

**Tri-Party Agreement Milestone Review – Office of River Protection
November 19, 2002
Meeting Minutes**

Approval: *Michael A. Wilson* Date: 1/28/03
 Michael A. Wilson (B5-18)
 Chairperson and Ecology IAMIT Representative

Approval: *W. Wade Ballard for W.W.B.* Date: 1/28/03
 W. Wade Ballard (A5-12)
 RL IAMIT Representative

Approval: *James E. Rasmussen* Date: 1/28/03
 Jim E. Rasmussen (H6-60)
 ORP IAMIT Representative

Approval: *Nick Ceto* Date: 1/28/03
 Nick Ceto (B5-01)
 EPA IAMIT Representative

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Minutes Prepared by:

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

EDMC

Date: 1/28/03

Aromi, E. S.	CHG	H6-63	Lober, R.	ORP	H6-60
Bartus, D.	EPA	B5-18*	Liou W.	ORP	H6-60
Brown, M.	Ecology	B5-18*	Mattlin, E.	RL	A5-15*
Burandt, M. E.	ORP	H6-60	Mauss, B.	ORP	H6-60*
Buxbaum, M.E.	FH	B3-53	Miera, F. R.	CHG	R1-31*
Clark, C. E.	RL	A5-15*	Morrison, R. D.	FH	A1-14*
Clark, D.	ORP	H6-60*	Murphy-Fitch, E. J.	FH	A1-14*
Cusack, L.	Ecology	B5-18*	K. Niles	ODOE*	
Dahl, S.	Ecology	B5-18*	Piippo, R. E.	FH	A1-14
DeWitt, K.	Ecology	B5-18	Rasmussen, J. E.	ORP	H6-60
Dixon, B. T.	CHG	R1-51	Ramsay, M.	ORP	H6-60
Duncan, G. P.	CHG	R3-76	Russell, W.	ORP	H6-60*
Fowler, S. B.	CHG	H6-22*	Singleton, D.	Ecology	B5-18
Gay, R.	CTUIR		Skinnarland, E. R.	Ecology	B5-18
Hales, J. E.	FH	A1-14	Sobczyk, S.	Nez Perce	
Hansen, J. L.	ORP/Inn	H6-60*	Stanley, R.	Ecology	Lacey*
Hebdon, J.	RL	A5-12*	Stevens, A.	ORP	H6-60
Hedges, J.	Ecology	B5-18*	Taylor, W.	ORP	H6-60*
Henry, D.	ODOE*		Uzlemblo, N. H.	Ecology	B5-18*
Hertzfel, J. S.	FH	A1-14	Williams, D. J.	ORP	H6-60*
Irby, D.	ORP	H6-60*	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			

**Office of River Protection Tri-Party Agreement Milestone Review
November 19, 2002**

FY 2003 ORP Tri-Party Agreement Milestone Performance

Start: 9:09 a.m.
End: 9:15 a.m.

All FY 2003 milestones are forecast for on-schedule completion.

During the last quarter, the parties met and agreed to a phased approach for identifying critical path activities. Four Tri-Party Agreement Milestones were selected:

- M-023-25G, *Complete the Installation of Liquid Observations Wells (LOWs)*, due September 30, 2004
- M-045-03C, *Complete Full Scale Saltcake Waste Retrieval Technology Demonstration at SST 241-S-112*, due September 30, 2005
- M-045-03F, *Complete Full Scale Sludge/Hard Heel, Confined Sluicing and Robotic Technologies, Waste Retrieval Demonstration at Tank 241-C-104*, due September 30, 2005
- M-045-05A, *Complete Initial Waste Retrieval from Single-Shell Tank S-102*, due September 30, 2006

Ecology and ORP will continue to work the critical path process. When refined, this process will serve as the template for tracking agreed-to critical path activities. DOE and Ecology will identify further milestones to track critical path. Eventually all the major components should be covered.

M-023, Tank Integrity and Monitoring

Start: 9:15 a.m.
End: 9:18 a.m.

A 90-day extension for comment resolution activities was agreed to for the Single Shell Tank (SST) System Leak Detection and Monitoring Functions and Requirements Document (F&R) Document (Tri-Party Agreement Milestone M-023-23) and the SST System Integrity Assessment Report (Tri-Party Agreement Milestone M-023-24).

A correction was noted for the Significant Accomplishments (page 11 of the presentation) Completed Installation of four ~~LAW's~~ ~~LOWs~~ for M-023-25B.

Presentation attached.

Interim Stabilization (Consent Decree)

Start: 9:18 a.m.
End: 9:32 a.m.

Significant accomplishments include 15 tanks in pumping status with 8 routinely pumping. Three tanks

(241-SX-015, 241-U-102, and 241-U-109) were certified as meeting the Interim Stabilization Criteria. Two additional tanks (241-BY-105 and 241-SX-103) are under evaluation.

Ecology raised a concern on the assumption/methodology/calculation/validation supporting completion of the 241-U-107 Tank (D-001-12V). Presentation attached.

Action: Send letter to ORP requesting data to backup 241-U-107 completion (D-001-12V)

Actionee: Jeff Lyons, Ecology

Action: Fix date on critical path for consent decree milestones (should be 9/2004 versus 2/2005)

Actionee: Diane Clark/Joe Navarro, ORP

M-044-00, Tank Waste Characterization

Start: 9:32 a.m.

End: 9:36 a.m.

Milestone complete as of FY 2002. Ecology has action to concur with completion of M-44-00A. Parties will meet annually to determine if any further characterization is needed. Presentation attached.

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

Start: 9:36 a.m.

End: 9:44 a.m.

Workscope remains on schedule but with limited float available. No significant issue/concerns resulting in follow-on action were identified during the presentation. Presentation attached.

M-048-00, DST Integrity Assessment Program

Start: 9:44 a.m.

End: 9:51 a.m.

Results of four double-shell tanks not previously examined were completed in FY 2002. Ten video inspections will complete all tanks by September 2003. A recurring program will be put in place following completion. The evaluation of 241-AY-101 fitness-for-use continues with a UT scan of the secondary wall and a bottom scan of air slots using RUTI. An independent review (Mr. Huber is the Individual Qualified Registered Professional Engineer) will be performed by LATA with a kick off meeting scheduled for November 27, 2002.

M-046-00, DST Space Evaluation Status Actions

Start: 9:51 a.m.

End: 9:54 a.m.

A Tri-Party Agreement Change Request should be approved by the end of November 2002 modifying the completion date for the Tri-Party Agreement Interim Milestone M-046-01I. The extension to February 28, 2003, will allow more time for a coordinated review of the need for additional tank storage space, including review of DOE's Single-Shell Tank Retrieval Sequence and Double-Shell Tank Space Evaluation. Presentation Attached.

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

Start: 9:54 a.m.
End: 10:06 a.m.

The near-term deliverables (pre-2006) for the M-047 milestone series are on schedule with one complete. Ecology verified that the M-047-02 milestone (post 2006) was consistent with the startup of the pretreatment process.

A recommendation was made to develop a scorecard identifying the tanks and milestone number.

Action: Develop a scorecard identifying the tanks and associated milestone number for the February 2003 Tri-Party Agreement Quarterly Review
Actionee: Woody Russell, ORP/Jeff Lyon, Ecology

M-045-00, SST Closure

Start: 10:06 a.m.
End: 10:23 a.m.

A series of issues tied to the approval of the Functions and Requirements Document were discussed – final design for the S-112 and C-104 Retrieval Projects, investment in technology to improve the capability to detect and mitigate leaks during retrieval; and the administrative limit of 80” total waste volume on 241-AY-101.

A revision to the M-045-05A Critical Path package was requested to address the concerns raised in the meeting.

Action: Revise M-045-05A Critical Path package
Actionee: Woody Russell, ORP/Andy Stevens/ORP

M-045-50, 60 SST Corrective Action

Start: 10:23 a.m.

End: 10:28 a.m.

Fieldwork in the TX SST Farm is complete. Known contributors to contamination plume should be formalized through the Tri-Party Agreement RI/FS and such to closure.

No significant issue/concerns resulting in follow-on action were identified during the presentation. Presentation attached.

M-043-00, Tank Farm Upgrades

Start: 10:28 a.m.

End: 10:34 a.m.

Construction of secondary containment lines were discussed. Issue discussion and negotiation of the M-043 milestone series continues. Presentation attached.

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

Start: 10:34 a.m.

End: 11:22 a.m.

Concerns raised include modification/deletion of the M-062 series milestones; critical path to get the waste treated; alternative waste form; alternate/supplemental technology, 2+2 versus 2+3; giving up LAW treatment capabilities with no other treatment capabilities identified; and C3T activities. Ecology and EPA stated that C3T activities do not constitute negotiations nor acceptance of any document, modification, alternate approach proposed to them. Changes are negotiated through the Tri-Party Agreement process. The State is concerned that ORP has already negotiated/modified and approved CHG's contract without engaging Ecology any discussion or buy-in on the revised approach. For example, WTP Buildings have been eliminated and staff reassigned, the loss of treatment capability (2+2 versus 2+3). The loss of treatment capability may force the Governor to take action.

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

Start: 11:22 a.m.

End: 11:23 a.m.

Ecology expressed their concern that changes to process/structures/etc., are being made without the benefit of discussion and their only involvement is to be informed after the fact. Ecology stated that several years ago, it was agreed that tritium would be handled during pre-treatment. This agreement could be met by treating tritium in the disposal facility. If you change the disposal place, then you lose the flexibility on how you dispose of it, you may be impacting the alternate waste forms, etc. If the Tritium Ion Exchange is removed, then don't you end up with more tritium? How will that tritium be handled? Is there a cost savings or is it a cost deferral? Is there an impact to human health and/or the environment by doing this? How much and how big?

