W-314 - Tank Farm Restoration & Safe Operations - Project	29,822	30,401	25,688	579	1.9%	4,712	15.5%	39,039	
	TOTAL RETRIEVE WASTE	103,535	110,646	100,979	7,111	6.9%	9,667	8.7%	131,998	
ORP-TW06	TREAT WASTE	18,156	17,042	15,222	(1,114)	-6.1%	1,820	10.7%	23,097	
	W-519 - Priv. Phase 1 Infrastructure Support - Project	0	0	(97)	0	0.0%	97	0.0%	0	
	TOTAL TREAT WASTE	18,156	17,042	15,125	(1,114)	-6.1%	1,917	10.7%	23,097	
ORP-TW09	DISPOSE WASTE	8,104	8,021	8,748	(83)	-1.0%	(727)	-9.1%	10,643	
ORP-TW10	MANAGE PROJECT	60,910	60,933	49,422	23	0.0%	11,511	18.9%	75,071	
ORP-TW11	CLOSE FACILITIES	21,134	20,232	21,521	(901)	-4.3%	(1,288)	-6.4%	27,224	
ORP-PED	PROJECT ENGINEERING & DESIGN									
	PED - IHLW Interim Storage Facility - Line Item	1,012	1,024	1,139	12	1.2%	(116)	-11.3%	1,557	
RL-CP02	242-A Evaporator - Operation	495	496	550	1	0.0%	(54)	-10.9%	550	
RL73600	242-A Evaporator - Spares	73	73	358	0	0.0%	(285)	-390.3%	360	
RPP TOTAL		322,980	326,709	314,646	3,729	1.2%	12,063	3.7%	407,446	

- TW03 - STORE WASTE

PERFORMANCE SUMMARY

FY 2003 Cumulative Performance - Store Waste						
(\$000)						
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>	<u>BAC</u>
TW03	99,717	98,166	107,680	(1,551) -1.6%	(9,515) -9.7%	137,594

SCHEDULE VARIANCE

Description and Cause: The unfavorable schedule variance (-\$1.6M; -1.6%) is a result of the following:

Less work than planned has been performed for the Tank Farm Documented Safety Analysis (DSA) implementation because of delays in reaching final resolution of the technical safety requirements (TSR). The schedule for this activity will be recovered by the end of October 2003.

Changes in the 242-A Evaporator operation schedule resulted in a delay in the performance of the evaporator upgrades.

Delays have been experienced on the Computer Automated Surveillance System (CASS) to Tank Monitoring and Control System (TMACS) Upgrades because of lack of available field resources, and re-work of work packages caused by changing work controls and delays in fieldwork execution. In addition, AP/AW Flushing & Transfer System Upgrades have been delayed while Engineering, Operations, and Safety resolved design issues for the Flush Pit Covers.

Impact: There is no forecasted impact to the Tank Farm DSA implementation and the 242-A Evaporator upgrades, as the schedules will be recovered.

The negative schedule variance on the CASS to TMACS activity will continue until field resources are made available, but this is not affecting critical path efforts.

Corrective Action: Final resolution of the TSR is expected in July, thus permitting the completion of the Tank Farm DSA implementation by October 2003.

The Evaporator work scope has been initiated and the schedule variance will self-correct by the end of the fiscal year. Coordination and integration is being stressed to ensure availability of resources for the CASS/TMAC activities.

COST VARIANCE

Description and Cause: The unfavorable cost variance (-\$9.5M; -9.7%) is the result of the following:

Interim Stabilization has incurred unplanned costs on the failed S/SX transfer line for design, engineering, planning and fabrication of a new hose-in-hose transfer line (HiHiTL) from S-A valve pit to Tank 241-SY-102, as well as increased requirements resulting from corrective

actions surrounding the failed SX HIHTL. Extra resources were used to expedite the startup of pumping Tank 241-C-103 and repairing unexpected equipment failures. Additionally, front-end maintenance costs to keep tanks pumping are higher than planned.

