

Tri-Party Agreement Milestone Review – Office of River Protection
March 4, 2003
Meeting Minutes

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

Date: 4/22/03

Approval: *W. Wade Ballard*
 W. Wade Ballard (A5-12)
 RL IAMIT Representative

Date: 4/22/03

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

Date: 4/23/03

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

Date: 4/22/03

Minutes Prepared by:

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

Date: 4/22/03
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Aromi, E. S.	CHG	H6-63	Liou W.	EDMC	ORP	H6-60
Bartus, D.	RPA	B5-18*	Mattlin, E.		RL	A5-15*
Brown, M.	Ecology	B5-18*	Maus, B.		ORP	H6-60*
Burandt, M. E.	ORP	H6-60	Miera, F. R.		CHG	R1-31*
Buxbaum, M.E.	FH	B3-53	Morrison, R. D.		FH	A1-14*
Clark, C. E.	RL	A5-15*	Murphy-Fitch, E. J.		FH	A1-14*
Clark, D.	ORP	H6-60*	K. Niles		ODOE*	
Cusack, L.	Ecology	B5-18*	Piippo, R. B.		FH	A1-14
Dahl, S.	Ecology	B5-18*	Rasmussen, J. E.		ORP	H6-60
DeWitt, K.	Ecology	B5-18	Ramsay, M.		ORP	H6-60
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*	Skinnerland, E. R.		Ecology	B5-18
Gay, R.	CTUR		Sobczyk, S.		Nez Perce	
Hales, J. E.	FH	A1-14	Stanley, R.		Ecology	Lacey*
Hansen, J. L.	ORP/Imm	H6-60*	Stevens, A.		ORP	H6-60
Hebdon, J.	RL	A5-12*	Taylor, W.		ORP	H6-60*
Hedges, J.	Ecology	B5-18*	Uziemblo, N. H.		Ecology	B5-18*
Henry, D.	ODOE*		Williams, D. J.		ORP	H6-60*
Hertzfel, J. S.	FH	A1-14	Yasek, R.		ORP	H6-60
Jentzen, B.	Ecology	B5-18*	Yerxa, J. K.		RL	A5-15
Jim, Y.	YIN		Administrative Record		EDMC	H6-08*
Keggen, D.	Ecology	B5-18*	File: TPAM_11_02.doc		*w/Attachments	
LaMont, P.	ORP	H6-60				
Lober, R.	ORP	H6-60				

Office of River Protection
Tri-Party Agreement Milestone Review
March 4, 2003

FY 2003 ORP Tri-Party Agreement Milestone Performance

Start: 9:08 a.m.

End: 9:14 a.m.

Consent Decree commitment D-001-06-T01, *Complete Pumping of SX-105, SX-103, SX-101 and U-106 by February 28, 2003*, was not met as scheduled (letter transmitted to Ecology discussing the details on this commitment). Ecology requested that BNI cost/schedule performance data be included in future presentations.

The status of critical path analysis was provided for:

- Tri-Party Agreement Major Milestone M-043, *Tank Farm Upgrades*
- Tri-Party Agreement Major Milestone M-090, *Complete Acquisition of New Facilities, Modification of Existing Facilities, and/or Modification of Planned Facilities as Necessary for Storage of Hanford Site IHLW and ILAW, and Disposal of ILAW*
- Tri-Party Agreement Interim Milestone M-023-25G, *Complete the Installation of Liquid Observation Wells and Begin Weekly Liquid Observation Monitoring for Four Additional SSTs*
- Tri-Party Agreement Interim Milestone M-043-03C, *Complete Full Scale Saltcake Waste Retrieval Technology Demonstration at Single-Shell Tank S-112...*
- Tri-Party Agreement Interim Milestone M-045-03F, *Complete Full Scale Sludge/Hard Heel, Confined Sluicing and Robotic Technologies, Waste Retrieval, Demonstration at Tank C-104*
- Tri-Party Agreement Interim Milestone M-045-05A, *Complete Initial Waste Retrieval from Tank S-102*
- Consent Decree D-001-00, *DOE Shall Complete Interim Stabilization of all 29 Single-Shell Tanks (SSTs)*

Presentation attached.

M-043-00, Tank Farm Upgrades

Start: 09:14 a.m.

End: 09:17 a.m.

Workscope is on schedule. Discussion/negotiation on closure for Tri-Party Agreement Major Milestone M-043-00, *Complete Tank Farm Upgrades by June 30, 2005*, needs to be completed. In response to Ecology's January 20, 2003 letter, ORP would like to meet with Ecology to discuss integrity assessment, variance request, and criteria/specifications used for construction of the M-043 upgrades. Presentation attached.

Action: Schedule meeting to discuss integrity assessment, variance request and criteria/specification used for construction of the M-043 upgrades.

Actionee: Cathy Louie, RL/Steve Lijek, Ecology

M-046-00, Double Shell Tank Space Evaluation

Start: 09:17 a.m.
End: 09:22 a.m.

Tri-Party Agreement Interim Milestone M-046-01I, *Concurrence of Additional Tank Acquisition*, is on schedule for completion by April 20, 2003. Double-shell tank (DST) space optimization was discussed. Presentation attached.

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

Start: 9:22 a.m.
End: 9:26 a.m.

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

Interim Stabilization (Consent Decree)

Start: 9:36 a.m.
End: 9:49 a.m.

Workscope is on schedule. There are 13 tanks in pumping status. Over 2.8 million gallons have been removed as of February 4, 2003. Over 46,000 gallons were pumped in January 2003. New auto-fill dilution tank systems were installed that will free up resources and reduce the risk of spillage.

Partial line blockage from the U-Farm remains a concern. Periodic line flushing with warm water provides some marginal improvement. A caustic line soak will be performed causing a three-week outage of the U-Farm.

Pumping rates have slowed due to the removal of most of the free liquid; now, the liquid drained is from liquid that has come through the saltcake.

Ecology requested that a chart be included in future Tri-Party Agreement Quarterly Milestone Review presentations that depicts on a monthly basis, percent efficiency for the last quarter forecast versus actual volume, and projected to be pumped versus actually pumped. Presentation attached.

Action: Include percent efficiency graph in subsequent ORP Tri-Party Agreement Quarterly Milestone Reviews
Actionee: Andy Stevens, RL /Nancy Uziemblo, Ecology

M-045-00, SST Closure

Start: 9:49 a.m.
End: 10:23 a.m.

Attempts to loosen and remove the C-106 heel-jet from Riser 13 have been unsuccessful to date. Additional methods are being developed to loosen the heel jet as well as reviewing riser availability for alternate deployments. The feasibility of acid-dissolution and deployment of the Mobile Retrieval System (Vacuum and Vehicle) is also under review.

The funding for the C-104 transfer system was redirected to high priority work. Ecology requested that ORP provide them details on what the money spent was and does that activity support accelerating retrieval of high-level tanks. Presentation attached.

Action: Provide details on the redirection of C-104 transfer system funds to support higher priority workscope.

Actionee: Andy Stevens, RL/Dick Heggen, Ecology

M-045-50, 60 SST Corrective Actions

Start: 10:34 a.m.

End: 10:43 a.m.

ORP would like to meet with Ecology to revise M-045, -050, and -060 series to reflect projected workscope in SST Farm vadose characterization. The RFI is needed in February 2004 so it will need to be revised and addressed during the summer of 2003. Presentation attached.

Action: Meet with Ecology to discuss M-045, -050, and -060 series milestones to reflect projected work in SST Farm vadose characterization.

Actionee: Rob Yasek, Joe Caggiano, and Jeff Lyon

M-023, Tank Integrity and Monitoring

Start: 10:43 a.m.

End: 10:47 a.m.

Tri-Party Agreement Interim Milestone M-23-25C, Complete the Installation of Liquid Observation Wells (LOWs) and Begin Liquid Observation, due March 31, 2003, was completed on February 5, 2003 and not February 4, 2003, as stated on page 29 of the presentation.

ORP will propose that Tri-Party Agreement Interim Milestone M-023-25E be deleted because of the reduced monitoring requirements for the SST System Leak Detection. Provide a draft of the Tri-Party Agreement Change Request to Ecology. The LOW replacement in TX-116 is scheduled for completion by the end of March 2003. Presentation attached.

Action: Submit a draft Tri-Party Agreement Change Package for M-023-25E to Ecology for review and approval.

Actionee: Bill Mauss/Jeff Lyon

M-048-00, DST Integrity Assessment Program

Start: 10:43 a.m.
End: 10:55 a.m.

The status of M-048 Milestone Series was presented. Planning and the paper work are complete for the video inspections of 10 DSTs and the UT inspections for four DSTs not previously examined were initiated. The level restriction in the 241-AY-101 tank is still in effect. An In-Tank Characterization Summary was developed which identifies the tank sampled, the kind of sample taken, and when it was taken. Presentation attached.

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

Start: 10:29 a.m.
End: 10:34 a.m.

On schedule with 56 days of positive float. The POR-06 CM experienced spurious trips since it was restarted with temporary power. The cause of the trips remains unknown. Troubleshooting continues and is targeted for completion by early March 2003. Current assessment is this can be mitigated without serious impact to the current 56 days of positive float. 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

Start: 10:55 a.m.
End: 10:59 a.m.

Workscope is on schedule. Issues affecting M-090 workscope include the ILAW Disposal Strategy Determination, regulatory path, off-site waste, NEPA coverage, and Site performance assessment. Presentation Attached.

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

Start: 10:59 a.m.
End: 11:16 a.m.

Critical Decision (CD)-3C has been postponed until Spring 2003. CD-3a and 3b construction authorization scope has been expanded and extended to April 2003. Bechtel National, Inc. (BNI) continues to develop 2+2 scope, cost and schedule planning; there are permitting impacts associated with the 2+2 path forward. The parties' senior managers are scheduled to meet at the end of March 2003 to discuss a recovery Plan for Tri-Party Agreement Interim Milestone M-062-07B, *Complete Assembly of LAW Melter*, due October 30, 2005. Ecology stated their concern that the addition of the 2nd melter has been done at the expense of the 3rd LAW and now it appears as if ORP is proposing an adjustment to the schedule for the LAW Vit Building to support the HLW. Ecology sees this as an erosion of the low-activity facility and commitment to the low-activity facility. Ecology would like a senior management meeting that is conducted as a discussion and not as a presentation.

Presentation attached.

Action: Ecology (Suzanne Dahl) requested a copy of the Neal Brown paper done in 1999 on technetium

Actionee: Mark Ramsay, RL

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

Start: 11:40 a.m.

End: 11:45 a.m.

A draft Tri-Party Agreement change package recommending deletion of the M-092-05 milestone was discussed. Presentation attached.

ATTENDEES

**Office of River Protection
Tri-Party Agreement Milestone Review
February 25, 2003**

<u>NAME</u>	<u>ORGANIZATION</u>	<u>MAILSTOP</u>	<u>ATTACHMENTS</u>
JEFF HERTZEL	FH-TPA1		
Sandra Fowler	CH2M HILL		
Woody Russell	ORP		
Jackie Hanson	ORP		
Wimar Noyes	ORP		
Nick Ceto	SPA		
Doug Barlett	SPA		
JANE HENGES	Ecology		
CATHY LOUIE	ORP		
Jim Rasmussen	ORP		
Jeff Hyun	Ecology		
Suzanne Dahl	Ecology		
Joe Hedden	DOE-RL		
Felix Miera	CH2M HILL		x
Diane Clark	DOE-ORP		
Bobby Williams	DOE-ORP		
Tom Crawford	CH2M HILL		
Nelinda Brown	Ecology		v
Jim DAVIS	DOE ORP	H6-60	
Doug Huston	Oregon Energy		
Nancy Zambrato	Ecology		
Berda K. Gintgen	Ecology		

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

March 4, 2003

Agenda
 Office of River Protection Tri-Party Agreement
 Quarterly Milestone Review
 March 4, 2003
 EPA Conference Room
 712 Swift Blvd., Suite 5
 9:00 a.m. – 11:30 a.m.

Topic	Leads	Time
• FY 2003 ORP Tri-Party Agreement Cost & Schedule Performance and TPA Milestone Statistics	Mary Beth Burandt/Woody Russell/ Suzanne Dahl/ Jeff Lyon	9:00
• ORP Critical Path Related to Sections 4.1 and 11.8	Mary Beth Burandt/ Woody Russell/ Diane Clark	9:05
• M-43-00, Tank Farm Upgrades	Cathy Louie/ Stephen Lijek	9:10
• M-46-00, Double-Shell Tank Space Evaluation	Cathy Louie / Jeff Lyon	9:20
• DST Space Optimization	Cathy Louie/ Jeff Lyon	9:25
• M-47-00, Tank Waste Treatment, Storage and Disposal Facilities	Cathy Louie /Jim Davis/ Steve Lijek	9:30
• Interim Stabilization (Consent Decree)	Andy Stevens/Nancy Uziemblo	9:35
• M-45-00, Single-Shell Tank Closure	Andy Stevens/ Dick Heggen	9:45
• M-45-50, 60 Single-Shell Tank Corrective Action	Rob Yasek/ Joe Caggiano	9:55
• M-23, Tank Integrity and Monitoring	Billie Mauss/ Jeff Lyon	10:05
• M-48, DST Integrity Assessment Program	Billie Mauss/ Brenda Jentzen	10:15
• M-45-11, Complete 244-AR Vault Interim Status Actions	Gil Ramon/ Jeff Lyon	10:25
• In Tank Characterization and Summary	Wen-Shou Liou / Debra Singleton	10:35
• 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/ Suzanne Dahl	10:45
• M-62, Complete Pretreatment Processing and Vitrification of Tank Wastes	Mark Ramsay/ Suzanne Dahl	10:55
• M-92-05, Inclusion of Hanford Site Cs/Sr Treatment and/or Repackaging Parameters in DOE TWRS Phase II Request for Proposals	Mark Ramsay/ Suzanne Dahl/ Jeff Lyon	11:10
• LDR Assessment Status	Woody Russell/ Jeff Lyon	11:20
• Review of new commitments and actions	Mary Beth Burandt/ Woody Russell/ Diane Clark/Suzanne Dahl/Jeff Lyon	11:25

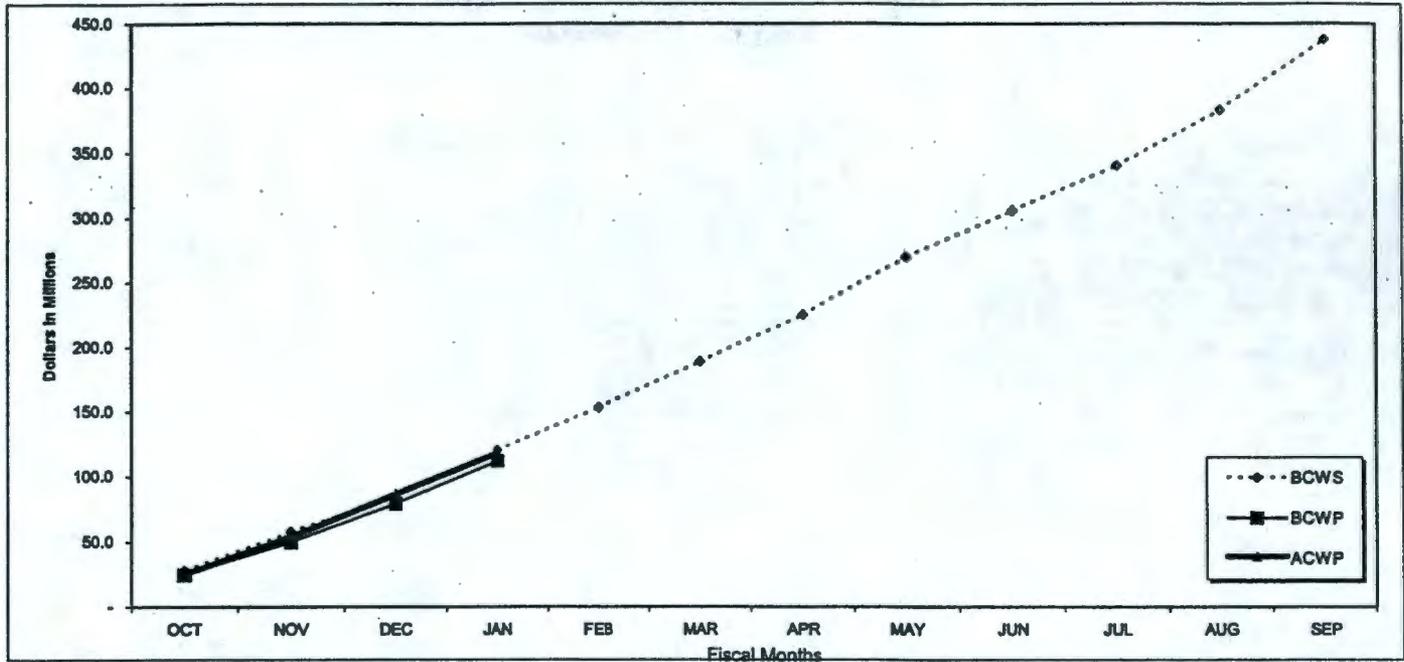
Cost/Schedule Performance

ORP Project Summary

CH2M HILL HANFORD GROUP, INC.