Ecology asked that a meeting be scheduled to begin discussion on this as soon as possible.

Action: Arrange meeting with Ecology to discuss concerns

Actionee: Bill Taylor, ORP

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

Start: 11:23 a.m.

End: 11:36 a.m.

The Part B Permit and the ILAW are behind slightly. A change in the strategy for design of the ILAW is being evaluated. ORP is proposing that the waste would be sent to ERDF when the Vit Plant starts. The design and alternate waste form/supplement wastes forms will be evaluated. Ecology again stated that C3T discussions or products do not mean regulatory approval. These kinds of changes need to be agreed to by the parties following the process agreed to in the Tri-Party Agreement. Ecology has not agreed to combining the draft Supplemental EIS with the Solid Waste EIS.

Presentation Attached.

Agenda

Office of River Protection Tri-Party Agreement

Quarterly Milestones Review

November 19, 2002

EPA Conference Room

712 Swift Blvd., Suite 5

9:00 a.m. – 11:00 p.m.

Topic	Leads	Time
• FY 2003 ORP Tri-Party Agreement Cost & Schedule Performance and TPA Milestone Statistics	Jim Rasmussen/ Mary Beth Burandt/ Woody Russell/ Suzanne Dahl/ Jeff Lyon	9:00
• ORP Critical Path Related to Sections 4.1 and 11.8	Jim Rasmussen/ Mary Beth Burandt/ Woody Russell/ Jim Navarro	9:05
• M-23, Tank Integrity and Monitoring	Mary Beth Burandt/ Woody Russell/ Delmar Noyes/ /Billie Mauss/ Jeff Lyon	9:15
• Interim Stabilization (Consent Decree)	Delmar Noyes/ Andy Stevens/ Nancy Uziemblo	9:25
• M-44-00, Tank Waste Characterization	Delmar Noyes/ Wen-Shou Liou/ Debra Singleton	9:35
• M-45-11, Complete 244-AR Vault Interim Status Actions	Delmar Noyes/ Harold Stafford/ Jeff Lyon	9:40
• M-48-00, DST Integrity Assessment Program	Delmar Noyes/ Billie Mauss/ Brenda Jentzen	9:45
• M-46-00, Double-Shell Tank Space Evaluation	Delmar Noyes/ Cathy Louie / Jeff Lyon	9:50
• M-47-00, Tank Waste Treatment, Storage and Disposal Facilities	Delmar Noyes/ Cathy Louie /Jim Davis/ Steve Lijek	9:55
• M-45-00, Single-Shell Tank Closure	Delmar Noyes/ Andy Stevens/ Dick Heggen	10:00
• M-45-50, 60 Single-Shell Tank Corrective Action	Delmar Noyes/ Rob Yasek/ Joe Caggiano	10:15
• M-43-00, Tank Farm Upgrades	Delmar Noyes/ Cathy Louie/ Stephen Lijek	10:20
• M-62, Complete Pretreatment Processing and Vitrification of Tank Wastes	Bill Taylor/ Mark Ramsay/ Suzanne Dahl	10:25
• M-92-05, Inclusion of Hanford Site Cs/Sr Treatment and/or Repackaging Parameters in DOE TWRS Phase II Request for Proposals	Bill Taylor/ Mark Ramsay/ Suzanne Dahl/ Jeff Lyon	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	Delmar Noyes/ Phil LaMont/ Suzanne Dahl	10:40
• Review of new commitments and actions	Jim Rasmussen/ Mary Beth Burandt/ Woody Russell/ Suzanne Dahl/Jeff Lyon	10:50

Office of River Protection

**Tri-Party Agreement
Quarterly Milestones Review**



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

November 19, 2002

Agenda

Office of River Protection Tri-Party Agreement

Quarterly Milestones Review

November 19, 2002

EPA Conference Room

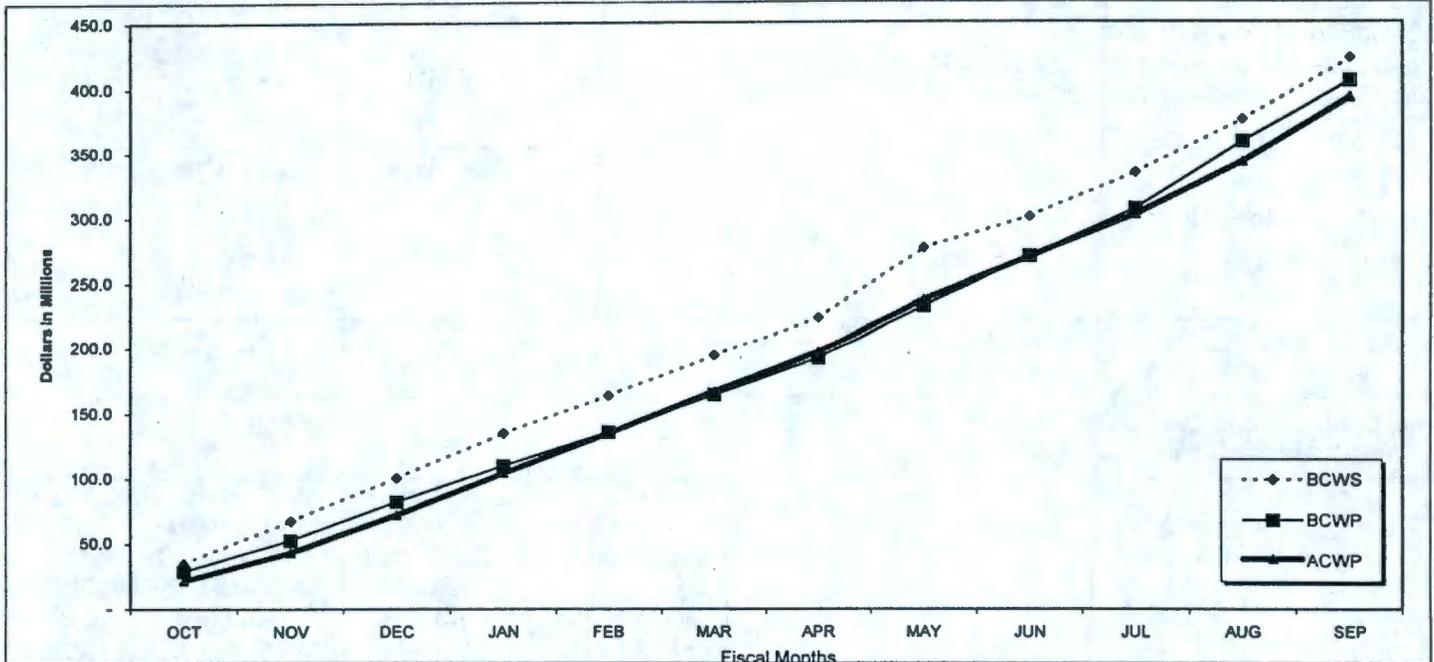
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Cost/Schedule Performance

CH2M HILL HANFORD GROUP, INC.
 FY 2002 - ALL DIRECT FUNDED ACTIVITIES (CHG/ORP/PNNL)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
FY02 CURRENT APPROVED PERFORMANCE MEASUREMENT BASELINE												
CURRENT PERIOD												
BCWS	35.0	32.6	33.1	34.2	28.9	30.3	29.6	53.7	24.3	34.1	41.1	46.3
BCWP	28.8	24.0	29.5	28.0	25.5	28.5	27.8	40.9	38.2	36.9	51.9	46.3
ACWP	21.4	21.8	29.0	32.1	30.6	32.1	29.7	41.0	33.2	32.3	41.4	49.2
CUMULATIVE YEAR TO DATE												
BCWS	35.0	67.6	100.7	134.9	163.8	194.1	223.7	277.4	301.7	335.8	376.9	423.2
BCWP	28.8	52.8	82.3	110.3	135.8	164.3	192.1	233.0	271.2	308.1	360.0	406.3
ACWP	21.4	43.2	72.2	104.3	134.9	167.0	196.7	237.7	270.9	303.2	344.6	393.8
SV %	-17.5%	-21.7%	-18.3%	-18.2%	-17.1%	-15.3%	-14.2%	-16.0%	-10.1%	-8.2%	-4.5%	-4.0%
CV %	25.7%	18.2%	12.3%	5.4%	0.7%	-1.6%	-2.9%	-2.0%	0.1%	1.6%	4.3%	3.1%

TPA Milestone Statistics

(Including target milestones)