Increased subcontractor costs were incurred in DSA Completion/Maintenance to meet the March 24, 2003 date for submittal of the DSA. In addition, subcontract costs for Unreviewed Safety Question (USQ) work for all programs are being charged to this Project Baseline Summary (PBS), causing an overrun condition.

Waste Feed Operations and SST/DST maintenance has a higher number of operators and Health Physics Technicians (HPT) than planned supporting basic maintenance and monitoring activities. In addition, extra resources were required on unplanned equipment failures, inspections, and cleaning and testing of DST facilities.

Impact: Actions, including resource redeployment, are needed to prevent an overrun condition in this PBS at fiscal year-end.

Corrective Action: Interim stabilization's labor charges are being closely monitored and resources will be redeployed as tank pumping and equipment repairs are completed.

Contracts supporting DSA development were terminated immediately following submittal of the DSA, leaving only the team supporting review of the DSA by ORP. Cost transfers will be processed to transfer USQ costs to appropriate accounts.

Agreement has been reached with Fluor Hanford, Inc. for the transfer of 24 health physics technicians and 13 nuclear chemical operators.

TW04 - RETRIEVE WASTE

PERFORMANCE SUMMARY

FY 2003 Cumulative Performance - Retrieve Waste						
(\$000)						
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>	<u>BAC</u>
TW04 - Expense	50,196	49,576	51,972	(620) -1.2%	(2,396) -4.8%	69,543
W-211	15,966	22,222	15,855	6,257 39.2%	6,368 28.7%	23,757
W-314	25,252	26,362	22,992	1,111 4.4%	3,371 12.8%	43,987

SCHEDULE VARIANCE

RETRIEVE WASTE – EXPENSE

Description and Cause: The unfavorable schedule variance (-\$0.6M; -1.2%) is within the reporting threshold.

Impact: There is no forecasted impact.

Corrective Action: None required.

RETRIEVE WASTE – CAPITAL PROJECTS

Project W-211 - Initial Tank Retrieval Systems

Description and Cause: The favorable schedule variance (\$6.3M; 39.2%) is the result of several construction contracts, including AZ-101 and AN-101 retrieval systems construction and the transfer system construction contracts, which are progressing significantly ahead of the baseline completion dates.

Impact: There is no forecasted impact.

Corrective Action: None required.

Project W-314 - Tank Farm Restoration and Safe Operations

Description and Cause: The favorable schedule variance (\$1.1M; 4.4%) is a result progress on Phase 2 AW and SY Farms construction which is significantly ahead of the baseline schedule

Impact: There is no forecasted impact.

Corrective Action: None required.

COST VARIANCE

RETRIEVE WASTE – EXPENSE

Description and Cause: The unfavorable cost variance (-\$2.4M; -4.8%) is the result of the following.

On project S-112 Retrieval/Closure, additional engineering support was required to resolve issues to complete fabrication and installation of the retrieval system.

Project C-106 Retrieval/Closure has incurred more costs than planned due to the establishment of a first of a kind product and path forward for the *Resource Conservation and Recovery Act of 1976 (RCRA)* closure plan development.

Impact: A year end unfavorable cost variance is forecasted for these activities.

Corrective Action: Costs on projects S-112 and C-106 are being monitored and will be reduced where possible.

RETRIEVE WASTE – CAPITAL PROJECTS

Project W-211 - Initial Tank Retrieval Systems

Description and Cause: The favorable cost variance (\$6.4M; 28.7%) is the result of contract awards for procurement and construction that were less than planned in the baseline.

Impact: There is no forecasted impact.

Corrective Action: None required.

Project W-314 - Tank Farm Restoration and Safe Operations

Description and Cause: The favorable cost variance (\$3.4M; 12.8%) is a result of cost savings that are being achieved through competitive bidding for the Phase 2 definitive designs on AY, AZ and AP Farms and Phase 2 construction on SY and AW Farms. In addition, cost savings are being realized on the HVAC procurement for AW Phase 2 because of the use of a contract option on the AN Phase 2 HVAC procurement.

Impact: There is no forecasted impact.
Corrective Action: None required.