February 2003

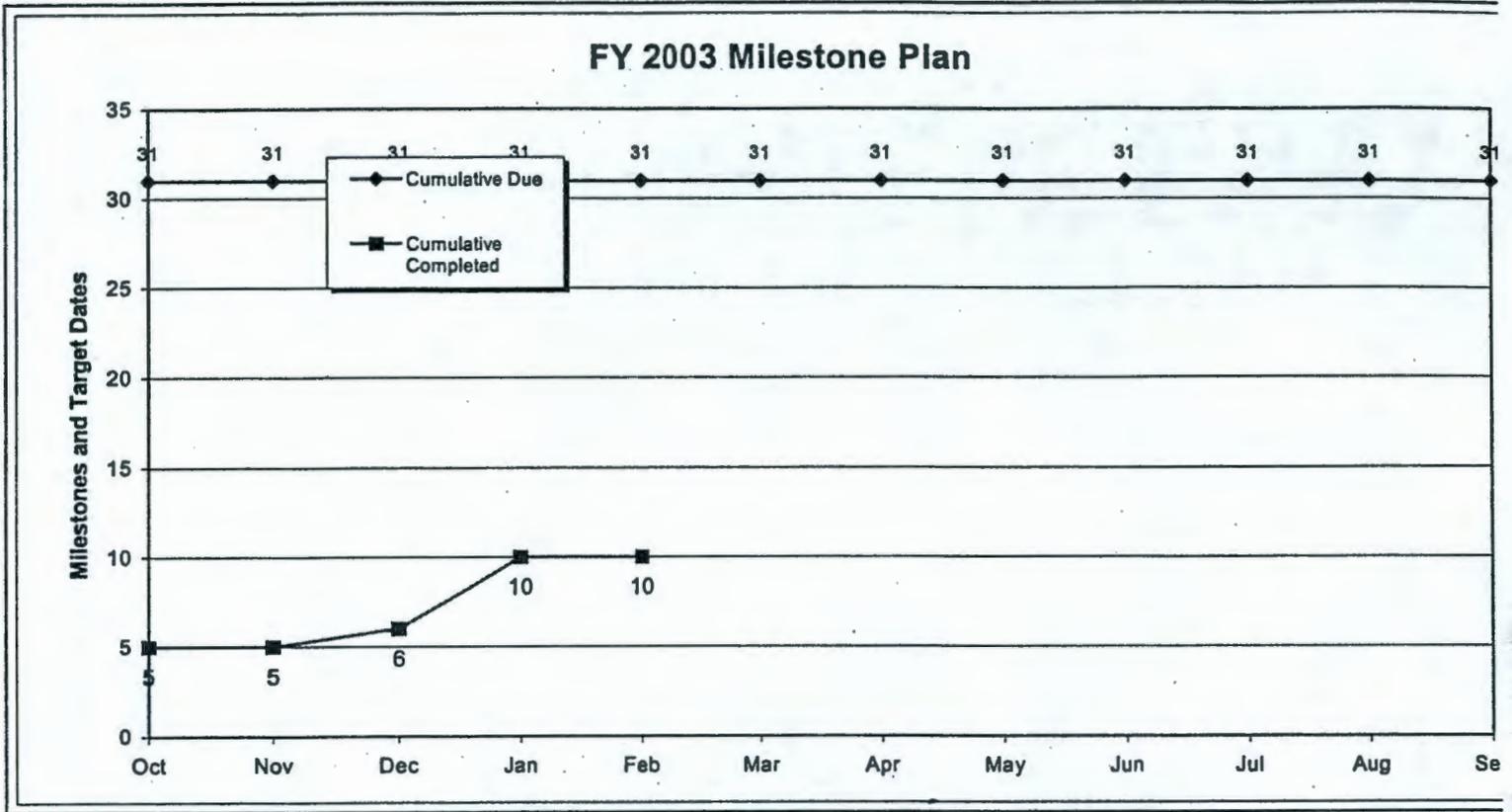
FY 2002 - ALL DIRECT FUNDED ACTIVITIES (CH2M HILL ONLY)



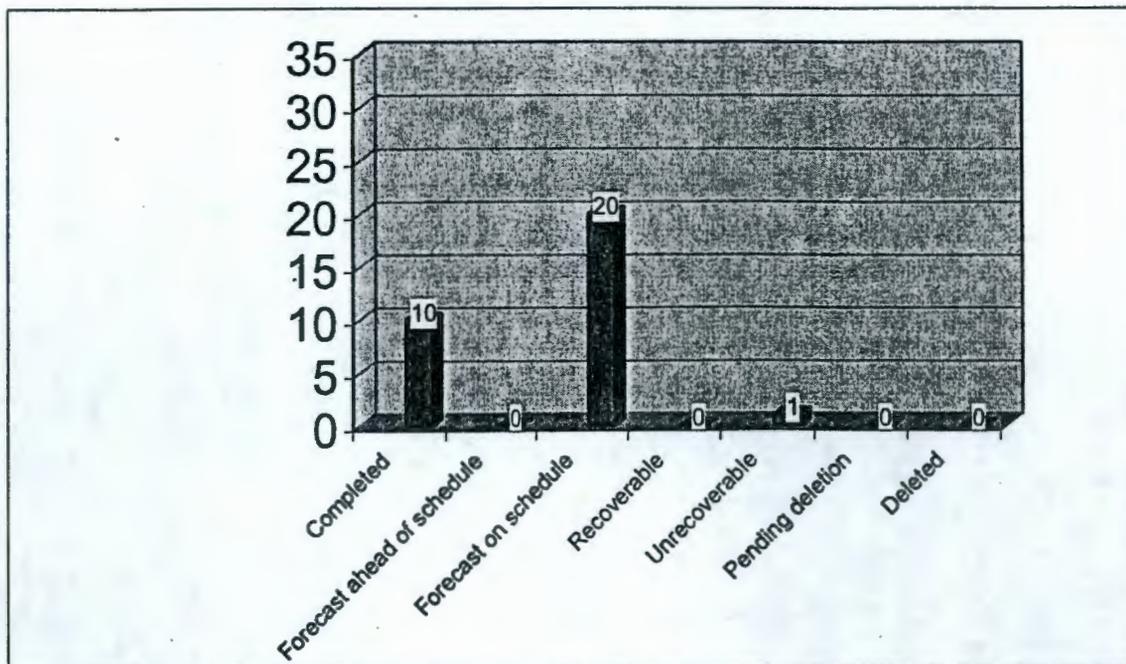
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
FY02 CURRENT APPROVED PERFORMANCE MEASUREMENT BASELINE												
CURRENT PERIOD												
BCWS	28.5	29.3	27.3	35.3	33.2	35.5	36.3	44.9	35.9	34.6	43.0	53.8
BCWP	24.8	25.1	29.4	32.9								
ACWP	25.5	28.4	32.6	31.8								
CUMULATIVE YEAR TO DATE												
BCWS	28.5	57.8	85.1	120.4	153.6	189.1	225.4	270.3	306.2	340.8	383.8	437.6
BCWP	24.8	49.9	79.3	112.2								
ACWP	25.5	53.9	86.5	118.3								
SV %	-12.9%	-13.6%	-6.9%	-6.8%								
CV %	-2.8%	-7.9%	-9.1%	-5.4%								

Milestone	Due Date	Total Active as of 3/4/03	Milestone Number	Due Date	Milestone Number	Due Date
P-45-00 – Pending Approval of CR		<i>Count NOT included in Active MS totals (35)</i>	P-45-05D	3/31/03	P-45-03F	9/30/07
			P-45-05J-T01	4/30/03	P-45-06-T20B	6/30/08
			P-45-05K-T01	9/30/03	P-45-14	6/30/08
			P-45-05L-T01	11/1/03	P-45-15-T01	6/30/08
			P-45-05M-T01	2/27/04	P-45-05F	9/30/08
			P-45-00C	2/28/04	P-45-06E	12/31/08
			P-45-06-T20	6/30/04	P-45-14-T01	6/30/09
			P-45-05N-T01	12/31/04	P-45-05G-T01	10/31/09
			P-45-06B	3/31/05	P-45-06-T20C	6/30/10
			P-45-05-T17	4/30/05	P-45-16	7/31/10
			P-45-21	12/31/05	P-45-16-T01	7/31/11
			P-45-06C	3/31/06	P-45-06-T20D	6/30/12
			P-45-06-T20A	6/30/06	P-45-06-T20E	6/30/14
			P-45-13	6/30/06	P-45-06-T20F	6/30/16
			P-45-05E	6/30/07	P-45-06-T20G	6/30/18
			P-45-06D	6/30/07	P-45-06-T20J	6/30/20
			P-45-13-T01	6/30/07	P-45-96-T20K	6/30/22
	P-45-15	6/30/07				
M-46-00, Double Shell Tank Space Evaluation	11/30/2006 (M-46-01)	10	M-46-01I (Ecology MS)	4/30/03	M-46-01K	11/30/04
			M-46-00J	9/30/03	M-46-00L	9/30/05
			M-46-01J	11/30/03	M-46-01L	11/30/05
			M-47-03	7/30/04	M-46-00M	9/30/06
			M-46-00K	9/30/04	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-47-03A	2/28/07
			M-47-01	3/31/06	M-47-04	6/30/07
			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)	17	M-62-01G	7/31/03	M-62-01M	7/31/06
			M-62-07A	10/30/03	M-62-03	12/31/06
			M62-01H	1/31/04	M-62-09	12/31/07
			M-62-01I	7/31/04	M-62-10	1/31/11
			M-62-01J	1/31/05	M-62-11	1/31/14
			M-62-01K	7/31/05	M-62-00A	2/28/18
			M-62-08	7/31/05	M-62-00	12/31/28
			M-62-07B	11/30/05	M-62-12	TBD
M-62-01L	1/31/06					

Milestone	Due Date	Total Active as of 2/25/03	Milestone Number	Due Date	Milestone Number	Due Date
M-90-00, Interim Storage and Disposal of LAW and Interim Storage of HLW	TBD (M-90-00)	5	M-90-09-T01 M-90-08	5/30/03 2/28/05	M-90-10 M-90-11 M-90-00	8/31/08 6/30/09 TBD
M-92-05, Inclusion of Hanford Site Cs/Sr treatment and/or repackaging parameters in DOE TWRs Phase II request for proposals	6/30/2003 (M-92-05)	1	M-92-05	6/30/03		
M-48-00, DST Integrity Program, Submit Results of 4 DSTs not Previously Examined	9/30/2007	8	M-48-02F M-48-02G M-48-11 M-48-12	3/31/03 9/30/03 9/30/03 9/30/04	M-48-13 M-48-14 M-48-15 M-48-00	9/30/05 3/31/06 9/30/07 9/30/07
Interim Stabilization Consent Decree	9/30/2004 (D001-00)	16	D-001-02-T01 D-001-08-T01 D-001-00-R16 D-001-09-T01 D-001-00-R17 D-001-11-T01 D-001-00-R18 D-001-13-T01 D-001-00V	3/31/01 2/28/03 4/30/03 6/30/03 7/31/03 8/30/03 10/31/03 9/30/03 9/30/03	D-001-06-T01 D-001-14-T01 D-001-00-R19 D-001-00-R20 D-001-00-R21 D-001-00 D-001-00-R22	9/30/03 12/30/03 1/31/04 4/30/04 7/31/04 9/30/04 10/31/04
Total Active Milestones:		145				



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 ACTIVITES	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						
(Ecology) M-046-01I	OBTAIN CONCURRENCE (BY TPA PARTIES) ON ADDITIONAL TANK ACQUISITION	4/30/03			X				
P-045-06A	SUBMIT SST SYSTEM CLOSURE PLAN & C-106 WASTE RETRIEVAL & CLOSURE REPORT	12/19/02	X						
M-045-05D	ESTABLISH COMPLETION DATE FOR SECOND TANK, INITIAL WASTE RETRIEVAL	3/31/03			X				
M-062-06	START OF CONSTRUCTION - PHRASE I TREATMENT COMPLEX	12/31/02	X						
P-045-05D	ESTABLISH COMPLETION DATE FOR 2 ND TANK, INITIAL WASTE RETRIEVAL	1/31/03	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-001-08-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				
D-001-14	INITIATE PUMPING TANK C-103	4/30/03	X						
P-045-05J-T01	COMPLETE C-106 WASTE RETRIEVAL & CLOSURE DEMO PROJECT DESIGN	4/30/03			X				
M-090-09-T01	COMPLETE DETAILED DESIGN OF ILAW DISPOSAL FACILITY CRITICAL SYSTEMS TO 80%	5/30/03			X				

Milestone	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Pending Deletion	Deleted
				Ahead of Schedule	On Schedule				
M-045-03D	COMPLETE S-112 SALTCAKE WASTE RETRIEVAL DEMO DESIGN	5/31/03			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				
M-045-55-T03	SUBMIT SST WMA PHASE I RFI/CMS WORK PLAN ADDENDA FOR WMA T & WMA TX-TY	6/30/03			X				
M-092-05	INCLUDE Cs/Sr TREATMENT /REPACKAGING PARAMETERS IN TWRS PHASE II RFPs	6/30/03			X				
D-001-00-R17	SUBMIT QRTLTY REPORT ON TANK STABILIZATION	7/31/03			X				
M-061-01G	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				
M-023-25E	PROCEDURE NECESSARY EQUIP. TO SUPPORT ADDITIONAL LOW MONITORING SYSTEMS	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				
P-045-05K-T01	COMPLETE C-106 WASTE RETRIEVAL/CLOSURE DEMO PROJECT CONSTRUCTION	9/30/03			X				
TOTAL			10	0	20	0	1	0	0

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

- **M-43-16**, Start Construction in 5th farm
Due: 6/30/03
Status: On schedule. CD-3 approved. Videos taken and set up for construction mobilization begun.
- **M-43-00**, Complete Tank Farm Upgrades
Due: 6/30/05
Status: On schedule, pending definition of completion.

II. Significant Accomplishments:

- Received NOC Rev.11 approval from WDOH necessary for remaining Phase 2 construction except HVAC installation and operations. (W-314)
- Initiated Phase 2 AW plant forces construction. (W-314)
- ORP received Ecology concurrence of project assumptions (1/14/03). (E-525)
- Reviewed preliminary E-525 cost estimates.

III. Significant Planned Actions in the Next Six Months:

- W-314 Complete Phase 1
- W-314 Complete Phase 1 AZ upgrades startup and testing
- W-314 Complete Phase 1 AY upgrades startup and testing
- Complete E-525 Initial Design/Initiate final design
- Complete Fabrication of AN Phase 2 HVAC Skid (W-314)

Near-term Actions Needed by DOE or Ecology:

- Complete discussions and negotiations on closure of M-43-00. A letter was received from Ecology on Jan. 20, 2003. Per the letter DOE will be proposing a discussion with Ecology on integrity assessment, variance request, and criteria/specifications used for construction of the M-43 upgrades.

IV. Issues:

- CHG is reviewing the need for AP tank farm ventilation system upgrades based on potential sources terms and projected use. CHG will advise ORP and Ecology if change in scope is requested.

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, Concurrence of Additional Tank Acquisition**
Due: Extended to 4/20/03
Status: On schedule.
- **M-46-00J, Double-Shell Tank Space Evaluation**
Due: 9/30/03
Status: On schedule
- **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

II. Significant Accomplishments:

- A safe and technically sound path was developed to allow the 242-A Evaporator to concentrate waste to a specific gravity (SpG) higher than 1.41. The Evaporator Campaign 03-02 will increase the waste volume reduction (WVR) from 18% to 30%, resulting in 120,000 gallons of additional DST space available.

III. Significant Planned Actions in the Next Six Months:

- Evaporator campaigns planned for late February, June, and July 2003 will concentrate dilute waste to a SpG higher than 1.41. The WVR planned for each campaign will be based on gas retention limits for each tank.
- A letter will be issued in March 2003 requesting support from ORP in removing restrictions from a specific set of WTP feed tanks. Most of the tanks would be concentrated to create space for additional waste.
- Results of recent dynamic modeling using the Hanford Tank Waste Operations Simulator (HTWOS) have supported planning for accelerated retrieval and closure of SSTs.

IV. Issues:

- An administrative limit of 80" total waste volume is currently imposed on Tank AY-101. If selection of AY-101 as receiver tank for C-104 is changed, design and construction activities will be impacted. CHG non-destructive examination is on going. C-104 Retrieval Project is interfacing with responsible personnel to determine tank utilization. Additionally, an alternative receiver tank study has been completed (RPP-8207).

DST Space Optimization

- Increase the DST fill height from 416 to 436 inches in 24 tanks (potentially 1.4 M gallons of additional space).
Status: Completed an evaluation of existing and planned equipment in the DST that could impact the target increased level (436"). The next task is to assess the potential for modification of existing equipment and of W-211 equipment design.
- Reserve emergency space to reflect compliance with DOE Order 435.1 for the DST system. Currently 2.2 M gallons of space is kept in reserve for the DST system and WTP returns, while the Order requires 1.1 M gallons (equivalent to one DST). Reducing the reserve space to respond to a single emergency less than 1.1 M gallons continues to meet DOE's order requirement, while making 1.1 M gallons of space available to support acceleration (provides 1.1 M gallons of DST space).
Status: A revision of the DST Emergency Pumping Guide is required. Planned dates for a draft revision is April 16, 2003 and for the final report is May 30, 2003.
- Implement tank-by-tank evaluations to allow greater concentration of wastes beyond current 1.41 SpG limit. Tank-by-tank assessments may allow additional concentration (up to 1.6 SpG) 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 Evaporator Campaign 03-02 will increase the waste volume reduction (WVR) from 18% to 30% resulting in 120,000 gallons of additional DST space made available. Evaporator campaigns planned for late February, June, and July 2003 will concentrate dilute waste to a SpG higher than 1.41. The WVR planned for each campaign will be based on gas retention limits for each tank.