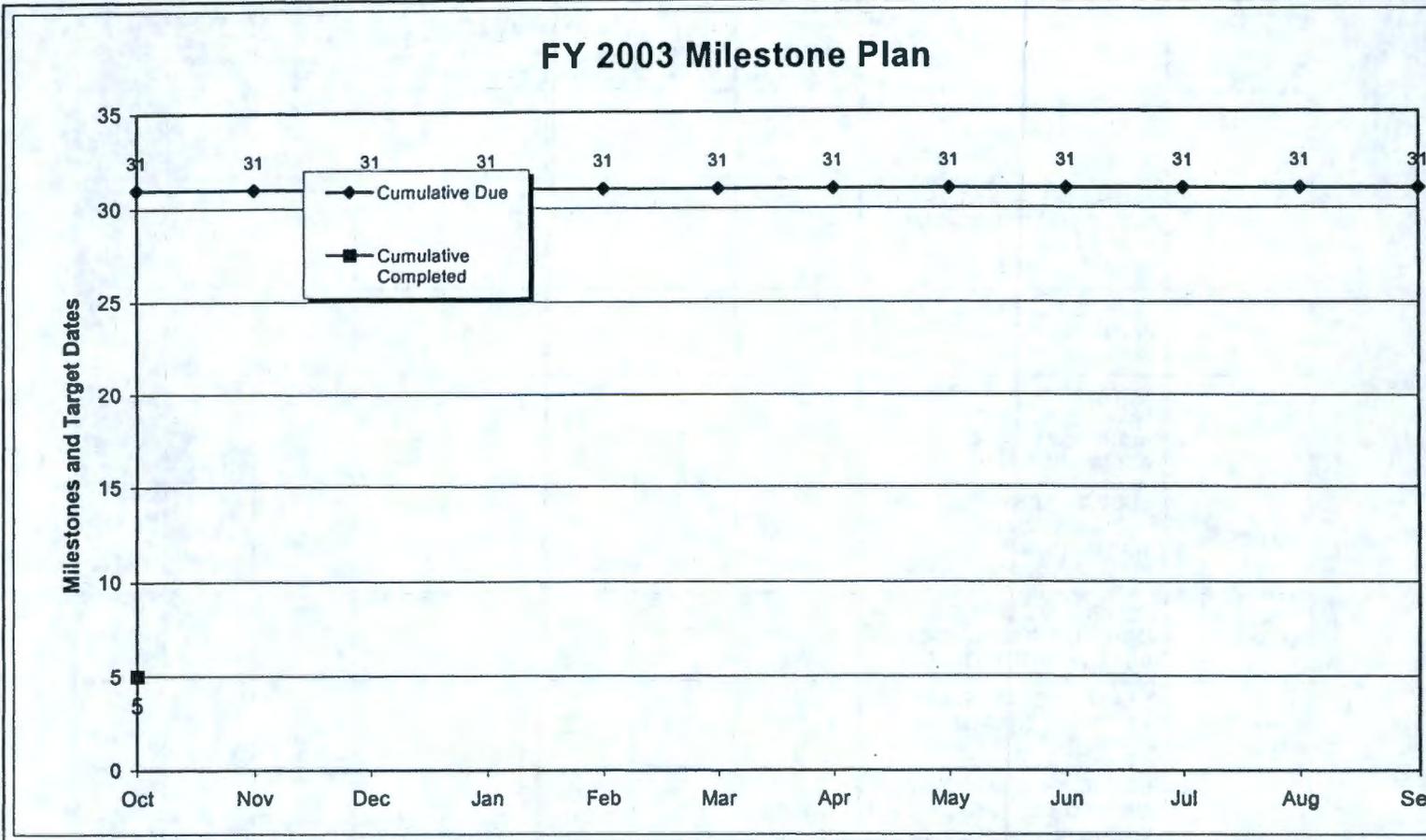
Milestone	Due Date	Total Active as of 11/19/02	Milestone Number	Due Date	Milestone Number	Due Date
M-20-00, Submit Part B Permit Application on Closure/Post Closure Plans for all RCRA TSD Units	2/28/2004 (M-20-00)	2	M-20-56	6/30/03	M-20-57	6/30/03
M-23-25, Tank Integrity and Monitoring	9/30/2004 (M-23-25)	6	M-23-23C	9/30/03	M-23-25D M-23-25E M-23-25F M-23-25 M-23-25G	9/30/03 9/30/03 3/31/04 9/30/04 9/30/04
M-43-00, Complete Tank Farm Upgrades	6/30/2005 (M-43-00)	2	M-43-16	6/30/03	M-43-00	6/30/05
M-44-0, Double and Single Shell Tank Characterization	9/30/2002 (M-44-00A)	0				
M-45-00, Complete Closure of all SST Farms	9/30/2024 (M-45-00)	65	M-45-02 (total of 15 milestones)	start 9/30/01 & annually thereafter	M-45-05-T06 M-45-05-T07 M-45-06-T07C M-45-05-T08 M-45-00D M-45-05-T09 M-45-06-T03 M-45-06-T07D M-45-05-T10 M-45-05-T11 M-45-06-T04 M-45-06-T07E M-45-05-T12 M-45-05-T13 M-45-06-T07F M-45-05-T14 M-45-05-T15 M-45-06-T07G M-45-05 M-45-06-T07H M-45-06-T07I M-45-06-T07J M-45-06 M-45-00 M-45-03F M-45-05F M-45-60 M-45-56	9/30/08 9/30/09 6/30/10 9/30/10 6/30/11 9/30/11 3/31/12 6/30/12 9/30/12 9/30/13 3/31/14 6/30/14 9/30/14 9/30/15 6/30/16 9/30/16 9/30/17 6/30/18 9/30/18 6/30/20 6/30/22 6/30/24 9/30/24 9/30/24 TBD TBD TBD TBD

TPA Milestone Statistics (continued)

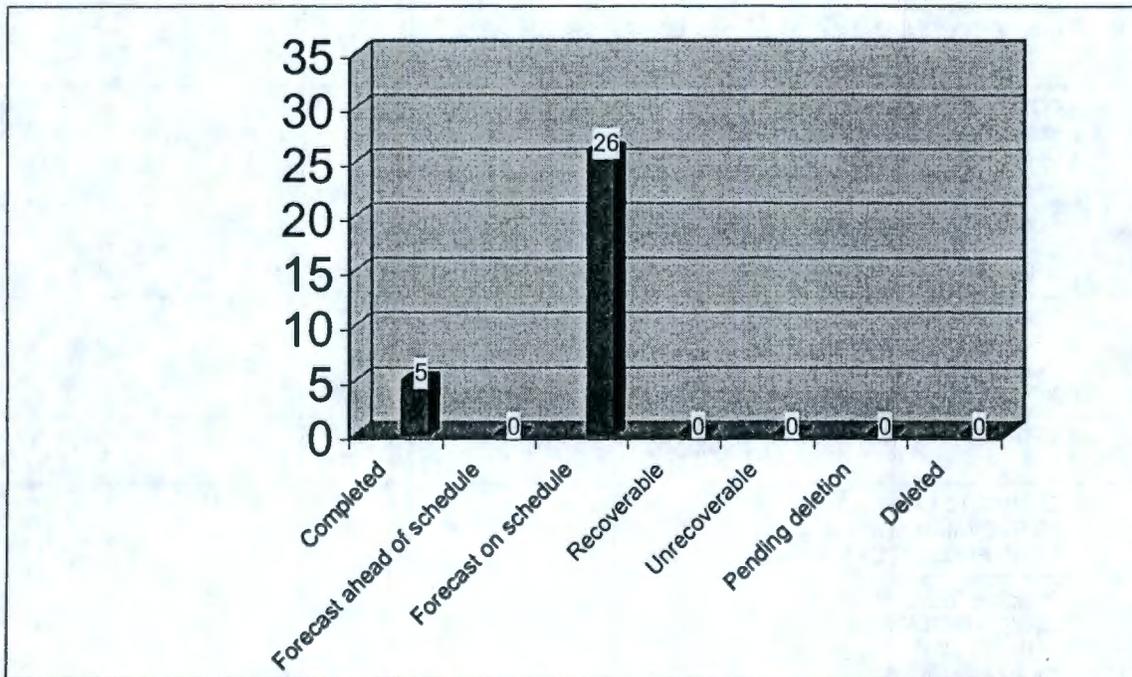
Milestone	Due Date	Total Active as of 11/19/02	Milestone Number	Due Date	Milestone Number	Due Date
M-46-00, Double Shell Tank Space Evaluation	11/30/2006 (M-46-01M)	9	M-46-01I	11/30/02	M-46-01K	11/30/04
			M-46-00J	9/30/03	M-46-00L	9/30/05
			M-46-01J	11/30/03	M-46-01L	11/30/05
			M-46-00K	9/30/04	M-46-00M	9/30/06
					M-46-01M	11/30/06
M-47-00, Complete All Work for Phase 1 Operations	2/28/2018 (M-47-00)	8	M-47-05	5/31/04	M-47-00A	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	9/30/24		
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)	19	M-62-01 (total of 8 milestones)	Semi-annually beginning 7/31/00	M-62-07B	10/30/05
					M-62-03	12/31/06
					M-62-09	12/31/07
					M-62-10	1/31/11
					M-62-11	1/31/14
					M-62-07A	10/30/03
		M-62-08	7/31/05			
				M-62-00A	2/28/18	
				M-62-00	12/31/28	
				M-62-12	TBD	
M-90-00, Interim Storage and Disposal of LAW and Interim Storage of HLW	TBD (M-90-00)	5	M-90-09-T01	5/30/03	M-90-10	8/31/08
			M-90-08	2/28/05	M-90-11	6/30/09
					M-90-00	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-48-13	9/30/05
					M-48-14	3/31/06
			M-48-11	9/30/03	M-48-15	9/30/07
			M-48-12	9/30/04	M-48-00	9/30/07

TPA Milestone Statistics (continued)

Milestone	Due Date	Total Active as of 11/19/02	Milestone Number	Due Date	Milestone Number	Due Date
Interim Stabilization Consent Decree	9/30/2004 (D001-01)	16	D-001-13	11/30/02	D-001-13-T01	9/30/03
			D-001-00-R15	1/31/03	D-001-00V	9/30/03
			D-001-08-T01	2/28/03	D-001-06-T01	9/30/03
			D-001-00-R16	4/30/03	D-001-00-R19	1/31/04
			D-001-09-T01	6/30/03	D-001-00-R20	4/30/04
			D-001-00-R17	7/31/03	D-001-00-R21	7/31/04
			D-001-11-T01	8/30/03	D-001-01	9/30/04
			D-001-00-R18	10/31/03	D-001-00-R22	10/31/04
			Total Active Milestones:		144	



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				
M-046-01I	OBTAIN CONCURRENCE (BY TPA PARTIES) ON ADDITIONAL TANK ACQUISITION	11/30/02			X				
M-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	12/31/02	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-R10	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			5	0	26	0	0	0	0

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. Comment resolution is going well.
- **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.
- **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
- **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: On schedule
- **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 LAWs for M-23-25B.