TW06 - TREAT WASTE

PERFORMANCE SUMMARY

FY 2003 Cumulative Performance - Treat Waste						
(\$000)						
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>	<u>BAC</u>
TW06 - Expense	16,055	14,974	13,102	(1,081) -6.7%	1,873 12.5%	23,097
W-519	0	0	(97)	0 0.0%	97 0.0%	0

SCHEDULE VARIANCE

TREAT WASTE - EXPENSE

Description and Cause: The unfavorable schedule variance (-\$1.1M; -6.7%) is because of a delay in starting permitting activities while the strategy was being determined. In addition, development testing and Engineering support was delayed to match the retrieval schedule.

Impact: There is no forecasted impact.

Corrective Action: A schedule recovery plan has been developed and full implementation is expected by August 2003.

TREAT WASTE – CAPITAL PROJECTS¹

Project W-519 - Privatization Phase I Infrastructure Support

Description and Cause: The schedule variance (\$0.0M; 0.0%) is within the reporting threshold.

Impact: There is no forecasted impact.

Corrective Action: None required.

¹ Values for Project W-519 represent residual accrual activity from FY 2002.

COST VARIANCE

TREAT WASTE - EXPENSE

Description and Cause: The favorable cost variance (\$1.9M; 12.5%) is the result of efficiencies realized on project management activities of the TRU/LLW Packaging project and on early engineering work of the Low Activity Waste (LAW) project.

Impact: There is no forecasted impact.

Corrective Action: None required.

TREAT WASTE – CAPITAL PROJECTS

Project W-519 - Privatization Phase I Infrastructure Support

Description and Cause: The cost variance (\$0.1M; 0.0%) is within the reporting threshold.

Impact: There is no forecasted impact.

Corrective Action: None required.

TW09 - DISPOSE WASTE

PERFORMANCE SUMMARY

FY 2003 Cumulative Performance - Dispose Waste						
(\$000)						
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>	<u>BAC</u>
TW09	7,308	7,217	7,529	(91) -1.2%	(312) -4.3%	10,643

SCHEDULE VARIANCE

DISPOSE WASTE

Description and Cause: The unfavorable schedule variance (-\$0.1M; -1.2%) is within the reporting threshold.

Impact: There is no forecasted impact.

Corrective Action: None required.

COST VARIANCE

DISPOSE WASTE

Description and Cause: The unfavorable cost variance (-\$0.3M; -4.3%) is within the reporting threshold.

Impact: There is no forecasted impact.

Corrective Action: None required.

TW10 - MANAGE PROJECT

PERFORMANCE SUMMARY

FY 2003 Cumulative Performance – Manage Project						
(\$000)						
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>	<u>BAC</u>
TW10	54,134	54,037	45,184	(97) -0.2%	8,853 16.4%	75,105

SCHEDULE VARIANCE

Description and Cause: The unfavorable schedule variance (-\$0.1M; -0.2%) is within the reporting threshold.

Impact: There is no forecasted impact.

Corrective Action: None required.

COST VARIANCE

Description and Cause: The favorable cost variance (\$8.9M; 16.4%) is because of the receipt, from the State of Washington, of a B&O tax credit for businesses that perform research in specific high technology categories. In addition, there was a delay in the implementation of workforce reductions. Consequently, termination costs were not incurred as planned.

Impact: There is no forecasted impact.

Corrective Action: The B&O tax credit will be used to fund ongoing operations. Additional termination costs are expected to be incurred over the next three months which will reduce the favorable cost variance.

TW11 - CLOSE FACILITIES

PERFORMANCE SUMMARY

FY 2003 Cumulative Performance – Close Facilities						
(\$000)						
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>	<u>BAC</u>
TW11	19,051	18,868	20,362	(183) -1.0%	(1,493) -7.9%	27,223

SCHEDULE VARIANCE

Description and Cause: The unfavorable schedule variance (-\$0.2M; -1.0%) is within the reporting threshold.

Impact: There is no forecasted impact.

Corrective Action: None required.