- Use space currently identified as "restricted" space in tanks that contain staged feed for WTP. This activity may require re-characterization of the WTP feed prior to sending it to WTP (provides up to 1.3M gallons of DST space).

Status: A letter will be issued in March 2003 requesting support from ORP in removing restrictions from a specific set of WTP feed tanks. Most of the tanks would be concentrated to create space for additional waste.

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. Existing pump removed; new pump ordered.
- **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. ORP to Ecology letter 02-TPD-033, "Completion of FHHACO Milestone M-47-03 Start of Construction of Waste Retrieval and Mobilization System for Selected HLW Feed Tank," dated 12/16/02.
- **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: On schedule. Installation and welding of the pipe spools is ongoing. Excavation has reached the WTP interface point.
- **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: On schedule. Startup and turnover follows installation of the AP-101 transfer pump (refer to M-47-05 status above).

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: On schedule. 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 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: 2/28/07
Status: On schedule. Startup and turnover follow construction and installation of AZ-101 transfer pump and infrastructure upgrades (refer to M-47-03 status above).

- **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
Due: 6/30/07
Status: On schedule. Startup and turnover follow AP-101 transfer pump installation (refer to M-47-05 status above).
- **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:

- Completed AP-WTP pipeline excavation to WTP interface.

III. Significant Planned Actions in the Next Six Months:

- Initiate AN Retrieval System infrastructure construction
- Award contract for fabrication of AN-101 and AZ-102 mixer pumps.
- AZ-101 transfer pump installation.

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

- None to report at this time

III. Issues:

- None at this time

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: On schedule
- Complete Interim Stabilization of all 29 SSTs (D-001-00)
Due: 9/30/04
Status: On schedule

Status:

- Thirteen (13) tanks are in pumping status - with nine (9) that were pumping in January.
- Tanks BY-105 and SX-103 are being evaluated by the Contractor for stabilization criteria.
- Over 2.8 million gallons have been removed as of 2/4/03.
- Over 46,000 gallons were pumped in January 2003.
- Pumping commenced in tank C-103, five months early. It is anticipated that it will meet interim stabilization criteria by March 2003.
- New auto-fill dilution tank systems were installed that will free up resources and reduce the risk of spillage. (Corrective Action)
- The pressure transducers were replaced in the A-101 and AX-101 saltwell pits and the pumps were restarted.

Issues/Recovery:

- Target Date D-001-08-T01, "Complete pumping SX-105, SX-103, SX-101, and U-106," will not be met. SX-101 has not completed pumping; SX-105 and U-106 have met the interim stabilization criteria and SX-103 is in the evaluation mode. The pump in SX-101 must be replaced and pumping is projected to restart in March and continue into July 2003. A new HIHTL to be installed by March 2003 from the S-A valve pit to tank SY-102 will allow simultaneous pumping of unstabilized tanks in S and SX farms.

Planned Actions:

- Complete the stabilization evaluation for tanks SX-103 and BY-105.
- An HIHTL is being installed directly from the S-A valve pit to SY-102 to bypass a partially plugged line that is restricting optimum flow rates from S and SX farms and avoid shutdowns from other priority work planned in SY valve pits. This new line is expected to be operational in March 2003.
- Complete pumping of Tanks AX-101, BY-106, S-107, and U-111 during the next quarter.

Issues:

- Partial line blockage from the U-Farm remains a concern. Periodic line flushing with warm water provide some marginal improvements and a caustic line soak will be performed causing a three week outage of the U-Farm.

Milestone M-45-00, Complete Closure of All Single-Shell Tank Farms**I. Near-Term Deliverables:**

- **M-45-00B, "Complete Near-Term SST Waste Retrieval Activities"**
Due: 9/30/06
Status: On schedule with respective supporting milestones as noted below.
- **M-45-02, "Submit Annual Updates to SST Retrieval Sequence Document"**
Due: 9/30/02 (and annually thereafter)
Status: Complete. The SST Retrieval Sequence and DST Space Evaluation combined into a single report, RPP-3554, Rev. 1, was issued by CHG to ORP on 9/23/02, and submitted to Ecology 9/30/02.
- **M-45-03D, "Complete S-112 Saltcake Waste Retrieval Technology Demonstration Design" (all physical systems including LDMM provisions)**
Due: 5/31/03
Status: On schedule. Design will be considered complete when 90% of the design has been approved for fabrication and/or construction. The 90% Design Review was recently completed and the design review report is forthcoming.
- **M-45-00C, "Complete Renegotiation of Second Phase SST Waste Retrieval Activities" (September 30, 2006 through September 30, 2015)**
Due: 2/28/04 (Negotiations will consider need for additional compliant tank space. WTP construction was not initiated by 12/31/2001, as defined by M-62-06. As a result, the due date for the M-45-00C milestone was automatically adjusted to 4/30/2002).
Status: Tentative Agreement was reached on 8/15/02.
- **M-45-03G, "Complete C-104 Sludge/Hard Heel, Confined Sluicing and Robotic Technologies, Waste Retrieval Cold Demonstration"**
Due: 6/30/04
Status: On schedule. Miscellaneous upgrades to the Cold Test Facility have been made and MRS informal functional testing has commenced.
- **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-45-03H, "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. Advanced preliminary design is underway, and approval to initiate final design has been received.

- **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-45-05E**, "Complete Second Tank Initial Retrieval Project Design (all physical systems including LDMM provisions)"
Due: 6/30/06
Status: On schedule
- **M-45-05A**, "Complete Initial Waste Retrieval from SST S-102"
Due: 9/30/06
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-45-05-T16**, "Submit to Ecology S-102 Initial Waste Retrieval Functions and Requirements (F&R) Document"
Due: 10/30/02
Status: Complete.
- **M-45-05B**, "Complete S-102 Initial Retrieval Project Design (all physical systems including LDMM provisions)"
Due: 3/31/04
Status: On schedule. The Preliminary Engineering Report, Project Definition Criteria, and Conceptual Design Report have been completed. Preliminary and Final Design will be performed in FY 2003.
- **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-45-05D**, "Establish Completion Date for the Second Tank, Initial Waste Retrieval"
Due: 12/31/02
Status: Complete. Selection will be based on information in report RPP-8554, "Single-Shell Tank Retrieval Sequence and Double-Shell Tank Space Evaluation," prepared under M-45-02. This activity is also related to completing renegotiation of second phase SST waste retrieval activities under M-45-00C.

- **M-45-05F**, "Complete Second Tank Initial Waste Retrieval Project Construction (all physical systems including LDMM provisions)"
Due: TBE (identification of specific tank and M-45-05F milestone due date to be established no later than 12/31/02).
Status: On schedule.

The milestone due date will be based on information in report RPP-8554, "Single-Shell Tank Retrieval Sequence and Double-Shell Tank Space Evaluation," prepared under M-45-02 and will be supported by HTWOS model simulations. This activity is related to establishing a completion date for the second tank initial waste retrieval under M-45-05D.

- **M-45-05-T17**, "Submit Second Tank Initial Waste Retrieval Functions and Requirements (F&R) Document"
Due: 4/30/04
Status: On schedule.
Selection will be based on information in report RPP-8554, "Single-Shell Tank Retrieval Sequence and Double-Shell Tank Space Evaluation," prepared under M-45-02. This activity is also related to completing renegotiation of second phase SST waste retrieval activities under M-45-00C.
- **M-45-06-T05**, "Submit Tank Farm Closure/Post-Closure Work Plan Update"
Due: 6/30/02
Status: Complete. Ecology comments expected by August 27, 2002, will be resolved and incorporated into the next overall closure document and individual tank plans.
- **M-45-06-T06**, "Submit Tank Farm Closure/Post Closure Work Plan Update"
Due: 6/30/04
Status: On schedule
- **M-45-06-T07**, "Submit Tank Farm Closure/Post Closure Work Plan Update"
Due: 6/30/06 (and every two years thereafter)
Status: On schedule

PROPOSED NEW M-45 MILESTONES UNDER TPA CHANGE REQUEST #M-45-02-03
(Pending Approval of Change Request)

HIGH RISK WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECTS

- **M-45-13**, "Interim Completion of Tank S-112 Waste Retrieval and Closure Demonstration Project"
Due: 6/30/06
Status: Pending approval of TPA Change Request #M-45-02-03.
- **M-45-13-T01**, "Final Completion of Tank S-112 SST Retrieval and Closure Demonstration Project"
Due: 6/30/07
Status: Pending approval of TPA Change Request #M-45-02-03.

- **M-45-14, "Interim Completion of Tank C-104 SST Waste Retrieval and Closure Demonstration Project"**
Due: 6/30/08
Status: Pending approval of TPA Change Request #M-45-02-03.
- **M-45-14-T01, "Final Completion of Tank C-104 SST Retrieval and Closure Demonstration Project"**
Due: 6/30/09
Status: Pending approval of TPA Change Request #M-45-02-03.
- **M-45-15, "Interim Completion of Tank S-102 SST Waste Retrieval and Closure Demonstration Project"**
Due: 6/30/07
Status: Pending approval of TPA Change Request #M-45-02-03.
- **M-45-15-T01, "Final Completion of Tank S-102 SST Retrieval and Closure Demonstration Project"**
Due: 6/30/08
Status: Pending approval of TPA Change Request #M-45-02-03.
- **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
Status: Pending approval of TPA Change Request #M-45-02-03.
- **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
Status: Pending approval of TPA Change Request #M-45-02-03.
- **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: Pending approval of TPA Change Request #M-45-02-03.
- **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
Status: Pending approval of TPA Change Request #M-45-02-03.
- **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
Status: Pending approval of TPA Change Request #M-45-02-03.

- **M-45-05G-T01, "Complete S-105, S-106, and S-103 Waste Retrieval"**
Due: 10/31/09
Status: Pending approval of TPA Change Request #M-45-02-03.

LOW VOLUME WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT

- **M-45-05H, "Interim Completion of Tank C-106 SST Waste Retrieval and Closure Demonstration Project"**
Due: 4/30/04
Status: Pending approval of TPA Change Request #M-45-02-03.
- **M-45-05N-T01, "Final Completion of Tank C-106 SST Retrieval and Closure Demonstration Project"**
Due: 12/31/04
Status: Pending approval of TPA Change Request #M-45-02-03.
- **M-45-05I-T01, "Conduct C-106 Waste Retrieval and Closure Demonstration Project 30% Design Consultation"**
Due: 1/31/03
Status: **Completed 1/30/03.**
- **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: On schedule
- **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: Pending approval of TPA Change Request #M-45-02-03.
- **M-45-05L-T01, "Complete Full Scale C-106 Waste Retrieval"**
Due: 11/1/03
Status: Pending approval of TPA Change Request #M-45-02-03.
- **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: **Closure Data Quality Objective is being written. Tank waste sampling events have been scheduled.**
- **M-45-06-T20, "Submit SST System Implementation Plan in Support of Retrieval and Closure Activities"**
Due: 6/30/04 (and every two years thereafter)
Status: Pending approval of TPA Change Request #M-45-02-03.

- **M-45-06A**, "Submit a Certified (Framework) SST System Closure Plan and C-106 Waste Retrieval and Closure Demonstration Plan as an Application for a Modification to the Hanford Site-Wide Hazardous Waste Facility Permit to Ecology (including all required closure plan elements, characterization approach for residual wastes, and risk assessment methodology)"
Due: 12/19/02
Status: Pending approval of TPA Change Request #M-45-02-03
- **M-45-06B**, "Submit a Certified (Framework) SST System Closure Plan and S-112 Waste Retrieval and Closure Demonstration Plan as an Application for a Modification to the Hanford Site-Wide Hazardous Waste Facility Permit to Ecology (including all required closure plan elements, characterization approach for residual wastes, and risk assessment methodology)"
Due: 3/31/05
Status: Pending approval of TPA Change Request #M-45-02-03.
- **M-45-06C**, "Submit a Certified (Framework) SST System Closure Plan and S-102 Waste Retrieval and Closure Demonstration Plan as an Application for a Modification to the Hanford Site-Wide Hazardous Waste Facility Permit to Ecology (including all required closure plan elements, characterization approach for residual wastes, and risk assessment methodology)"
Due: 3/31/06
Status: Pending approval of TPA Change Request #M-45-02-03.
- **M-45-06D**, "Submit a Certified (Framework) SST System Closure Plan and C-104 Waste Retrieval and Closure Demonstration Plan as an Application for a Modification to the Hanford Site-Wide Hazardous Waste Facility Permit to Ecology (including all required closure plan elements, characterization approach for residual wastes, and risk assessment methodology)"
Due: 6/30/07
Status: Pending approval of TPA Change Request #M-45-02-03.
- **M-45-06E**, "Submit a Certified (Framework) SST System Closure Plan Modification for Tanks S-105, S-106, and S-103 Closure Demonstration Plan as an Application for a Modification to the Hanford Site-Wide Hazardous Waste Facility Permit to Ecology (including all required closure plan elements, characterization approach for residual wastes, and risk assessment methodology) for each tank"
Due: 12/31/08
Status: Pending approval of TPA Change Request #M-45-02-03.

Out-Year (Post 2006) Milestones:

- **M-45-00**, "Complete Closure of all SST Farms" by 9/30/2024
- **M-45-03F**, "Complete Full-Scale Sludge/Hard Heel, Confined Sluicing and Robotic Technologies, Waste Retrieval Demonstration a SST C-104" by TBE (to be established during M-45-00C negotiations).
- **M-45-05**, "Retrieve Waste from All Remaining SSTs" by 9/30/2018

- M-45-05-T05, "Initiate Tank Retrieval from 5 Additional SSTs" by 9/30/2007
- M-45-05-T06, "Initiate Tank Retrieval from 5 Additional SSTs" by 9/30/2008
- M-45-05-T07, "Initiate Tank Retrieval from 7 Additional SSTs" by 9/30/2009
- M-45-05-T08, "Initiate Tank Retrieval from 8 Additional SSTs" by 9/30/2010
- M-45-00D, "Complete Renegotiation of the Remainder of the SST Waste Retrieval and Closure Program" by 6/30/2011
- M-45-05-T09, "Initiate Tank Retrieval from 10 Additional SSTs" by 9/30/2011
- M-45-05-T10, "Initiate Tank Retrieval from 12 Additional SSTs" by 9/30/2012
- M-45-05-T11, "Initiate Tank Retrieval from 14 Additional SSTs" by 9/30/2013

- M-45-05-T12, "Initiate Tank Retrieval from 17 Additional SSTs" by 9/30/2014
- M-45-05-T13, "Initiate Tank Retrieval from 20 Additional SSTs" by 9/30/2015
- M-45-05-T14, "Initiate Tank Retrieval from 20 Additional SSTs" by 9/30/2016
- M-45-05-T15, "Initiate Tank Retrieval from 20 Additional SSTs" by 9/30/2017
- M-45-06, "Complete Closure of all SST Farms in Accordance with Approved Closure/Post Closure Plans" by 9/30/2024
- M-45-06-T03, "Initiate Closure Actions on an Operable Unit or Tank Farm Basis" by 3/31/2012
- M-45-06-T04, "Complete Closure Actions on one Operable Unit or Tank Farm" by 3/31/2014

II. Significant Accomplishments:

- Completed LDMM performance testing.
- Completed vendor commissioning of the Mobile Retrieval System (MRS) at the Cold Test Facility (CTF).
- Issued MRS Integrated Cold Test Plan and Procedure, RPP-12382.
- Issued RPP-12493, Tank 241-C-104 Waste Retrieval Evaluation of Long-Length Contaminated Equipment Removal System and Methods.
- Issued RPP-13194, Tank 241-C-104 Waste Retrieval Evaluation of Alternatives for Preparing Tank C-104 Puts and Risers.
- Completed the C-106 Waste Retrieval and Closure Demonstration Project 30% Design Consultation and delivered the data package to satisfy Hanford Federal Facility Agreement and Consent Order (HFFACO) Milestone M-45-051-T01.
- Developed, approved and released multiple C-106 design documents for the equipment of retrieval and ancillary components.
- Initiated activities to support near-term sampling and characterization of C-106 hard heel.
- Initiated C-106 procurement orders for all major equipment.
- Issued the S-112 90% Design Review Report (RPP-14604).
- The procurement specification (RPP-12160) for procuring a new 500 KVA transformer for the power upgrades to S-Complex was completed and issued on 12/19/02.
- The Washington State Department of Ecology completed review of the S-102 Functions

and Requirements Document and granted a conditional approval to start design.

- Received approval from ORP to manage S-102 as a Non-DOE Order 413.3 Project.
- Completed addition of approximately 12,100 gallons of U-107 dissolution water.
- The closure plan for C-106 was provided to Ecology and comments are expected from Ecology.
- The draft DQO for C-106 was discussed with Ecology in November '02, and future discussions are planned.