III. Significant Planned Actions in the Next Six Months:

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

IV. Issues:

- Work to resolve comments on M-23-23 F&R. An extension was granted.
- Work to resolve comments on M-23-24 Integrity Assessment Report. An extension was granted.

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:

- Fifteen (15) tanks are in pumping status - with eight (8) routinely pumping.
- Tank SX-105, U-102, and U-109 were certified as meeting the Interim Stabilization criteria by the Contractor.
- Tanks BY-105 and SX-103 are being evaluated by the Contractor for stabilization criteria.
- Over 2.51 million gallons have been removed.
- Approximately 420,000 gallons were pumped during the quarter ending 9/30/02.
- Pumping commenced in tanks S-101, S-107, and S-112.

Issues/Recovery:

- Continued operation with high average efficiencies was key to meeting the September 30, 2002 milestone.

Planned Actions:

- Complete the stabilization evaluation for tanks SX-103 and BY-105.
- Install Hose-in-Hose Transfer Lines directly to SY-101 and SY-102 from valve pit S-A 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.
- Start pumping of Tank C-103 in November 2002.

Issues:

- None

Milestone M-44-00A, Complete delivery of information requirements as Identified in the annually submitted Waste Information Requirements Document (WIRD)

I. Deliverables:

- **M-44-15F:** Complete Characterization Deliverables Consistent with TSB-WIRD Developed for FY 2002.
Due: 9/30/02
Status: Complete
- **M-44-16F:** Complete Input of Characterization Information for HLW Tanks for which Sampling and Analysis was Completed Per the FY 2002 TSB-WIRD, into Electronic Database.
Due: 9/30/02
Status: Complete

II. Significant Accomplishments:

- Completed TPA Milestones M-44-00A.
- ORP letter from J. E. Rasmussen, to M. A. Wilson, Ecology, "Completion and Closure of Hanford Federal Facility Agreement and Consent Order Major Milestone M-44-00A" was forwarded to Ecology on September 30, 2002.

III. Significant Planned Actions within the Next Six Months:

- Milestone 44-00A will be completed and closed in accordance with the current schedule. However, Ecology is expected to participate in all on-going activities until DST closure.

IV. Issues:

- None

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

II. Significant Accomplishments:

- DOE reviewed and approved Authorization Basis Amendment (10/8/02)
- All Core Bores completed through Cover Blocks (10/14/02)
- Process Control Plan reviewed and approved consisting of Final Design, Equipment Description Document, Authorization Basis Amendment, Unreviewed Safety Questions, and Air Source Pump (10/15/02)
- All Plasma Arc cuts completed in vault tanks (10/21/02)
- Installed interior pumps and piping, electrical power & test, and control and instrumentation (10/24/02)
- Implemented Authorization Basis Amendment (10/31/02)
- Installed exterior transfer piping (11/11/02)

III. Significant Planned Actions in the Next Six Months:

- Completion of Work Packages (11/27/02)
- Completion of Plant Operating Procedures (12/5/02)
- Completion of Operator Training (12/16/02)
- Conduct Plant Readiness CHG-Management Self Assessment (2/11/03)
- Submit Readiness to Proceed Letter to Construction Authorization Authority (3/12/03)
- Completion of Readiness Assessment DOE (4/30/03)

Near-term actions needed by DOE or Ecology

- None

IV. Issues:

- The current critical path has limited float for the completion of the milestone workscope.

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: Latest report completed September 2002.
- **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 modifications to crawler still ongoing.

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). Currently collecting AP-101 UT PATA.

- Initiate FY03 video inspections of 10 DSTs: SY-101 through SY-103, AP-101 through AP-106, AN-105.
- AY-101 fitness-for-use evaluation on going.
- UT Scan of secondary wall
- Bottom scan of air slots using RUTI.

IV. Issues:

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

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: 11/30/02
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:

- DST waste volume management activities continue in support of accelerated retrieval and closure of SSTs. Activities including revising waste volume projections of retrieved SST waste, analyzing transfer routes for supernate and slurry transfers, evaporator campaign planning, and implementing additional tank space savings options all support a dynamic modeling effort using the Hanford Tank Waste Operations Simulator (HTWOS).

III. Significant Planned Actions in the Next Six Months:

- Results of the dynamic modeling will form a waste volume management basis for the RPP Integrated Mission Acceleration Plan to be issued within the next quarter. Details of the modeling will be documented in the RPP System Plan, Rev. 1.

IV. Issues:

- None

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

I. Near-Term Deliverables:

- **M-47-05**, 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. Requested bids for AP-101 pump procurement, preparing to remove old pump in November/December.
- **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. Contractor notification of milestone completion sent August 13, 2002, letter #CHG-0202151.
- **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. Construction contract awarded. Piping spools are being delivered. Excavation initiated.
- **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 has been initiated (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 mixer pump (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-47-01 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 excavation outside the tank farm fence for AZ-101 retrieval system upgrades
- Initiated TFC/WTP waste transfer line construction
- Awarded contract for construction of AP Pit upgrades
- Received bids for AN-101 and AZ-102 mixer pumps

III. Significant Planned Actions in the Next Six Months:

- Initiate AN-101 construction
- Award contract for fabrication of AN-101 retrieval system mixer pumps
- Initiate Title II design for AN-107 retrieval system
- Receive AZ-101 transfer pump
- Complete receipt of transfer line pipe spools

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

- None to report at this time

V. Issues:

- None at this time

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-8554, Rev. 1, was issued to CHG to ORP on 9/23/02.
- **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. Delays associated with comment resolution of F&R document will impact start of final design (see "Issues" section).

Design of the Water Distribution system coupled with the existing Interim Stabilization waste transfer system is 60% complete. Negotiations are underway to place the design/build contract for final design and fabrication of the water distribution system. Design of the Waste Residual Reduction system (Phase 2 dissolution/transfer system) is nearing 60% completion.

- **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. Design, fabrication, and limited testing of the Mobile Retrieval System which will adapt commercially available equipment for Hanford Site use was successfully conducted in September 2002. Oak Ridge National Laboratory has completed its review of the test plan.
- **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. Potential delays associated with comment resolution of F&R document may impact start of final design (see "Issues" section). Preliminary design has been completed, and an independent review by "outside experts" on slurry retrieval and transfer processes has also been completed.

- **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

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 Preliminary Design Report for C-104 Waste Retrieval System
- Received Conditional Approval of C-104 F&R from Ecology for initiation of Final Design
- Completed Design, Factory Acceptance Testing, and Limited Cold Testing of Mobile Retrieval System (MRS) for C-104
- Transmitted S-102 F&R and CD-1 Packages to ORP
- Issued S-102 Conceptual Design Report
- Received Conditional Approval of S-112 F&R Document from Ecology for Initiation of Final Design
- Completed 60% Design of Water Distribution System (Phase I Waste Dissolution/Transfer System)

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.
- Continue proof-of-concept testing of the AEAT Power Fluidics System and the Russian Pulsating Mixing and Pumping System in support of S-102 retrieval.

- Complete Conceptual Design for S-102 initial retrieval project.
- Initiate S-102 Preliminary Design
- Submit S-102 CD-2 package to ORP
- Complete work associated with removal of plug from U-107 transfer lines.
- Complete S-112 Final Design/Build Contract
- Complete Preliminary Design for C-104 Waste Retrieval System
- Complete S-112 Over Ground Transfer Line and Waste Residual Risk Reduction Designs
- Complete Procurement and Testing of S-112 Tank Volume Measurement System (TVMS)
- Initiate Installation of S-112 Water Distribution System (Phase I)
- Complete Design/Fabrication of S-112 Enhanced Process Instrumentation
- Initiate C-104 Final Design.
- Approve CD-2 for C-104 (Approval of Performance Baseline).
- Continue performance testing and deployment demonstrations for down selected ex-tank leak detection technologies.

IV. Issues:

The ability to move forward with final design for the S-112 and C-104 Retrieval Projects is tied to Ecology approval of the Functions and Requirements (F&R) documents submitted to Ecology on December 21, 2001 as TPA "primary" documents. Ecology sent a letter to ORP on July 19, 2002, granting "conditional approval" of the documents and listing six (6) conditions. The first condition required resolution of all non-RPE related ecology comments on the documents. Meetings to resolve comments were completed on August 21, 2002, and subsequent document revisions are in process. The revised documents will be provided to Ecology when complete for approval. The 65-day delay in approval of the document for S-112 has significantly reduced the schedule float for completion of the follow-on construction and retrieval activities.

An additional condition of the Ecology approval of the F&R requires DOE to invest in technology to improve the capability to detect and mitigate leaks during retrieval. DOE is currently evaluating three (3) geophysical ex-tank leak detection technologies at an experimental site in the 200 East Area. The purpose of the testing is to assess the viability of the technologies for in-tank farms application and, if the testing indicates that one or more of the technologies will perform well and reliably in a tank farm environment. DOE will plan an experimental deployment accordingly. The ongoing tests will conclude in November 2002 and DOE would like the opportunity to brief Ecology at the test site in early October.

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).