COST VARIANCE

Description and Cause: The unfavorable cost variance (-\$1.5M; -7.9%) is the result of the following:

On the EIS activity, unplanned costs have been incurred because the original six alternatives, addressed by the CH2M HILL data packages, were restructured by ORP/Science Applications International Corporation, and three new sub-alternatives were added. CH2M HILL has provided data sets to address these nine alternatives.

Unplanned costs have been incurred on the 244-AR Vault because of equipment failures, and additional resources which were required to ensure that sound readiness preparation and system turnover are completed to meet *Tri-Party Agreement* milestones.

Impact: Fiscal year end unfavorable cost variances are forecasted for these activities.

Corrective Action: Costs are being monitored and will be reduced where possible to minimize the amount of the unfavorable cost variance.

PED - PROJECT ENGINEERING AND DESIGN

PERFORMANCE SUMMARY

FY 2003 Cumulative Performance – Project Engineering and Design (\$000)						
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>	<u>BAC</u>
PED	808	787	1,007	(22) -2.7%	(220) -28.0%	1,557

SCHEDULE VARIANCE

PROJECT ENGINEERING AND DESIGN – CAPITAL PROJECTS

Project W-464 - Immobilized High-Level Waste Interim Storage (Line Item)

Description and Cause: The unfavorable schedule variance (-\$0.0M; -2.7%) is within the reporting threshold.

Impact: There is no forecasted impact.

Corrective Action: None required.

COST VARIANCE

PROJECT ENGINEERING AND DESIGN – CAPITAL PROJECTS

Project W-464 - Immobilized High-Level Waste Interim Storage (Line Item)

Description and Cause: The unfavorable cost variance (-\$0.2M; -28.0%) is the result of a point-in-time adjustment that was recorded in March, based on CD-2 approval, which reduced project-to-date performance for Project W-464, Initial IHLW Storage Facility.

Impact: The project-to-date costs are accurately stated, however the fiscal year performance will continue to reflect an unfavorable variance as a result of this point-in-time adjustment.

Corrective Action: None required

RL73600 – 242-A EVAPORATOR SPARES

PERFORMANCE SUMMARY

FY 2003 Cumulative Performance –242-A Evaporator Spares						
(\$000)						
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>	<u>BAC</u>
PED	0	0	0	0 0.0%	0 0.0%	360

SCHEDULE VARIANCE

Description and Cause: The unfavorable schedule variance (\$0.0M; 0.0%) is within the reporting threshold.

Impact: There is no forecasted impact.

Corrective Action: None required.

COST VARIANCE

Description and Cause: The unfavorable schedule variance (\$0.0M; -0.0%) is within the reporting threshold.

Impact: There is no forecasted impact.

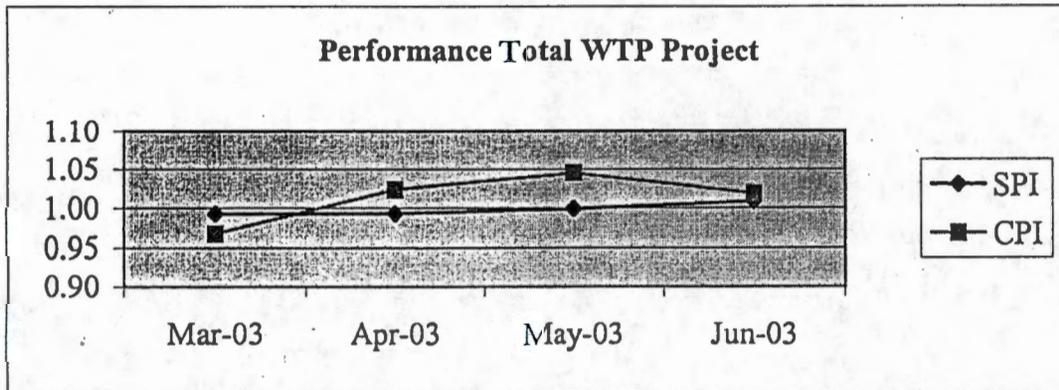
Corrective Action: None required.