III. Significant Planned Actions in the Next Six Months:

- Continue work on the FY 2002 update of RPP-8554, "Single-Shell Tank Retrieval Sequence and Double-Shell Tank Space Evaluation."
- Continue evaluation of selected options for increasing DST space.
- Complete integration of S-112 design for application to S-102.
- Complete design of S-112 Waste Retrieval System.
- Complete fabrication of S-112 Waste Retrieval System.
- Initiate S-112 construction of the Waste Retrieval System.
- Complete Advanced Preliminary Design for C-104 Waste Retrieval System
- Remove C-106 Heel-jet, slurry and Transfer pumps.
- Install C-106 Hose-in-Hose transfer line and in-tank cameras.
- Remove C-106 liquids.
- Complete S-112 Over Ground Transfer Line and Waste Residual Risk Reduction Designs
- Initiate Installation of S-112 Water Distribution System (Phase I)
- Initiate C-104 Final Design.
- Initiate C-104 Construction.
- Complete C-104 MRS Cold Testing.

IV. Issues:

- A proposal to remove S-102 and S-112 from the Consent Decree and accelerate retrieval for these two tanks in the TPA is being discussed with Ecology. Resolution is needed in March.

V. Critical Path Schedule:

- Attempts to loosen and remove the C-106 heel-jet from Riser 13 have been unsuccessful to date. Additional methods are being developed to loosen the heel-jet as well as reviewing riser availability for alternate deployments.
- Reviewing feasibility of acid-dissolution and deployment of the Mobile Retrieval System (Vacuum and Vehicle).

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: Report has been delivered to Ecology for review.
- **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 continues in the T SST Farm. As of 2/7/03, 19 soil samples have been collected from a borehole near T-106.

IV. Significant Planned Actions in the Next Six Months:

- C and A/AX Subsurface Conditions Description Report – March 2003
- Participate in C3T exercise for ground water monitoring.
- Drilling second borehole and shallow investigations with cone penetrometer in T-and-TY WMAs in FY 2003.
- Start work on T/TX-TY Field Investigation Report.

IV. Issues:

- Need to meet with Ecology to revise M-45-50/60 series to reflect projected work in SST Farm vadose characterization.

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. Ecology agreed to DOE's 90-day extension for comment resolution. RCR was signed by Ecology and the document changed to incorporate comments. Document was delivered to Ecology 12/24/02.
- **M-23-24, Submit SST System Integrity Assessment Report**
Due: 6/30/02
Status: Complete. Ecology agreed to DOE's extension request for comment resolution. Comments were resolved and the RCR was signed. Based on the resolution, the report was not modified and a letter was sent to Ecology with the signed RCR to close out this item.
- **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: On Schedule
 - BX-109 installation was complete on 1/10/03, with the first neutron scan on 1/14/03.
 - T-109 installation was complete on 1/16/03, with the first neutron scan on 1/24/03.
 - B-107 installation was complete on 1/24/03, with the first neutron scan on 1/24/03.
 - B-108 installation was complete on 2/4/03; with the first neutron scan on 2/5/03.
- **M-23-25D, Complete the Installation of Liquid Observation Wells (LOWs) and Begin Liquid Observation**
Due: 9/30/03
Status: On schedule
- **M-23-25E, Procure Necessary Equipment to Support Additional LOW Monitoring Systems**
Due: 9/30/03
Status: Negotiating to delete this milestone due to reduced monitoring requirements from M-23-23. Extra equipment is no longer needed.
- **M-23-25F, Complete the Installation of Liquid Observation Wells (LOWs) and Begin Weekly Liquid Observation**
Due: 3/31/04
Status: On schedule
- **M-23-25, Complete the Installation of Liquid Observation Wells (LOWs)**
Due: 9/30/04
Status: On schedule

- **M-23-25G**, Complete the Installation of Liquid Observation Wells (LOWs) and Begin Weekly Liquid Monitoring
Due: 9/30/04
Status: On schedule

II. Significant Accomplishments:

- DOE submitted M-23-23 and M-23-24 reports.
- Completed installation of four LOWs for M-23-25C.

III. Significant Planned Actions in the Next Six Months:

- Complete installation of LOWs for M-23-25D.

IV. Issues:

- LOW replacement in TX-116 is scheduled for the week of 3/17/03.

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: On-going
TSAFT certified operational in FY2002. TSAFT successfully deployed on the knuckle region of AW-102.
- **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-going
- **M-48-12**, Submit Results of Four DSTs not Previously Examined
Due: 9/30/04
Status: On-going
- **M-48-13**, Submit Results of Four DSTs not Previously Examined
Due: 9/30/05
Status: On-going
- **M-48-14**, Submit Written Integrity Report for the DST System
Due: 3/31/06
Status: On-going
- **M-48-15**, Submit a Report to Ecology for the Re-examination of Six DSTs by Ultrasonic Testing
Due: 9/30/07
Status: On-going
- **M-48-00**, Complete Tank Integrity Assessment Activities for Hanford Double Shell Tanks System
Due: 9/30/07
Status: On-going

II. Significant Accomplishments:

- TSAFT successfully deployed in AW-102 for UT of high stress, lower knuckle region.

III. Significant Planned Actions in the Next Six Months:

- Initiate FY03 UT inspections of four DSTs not previously examined (AZ-102, AP-101, AP-103, AP-105). Collection of AP-101 UT DATA complete. Data interpretation 75% complete. Currently performing UT scans in AP-103 - approximately 50% completed.
- Initiate FY03 video inspections of 10 DSTs: SY-101 through SY-103, AP-101 through AP-106, AN-105.
- AY-101 fitness-for-service evaluation on going. PNNL has reviewed document. Document will be released in the near future.

IV. Issues:

- AY-101:
The level restriction of 80 inches is still in effect.

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: On schedule. Currently at 56 days positive float.

II. Significant Accomplishments:

- Completed all Operator Training (2/25/03)
- The Service Building roof leaks in January. Permanent power was been shutoff to the facility and portable generators have been provided to supply power to the facility. All equipment required for transfer are now powered by the portable generators and all field work are unhindered by the leaking roof.
- In late January, Asbestos was found within the 244AR Service Building. The area was cleaned with HEPA filter vacuums and fixative spray was applied for encapsulation. The Service building has been cleared for personnel access without PPE.

III. Significant Planned Actions in the Next Six Months:

- Complete CHG Plant Readiness Management Self-Assessment by 3/12/2003
- Perform 244-AR Readiness Assessment (3/6/03 - 4/24/03)
- Consolidate Waste in Tank 001 (4/25/03 – 6/10/03)
- Transfer waste to AY-102 (6/25/03 - 7/1/03)
- Complete isolation intrusion (7/2/03 – 7/9/03)

Near-term actions needed by DOE or Ecology

- None

V. Issues:

- None

VI. Critical Path

- Portable exhauster POR-06 CAM has experienced spurious trips since it was restarted with temporary power. The cause of the trips is still unknown. The vendor (Eberline) is on site to review and assist in the troubleshooting. Troubleshooting continues and is targeted for completion by 3/6/03. **Note:** Current assessment is this can be mitigated without serious impact to the current 56 days of positive float.

In Tank Characterization and Summary

I. Significant Accomplishments:

As of February 19, 2003:

- Sampling Activities:

<u>Program</u>	<u>Tanks Completed</u>	
	1st Quarter	2nd Quarter
Cross-Site Transfer	SY-102 (G)	
Chemistry Control	AN-107 (C)	AW-101 (C)
	AN-101 (G)	AN-107 (G)
	AP-103 (G)	
	AP-106 (G)	
	AY-102 (G)	
	AW-102 (G)	
SST Retrieval/Closure	U-107 (G)	C-106 (G)
Evaporator Operations	SY-101 (G)	AP-108 (G)
	AW-106 (G)	AW-104 (G)

- Completed a total of 3 TCRs for this FY.
- 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.

II. Significant Planned Actions within the Next Six Months:

- Complete Tank 241 C-106 Closure Demonstration DQO, March 7, 2003.
- Complete FY 2003 2nd Quarter Status Report by April 30, 2003.
- Complete FY 2004 Characterization Priority Sampling Priority Document by May 31, 2003.
- Complete FY 03 3rd Quarter Status Report by July 31, 2003.

III. Issues:

- None

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

I. Near-Term Deliverables:

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

II. Significant Accomplishments:

- Completed IHLW Module 1 Siting Study – December 2002.
- IDF 30% design of critical systems was reviewed – January 2003.
- Draft 80% design of IHLW critical systems (tube system) was issued for final review and comment – January 2003.
- Issued revised IDF Quality Assurance Plan – January 2003.
- A facilitated session to explore disposal options for ILAW, failed melters, LLW, and MLLW was held – February 2003.
- DOE approval to start Project W-464 detailed design – February 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: On schedule
- **M-20-57**, Submit ILAW Disposal Facility Certified Part B Permit Application to Ecology
Due: 6/30/03
Status: On schedule
- **M-90-09-T01**, Complete Detailed Design of ILAW Disposal Facility Critical Systems to 80%
Due: 5/30/03
Status: On schedule
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- Issued revised IDF Quality Assurance Plan – January 2003.
- A facilitated session to explore disposal options for ILAW, failed melters, LLW, and MLLW was held – February 2003.
- DOE approval to start Project W-464 detailed design – February 2003

III. Significant Planned Actions in the Next Six Months:

- DOE approval of PDSA and PSSD for Project W-464 –April 2003
- Complete IDF trench thermal study to determine IDF impacts relative to the WTP proposal to delete ILAW lag storage – March 2003
- DOE approval of Waste Acceptance Product Specification (WAPS) Compliance Process – March 2003
- DOE approval of Waste Form Compliance Plan for Immobilized HLW at the CSB – March 2003.
- Complete detailed design of Integrated Disposal Facility critical systems to 80% - May 2003
- Complete detailed design of Canister Storage Building critical systems to 80% - May 2003

IV. Issues

ILAW Disposal Strategy Determination – Regulatory Path, off-site waste, NEPA coverage, site performance assessment.

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 next report is due July 31, 2003.

- **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:

Pretreatment

- Completed concrete placements in below-grade wall in the north tunnel area and two placements in the fire water pit.
- Approved Minimum Essential Initiative trend for removal of Technetium Ion Exchange System. Estimated savings is about \$29M in capital and \$92M in life cycle.
- Started fabrication of (four pack) Feed Receipt Vessels

LAW Vitrification Facility

- Completed the cold joint repairs effectively completing the basemat
- Completed concrete placements for wall sections
- Completed 90% design review of Duratek melter

HLW Vitrification Facility

- Completed concrete installation (1,520 cubic yards) of the basemat
- Issued Process Flow Diagrams for permitting for Concentrate Receipt Process System, Melter Feed Process System, Canister Decontamination Handling System, and the Radioactive Liquid Waste Disposal System.
- Began installation of C5 duct in transfer tunnels

Balance of Facilities

- Completed preparations for concrete placements in Switchgear Building
- Commenced activities with Pumphouse and Field Erected Tank subcontractors

Analytical Laboratory Facility

- Design fully underway and procurements and material requisitions are in process
- Provided Lab familiarization briefing to Ecology
- Construction scheduled to start in June 2003

Other

- Submitted Semi-annual Compliance Report meeting M-62-01 deliverable for January
- CD-3c has been postponed until spring of 2003. CD-3a and 3b construction authorization scope has been expanded and extended to April 2003.
- BNI continues to develop 2+2 scope, cost, and schedule planning.
- BNI undergoing extensive schedule review to realign the Level 3 schedule in support of CD-3c authorization.

III. Significant Planned Actions in the Next Six Months

- Start structural steel in LAW construction
- Start structural steel in HLW construction
- Finalize and begin implementation of 2+2 planning
- Start Analytical Lab construction
- Obtain CD-3c approval

IV. Issues

- Permitting impacts associated with 2+2 path forward.
- M-62 and M-92-05 proposed changes coming.

M-92-05, Inclusion of Hanford Site Cs/Sr treatment and/or repackaging parameters in DOE TWRS Phase II request for proposals

I. Near-Term Deliverables:

- M-92-05, Inclusion of Hanford Site Cs/Sr treatment and/or repackaging parameters in DOE TWRS Phase II request for proposals

Due: 6/30/03

Status: According to M-62-11 and M-62-12 milestones, DOE will not be seeking Phase II requests for proposals until the 2014 time frame. However, in the current BNI Contract C.7, Facility Specification, the following requirement is stipulated: "The Contractor shall design the WTP to ensure that the plant is designed and built with features to provide increased operational capacities, as follows:

(4) Pretreatment can connect to a potential new facility designed to receive and treat the Hanford Cs and Sr capsules prior to incorporation into the HLW feed for immobilization in the HLW Vitrification Facility."

Note: This issue is being addressed in CT3 efforts.

Backup Information: Cost and Schedule Variance Analysis

CH2M HILL Hanford Group, Inc.
FY 2003 PERFORMANCE MEASUREMENT - JANUARY
BY PROJECT BASELINE SUMMARY/CAPITAL PROJECTS

Dollars in Thousands

		FYTD								
		Budgeted Cost		Actual Cost	Variance				HANDI	
		Work	Work	Work	Schedule	SV %	Cost	CV %	(BAC)	
		Scheduled	Performed	Performed						
TW03	STORE WASTE	46,844	44,804	48,416	(2,040)	-4.4%	(3,612)	-8.1%	146,125	
TW04	RETRIEVE WASTE - Excluding Capital Projects	20,454	16,813	19,011	(3,641)	-17.8%	(2,198)	-13.1%	87,664	
	W-211 - Initial Tank Retrieval Systems - Exp/LI	6,596	7,473	5,871	877	13.3%	1,802	24.1%	24,595	
	W-314 - Tank Farm Restoration & Safe Operations - Exp/LI	<u>9,954</u>	<u>9,617</u>	<u>8,352</u>	<u>(337)</u>	<u>-3.4%</u>	<u>1,265</u>	<u>13.2%</u>	<u>44,697</u>	
	TOTAL RETRIEVE WASTE	37,004	33,903	33,034	(3,101)	-8.4%	869	2.6%	156,956	
TW06	TREAT WASTE	4,375	3,667	1,503	(708)	-16.2%	2,164	59.0%	25,711	
TW08	W-519 - Privatization & Infrastructure Project - LI	0	0	-97	0	0.0%	97	0.0%	0	
TW09	DISPOSE WASTE - Excluding Capital Projects	2,537	2,196	2,854	(341)	-13.4%	(658)	-30.0%	8,383	
	W-464 - IHLW Interim Storage Facility - Expense	138	138	223	0	0.2%	(85)	-61.6%	441	
	W-520 - ILAW Disposal Facility - Expense	<u>806</u>	<u>663</u>	<u>484</u>	<u>(144)</u>	<u>-17.8%</u>	<u>179</u>	<u>27.0%</u>	<u>2,963</u>	
	TOTAL DISPOSE WASTE	3,481	2,997	3,561	(485)	-13.9%	(564)	-18.8%	11,787	
TW10	MANAGE PROJECT	21,634	21,709	22,633	77	0.4%	(924)	-4.3%	70,450	
TW11	CLOSE FACILITIES	6,624	4,673	8,884	(1,951)	-29.4%	(4,211)	-90.1%	22,640	
PED	Project Engineering & Design									
	W-464 IHLW Interim Storage Facility - LI	<u>494</u>	<u>494</u>	<u>341</u>	<u>0</u>	<u>-0.1%</u>	<u>153</u>	<u>31.0%</u>	<u>3,959</u>	
	CHG Total	<u>120,456</u>	<u>112,247</u>	<u>118,275</u>	<u>(8,208)</u>	<u>-6.8%</u>	<u>(6,028)</u>	<u>-5.4%</u>	<u>437,628</u>	

Note 1: this display of performance data is consistent with the contractual requirement to provide status reports at the PBS and Capital Projects level. It differs from the display by WBS in that one PBS may be contained in multiple legs of the WBS.

Note 2: the capital projects on this report reflect both expense and line item data except for W-464 which is split between PBSs TW09 and PED.

Note 3: TW08 is not an active PBS in FY 2003. Project W-519 activity is a residual accrual from FY 2002.

TW03 - STORE WASTE

PERFORMANCE SUMMARY

Cumulative Performance – Store Waste					
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>
HANDI	\$46,844	\$44,804	\$48,416	-4.4%	-8.1%

SCHEDULE VARIANCE

Description and Cause: The unfavorable schedule variance (-\$2.0M; -4.4%) is a result of the following:

- Field Projects experienced significant delays in initiating DSA Implementation work scope, due to budget and funding issues on the Engineering work scope. As a result, contracts were delayed in the approval cycle.
- Implementation of the centralized training activity is delayed, pending approval of the decision to proceed.

Impact: There is no forecasted impact.

Corrective Action: Final DSA Implementation work scope was agreed to in December 2002, after new targets were established. Work is being completed aggressively and full schedule recovery is expected by fiscal year-end.

The scope for the centralized training activity will be adjusted in the IMAP process BCR to include required technical training currently being performed by individual organizations. When the BCR is approved, contracts will be placed and the work will begin.