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: Draft of report has been delivered to DOE-ORP for review. The report is forecast on schedule to be submitted to Ecology in 1/03.
- **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. The Change Request to amend the due date to reflect alignment with fieldwork signed on 12/30/02.
- **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:

- Completed fieldwork in the TX SST Farm. Remove collected soil samples from 3 boreholes in 2002.

III. Significant Planned Actions in the Next Six Months:

- Participate in C3T exercise for ground water monitoring.
- Drilling of two boreholes and shallow investigations with cone penetrometer in T-and-TY WMAs in FY 2003.
- Complete B/BX/BY field investigation report and submit to Ecology.

IV. Issues:

- None at this time.

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. (SY farm) 90% definitive design review complete.
- **M-43-00, Complete Tank Farm Upgrades**
Due: 6/30/05
Status: On schedule, pending definition of completion.

II. Significant Accomplishments:

- Completed Master Pump Shutdown System (MPS) construction
- Completed Waste Transfer System (WTS) construction
- Awarded HVAC Skid contract to Premier Technology
 - Complete AN01A and AN04A pit upgrades
 - W-314 Complete Phase I AW upgrades

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
- Complete Fabrication of AN Phase 2 HVAC Skid

Near-term Actions Needed by DOE or Ecology:

- Approve E-525 scope and approach (Ecology and ORP)
- Complete discussions and negotiations on M-43-00

IV. Issues:

- Need Ecology's response to compliance assumptions. (ORP letter 02-OMD-046 issued 7/26/02 to Ecology re: 5 transfer lines.)

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 January 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

- Continuing with installation of forms, rebar and embeds in the base mat and tunnels
- Installing electrical ground grid
- Preparations are underway for base mat concrete
 Review is underway for eliminating the technetium ion exchange system. This would provide substantial savings of capital and life cycle costs.

LAW Vitrification Facility

- 7,900 of 8,400 cubic yards (94%) of concrete have been placed in the base mat completing the base mat concrete except for 450 cubic yards for the cold joint to be placed in November.
- 810 cubic yards out of a total of 2,359 cubic yards of concrete for the exterior walls has been placed.
- Presentation on cold joint issue and resolution was made to DNFSB. Concrete pour for the cold joint is scheduled for December.

- Continuing with installation of forms, rebar and embeds for walls-to-grade.

HLW Vitrification Facility

- About 11,433 cubic yards of the 18,493 cubic yards of concrete for the base mat has been placed.
- BNI received approval from WDOH to embed – 31-foot duct riser and sections of –21 foot C5 duct.
- Fabrication and placement of the forms, rebar and embeds for walls-to-grade continues. Installing electrical ground grid.

Analytical Laboratory Facility

- Completed review of Rev 2 of the Sampling and Analysis Plan. Comments are being incorporated.
- Performed the first successful operations research model run of the Lab. The results indicate the Lab conceptual design will support WTP expanded production.
- Finalized Radiation Labs layout
Seismic issue closed. Lab will be designed to seismic category III requirements.

Balance of Facilities

- Installation of underground utilities continues.
- Combination Shop (T15) is about 99% complete. Occupancy of the building will occur at end of November.
- Punch list items are being worked off for completion of the Warehouse (Bldg. 52).
- Recent trends have been approved for the elimination of the Administration Building and the Melter Assembly Building, for total cost savings estimated at more that \$10M. Other facilities being considered for elimination include the Central Waste Storage Facility, Failed Melter Storage Facility, Spent Melter Facility and the Encapsulation Facility. These total a potential savings of more that \$9M.

Other

- ORP completed its re-organization with assignment of Federal Project Managers (FPMs) to each WTP facility:
 - Bob Reid – Pretreatment Facility
 - Pete Furlong – LAW Vitrification Facility
 - John Clark – HLW Vitrification Facility
 - Bruce Nicoll – Balance of Facilities
 - Mark Ramsay – Analytical Laboratory Facility
- 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.

III. Significant Planned Actions in the Next Six Months:

- Start PT construction in November
- Start structural steel in LAW construction
- Start structural steel in HLW construction
- Finalize and begin implementation of 2+2 planning
- Start switchgear building construction (BOF)

IV. Issues:

- Permitting impacts associated with 2+2 path forward.

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.

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:

- Issued approved W-520 Project Execution Plan – September 2002
- Submitted PDSA/PSSD for Project W-464 to ORP for approval – September 2002
- Completed Project W-464 Preliminary Design – September 2002
- Prepared Melter Disposal Project Design Criteria – September 2002
- The draft Supplemental EIS was completed – October 2002

III. Significant Planned Actions in the Next Six Months:

- Second meeting with Ecology to discuss a waiver for a liner for the planned melter disposal trench – TBD

- Meet with Ecology to reach an understanding on 80% design of critical systems in support of HFFACO Change Request M-20-01-01 milestones M-20-56 and M-20-57 – TBD
- Complete IHLW Module I Siting Study – December 2002
- DOE approval to start Project W-464 detailed design – February 2003
- DOE approval of PDSA and PSSD for Project W-464 – February 2003

IV. Issues

- Significant modifications to the design and Part B Permit application will be required to adapt to the Integrated Disposal Facility concept. Achieving 80% of detailed design for critical systems and submitting the Part B Permit per the TPA schedule will be difficult, but should be possible.

Backup Information: Cost and Schedule Variance Analysis

**TOTAL RIVER PROTECTION PROJECT
ALL DIRECT FUNDS (CHG & ORP/PNNL)
PERFORMANCE MEASUREMENT - FYTD - ALL FUND TYPES**

DOLLARS IN THOUSANDS

1. TITLE: River Protection Project	2. REPORTING PERIOD: 22-Jul-02 30-Sep-02	3. HQ NUMBER:
4. PARTICIPANT NAME AND ADDRESS: CH2M HILL Hanford Group P. O. Box 1500 Richland, Washington 99352-1505	5. COST PLAN DATE: 01-Oct-01 to 30-Sep-02	6. START DATE: 01-Oct-00
		7. FINISH DATE: 30-Sep-06

PBS / TITLE	REPORTING PERIOD			CUMULATIVE FISCAL YEAR TO DATE							BUDGET AT COMPLETION (BAC)
	Budgeted Cost		Actual Cost Work Performed	Budgeted Cost		Actual Cost Work Performed	Variance				
	Work Scheduled	Work Performed		Work Scheduled	Work Performed		Schedule	Schedule %	Cost	Cost %	
TW03 STORE WASTE	21,520.3	23,964.6	19,036.2	194,896.5	190,065.5	181,416.4	(4,831.0)	-2.5%	8,649.1	4.6%	194,896.5
TW04 RETRIEVE WASTE	6,645.1	5,416.1	8,571.8	52,682.0	50,008.1	47,819.5	(2,673.9)	-5.1%	2,188.6	4.4%	52,682.0
W-211 - Initial Tank Retrieval System - Line Item	1,871.2	1,618.4	1,109.1	10,865.0	10,202.2	7,600.3	(662.8)	-6.1%	2,601.9	25.5%	10,865.0
W-314 - Tank Farm Restoration and Safe Operations	2,878.4	5,105.6	4,017.9	43,618.9	40,356.0	42,579.8	(3,262.9)	-7.5%	(2,223.8)	-5.5%	43,618.9
TOTAL RETRIEVE WASTE	11,394.7	12,140.1	13,698.8	107,165.9	100,566.3	97,999.6	(6,599.6)	-6.2%	2,566.7	2.6%	107,165.9
TW06 TREAT WASTE	656.8	(2,971.2)	933.3	7,983.2	4,435.3	2,630.8	(3,547.9)	-44.4%	1,804.5	40.7%	7,983.2
W-519 - Privatization Infrastructure - Line Item	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%	0.0	0.0%	0.0
W-530 - Waste Treatment & Immobilization Plant	0.0	0.0	(0.6)	0.0	0.0	(958.0)	0.0	0.0%	958.0	0.0%	0.0
TOTAL TREAT WASTE	656.8	(2,971.2)	932.7	7,983.2	4,435.3	1,672.8	(3,547.9)	-44.4%	2,762.5	62.3%	7,983.2
TW09 DISPOSE WASTE	1,535.3	1,183.4	2,124.0	13,737.4	12,805.1	10,550.4	(932.3)	-6.8%	2,254.7	17.6%	13,737.4
TW10 MANAGE PROJECT	7,200.6	7,133.2	8,444.1	71,112.2	71,032.2	80,148.9	(80.0)	-0.1%	(9,116.7)	-12.8%	71,112.2
TW11 CLOSE FACILITIES	4,063.5	4,799.7	4,631.1	25,023.2	24,076.5	19,569.9	(946.7)	-3.8%	4,506.6	18.7%	25,023.2
PED PROJECT ENGINEERING & DESIGN (W-464 HLW Interim Storage Facility - Line Item)	(32.3)	18.0	346.5	3,304.0	3,304.0	2,425.7	0.0	0.0%	878.3	26.6%	3,304.0
RPP TOTAL EXPENSE/CENRTC/GPP	41,621.6	39,525.8	43,740.5	365,434.5	352,422.7	342,135.9	(13,011.8)	-3.6%	10,286.8	2.9%	365,434.5
RPP TOTAL LINE ITEM	4,717.3	6,742.0	5,472.9	57,787.9	53,862.2	51,647.8	(3,925.7)	-6.8%	2,214.4	4.1%	57,787.9
RPP TOTAL	46,338.9	46,267.8	49,213.4	423,222.4	406,284.9	393,783.7	(16,937.5)	-4.0%	12,501.2	3.1%	423,222.4

W03 STORE WASTE

PERFORMANCE SUMMARY

Cumulative Performance – Store Waste					
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>
HANDI	\$192,510	\$187,679	\$179,559	-2.5%	4.3%

ACCOMPLISHMENTS

Completed *Tri-Party Agreement* Milestone M-23-25B, "Complete the Installation of Liquid Observation Wells (LOWs) and Begin Weekly Liquid Observation Monitoring for Four SSTs," on September 3, 2002. This effort supports SST Facility Upgrade Project activities.