Total WTP Project

Cumulative Costs in Thousands

	Mar-03	Apr-03	May-03	Jun-03
BCWS	943,990	992,692	1,070,249	1,117,792
BCWP	936,563	985,580	1,068,709	1,127,089
ACWP	968,145	962,552	1,023,196	1,106,272

	Mar-03	Apr-03	May-03	Jun-03
SPI	0.99	0.99	1.00	1.01
CPI	0.97	1.02	1.04	1.02



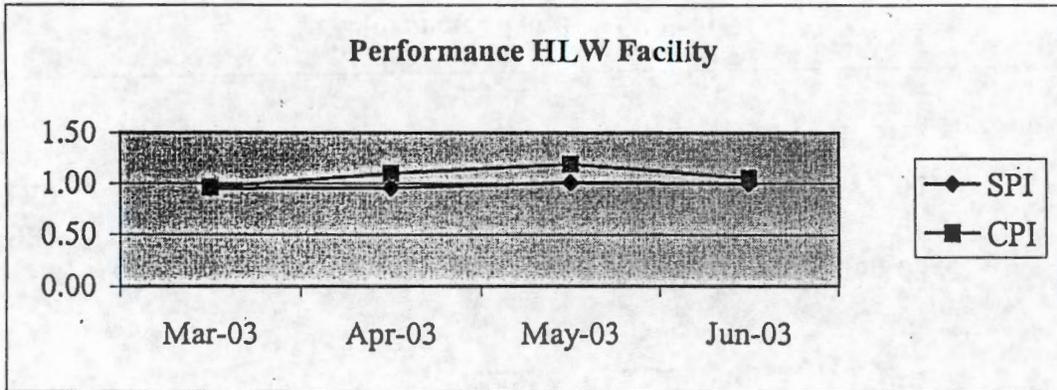
SPI = BCWP/BCWS, CPI = BCWP/ACWP

High Level Waste Facility

Cumulative Costs in Thousands

	Mar-03	Apr-03	May-03	Jun-03
BCWS	113,394	120,228	130,338	137,722
BCWP	107,251	114,653	131,223	136,912
ACWP	111,647	104,478	110,491	130,113

	Mar-03	Apr-03	May-03	Jun-03
SPI	0.95	0.95	1.01	0.99
CPI	0.96	1.10	1.19	1.05

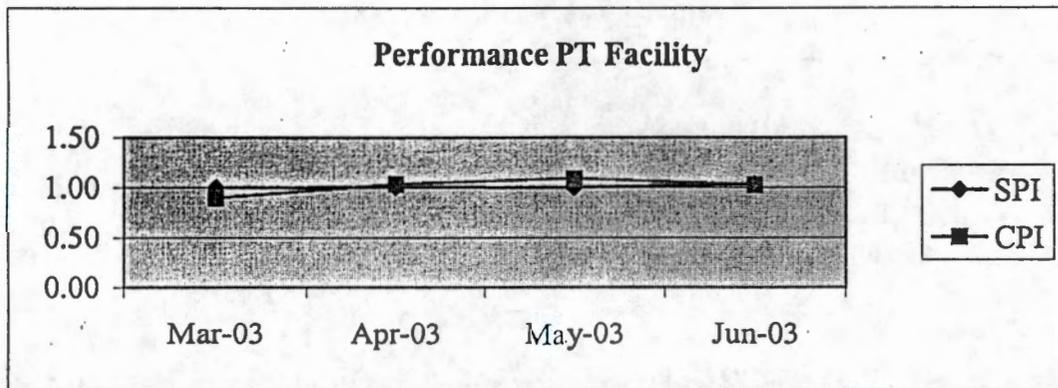


Pretreatment Facility

Cumulative Costs in Thousands

	Mar-03	Apr-03	May-03	Jun-03
BCWS	128,806	137,946	158,439	166,854
BCWP	128,820	138,459	158,104	172,367
ACWP	143,861	133,878	145,273	168,024