COST VARIANCE

Description and Cause: The unfavorable cost variance (-\$3.6M; -8.1%) is the result of the following:

- In Technical Safety Requirement Surveillance & Maintenance, a higher number of operators and HPTs continue to support basic maintenance and monitoring activities than planned in FY 2003 budgets containing reduced staffing levels. In addition, resources were expended due to equipment failures and unplanned inspections, cleaning and testing of DST facilities. DSA Implementation has incurred higher cost than planned and costs for Unreviewed Safety Question work were incorrectly recorded.
- Interim Stabilization has incurred more costs than planned on the failed S/SX transfer line due to design, engineering, planning and fabrication of a new hose-in-hose transfer line (HIHTL) 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 and overtime were used to expedite the startup of pumping Tank 241-C-103 and repairing unexpected equipment failures. Additionally, some cross-site transfer costs have been incorrectly recorded.

Impact: A current unfavorable cost condition exists. Actions identified including resource realignment are needed to prevent an overrun condition in this PBS at fiscal year-end.

Corrective Action: Operators and HPTs will be reassigned to alternative work scope. Cost corrections/transfers are being processed, and will be completed in March 2003, to correct DSA and cross-site transfer costs. Resources will be redeployed over the next few months to offset Interim Stabilization costs.

TW04 - RETRIEVE WASTE

PERFORMANCE SUMMARY

Cumulative Performance – Retrieve Waste					
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>
HANDI	\$37,004	\$33,903	\$33,034	-8.4%	2.6%

SCHEDULE VARIANCE

RETRIEVE WASTE – EXCLUDING CAPITAL PROJECTS

Description and Cause: The unfavorable schedule variance (-\$3.6M; -17.8%) is the result of the following:

- The baseline for the Mission Acceleration WBS element contain activities, including Performance Management Plan Implementation, Optimization Studies, and Risk Sensitivity Analysis, which will be deleted.
- In C-Farm Retrieval/Closure, the unfavorable schedule variance is due to pursuing multiple paths for the C-106 retrieval activities, thereby delaying field activities. A modified slurry pump capable of mobilizing hard solids was originally chosen to provide the retrieval and transfer function, but due to the longer than anticipated lead time for procurement, it was decided to accelerate risk reduction by removing the liquids as soon as possible, and accelerate deployment of the Mobile Retrieval System (MRS) for the final risk reduction retrieval. Additionally, the project has experienced several unanticipated issues related to the liquid removal activities (i.e. difficulties in removing the heel-jet from the central riser, and storage and disposal of long-length containers), which have significantly contributed to the schedule variance.

Impact: The latest Critical Path Schedule, which has been shared with ORP, shows the project on schedule for both liquid and solid removal.

Corrective Action: The activities included in the Mission Acceleration WBS element will be excluded from the new baseline to be implemented in April 2003.

C-Farm Retrieval/Closure project has maximized the use of existing equipment (i.e., existing sluice nozzle, existing transfer lines) to achieve accelerated risk reduction. Pre-retrieval samples have been taken from the C-106 heel and are currently undergoing several acid solubility analyses and tests. Favorable results for acid dissolution will contribute to recovery of the project schedule by October 2003.

RETRIEVE WASTE – CAPITAL PROJECTS

Project W-211 - Initial Tank Retrieval Systems

Description and Cause: The favorable cost variance (\$1.8M; 24.1%) is the result of contract awards for the transfer system procurement and construction, and for the AZ-101 construction that were less than the baseline budget.

Impact: No impact; these procurement and construction activities will be completed within budget.

Corrective Action: None required.

Project W-314 - Tank Farm Restoration and Safe Operations

Description and Cause: The favorable cost variance (\$1.3M; 13.2%) is a result of the following:

Expense-funded work is currently being performed more efficiently than planned.

Capital-funded work is achieving cost savings through competitive bidding for the Phase 2 definitive designs on AY, AZ, and AP Farms. In addition, cost savings are being realized on the heating, ventilation, and air conditioning (HVAC) procurement for AW Phase 2 due to 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

	Cumulative Performance – Treat Waste				
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>
HANDI	\$4,375	\$3,667	\$1,503	-16.2%	59.0%

SCHEDULE VARIANCE

TREAT WASTE

Description and Cause: The unfavorable schedule variance (-\$0.7M; -16.2%) is the result of the following.

The TRU/ LLW Packaging and LAW Treatment Interim Baseline contain activities that will be deleted.

Impact: There is no forecasted impact.

Corrective Action: Activities identified for deletion will be excluded from the new baseline that will be implemented in April 2003.

TW08 – CAPITAL PROJECTS¹

¹ TW08 is not an active PBS in FY 2003. Values for Project W-519 represent residual accrual activity from FY 2002.

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.

COST VARIANCE

TREAT WASTE

Description and Cause: The favorable cost variance (\$2.2M; 59.0%) is the result of the following.

Scope associated with Supplemental Treatment work has been initiated, per ORP letter 02-AMIC-245, dated September 23, 2002, and costs have been incurred. However, these costs have been recorded against PBS TW04 until the correct WBS could be established within this PBS (TW06).

Impact: There is no forecasted impact.

Corrective Action: The correct WBS elements have been established and cost corrections/transfers are in progress and will be completed by the end of March 2003.

TW08 – 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

Cumulative Performance – Dispose Waste					
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>
HANDI	\$3,481	\$2,997	\$3,561	-13.9%	-18.8%

SCHEDULE VARIANCE

DISPOSE WASTE – EXCLUDING CAPITAL PROJECTS

Description and Cause: The unfavorable schedule variance (-\$0.3M; -13.4%) is the result of the following.

Development of the Performance Assessment data packages are behind schedule due to resources being utilized for higher priority work scope.

The Failed Melter Disposal System work scope is being delayed until the WTP Optimization Study issues are resolved.

Impact: There is no forecasted impact.

RETRIEVE WASTE – CAPITAL PROJECTS

Project W-211 - Initial Tank Retrieval Systems

Description and Cause: The favorable schedule variance (\$0.9; 13.3%) is the result of contract awards for the transfer system construction contracts and the AZ-101 construction contract, that were of shorter duration than 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 schedule variance (\$0.3M; 3.4%) is within the reporting threshold.

Impact: There is no forecasted impact.

Corrective Action: None required.

COST VARIANCE

RETRIEVE WASTE – EXCLUDING CAPITAL PROJECTS

Description and Cause: The unfavorable cost variance (-\$2.2M; -13.1%) is the result of the following:

- CH2M HILL incurred higher than budgeted costs to complete the Lower Module and Ultrasonic Decontamination Unit (UDU) components of the C-104 Mobile Retrieval System (MRS) due to technical complexity on this first-of-a-kind system. Additionally, as a result of an inadvertent error in the interim baseline for C-104 Design & Engineering, there is inadequate budget for Architect Engineer Advanced Preliminary Design, CH2M HILL design reviews, and project engineering support.

- Costs for the Supplemental Treatment work scope were charged to Project Baseline Summary (PBS) TW04, Retrieve Waste, instead of PBS TW06, Treat Waste. In FY 2002, Supplemental Waste Treatment technologies were fully included in the Mission Analysis and Technical Integration WBS element (PBS TW04). Beginning in FY 2003, the Supplemental Waste Treatment activities were charged to PBS TW04 while the planning was done and implemented for technology specific WBS elements.

- C-106 Retrieval/Closure has received an incorrect charge from the 222-S Laboratory and has incurred costs due to unforeseen technical and design issues.

Impact: The extent of cost overrun on the MRS will be determined when testing is completed and final costs are received. The impact will likely require a delay in construction activities on C-104. Not implementing the UDU on other tanks also may be considered if the Lower Module decontamination stages prove sufficiently effective during simulant testing at the Cold Test Facility.

Corrective Action: The unfavorable cost variance within C-104 will be controlled by delaying initiation of construction and procurement contracts. Additionally, C-104 Design & Engineering BCWS will be corrected in the new baseline that will be implemented in April 2003.

Cost corrections/transfers will be processed to correct charges for the Supplemental Treatment work scope and the 222-S Laboratory charge. Planning for C-106 Retrieval/Closure will be updated to allow for resolution of the technical and design issues.

Corrective Action: Schedule recovery of the development of the Performance Assessment data packages will be initiated in May 2003 after work on the Supplemental Waste Form Sensitivity Studies and Environmental Restoration Disposal Facility Sensitivity Studies are complete. The WTP Optimization Study is currently out for external review. Upon resolution of issues, resources will be applied to commence the Failed Melter Disposal System work scope.

DISPOSE WASTE – CAPITAL PROJECTS

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

Description and Cause: The schedule variance (\$0.0M; -0.2%) is within the reporting threshold.

Impact: There is no forecasted impact.

Corrective Action: None required.

Project W-520 - Immobilized Low-Activity Waste Disposal (Expense)

Description and Cause: The unfavorable schedule variance (-\$0.1M; -17.8%) is the result of the following:

The Interim baseline schedule does not reflect the subcontractor's actual work schedule. The Interim baseline schedule is heavily front loaded for the Integrated Disposal Facility (IDF) Critical Design activity.

Impact: There is no forecasted impact.

Corrective Action: Changes to the schedule will be incorporated in the new baseline that will be implemented in April 2003.

COST VARIANCE

DISPOSE WASTE – EXCLUDING CAPITAL PROJECTS

Description and Cause: The unfavorable cost variance (-\$0.7M; -30.0%) is primarily due to additional resources being used to support the IMAP rebaselining process and costs that have been incorrectly recorded.

Impact: There is no forecasted impact.

Corrective Action: Cost corrections/transfers will be completed in February 2003.

DISPOSE WASTE – CAPITAL PROJECTS

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

Description and Cause: The unfavorable cost variance (-\$0.1M, -61.6%) is the result of project and design support costs that were incorrectly recorded.

Impact: There is no forecasted impact.

Corrective Action: Cost corrections/transfers will be processed in February 2003 to accurately reflect the cost of the capital-funded Project Management activity.

Project W-520 - Immobilized Low-Activity Waste Disposal (Expense)

Description and Cause: The favorable cost variance (\$0.2M, 27.0%) is a result of efficiencies realized on the design of the IDF by adapting previous designs.

Impact: Designs will be completed as scheduled, but under budget.
Corrective Action: None required.

TW10 - MANAGE PROJECT

PERFORMANCE SUMMARY

Cumulative Performance – Manage Project					
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>
HANDI	\$21,634	\$21,709	\$22,633	0.4%	-4.3%

SCHEDULE VARIANCE

Description and Cause: The favorable schedule variance (\$0.1M; 0.4%) is within the reporting threshold.

Impact: There is no forecasted impact.

Corrective Action: None required.

COST VARIANCE

Description and Cause: The unfavorable cost variance (-\$0.9M; -4.3%) is within the reporting threshold.

Impact: There is no forecasted impact.

Corrective Action: None required.

TW11 - CLOSE FACILITIES

PERFORMANCE SUMMARY

Cumulative Performance – Close Facilities					
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>
HANDI	\$6,624	\$4,673	\$8,884	-29.4%	-90.1%

1.1.1 SCHEDULE VARIANCE

Description and Cause: The unfavorable schedule variance (-\$2.0M; -29.4%) is the result of the following:

- The 244-AR Vault has experienced equipment failures, difficulties with ventilation systems, and engineering rework. The 244-CR Vault activities are delayed due to lack of available field and engineering resources due to competing priorities.
- Initiation of Resource Conservation and Recovery Act of 1976 (RCRA) well fieldwork has been delayed pending management direction to start procurement activities and cross-site transfer resource limitations.

Impact: There is no forecasted impact to the 244-CR Vault activities. Delay of RCRA fieldwork may result in fewer boreholes drilled for FY 2003 than the *Tri-Party Agreement* milestone M-24-00 developed by the Cleanup Constraints Challenges Team.

Corrective Action: The schedule for the 244-AR Vault will be recovered by accelerating the lab analysis phase of the work.

A resolution of the RCRA issue is expected by February 28, 2003.

COST VARIANCE

Description and Cause: The unfavorable cost variance (-\$4.2M; -90.1%) is the result of the following:

- Unplanned costs have been incurred on the 244-AR Vault due to equipment failures, facility issues, and additional resources that were required for the Management Self-Assessment (MSA) to ensure that sound readiness preparation is completed and system turnover meet *Tri-Party Agreement* milestones.
- Costs for the C-106 Project and Regulatory Documentation were charged to the Accelerated Tank Closure Project in PBS TW11, Close Facilities, at the start of the fiscal year until FY 2003 WBS could be established.

Impact: Costs will be understated for C-106 Project and Regulatory Documentation until transfers are made.

Corrective Action: The unplanned fieldwork and additional resources required for the MSA will be addressed through implementation of the new baseline.

Cost corrections/transfers for C-106 Project and Regulatory Documentation are in progress and will be completed in February 2003.

PED - PROJECT ENGINEERING AND DESIGN

PERFORMANCE SUMMARY

Cumulative Performance – Project Engineering and Design					
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>
HANDI	\$494	\$494	\$341	-0.1%	31.0%

SCHEDULE VARIANCE

PROJECT ENGINEERING AND DESIGN – CAPITAL PROJECTS

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

Description and Cause: The schedule variance (\$0.0M; -0.1%) 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 favorable cost variance (\$0.2M; 31.0%) is the result of final costs of closing FY 2002 contracts being less than anticipated.

Impact: There is no forecasted impact.

Corrective Action: None required.



Critical Path Analysis Reporting
Tri-Party Agreement Milestones

December 2002



CH2MHILL
Hanford Group, Inc.

Critical Path Analysis Reporting

- **TPA Major Milestones**
 - M-043
 - M-090
- **Consent Decree Milestone**
 - D-001-00
- **Select Interface Milestones**
 - M-023-25G
 - M-045-03C (S-112)
 - M-045-03F (C-104)
 - M-045-05A (S-102)

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	SRT5	SRT6						
									FY02	FY03	FY04	FY05	FY06	
SW25DC2310	1	252	195	01OCT02A	30SEP03	0	H	C	Design & Construction Mgmt.-Ph. 2					
SW25EP2310	1	252	195	01OCT02A	30SEP03	99	H	C	Permits and Environmental Support-Ph. 2					
SW25PE2310	1	252	195	01OCT02A	30SEP03	126	H	C	Project Engineering-Ph. 2					
SW25QA2310	1	252	195	01OCT02A	30SEP03	126	H	C	Quality Assurance-Ph. 2					
SW25SA2310	1	252	195	01OCT02A	30SEP03	0	H	C	Safety Analysis-Ph. 2					
SW25SE2310	1	252	195	01OCT02A	30SEP03	126	H	C	Systems Engineering-Ph. 2					
SW25P1516A	1	45	11	18NOV02A	09JAN03	86	H	C	Complete 50% AP2 Definitive Design					
SW25P1516C	1	35	35	10JAN03	28FEB03	86	H	C	Compl 90% AP2 Def Design					
SW25P15167	1	20	20	03MAR03	28MAR03	86	H	C	AP2-Complete Definitive Design					
SW25P1516Q	1	44	44	31MAR03	30MAY03	86	H	C	AP2-Review & Approve CD-3					
SW25P4510C	1	0	0		30MAY03	86	H	C	CD-3 Approval Phase 2 AP Farm Upgrades					
SW25P45108	1	253	253	10JUN03	09JUN04	86	H	C	AP2-Construction					
TO12D15U1	1	64	64	01JUL03*	30SEP03	23	H	C	E-525 Construction Preparation (FY03)					
SW25DC2410	1	253	253	01OCT03*	30SEP04	0	H	C	Design & Construction Mgmt.-Ph. 2					
SW25EP2410	1	253	253	01OCT03*	30SEP04	99	H	C	Permits & Environmental Support-Ph. 2					
SW25PE2410	1	253	253	01OCT03*	30SEP04	126	H	C	Project Engineering-AP					
SW25QA2410	1	253	253	01OCT03*	30SEP04	126	H	C	Quality Assurance-Ph. 2					
SW25S7511B	1	253	253	01OCT03*	30SEP04	126	H	C	SY2-Startup & Testing Support					
SW25SA2410	1	253	253	01OCT03*	30SEP04	0	H	C	Safety Analysis-Ph. 2					
SW25SE2410	1	253	253	01OCT03*	30SEP04	126	H	C	Systems Engineering-Ph. 2					
TO12D15U2	1	253	253	01OCT03	30SEP04	23	H	C	E-525 Construction (FY04)					

Start Date 01OCT99
 Finish Date 29SEP01
 Data Date 23DEC02
 Run Date 10FEB03 17:08