Completed *Tri-Party Agreement* Milestone M-44-00A, "Complete Delivery of Information Requirements as Identified in the Annually Submitted WIRD," on September 30, 2002. This effort supports Capacity and Inventory Project Management activities.

Completed *Tri-Party Agreement* Milestone M-44-15F, "Complete Characterization Deliverables Consistent with WIRD Developed for FY 2000," on September 30, 2002. This effort supports Capacity and Inventory Project Management activities.

Completed *Tri-Party Agreement* Milestone M-44-16F, "Complete Input of Characterization Information for HLW Tanks for which Sampling and Analysis were Completed for WIRD," on September 30, 2002. This effort supports Capacity and Inventory Project Management activities. Completed *Tri-Party Agreement* Milestone M-46-00I, "Double-Shell Tank Space Evaluation," on September 23, 2002. This effort supports Data Analysis activities.

Completed *Tri-Party Agreement* Milestone M-48-02E, "Submit to Ecology a Report Assessing Technology Development," on September 23, 2002. This effort supports DST Integrity Assessment Reports activities.

Completed *Tri-Party Agreement* Milestone M-48-10, "Submit Results of (4) DST's not Previously Examined," on September 23, 2002. This effort supports DST Integrity Assessment Reports activities. Completed Consent Decree Milestone D-001-12V, "The Percentage of Pumpable Liquid Remaining to be Removed (Will be Equal to or Less Than) 18% of Total Liquid," on September 30, 2002. This effort supports Interim Stabilization Project Execution and Control activities.

Completed Consent Decree Milestone D-001-13, "Initiate Pumping Tanks U-111, S-109, S-112, S-101, and S-107," on September 24, 2002. This effort supports Interim Stabilization activities. Completed PBI ORP-05-3, "Complete Initiation of Pumping of all Single-Shell Tanks (SSTs) (Except Tank C-103) Listed in the Consent Decree No. CT-99-5076-EFS," on September 30, 2002. This effort supports SST Interim Stabilization activities.

Completed PBI ORP-05-4, "Complete Pumping Requirements to Remove Sufficient Liquid from SSTs so that 18% or Less of Pumpable Liquid is Remaining in Accordance with the Consent Decree No. CT-99-5076-EFS," on September 30, 2002. This effort supports SST Interim Stabilization activities.

Completed PBI ORP-10-3.a, "Submit a Written Report to ORP Which Meets the Requirements of Section 8 of the Administrative Order, Documenting Results of Ultrasonic Testing of the Primary Tank Walls in Four DSTs not Previously Examined by Ultrasonic Testing," on September 23, 2002. This effort supports DST Integrity Assessment Reports activities.

Completed PBI ORP-15-2, "Safety Basis Implementation," on September 30, 2002. This effort support Corporate Performance (Comprehensive) activities.

Completed PBI ORP-15-3, "Engineering Excellence-Tank Farm Operations," on September 30, 2002. This effort supports Corporate Performance (Comprehensive) activities.

Completed PBI ORP-15-4, "Quality Assurance," on September 30, 2002. This effort supports Corporate Performance (Comprehensive) activities.

Completed SSPBI ORP-17-12, "Installation of Three (3) Raw Water Totalizers," on September 25, 2002. This effort supports FY 2001 Deferred Work Scope activities.

Completed SSPBI ORP-17-14, "Complete Eighteen (18) Tank Farms, Five (5) DCRTs, and Two (2) Facilities Electrical Circuit Verification Elementary Drawings," on September 25, 2002. This effort supports FY 2001 Deferred Work Scope activities.

Completed SSPBI ORP-19-Q, "Complete the Air Lift Circulator Mixing Evaluation on Tank AY-102," on September 25, 2002. This supports DST Caustic Addition activities.

Completed SSPBI ORP-27-1, "Complete Ultrasonic Testing (UT) Reinspection of Double-Shell Tanks (DSTs) AP-108," on September 19, 2002. This effort supports DST Integrity Project High Priority Caustic Additions, Video Inspections, and Ultrasonic Testing Inspections activities.

Completed SSPBI ORP-27-3, "Complete the Preparations to Make the Synthetic Aperture Focusing Technique/Tandem-Synthetic Aperture Focusing Technique (SAFT/T-SAFT) Ultrasonic Inspection Tool Ready for Deployment in a Double Shell Tank (DST)," on September 30, 2002. This effort supports DST Integrity Project High Priority Caustic Additions, Video Inspections, and Ultrasonic Testing Inspections activities.

Completed SSPBI ORP-27-4, "Complete Video Inspections of the Following DSTs: AN-101, AN-102, AN-103, AN-104, AN-106, AN-107, AP-107, AP-108, AW-103, and AW-104," on September 26, 2002. This effort supports DST Integrity Project High Priority Caustic Additions, Video Inspections, and Ultrasonic Testing Inspections activities.

Completed the following activities in support of Authorization Basis:

- Received Progress Review from ORP regarding the Unreviewed Safety Question (USQ) Process Improvement Activities following the Special Report Order from ORP.
- Received approval from ORP regarding the resolution of USQ TF-02-0712 for 241-SX Tank Farm Ventilation Stack Continuous Air Monitor Interlock System.
- Submitted a draft of the Preliminary Documented Safety Analysis to support the Tank 241-C-104 Crawler to ORP.
- Submitted the proposed "Maintenance" chapter of the TFC Standards/Requirements Identification Document to ORP for their review and approval.
- Received ORP approval of the mixing of incompatible material – tank pressurization accident amendment and closure of the USQ TF-99-0676 pertaining to the inability to measure High-Efficiency Particulate Air (HEPA) filter efficiency in Double Container Receiver Tanks (DCRT).
- Received approval from ORP for the "Calendar Year 2001 Annual Update of Tank Farms Final Safety Analysis Report (FSAR)" and the "Fiscal Year 2001 Annual Unreviewed Safety Question Report."
- Implemented the ORP approved Safety Basis amendment to USQ TF-99-0676 on DCRT HEPA Testing.

Completed Tank Monitoring and Control System (TMACS) connections and testing at Catch Tanks TX-302B and TX-302C, including testing of the new Computer Interface Unit on September 26, 2002. This installation includes the first wireless data link to be used in tank farms to transmit liquid level data to TMACS. This effort supports SST Facility Upgrade Projects activities.

Completed the following activities in support of DST Facility Upgrade Projects:

- Fabrication, pressure testing, and inspection of three new jumpers for A417 Catch Tank pumping.
- AW Flush Pit piping and the AW06A Jumper installation in the valve pit.
- Removal of the Standard Hydrogen Monitoring System in the AZ Tank Farm.
- Installation and testing at 242-T of the Computer Automated Surveillance System to TMACS.

SCHEDULE VARIANCE

Description and Cause: The unfavorable schedule variance (-\$4.8M; -2.5%) is within the reporting threshold.

Impact: No impact.

Corrective Action: None required.

COST VARIANCE

Description and Cause: The favorable cost variance (\$8.1M; 4.3%) is within the reporting threshold.

Impact: No impact.

Corrective Action: None required.

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	\$106,719	\$100,120	\$95,346	-6.2%	4.8%

ACCOMPLISHMENTS

Completed *Tri-Party Agreement* Milestone M-45-02K, "Submit Annual Update of SST Retrieval Sequence Document," on September 23, 2002. This effort supports Retrieve and Dispose Tank Farms Program activities.

Completed PBI ORP-29-6, "Develop a Target Baseline," on September 30, 2002. This effort supports Mission Analysis and Technology Integration activities.

Completed PBI ORP-01.2.a, "Complete Installation of the Master Pump Shutdown System," on September 30, 2002. This effort supports Project W-314, "Tank Farm Restoration and Safe Operations" activities.

Completed PBI ORP-01-2.b, "200 East Waste Transfer System Upgrades: New AZ Valve Pit, Lines SNL-3150 and SLL-3160 Acceptance Test Procedures (ATPs) (Pressure Boundary Testing) Lines SN-630, SN-634, SN-636, and SN-637 ATPs (Pressure Boundary Testing)," on September 30, 2002. This effort supports Project W-314, "Tank Farm Restoration and Safe Operations" activities.

Completed the following activities in support of Project W-314, "Tank Farm Restoration and Safe Operations:"

- Phase 1 AW Upgrades - AW-A Pit upgrades.
- Phase 1 AZ Upgrades - Punch list activities.
- Phase 1 AY Upgrades - Punch list open items.
- Phase 1 AN Farm Upgrades - AN-01A and AN-04A Pit upgrades.
- Phase 1 Startup and Testing - AW-B Valve Pit turnover and released the Operational Test Report and Acceptance for Beneficial Use and completed the MPS Plan of Action.
- Phase 2 Startup and Testing – AN HVAC Plan of Action.
- Phase 2 AN Upgrades – Awarded the AN HVAC skid contract to Premier Technology and completed the AN Farm Plant Forces pit upgrades.
- Phase 2 AP Upgrades – Completed the definitive design proposals.

Completed the following activities in support of Project W-211, "Initial Tank Retrieval Systems:"

- Awarded a contract to Washington Group International for construction of the AP-02A and AP-02D Pit Upgrades (fixed price contract for the work within the AP Farm for the TFC/WTP Transfer System). Awarded a contract and issued Notice to Proceed to Apollo

Sheet Metal and Plumbing for the TFC/WTP Waste Transfer System construction contract (AP Farm to WTP interface point).