	Mar-03	Apr-03	May-03	Jun-03
SPI	1.00	1.00	1.00	1.03
CPI	0.90	1.03	1.09	1.03

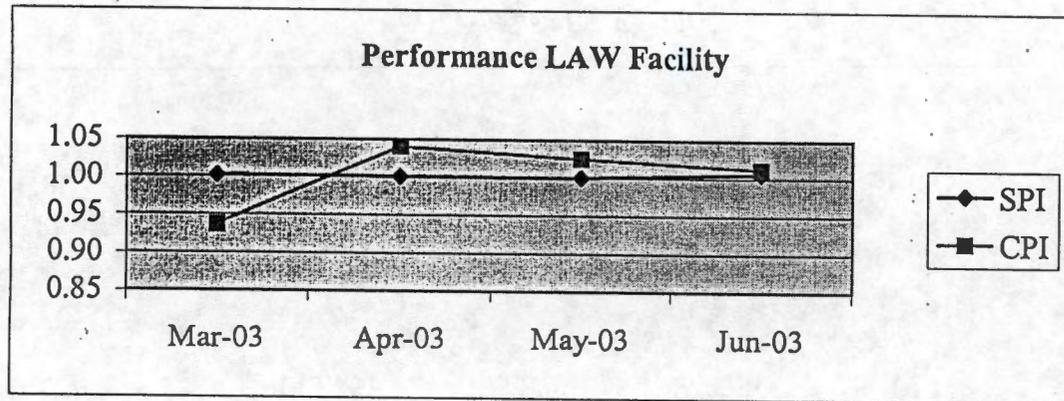


Low Activity Waste Facility

Cumulative Costs in Thousands

	Mar-03	Apr-03	May-03	Jun-03
BCWS	106,273	110,169	116,036	121,131
BCWP	106,413	110,199	116,036	121,807
ACWP	113,615	105,923	113,218	120,397

	Mar-03	Apr-03	May-03	Jun-03
SPI	1.00	1.00	1.00	1.01
CPI	0.94	1.04	1.02	1.01

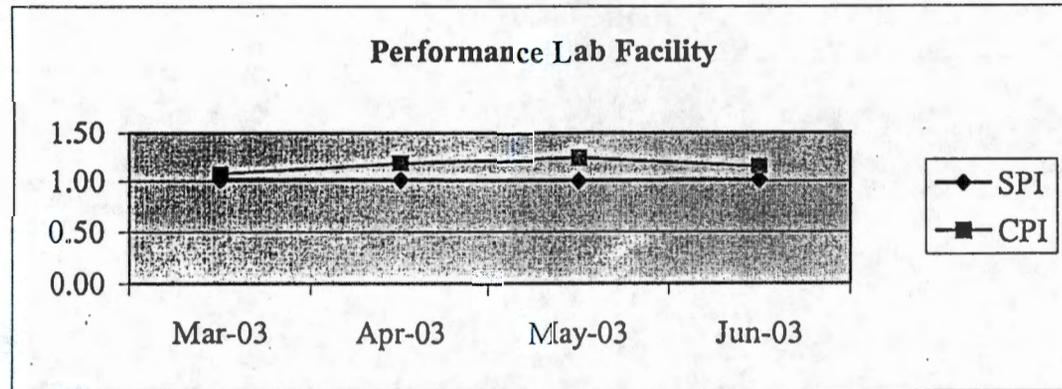


Analytical Laboratory Facility

Cumulative Costs in Thousands

	Mar-03	Apr-03	May-03	Jun-03
BCWS	11,869	13,289	15,405	16,767
BCWP	12,040	13,388	15,418	16,943
ACWP	11,241	11,305	12,404	14,692

	Mar-03	Apr-03	May-03	Jun-03
SPI	1.01	1.01	1.00	1.01
CPI	1.07	1.18	1.24	1.15



Balance of Facilities

Cumulative Costs in Thousands

	Mar-03	Apr-03	May-03	Jun-03
BCWS	34,164	36,418	40,193	42,710
BCWP	32,983	34,240	38,297	46,408
ACWP	36,533	35,734	38,959	41,562

	Mar-03	Apr-03	May-03	Jun-03
SPI	0.97	0.94	0.95	1.09
CPI	0.90	0.96	0.98	1.12