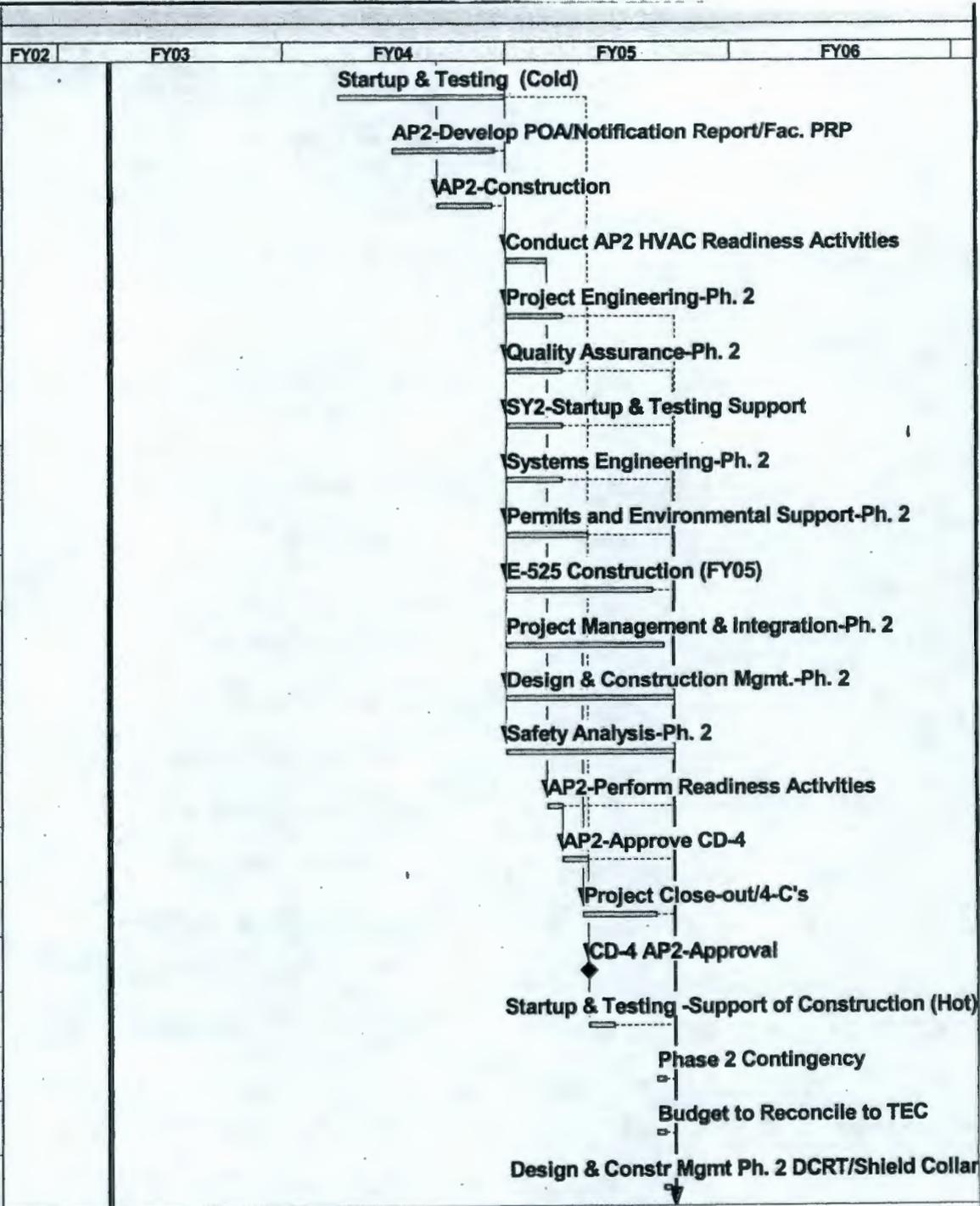
CP03

CH2M HILL Hanford Group
 Interim Lifecycle Baseline

Sheet 1 of 3

Critical Path to M-043-00
 December 2002

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	SRT5	SRT6
SW25P75110	1	191	191	02JAN04*	30SEP04	69 H	H	C
SW25P95D	1	115	115	01APR04*	13SEP04	82 H	H	C
SW25P451A2	1	62	62	10JUN04	07SEP04	86 H	H	C
SW25P95E	1	45	45	01OCT04	06DEC04	69 H	H	C
SW25PE2510	1	62	62	01OCT04*	31DEC04	126 H	H	C
SW25QA2510	1	62	62	01OCT04*	31DEC04	126 H	H	C
SW25S7511C	1	62	62	01OCT04*	31DEC04	126 H	H	C
SW25SE2510	1	62	62	01OCT04*	31DEC04	126 H	H	C
SW25EP2510	1	89	89	01OCT04*	09FEB05	99 H	H	C
TO12D15U3	1	165	165	01OCT04	27MAY05	23 H	H	C
SW25100A51	1	176	176	01OCT04*	14JUN05	22 H	H	C
SW25DC2510	1	188	188	01OCT04*	30JUN05	0 H	H	C
SW25SA2510	1	188	188	01OCT04*	30JUN05	0 H	H	C
SW25P97C	1	15	15	07DEC04	29DEC04	69 H	H	C
SW25P2CD4	1	30	30	30DEC04	10FEB05	69 H	H	C
SW25100U1	1	84	84	01FEB05	31MAY05	22 H	H	C
SW25P2CD49	1	0	0		10FEB05	69 H	H	C
SW25P75A13	1	29	29	11FEB05	24MAR05	69 H	H	C
SW25CONT25	1	11	11	01JUN05*	15JUN05	11 H	H	C
SW25CONTX1	1	11	11	01JUN05*	15JUN05	11 H	H	C
SW25100A5	1	10	10	13JUN05*	24JUN05	4 H	H	C



Start Date 01OCT99
 Finish Date 29SEP51
 Data Date 23DEC02
 Run Date 10FEB03 17:08

CP03

CH2M HILL Hanford Group
 Interim Lifecycle Baseline

Sheet 2 of 3

Critical Path to M-043-00
 December 2002

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	SRT5	SRT6	FY04 FY06 FY08 FY10 FY12 FY14 FY16 FY18 FY20 FY22 FY24 FY26 FY28 FY30 FY32 FY34 FY36 FY38 FY40												
TH57060A2	1	755	755	03OCT05*	30SEP08	0	H	C	Conceptual Design/Advanced Conceptual Design												
TH57060A3	1	504	504	01OCT08	30SEP10	0	H	C	Prepare Preliminary/Detailed Design - Capital												
TH57090A3	1	1174	1174	01OCT08	30MAY13	0	H	C	Prepare Safety Documentation and Other Support												
TH57060A1	1	1259	1259	01OCT08	30SEP13	0	H	C	RW-000 Project Management												
TH57030A1	1	627	627	01OCT10*	29MAR13	0	H	C	Maintain Technical Baseline - IHLW to RW												
TH57060A6	1	627	627	01OCT10	29MAR13	0	H	C	Engineering During Construction - Capital												
TH57070A1	1	627	627	01OCT10	29MAR13	0	H	C	Construction - Capital												
TH57130A1	1	128	128	01APR13	30SEP13	0	H	C	Prepare OTPs and ORR / Startup												
TH57120A1	1	1511	1511	01OCT13	30SEP19	0	H	C	Perform Hot Operations												
TH57120A3	1	1512	1512	01OCT19	30SEP25	0	H	C	Perform Hot Operations												
TH57120A4	1	1764	1764	01OCT25	30SEP32	0	H	C	Perform Hot Operations												
TH53150A1	1	502	502	01OCT32	28SEP34	0	H	C	Trans. IHLW Ship. Fac. to Other Gov. Agency												
TH57120A2A	1	0	0		28SEP34*	0	H	C	M-90-00: Comp Facilities-Waste Storage/Disposal												

Start Date 01OCT99
 Finish Date 29SEP51
 Data Date 23DEC02
 Run Date 10FEB03 17:35

CP03

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 Interim Lifecycle Baseline

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Critical Path to M-090-00
 December 2002

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	SRT5	SRT6					
									FY02	FY03	FY04	FY05	
SS23070B6	1	252	195	01OCT02A	30SEP03	0	H	C		Provide Baseline/ Financial Control FY03			
SS23070J6	1	252	195	01OCT02A	30SEP03	0	H	C		Provide ESH&Q Support FY03			
SS23070N5	1	251	195	01OCT02A	30SEP03	0	H	C		Provide Project Management FY03			
SS23S995	1	65	65	01OCT03*	06JAN04	0	H	C			Remove A-Farm OGT		
SS23070B7	1	253	253	01OCT03*	30SEP04	0	H	C			Provide Baseline/ Financial Control FY04		
SS23070J7	1	253	253	01OCT03*	30SEP04	0	H	C			Provide ESH&Q Support FY04		
SS23070N6	1	253	253	01OCT03*	30SEP04	0	H	C			Provide Project Management FY04		
SS23G78A1	1	11	11	02JAN04*	16JAN04	8	H	C				Walkdown/Prep WP/Rstr Riser/Perform Video S-111	
SS23S996	1	65	65	07JAN04	07APR04	0	H	C				Remove BY-Farm OGT	
SS23G78B1	1	77	77	19JAN04	05MAY04	8	H	C				Eval Pumping Data/Video, Prep/Appr ECN S-111	
SS23C78C1	1	77	77	02FEB04*	19MAY04	16	H	C				Prepare ECN and Disconnect PICS/FGM S-103	
SS23D78C1	1	77	77	02FEB04*	19MAY04	16	H	C				Prepare ECN and Disconnect PICS/FGM S-106	
SS23B78D1	1	60	60	01MAR04*	21MAY04	14	H	C				Prepare ECN and Disconnect Exhauster S-102	
SS23S997	1	65	65	08APR04	09JUL04	0	H	C				Remove S-Farm OGT	
SS23G78C1	1	18	18	06MAY04	01JUN04	8	H	C				Prepare ECN and Disconnect PICS/FGM S-111	
SS23C85B1	1	77	77	20MAY04	08SEP04	16	H	C				Pit Isolation S-103	
SS23D85B1	1	77	77	20MAY04	08SEP04	16	H	C				Pit Isolation S-106	
SS23B85B1	1	77	77	24MAY04	10SEP04	14	H	C				Pit Isolation S-102	
SS23G85B1	1	77	77	02JUN04	20SEP04	8	H	C				Pit Isolation S-111	
SS23S998	1	58	58	12JUL04	30SEP04	0	H	C				Remove U-Farm OGT	
SS23070N6A	1	0	0		30SEP04*	0	H	C					D-001-00 Complete IS of all 29 SST's

Start Date 01OCT99
 Finish Date 29SEP51
 Data Date 23DEC02
 Run Date 11FEB03 14:44

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 Interim Lifecycle Baseline
 Critical Path to D-001-00
 December 2002

Sheet 1 of 1
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M-045-03C

**Tank S-112 Saltcake Waste Retrieval
Technology Demonstration Project**

December 2002



CH2MHILL
Hanford Group, Inc.

S-112 Background

The S-112 Saltcake Waste Retrieval Technology Demonstration Project (S-112 Project) will install the systems, structures, and components necessary to retrieve waste from Single Shell Tank S-112 to the limits of technology for saltcake dissolution. The waste is to be transferred to the Double-Shell Tank system via a proven hose-in-hose transfer system. The tank currently contains an estimated 620,000 total gallons of waste and has been partially interim isolated.

The retrieval method selected for the S-112 Project demonstration introduces water into the tank in a controlled manner using directable spray wands to promote dissolution of the soluble waste salts removing 99% of tank waste volume and 550 curies of contaminants of concern. Retrieval of the waste will continue until less than 360 ft³ (2,700 gal) remains.

The S-112 project critical path indicates that the design, construction, testing, retrieval operations, and equipment removal are completed by the end of fiscal year 2005, supporting the completion of Hanford Federal Facility Agreement and Consent Order milestone M-45-03C.

Major Accomplishments for December 2002

- Completed 90% Design Review.
- Issued procurement specification (RPP-12160) for a new 500 KVA transformer for the power upgrades to S-Complex.

Key Project and Technical Issues

- Consent Decree modifications are needed to allow waste retrieval to start prior to completion of Interim Stabilization. Pursuing modification through ORP.
- WDOH approval of S-112 Notice of Construction (RAD-NOC) is needed by February 7, 2003 to support near-term tank preparation activities.

Key Near-term Activities

- The final design will be released in January.
- Issue Level 2 Specification, Rev. 2.
- Test large volume water nozzles.
- Submit Notice of Construction (Rad-NOC) to WDOH.
- Initiate procurement of progressive cavity pump.
- Consent Decree modification is needed to allow waste retrieval to start prior to completion of Interim Stabilization.
- WDOH approval of S-112 Rad-NOC is needed by February 7, 2003 to support near-term tank preparation activities.
- Prepare S-112 Non-Rad NOC.

Key Milestones

Milestone	Due Date	Description	Status
M-45-03-T03	12/30/01	Submit S-112 Saltcake Waste Retrieval Technology Demonstration Functions and Requirements Document.	Complete
M-45-03D	5/31/03	Complete S-112 Saltcake Waste Retrieval Technology Demonstration Design (to Include Physical Systems Including Design and Operating Strategies Necessary for Leak Detection Monitoring and Mitigation (LDMM)).	On Schedule
M-45-03E	9/30/04	Complete S-112 Saltcake Waste Retrieval Technology Demonstration Construction (to Include Physical Systems Including Design and Operating Strategies Necessary for Leak Detection Monitoring and Mitigation).	On Schedule
M-45-03C	9/30/05	Complete full scale saltcake waste retrieval technology demonstration at SST S-112. Waste shall be retrieved to the DST system to the limits of the technology (or technologies) selected. Selected saltcake retrieval technology (or technologies) must seek to improve upon the past-practice sluicing baseline in the areas of expected retrieval efficiency, leak loss potential, and suitability for use in potentially leaking tanks. This demonstration shall also include the installation and implementation of full scale leak detection, monitoring and mitigation (LDMM) technologies. The parties recognize and agree that this action is for demonstration and initial waste retrieval purposes. Completion of this demonstration shall be by written approval of doe and ecology.	On Schedule

Critical Path

- Hanford Federal Facility Agreement and Consent Order M-045-03D is the only milestone on the December 2002 critical path.
- The current critical path design is being revised due to scope changes required by the accelerated plan. All milestone commitments will be met.

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	SRT5	SRT6								
									FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10
TT SST Retrieval																
TT28305C01	1	157	28	01OCT02A	03FEB03	469	H	C	Design S-112							
TT28305CAZ	1	133	76	01OCT02A	11APR03	474	H	C	S-112 Site Walkdown, Assessment & Work Planning							
TTB5201A30	1	252	195	01OCT02A	30SEP03	370	H	C	Supplemental Treatment Data Package							
TTB5201A20	1	252	195	01OCT02A	30SEP03	370	H	C	Tank Farm Ops Data Packages							
TTB5201A10	1	252	195	01OCT02A	30SEP03	370	H	C	Tank Farm Closure EIS Program Management							
TTB7112H01	1	387*	330*	01OCT02A	14APR04	370	H	C	S-112 Retrieval Project Management							
TTB7112C02	1	387*	330*	01OCT02A	14APR04	370	H	C	Tank S-112 Retrieval Engineering Support							
TTB7112E01	1	60	60	17MAR03	09JUN03	474	H	C	Construction S-112							
TTB7112X54	1	63	63	17MAR03	12JUN03	486	H	C	Tank S-112 Retrieval Procedures & Training							
TTB7112X50	1	90	90	17MAR03	22JUL03	469	H	C	Tank S-112 Retrieval Readiness Prep/Verification							
TTB7112X52	1	24	24	06MAY03	09JUN03	474	H	C	Tank S-112 Retrieval Equip PM's & Calibrations							
TTB7112G01	1	15	15	10JUN03	30JUN03	474	H	C	Startup/Test ATP & OTP S-112							
TTB7112X48	1	0	0		30JUN03	474	H	C	Complete Tank S-112 Retrieval Testing							
TTB7112X58	1	10	10	09JUL03	22JUL03	469	H	C	Tank S-112 Retrieval Operational Readiness							
TTB7112R01	2	56	56	23JUL03	16SEP03	680	H	C	S-112 Retrieval Operations							
TTB5201A35	1	62	62	01OCT03	31DEC03	370	H	C	Supplemental Treatment Data Package							
TTB5201A25	1	62	62	01OCT03	31DEC03	370	H	C	Tank Farm Ops Data Packages							
TTB5201A15	1	62	62	01OCT03	31DEC03	370	H	C	Tank Farm Closure EIS Program Management							
TTB5201A40	1	73	73	02JAN04	14APR04	370	H	C	EIS Public Comment Period (DOE/NEPA Contractor)							
TTB7112X62	2	65	65	10FEB04	14APR04	534	H	C	S-112 Retrieval Equipment Removal							
TTB7112X66	2	0	0		14APR04	534	H	C	Complete Initial Waste Retrieval S-112							
TTB5201A50	1	0	0		14APR04	370	H	C	Issue/Publish EIS Record of Decision							
TT28305CAB	1	0	0		30SEP05*	0	H	C	M-45-03C Complete Saltcake Dissol Retrieval Demo							

Start Date
Finish Date
Data Date
Run Date

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Interim Lifecycle Baseline

Critical Path to M-045-03C
September 2002

Sheet 1 of 1



M-045-03F

**Complete Full Scale Sludge/Hard Heel, Confined Sluicing
and Robotic Technologies, Waste Retrieval
Demonstration at Tank C-104**

December 2002



CH2MHILL

Hanford Group, Inc.

M-45-03F Background

C-104 Waste Retrieval System (WRS), provides the in-tank and tank farm systems, structures and components necessary to retrieve high-level waste from Single-Shell Tank (SST) C-104 and transfer the waste to Double-Shell Tank (DST) AY-101. Tank C-104 contains approximately 263,000 gallons of sludge waste and has been interim stabilized.