- Received Critical Decision-3 approval for construction of the AN Retrieval System Infrastructure and AN-101 Retrieval System.
- Received bids and completed technical evaluations for the fabrication of the AN-101 and AZ-102 mixer pumps. Continued excavation activities and initiated mechanical and electrical activities for the construction of the AZ-101 Retrieval System. Completed insulation and jacketing activities, and initiated carbon steel welding for the fabrication of the transfer system piping.
- Kicked-off the Independent Cost Estimate review with ORP on the updated project cost estimate.

SCHEDULE VARIANCE

RETRIEVE WASTE – EXPENSE

Description and Cause: The unfavorable schedule variance (-\$2.7M; -5.7%) is within the reporting threshold.

Impact: No impact.

Corrective Action: None required

RETRIEVE WASTE – CAPITAL PROJECTS

Project W-211 - Initial Tank Retrieval Systems

Description and Cause: The unfavorable schedule variance (-\$0.7; -5.6%) is within the reporting threshold.

Impact: No impact.

Corrective Action: None required.

Project W-314 - Tank Farm Restoration and Safe Operations

Description and Cause: The unfavorable schedule variance (-\$3.3M; -6.8%) is within the reporting threshold.

Impact: No impact.

Corrective Action: None required.

COST VARIANCE

RETRIEVE WASTE – EXPENSE

Description and Cause: The favorable cost variance (\$3.9M; 8.8%) is within the reporting threshold.

Impact: No impact.

Corrective Action: None required.

RETRIEVE WASTE – CAPITAL PROJECTS

Project W-211 - Initial Tank Retrieval Systems

Description and Cause: The favorable cost variance (\$2.8M; 25.1%) is within the reporting threshold.

Impact: No impact.

Corrective Action: None required.

Project W-314 - Tank Farm Restoration and Safe Operations

Description and Cause: The unfavorable cost variance (-\$2.0M; -4.4%) is within the reporting threshold.

Impact: No 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	\$1,951	\$1,951	\$494	0.0%	74.7%

ACCOMPLISHMENTS

No significant information to report.

SCHEDULE VARIANCE

TREAT WASTE – EXPENSE

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

Impact: No impact.

Corrective Action: None required.

TREAT WASTE – CAPITAL PROJECTS

Project W-519 - Privatization Phase I Infrastructure Support

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

Impact: No impact.

Corrective Action: None required.

Project W-530 - Waste Treatment and Immobilization Plant

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

Impact: No impact.

Corrective Action: None required.

COST VARIANCE

TREAT WASTE – EXPENSE

Description and Cause: The favorable cost variance (\$0.5M; 25.6%) is within the reporting threshold.

Impact: No impact.

Corrective Action: None required.

TREAT WASTE – CAPITAL PROJECTS

Project W-519 - Privatization Phase I Infrastructure Support

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

Impact: No impact.

Corrective Action: None required.

Project W-530 - Waste Treatment and Immobilization Plant

Description and Cause: The favorable cost variance (\$1.0M; 0.0%) is within the reporting threshold.

Impact: No 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	\$12,491	\$11,558	\$10,449	-7.5%	9.6%

ACCOMPLISHMENTS

Completed PBI ORP-04-5, "Issue Project W-520 Execution Plan," on September 11, 2002. This effort supports Dispose Immobilized Low Activity Waste activities.

SCHEDULE VARIANCE

DISPOSE WASTE – EXPENSE

Description and Cause: The unfavorable schedule variance (-\$0.9M; -8.6%) is the result of delays in completing work to support Waste Storage and Disposal due to difficulties encountered in scheduling the contractor to perform nondestructive examination of 248 wood boxes required for repackaging of low-level waste.

Impact: The work scope will not be completed in FY 2002.

Corrective Action: A BCR will be processed to defer the uncompleted work scope to FY 2003.

DISPOSE WASTE – CAPITAL PROJECTS

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

Description and Cause: The unfavorable schedule variance (-\$0.0M; -0.3%) is within the reporting threshold.

Impact: No impact.

Corrective Action: None required.

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

Description and Cause: The unfavorable schedule variance (-\$0.0M; -5.5%) is within the reporting threshold.

Impact: No impact.

Corrective Action: None required.

COST VARIANCE

DISPOSE WASTE – EXPENSE

Description and Cause: The favorable cost variance (\$0.4M; 3.9%) is within the reporting threshold.

Impact: No impact.

Corrective Action: None required.

DISPOSE WASTE – CAPITAL PROJECTS

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

Description and Cause: The favorable cost variance (\$0.5M, 36.6%) is within the reporting threshold.

Impact: No impact.

Corrective Action: None required.

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

Description and Cause: The favorable cost variance (\$0.2M; 35.1%) is within the reporting threshold.

Impact: No impact.

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	\$68,641	\$68,561	\$65,964	-0.1%	3.8%

ACCOMPLISHMENTS

Completed PBI ORP-15-1, "Baseline Management," on September 30, 2002. This effort supports Corporate Performance (Comprehensive) activities.

Completed the following activities in support of TFC Baseline Development and Control:

- Submitted the Critical Path Analysis Monthly Report to ORP.
- Submitted the CH2M HILL August Monthly Performance Report to ORP.

Completed the following activities in support of Finance:

- Submitted the Contract Funds Status Report to ORP.
- Submitted the Justification for Provisional Payments of Fee to ORP.
- Submitted the Departmental Integrated Standardized Core Accounting System (DISCAS) report to DOE.

Completed the following activities in support of Human Resources:

- Submitted additional premium funds and plan changes based on mission requirements to ORP for approval.

SCHEDULE VARIANCE

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

Impact: No impact.

Corrective Action: None required.

COST VARIANCE

Description and Cause: The favorable cost variance (\$2.6M; 3.8%) is within the reporting threshold.

Impact: No 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	\$24,414	\$23,466	\$19,566	-3.9%	16.6%

ACCOMPLISHMENTS

Completed PBI ORP-08-1, "Establish Acceptance Criteria for Transferring 242-T Evaporator for Deactivation and Demolition (D&D)," on September 30, 2002. This effort supports Facility Stabilization activities.

Completed PBI ORP-13-5.b, "Complete Borehole Sampling at WMAs T/TX-TY in Accordance with the T/TX-TY Site-Specific Work Plan Addendum Submitted for M-45-54," on September 9, 2002. This effort supports Tank Farm-Closure Support activities.

Completed SSPBI ORP-28-3, "Complete ATCD Alternatives Generation and Analysis and Submit to ORP," on September 12, 2002. This effort supports Accelerated Tank Closure Demonstration Project activities.

Completed SSPBI ORP-28-4, "Complete ATCD Basis of Design and Submit to ORP," on September 30, 2002. This effort supports Accelerated Tank Closure Demonstration Project activities.

Completed the following activities in support of General Support Facilities:

- Replacement of the continuous air monitoring on portable exhauster POR-06 and functional test in the 244-AR Vault.
- Released the Operation Test Procedure on exhauster vent in the 244-AR Vault.
- Replacement of the ventilation butterfly valves and pressure testing in the 244-AR Vault.
- Received approval of the Administrative Interface Agreement for 242-T Evaporator endpoint criteria between CH2M HILL and Fluor Hanford, Inc.

SCHEDULE VARIANCE

Description and Cause: The unfavorable schedule variance (-\$0.9M; -3.9%) is within the reporting threshold.

Impact: No impact.

Corrective Action: None required.

COST VARIANCE

Description and Cause: The favorable cost variance (\$3.9M; 16.6%) is within the reporting threshold.

Impact: No impact.

Corrective Action: None required.

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	\$3,304	\$3,304	\$2,426	0.0%	26.6%

ACCOMPLISHMENT

Completed PBI ORP-03-3, "Submit Project W-464 Canister Storage Building (CSB) Final Safety Analysis Report (FSAR), Markup Preliminary Safety Analysis Report (PSAR), and Safety Analysis Report for Packaging (SARP) to ORP for Approval," on September 11, 2002. This effort supports Store Immobilized High Level Waste activities.

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; 0.0%) is within the reporting threshold.

Impact: No 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 (\$0.9M; 26.6%) is within the reporting threshold.

Impact: No impact.

Corrective Action: None required.