The C-104 Waste Retrieval Project will demonstrate the use of robotics, confined sluicing retrieval technologies, and leak detection, monitoring and mitigation (LDMM) methods. A robotic crawler (i.e., Mobile Retrieval System [MRS]) will be used to move waste within reach of a central articulating arm. A vacuum system will draw the waste into an above ground vessel where it will be mixed with water in batches to facilitate conveyance to AY-101.

The project schedule targets the design, procurement, testing, construction, and retrieval of the tank being completed by the end of fiscal year 2005.

The current M-045-03F critical path indicates that the full scale sludge/hard heel, confined sluicing and robotic technologies, waste retrieval demonstration at tank C-104 is composed of procurement, design, testing, planning, training, installation, and retrieval activities. The December 2002 critical path indicates that completion of milestone M-045-03F is anticipated in September 2005.

Major Accomplishments for December 2002

- Completed vendor commissioning of the Mobile Retrieval system (MRS) at the Cold Test Facility (CTF).
- Issued MRS Integrated Cold Test Plan and Procedure, RPP-12382.
- Issued RPP-12493, Tank 241-C-104 Waste Retrieval Evaluation of Long-Length Contaminated Equipment Removal System and Methods.
- Issued RPP-13194, Tank 241-C-104 Waste Retrieval Evaluation of Alternatives for Preparing Tank C-104 Pits and Risers.

Key Project and Technical Issues

No key project or technical issues at this time.

Key Near-Term Activities

- Complete Advanced Preliminary Design
- Initiate Final Design
- Complete functional testing of the integrated Mobile Retrieval System (MRS) at the Cold Test Facility (CTF)
- Transmit Radiological Notice of Construction application and Air Operating Permit minor modification change form to WDOH and EPA
- Conduct performance test of the MRS at the CTF

Key Milestones

Milestone	Due Date	Description	Status
M-45-03-T04	12/31/01	Submit C-104 Sludge/Hard Heel, Confined Sluicing and Robotic Technologies, Waste Retrieval Demonstration Functions and Requirements Document.	Completed 12/19/01
M-45-03G	6/30/04	Complete C-104 Sludge/Hard Heel, Confined Sluicing and Robotic Technologies, Waste Retrieval Cold Demonstration.	On Schedule
M-45-03H	9/30/04	Complete C-104 Sludge/Hard Heel, Confined Sluicing and Robotic Technologies, Waste Retrieval Demonstration Design (to include all physical systems including design and operating strategies necessary for LDMM).	On Schedule
M-45-03I	9/30/06	Complete C-104 Sludge/Hard Heel, Confined Sluicing and Robotic Technologies, Waste Retrieval Demonstration Construction (to include all physical systems including those necessary for LDMM).	On Schedule
M-45-03F	TBE	Complete Full Scale Sludge/Hard Heel, Confined Sluicing and Robotic Technologies, Waste Retrieval Demonstration at Tank C-104.	On Schedule

Critical Path

- Hanford Federal Facility Agreement and Consent Order M-045-03F is the only milestone on the December 2002 critical path.
- The current critical path design is being revised due to scope changes required by the accelerated plan. All milestone commitments will be met.

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	SRT5	SRT6						
									FY02	FY03	FY04	FY05	FY06	
TTB660434	1	146	89	01OCT02A	30APR03	171	H	C	MRS #1 Procurement					
TTB660422	1	188	131	01OCT02A	30JUN03	129	H	C	MRS Design & Engineering					
TTB660456	1	188	131	01OCT02A	30JUN03	129	H	C	MRS Cold Testing					
TTB660420	1	314	257	01OCT02A	31DEC03	129	H	C	C-104 Retrieval Design					
TTB660412	1	187	153	01NOV02A	31JUL03	129	H	C	Environmental NOC Permit C-104					
TTB660414	1	418	384	01NOV02A	30JUN04	129	H	C	HazOp & Documented Safety Analysis C-104					
TTB660458	1	42	27	02DEC02A	31JAN03	133	H	C	Perform MRS Integrated Sys Functionl Test					
TTB660437	1	316	316	03MAR03	28MAY04	130	H	C	Procure Balance of C-104 Waste Rtrvl / Vent Sys					
TTB660440	1	316	316	03MAR03	28MAY04	173	H	C	C-104 Retrieval Work Package Planning					
TTB660436	1	108	108	01MAY03	30SEP03	182	H	C	Procure C-104 Removal Equip & Burial Containers					
TTB660442	1	295	295	01MAY03	30JUN04	173	H	C	C-104 Retrieval Site, Pit & Riser Prep					
TTB660438	1	317	317	01JUL03	30SEP04	129	H	C	MRS #2 Procurement & Testing					
TTB660444	1	231	231	01AUG03	30JUN04	129	H	C	C-104 Rtrvl Equip Functionl Test & Installation					
TTB660446	1	64	64	01JUL04	30SEP04	129	H	C	C-104 Retrieval ATP					
TTB660450	1	135	135	01JUL04	14JAN05	135	H	C	C-104 Retrieval Ops Procedures & Training					
TTB660448	1	0	0		30SEP04	129	H	C	Complete C-104 Retrieval Construction					
TTB660452	1	82	82	01OCT04*	31JAN05	129	H	C	C-104 Retrieval OTP / MSA / RA					
TTB660460	2	58	58	01FEB05	30MAR05	184	H	C	C-104 Bulk Retrieval Operations					
TTB660462	2	0	0		30MAR05	184	H	C	Complete Retrieval Operations C-104					
TT30J29AJP	2	0	0		30SEP05*	0	H	C	M-45-03F (TBE) Complete C-104 Waste Rtrvl Demo					

Start Date 01OCT99
 Finish Date 29SEP51
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 Interim Lifecycle Baseline
 Critical Path to M-045-03F
 December 2002

Sheet 1 of 1



M-045-05A

Complete Initial Waste Retrieval from Tank S-102

December 2002



CH2MHILL
Hanford Group, Inc.

M-45-05A Background

The Tank S-102 Waste Retrieval Project provides the in-tank and tank farm systems, structures and components necessary to retrieve high-level waste from Single-Shell Tank (SST) S-102 and transfer the waste to the Double-Shell Tank (DST) System. Tank S-102 contains approximately 447 thousand gallons of waste and has been partially interim stabilized.

The reference retrieval technology for Tank S-102 is "Power Fluidics." Fluidics is capable of mixing and retrieving the Tank S-102 wastes with minimal moving parts in the tank. The considerable development remaining for this technology does not support completion of the S-102 retrieval to meet the milestone commitments. An alternate technical approach based on conventional waste transfer pumping technology is being developed.

The current M-045-05A critical path indicates that the Initial Waste Retrieval from Tank S-102 is composed of design, procurement, testing, training, construction, and retrieval activities for tank S-102. The December 2002 critical path indicates that completion of milestones M-045-05A is scheduled to be completed in September 2006.

The Tank S-102 design, installation, and retrieval schedule is being replanned to meet the accelerated work plan.

Major Accomplishments for December 2002

- The Washington State Department of Ecology completed review of the Functions and Requirements Document and granted a conditional approval to start design.
- Received approval from ORP to manage S-102 as a Non-DOE Order 413.3 Project.

Key Project and Technical Issues

- Consent Decree modifications are needed to allow waste retrieval to start prior to the completion of Interim Stabilization. Pursuing modification through ORP.

Key Near-Term Activities

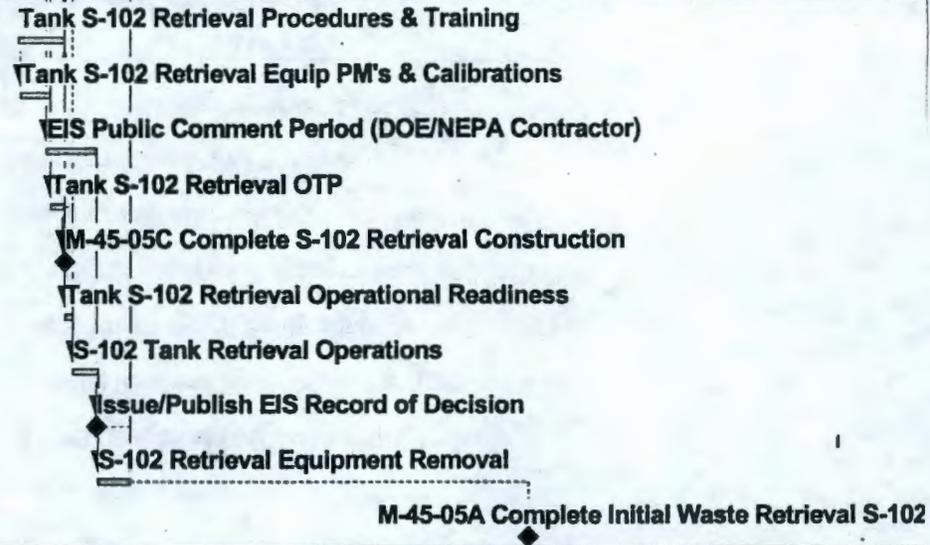
- Start procurement of S-102 Design contract.
- Consent Decree modification is needed to allow waste retrieval to start prior to completion of Interim Stabilization.

Key Milestones

Milestone	Due Date	Description	Status
M-45-05-T16	10/30/02	Submit S-102 Initial Waste Retrieval Functions and Requirements (F&R) Document.	On Schedule (Completed 10/9/02)
M-45-05B	3/31/04	Complete S-102 Initial Retrieval Project Design.	On Schedule
M-45-05C	11/30/05	Complete S-102 Initial Waste Retrieval Project Construction.	On Schedule
M-45-05A	9/30/06	Complete Initial Waste Retrieval from SST S-102.	On Schedule

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	SRT5	SRT8						
									FY03	FY04	FY05	FY06	FY07	FY08
TT28305C01	1	157	28	01OCT02A	03FEB03	667	H	C	Design S-112					
TT28305CAZ	1	133	76	01OCT02A	11APR03	672	H	C	S-112 Site Walkdown, Assessment & Work Planning					
TTB5201A10	1	252	195	01OCT02A	30SEP03	621	H	C	Tank Farm Closure EIS Program Management					
TTB5201A20	1	252	195	01OCT02A	30SEP03	621	H	C	Tank Farm Ops Data Packages					
TTB5201A30	1	252	195	01OCT02A	30SEP03	621	H	C	Supplemental Treatment Data Package					
TTB7102V07	1	436*	379*	01OCT02A	23JUN04	572	H	C	Project Management S-102					
TTB7112D01	1	66	19	02DEC02A	21JAN03	703	H		Procurement S-112					
TTB7112E01	1	60	60	17MAR03	09JUN03	672	H	C	Construction S-112					
TTB7112X54	1	63	63	17MAR03	12JUN03	684	H	C	Tank S-112 Retrieval Procedures & Training					
TTB7112X50	1	90	90	17MAR03	22JUL03	667	H	C	Tank S-112 Retrieval Readiness Prep/Verification					
TTB7102V20	1	66	66	31MAR03*	01JUL03	574	H	C	Design S-102					
TTB7112X52	1	24	24	06MAY03	09JUN03	672	H	C	Tank S-112 Retrieval Equip PM's & Calibrations					
TTB7102V22	1	66	66	27MAY03	27AUG03	629	H	C	Procurement S-102					
TTB7112G01	1	15	15	10JUN03	30JUN03	672	H	C	Startup/Test ATP & OTP S-112					
TTB7112X48	1	0	0		30JUN03	672	H	C	Complete Tank S-112 Retrieval Testing					
TTB7112X58	1	10	10	09JUL03	22JUL03	667	H	C	Tank S-112 Retrieval Operational Readiness					
TTB7102V40	1	40	40	09JUL03	03SEP03	574	H	C	Tank S-102 Retrieval Preparation Wk Pkg Planning					
TTB7112R01	2	56	56	23JUL03	16SEP03	968	H	C	S-112 Retrieval Operations					
TTB7102V42	1	60	60	06AUG03	29OCT03	589	H	C	Tank S-102 Retrieval Wk Pkg Planning					
TTB7102V43	1	30	30	13AUG03	24SEP03	574	H	C	Tank S-102 Retrieval Preparation Equip Removal					
TTB7102V30	1	72	72	25SEP03	09JAN04	574	H	C	Tank S-102 Retrieval Equipment Install					
TTB7102X50	1	90	90	29SEP03	06FEB04	584	H	C	Tank S-102 Retrieval Readiness Prep/Verification					
TTB5201A15	1	62	62	01OCT03	31DEC03	621	H	C	Tank Farm Closure EIS Program Management					
TTB5201A25	1	62	62	01OCT03	31DEC03	621	H	C	Tank Farm Ops Data Packages					
TTB5201A35	1	62	62	01OCT03	31DEC03	621	H	C	Supplemental Treatment Data Package					

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	SRT5	SRT6								
									FY03	FY04	FY05	FY06	FY07	FY08	FY09	
TTB7102X54	1	63	63	05NOV03	06FEB04	574	H	C								
TTB7102X52	1	40	40	10NOV03	09JAN04	574	H	C								
TTB5201A40	1	73	73	02JAN04	14APR04	621	H	C								
TTB7102X46	1	20	20	12JAN04	06FEB04	574	H	C								
TTB7102X48	1	0	0		06FEB04	574	H	C								
TTB7102X58	1	10	10	09FEB04	23FEB04	574	H	C								
TTB7102X60	2	56	56	24FEB04	19APR04	829	H	C								
TTB5201A50	1	0	0		14APR04	621	H	C								
TTB7102X62	2	65	65	20APR04	23JUN04	829	H	C								
TTB7102X66	2	0	0		30SEP06*	0	H	C								



Critical Path

- Hanford Federal Facility Agreement and Consent Order M-045-05C and M-045-05A are all on the December 2002 critical path.
- The current critical path design is being revised due to scope changes required by the accelerated plan. All milestone commitments will be met.

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	SRT5	SRT8						
									FY03	FY04	FY05	FY06	FY07	FY08
TT28305C01	1	157	28	01OCT02A	03FEB03	667	H	C	Design S-112					
TT28305CAZ	1	133	76	01OCT02A	11APR03	672	H	C	S-112 Site Walkdown, Assessment & Work Planning					
TTB5201A10	1	252	195	01OCT02A	30SEP03	621	H	C	Tank Farm Closure EIS Program Management					
TTB5201A20	1	252	195	01OCT02A	30SEP03	621	H	C	Tank Farm Ops Data Packages					
TTB5201A30	1	252	195	01OCT02A	30SEP03	621	H	C	Supplemental Treatment Data Package					
TTB7102V07	1	436*	379*	01OCT02A	23JUN04	572	H	C	Project Management S-102					
TTB7112E01	1	60	60	17MAR03	09JUN03	672	H	C	Construction S-112					
TTB7112X54	1	63	63	17MAR03	12JUN03	684	H	C	Tank S-112 Retrieval Procedures & Training					
TTB7112X50	1	90	90	17MAR03	22JUL03	667	H	C	Tank S-112 Retrieval Readiness Prep/Verification					
TTB7102V20	1	66	66	31MAR03*	01JUL03	574	H	C	Design S-102					
TTB7112X52	1	24	24	06MAY03	09JUN03	672	H	C	Tank S-112 Retrieval Equip PM's & Calibrations					
TTB7102V22	1	66	66	27MAY03	27AUG03	629	H	C	Procurement S-102					
TTB7112G01	1	15	15	10JUN03	30JUN03	672	H	C	Startup/Test ATP & OTP S-112					
TTB7112X48	1	0	0		30JUN03	672	H	C	Complete Tank S-112 Retrieval Testing					
TTB7112X58	1	10	10	09JUL03	22JUL03	667	H	C	Tank S-112 Retrieval Operational Readiness					
TTB7102V40	1	40	40	09JUL03	03SEP03	574	H	C	Tank S-102 Retrieval Preparation Wk Pkg Planning					
TTB7112R01	2	56	56	23JUL03	16SEP03	968	H	C	S-112 Retrieval Operations					
TTB7102V42	1	60	60	06AUG03	29OCT03	589	H	C	Tank S-102 Retrieval Wk Pkg Planning					
TTB7102V43	1	30	30	13AUG03	24SEP03	574	H	C	Tank S-102 Retrieval Preparation Equip Removal					
TTB7102V30	1	72	72	25SEP03	09JAN04	574	H	C	Tank S-102 Retrieval Equipment Install					
TTB7102X50	1	90	90	29SEP03	06FEB04	584	H	C	Tank S-102 Retrieval Readiness Prep/Verification					
TTB5201A15	1	62	62	01OCT03	31DEC03	621	H	C	Tank Farm Closure EIS Program Management					
TTB5201A25	1	62	62	01OCT03	31DEC03	621	H	C	Tank Farm Ops Data Packages					
TTB5201A35	1	62	62	01OCT03	31DEC03	621	H	C	Supplemental Treatment Data Package					
TTB7102X54	1	63	63	05NOV03	06FEB04	574	H	C	Tank S-102 Retrieval Procedures & Training					

Start Date
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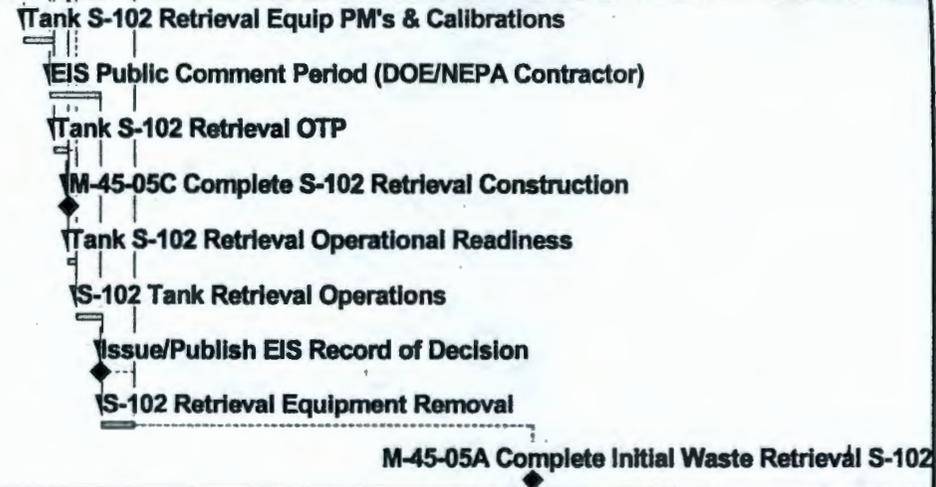
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Interim Lifecycle Baseline

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Critical Path to M-045-05A
December 2002

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	SRT5	SRT6								
									FY03	FY04	FY05	FY06	FY07	FY08	FY09	
TTB7102X52	1	40	40	10NOV03	09JAN04	574	H	C								
TTB5201A40	1	73	73	02JAN04	14APR04	621	H	C								
TTB7102X46	1	20	20	12JAN04	06FEB04	574	H	C								
TTB7102X48	1	0	0		06FEB04	574	H	C								
TTB7102X58	1	10	10	09FEB04	23FEB04	574	H	C								
TTB7102X60	2	56	56	24FEB04	19APR04	829	H	C								
TTB5201A50	1	0	0		14APR04	621	H	C								
TTB7102X62	2	65	65	20APR04	23JUN04	829	H	C								
TTB7102X66	2	0	0		30SEP06*	0	H	C								



Start Date 01OCT99
 Finish Date 28SEP51
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 Run Date 10FEB03 17:54

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 Interim Lifecycle Baseline
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 Critical Path to M-045-05A
 December 2002



TPA FY Summary

December 2002

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-T02 to 01/31/2005.

TPA change request M-46-02-01 changes the due date for M-046-011 to 2/28/03.

TPA change request M-45-02-06 changes the due date for M-45-05D to 3/31/2003.

TPA change request M-45-02-06 changes tank identification date to 3/31/03. Note this is not a completion date for the milestone.

** - Will be missed per CH2M HILL letter CH2M-0300345 dated January 29, 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	
	M-046-011 *	2/28/2003	T.W. Crawford	C.S. Louie	M-046-011 Concurrence of Additional Tank Acquisition	11/11/2002
	M-045-05D *	3/31/2003	K.C. Dorwick	R.W. Lober	M-045-05D Establish Completion Date for the Second Tank, Initial Waste Retrieval	12/11/2002
	M-45-05F*	3/31/2003	K.C. Dorwick	R.W. Lober	Complete Second Initial Waste Retrieval Project Construction	12/11/2002
2nd Quarter FY 2003 January - March	D-001-00-R15	1/31/2003	R.J. Cash	A.J. Stevens	D-001-00-R15 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	Complete
	M-045-55-T02	1/31/2003	A.J. Knepp	R.M. Yasek	M-045-55-T02 Submit to Ecology for Review and Comment as an Agreement Secondary Document a Field Investigative Report Pursuant to the Site-Specific SST WMA Phase 1 RFI/CMS Work Plan Addenda for WMA B-BX-BY	Complete
	P-045-05J-T01	1/31/2003	K.C. Dorwick	R.W. Lober	P-045-05J-T01 Conduct C-106 Waste Retrieval and Closure Demonstration Project 30% Design Consultation	Complete
	M-062-01F	1/31/2003	P. Peistrap	M.L. Ramsay	M-062-01F Submit Semi-Annual Project Compliance Report	10/11/2002
	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
	M-023-25C	3/31/2003	T.L. Sams	B. Mauss	M-023-25C Complete the Installation of Liquid Observation Wells (LOWs) and	12/11/2002
3rd Quarter FY 2003 April - June	D-001-00-R16	4/30/2003	R.J. Cash	A.J. Stevens	D-001-00-R16 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	1/10/2003
	D-001-14	4/30/2003	R.J. Cash	A.J. Stevens	D-001-14 Initiate Pumping tank C-103	1/10/2003
	P-045-05R-T01	4/30/2003	K.C. Dorwick	R.W. Lober	P-045-05R-T01 Complete C-106 Waste Retrieval and Closure Demonstration Project Design	1/10/2003
	M-090-09-T01	5/30/2003	G.L. Parsons	P.E. LaMont	M-090-09-T01 Complete Detailed Design of ILAW Disposal Facility Critical Systems to 80%	2/10/2003
	M-045-03D	5/31/2003	K.C. Dorwick	R.W. Lober	M-045-03D Complete S-112 Saltcake Waste Retrieval Technology Demonstration Design	2/11/2003
	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
	M-045-55-T03 *	1/31/2005	A.J. Knepp	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
	M-020-56	6/30/2003	K.S. Tollefson	M.L. Ramsay	M-020-56 Submit Canister Storage Facility Part B Dangerous Waste Permit Application to Ecology	3/12/2003
	M-020-57	6/30/2003	K.S. Tollefson	M.L. Ramsay	M-020-57 Submit ILAW Disposal Facility Part B Permit Application to Ecology	3/12/2003
	M-043-16	6/30/2003	J.C. Biagini	C.S. Louie	M-043-16 Start Construction for Upgrades in the 5th Tank Farm	3/12/2003
M-092-05	6/30/2003	P.S. Schaus	M.L. Ramsay	M-092-05 Inclusion of Hanford Site Cs/Sr "Treatment and/or Repackaging Parameters" in DOE TWRS Phase II Request for Proposals	3/12/2003	

FY Quarter	Milestone No.	Milestone Due Date	Contractor Manager	DOE Contacts	Description	110-Day Notification
4th Quarter FY 2003 July - September	D-001-00-R17	7/31/2003	R.J. Cash	A.J. Stevens	D-001-00-R17 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	4/12/2003
	M-062-01G	7/31/2003	P. Peistrap	M.L. Ramsay	M-062-01G Submit Semi-Annual Project Compliance Report	4/12/2002
	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	3/12/2003
	M-023-25D	9/30/2003	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-023-25E	9/30/2003	T.L. Sams	B. Mauss	M-023-25E Procure Necessary Equipment to Support Additional Low Monitoring Systems	6/12/2003
	M-045-02L	9/30/2003	K.C. Dorwick	R.W. Lober	M-045-02L Submit Annual Update of SST Retrieval Sequence Document	6/12/2003
	M-045-11	9/30/2003	K.C. Dorwick	H.J. Stafford	M-045-11 Complete 244-AR Vault Interim Stabilization	6/12/2002
	M-046-00J	9/30/2003	T.W. Crawford	C.S. Louie	M-046-00J Double-Shell Tank Space Evaluation	6/12/2003
M-048-11	9/30/2003	G.P. Duncan	B.M. Mauss	M-048-11 Submit Results of (4) DST'S Not Previously Examined	6/12/2003	
P-045-05K-T01	9/30/2003	K.C. Dorwick	R.W. Lober	P-045-05K-T01 Complete C-106 Waste Retrieval and Closure Demonstration Project Construction	6/12/2003	
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	M.L. Ramsay	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
	P-045-05L-T01	9/30/2003	K.C. Dorwick	R.W. Lober	P-045-05L-T01 Complete Full Scale C-106 Waste Retrieval	8/12/2003
	M-046-01J	11/30/2003	T.W. Crawford	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	M.L. Ramsay	M-062-01H Submit Semi-Annual Project Compliance Report	10/13/2003
	P-045-05M-T01	2/27/2004	K.C. Dorwick	R.W. Lober	P-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	K.C. Dorwick	R.W. Lober	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	A.J. Knepp	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. 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	K.C. Dorwick	R.W. Lober	M-045-05B Complete S-102 Initial Retrieval Project Design	12/11/2003

FY Quarter	Milestone No.	Milestone Due Date	Contractor Manager	DOE Contacts	Description	110-Day Notification
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	K.C. Dorwick	R.W. Lober	M-045-05-T17 Submit Second Tank Initial Waste Retrieval Functions and Requirements Document	1/11/2004
	P-045-05H	4/30/2004	K.C. Dorwick	R.W. Lober	P-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.A. Voogd	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	K.C. Dorwick	R.W. Lober	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	K.C. Dorwick	R.W. Lober	M-045-06-T06 Submit Tank Farm Closure/Post-Closure Workplan Update	3/12/2004
	P-045-06-T20	6/30/2004	K.C. Dorwick	R.W. Lober	P-045-06-T20 Submit Tank Farm Closure/Post-Closure Implementation Plan	3/12/2004
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-062-011	7/31/2004	P. Peistrap	M.L. Ramsay	M-062-011 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	K.C. Dorwick	R.W. Lober	M-045-02M Submit Annual Update of SST Retrieval Sequence Document	6/12/2004
	M-045-03E	9/30/2004	K.C. Dorwick	R.W. Lober	M-045-03E Complete S-112 Saltcake Waste Retrieval Technology Demonstration Construction	6/12/2004
	M-045-03H	9/30/2004	K.C. Dorwick	R.W. Lober	M-045-03H Complete C-104 Sludge/Hard Heel, Confined Sluicing and Robotic	6/12/2004
	M-046-00K	9/30/2004	T.W. Crawford	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.W. Crawford	C.S. Louie	M-046-01K Concurrence of Additional Tank Acquisition	8/12/2004
	P-045-05N-T01	12/31/2004	K.C. Dorwick	C.S. Louie	P-045-05N-T01 Final Completion of Tank C-106 SST Retrieval and Closure Demonstration Project	9/13/2004

FY Quarter	Milestone No.	Milestone Due Date	Contractor Manager	DOE Contacts	Description	110-Day Notification
2nd Quarter FY 2005 January - March	M-062-01J	1/31/2005	P. Peistrap	M.L. Ramsay	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
	P-045-06-B	3/31/2005	K.C. Dorwick	C.S. Louie	P-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	12/12/2004
3rd Quarter FY 2005 April - June	M-043-00	6/30/2005	J.C. Biagini	T.R. Hoertkorn	M-043-00 Complete tank Farm Upgrades	3/12/2005
4th Quarter FY 2005 July - September	M-062-01K	7/31/2005	P. Peistrap	M.L. Ramsay	M-062-01K Submit Semi-Annual Project Compliance Report	4/12/2005
	M-062-08	7/31/2005	P. Peistrap	M.L. Ramsay	M-062-08 Submittal of Hanford Tank Waste Phase II treatment Alternatives Report	4/12/2005
	M-045-02N	9/30/2005	K.C. Dorwick	R.W. Lober	M-045-02N Submit Annual Update of SST Retrieval Sequence Document	6/12/2005
	M-045-03C	9/30/2005	K.C. Dorwick	R.W. Lober	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.W. Crawford	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	K.C. Dorwick	R.W. Lober	M-045-05C Complete S-102 Initial Waste Retrieval Project Construction	8/12/2005
	M-046-01L	11/30/2005	T.W. Crawford	C.S. Louie	M-046-01L Concurrence of Additional Tank Acquisition	8/12/2005
	M-062-07B	11/30/2005	P. Peistrap	M.L. Ramsay	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	M.L. Ramsay	M-062-01L Submit Semi-Annual Project Compliance Report	10/12/2005
	M-047-01	3/31/2006	J.A. Voogd	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.A. Voogd	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	K.C. Dorwick	R.W. Lober	M-045-05E Complete Second Tank Initial Retrieval Project Design	3/12/2006
	P-045-13	6/30/2006	K.C. Dorwick	R.W. Lober	P-045-13 Interim Completion of Tanks S-112 SST Waste Retrieval and	3/12/2006

FY Quarter	Milestone No.	Milestone Due Date	Contractor Manager	DOE Contacts	Description	110-Day Notification
4th Quarter FY 2006 July - September	M-062-01M	7/31/2006	P. Peistrap	M.L. Ramsay	M-062-01M Submit Semi-Annual Project Compliance Report (Report will continue on a semi-annual bases as needed.)	4/12/2005
	P-045-06-C	8/31/2006	K.C. Dorwick	R.W. Lober	P-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	K.C. Dorwick	R.W. Lober	M-045-00B Complete "Near Term" SST Waste Retrieval	6/12/2006
	M-045-02O	9/30/2006	K.C. Dorwick	R.W. Lober	M-045-02O Submit Annual Update of SST Retrieval Sequence Document	6/12/2006
	M-045-03I	9/30/2006	K.C. Dorwick	R.W. Lober	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	K.C. Dorwick	R.W. Lober	M-045-05A Complete Initial Waste Retrieval from Tank S-102	6/12/2006
	M-046-00M	9/30/2006	T.W. Crawford	C.S. Louie	M-046-00M Double-Shell Tank space Evaluation	6/12/2006
1st Quarter FY 2007 October - December	M-046-01M	11/30/2006	T.W. Crawford	C.S. Louie	M-046-01M Concurrence of Additional Tank Acquisition	8/12/2006
	M-062-03	12/31/2006	P. Peistrap	M.L. Ramsay	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
	P-045-06-D	6/30/2007	K.C. Dorwick	R.W. Lober	P-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
	P-045-13-T01	6/30/2007	K.C. Dorwick	R.W. Lober	P-045-13-T01 Final Completion of Tank S-112 SST Retrieval and Closure Demonstration Project	3/12/2007
	P-045-15	6/30/2007	K.C. Dorwick	R.W. Lober	P-045-15 Interim Completion of Tanks S-102 SST Waste Retrieval and Closure Demonstration Project	3/12/2007

FY Quarter	Milestone No.	Milestone Due Date	Contractor Manager	DOE Contacts	Description	110-Day Notification
4th Quarter FY 2007 July - September	M-045-02P	9/30/2007	K.C. Dorwick	R.W. Lober	M-045-02P Submit Annual Update of SST Retrieval Sequence Document	6/12/2007
	M-045-03F	9/30/2007	K.C. Dorwick	R.W. Lober	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	K.C. Dorwick	R.W. Lober	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	M.L. Ramsay	M-062-09 Start (HOT) Commissioning - Phase I Treatment Complex	9/12/2007
3rd Quarter FY 2008 April - June	P-045-14	6/30/2008	K.C. Dorwick	R.W. Lober	P-045-14 Interim Completion of Tank C-104 SST Waste Retrieval and Closure Demonstration Project	3/12/2008
	P-045-15-T01	6/30/2008	K.C. Dorwick	R.W. Lober	P-045-14-T01 Final Completion of Tank S-102 SST Retrieval and Closure Demonstration Project	3/12/2008
4th Quarter FY2008 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	K.C. Dorwick	R.W. Lober	M-045-02Q Submit Annual Update of SST Retrieval Sequence Document	6/12/2008
	M-045-05-T06	9/30/2008	K.C. Dorwick	R.W. Lober	M-045-05-T06 Initiate Tank Retrieval from Five Additional Single-Shell Tanks	6/12/2008
1st Quarter FY 2009 October - December	P-045-06E	12/31/2008	K.C. Dorwick	R.W. Lober	P-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
	P-045-14-T01	6/30/2009	K.C. Dorwick	R.W. Lober	P-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	K.C. Dorwick	R.W. Lober	M-045-02R Submit Annual Update of SST Retrieval Sequence Document	6/12/2009
	M-045-05-T07	9/30/2009	K.C. Dorwick	R.W. Lober	M-045-05-T07 Initiate Tank Retrieval from Seven Additional SSTs	6/12/2009
1st Quarter FY 2010 October - December	P-045-05G-T01	10/31/2009	K.C. Dorwick	R.W. Lober	P-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	P-045-16	7/31/2010	K.C. Dorwick	R.W. Lober	P-045-16 Interim Completion of Tank S-105, S-106, and S-103 SST Waste	4/12/2010
	M-045-02S	9/30/2010	K.C. Dorwick	R.W. Lober	M-045-02S Submit Annual Update of SST Retrieval Sequence Document	6/12/2010
	M-045-05-T08	9/30/2010	K.C. Dorwick	R.W. Lober	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	M.L. Ramsay	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	K.C. Dorwick	R.W. Lober	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	P-045-16-T01	7/31/2011	K.C. Dorwick	R.W. Lober	P-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	K.C. Dorwick	R.W. Lober	M-045-02T Submit Annual Update of SST Retrieval Sequence Document	6/12/2011
	M-045-05-T09	9/30/2011	K.C. Dorwick	R.W. Lober	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	K.C. Dorwick	R.W. Lober	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	K.C. Dorwick	R.W. Lober	M-045-02U Submit Annual update of SST Retrieval Sequence Document	6/12/2012
	M-045-05-T10	9/30/2012	K.C. Dorwick	R.W. Lober	M-045-05-T10 Initiate Tank Retrieval from 12 Additional Single-Shell Tanks	6/12/2012