**Critical Path Analysis Reporting
Tri-Party Agreement Milestones**

September 2002

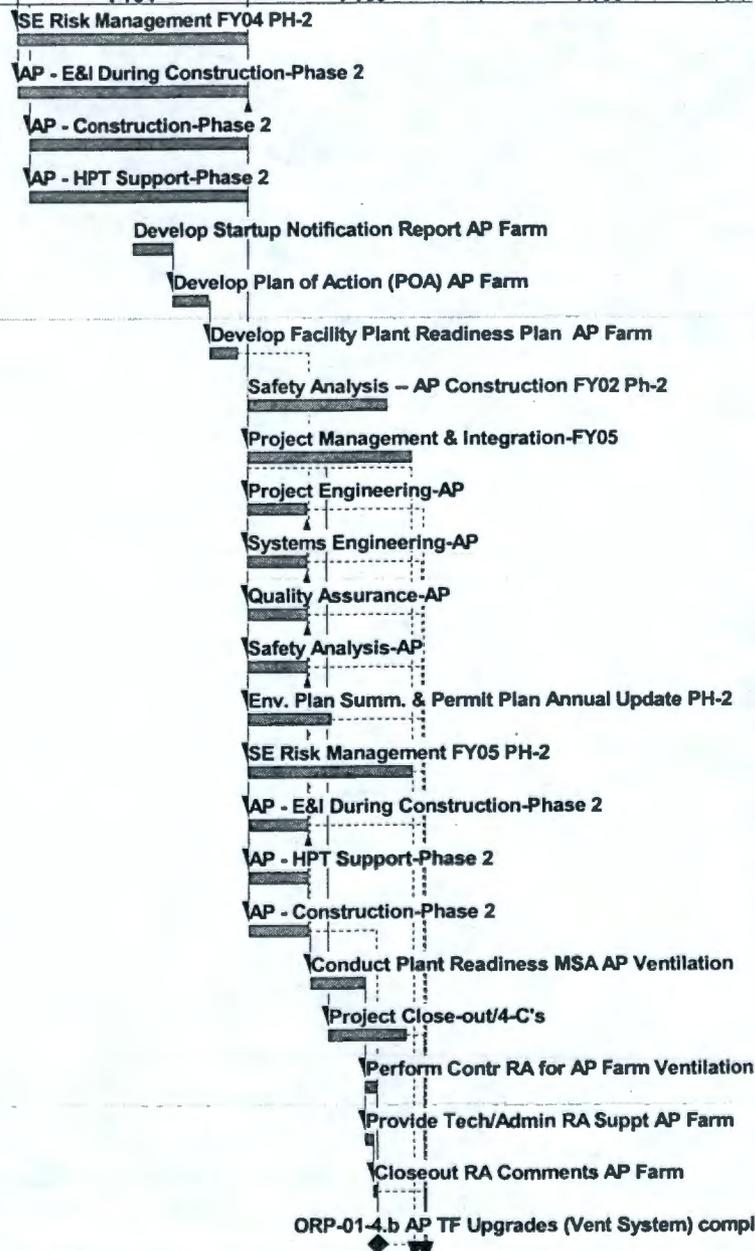


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Critical Path Analysis Reporting

- **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	Timeline									
									FY01	FY02	FY03	FY04	FY05	FY06	FY07			
SW25100S14	1	253	253	01OCT03	30SEP04	12	H	C										
SW25P4510A	1	253	253	01OCT03	30SEP04	126	H	C										
SW25P4510B	1	239	239	21OCT03	30SEP04	22	H	C										
SW25P45116	1	239	239	21OCT03	30SEP04	22	H	C										
SW25P95A	1	45	45	01APR04*	03JUN04	97	H	C										
SW25P95B	1	40	40	04JUN04	30JUL04	97	H	C										
SW25P95D	1	30	30	02AUG04	13SEP04	97	H	C										
SW251002BX	1	149	149	01OCT04*	05MAY05	126	H	C										
SW25100A51	1	176	176	01OCT04	14JUN05	22	H	C										
SW25100Q0B	1	62	62	01OCT04	31DEC04	126	H	C										
SW25100Q0D	1	62	62	01OCT04	31DEC04	126	H	C										
SW25100R0B	1	62	62	01OCT04	31DEC04	126	H	C										
SW25100R1B	1	62	62	01OCT04	31DEC04	126	H	C										
SW25100S06	1	89	89	01OCT04	09FEB05	99	H	C										
SW25100S15	1	176	176	01OCT04	14JUN05	12	H	C										
SW25P4510B	1	62	62	01OCT04	31DEC04	126	H	C										
SW25P45117	1	62	62	01OCT04	31DEC04	22	H	C										
SW25P451A2	1	62	62	01OCT04	31DEC04	22	H	C										
SW25P95E	1	60	60	04JAN05	29MAR05	22	H	C										
SW25100U1	1	84	84	01FEB05	31MAY05	22	H	C										
SW25P97A	1	15	15	30MAR05	19APR05	22	H	C										
SW25P97B	1	10	10	30MAR05	12APR05	51	H	C										
SW25P97C	1	5	5	13APR05	19APR05	51	H	C										
SW2597CM	2	0	0		19APR05*	72	H	C										



Start Date 01OCT99
 Finish Date 28SEP50
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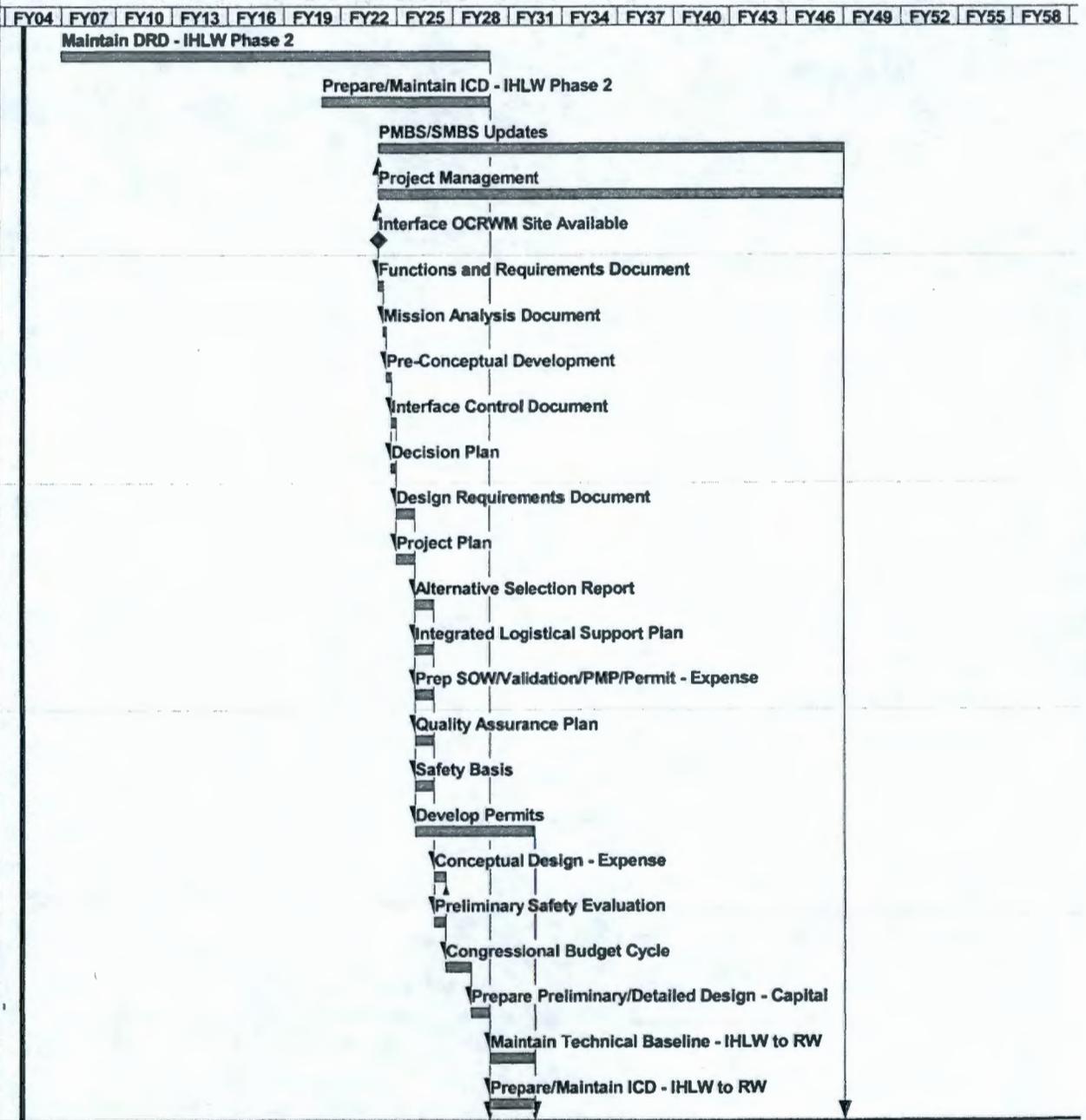
Early Bar
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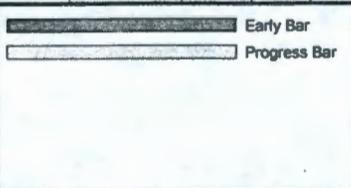
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Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	SRT5	SRT6
TH61030A1	1	5,793	5,793	01OCT04*	30SEP27	1,007	H	C
TH61030A2	1	2,268	2,268	01OCT18*	30SEP27	1,007	H	C
TH57010A1	1	6,296	6,296	01OCT21	28SEP46	1,007	H	C
TH57010A2	1	6,296	6,296	01OCT21	28SEP46	1,007	H	C
TH57020A1	1	0	0	01OCT21*		1,007	H	C
TH57020A2	1	62	62	01OCT21	31DEC21	1,007	H	C
TH57020A3	1	62	62	04JAN22	31MAR22	1,007	H	C
TH57020A4	1	64	64	01APR22	30JUN22	1,007	H	C
TH57020A5	1	64	64	01JUL22	30SEP22	1,007	H	C
TH57020A6	1	64	64	01JUL22	30SEP22	1,007	H	C
TH57020A7	1	251	251	03OCT22	29SEP23	1,007	H	C
TH57020A8	1	251	251	03OCT22	29SEP23	1,007	H	C
TH57010A3	1	252	252	02OCT23	30SEP24	1,007	H	C
TH57010A4	1	252	252	02OCT23	30SEP24	1,007	H	C
TH57060A1	1	252	252	02OCT23	30SEP24	1,007	H	C
TH57090A1	1	252	252	02OCT23	30SEP24	1,007	H	C
TH57090A2	1	252	252	02OCT23	30SEP24	1,007	H	C
TH57100A1	1	1,635	1,635	02OCT23*	29MAR30	1,007	H	C
TH57060A2	1	167	167	01OCT24	30MAY25	1,007	H	C
TH57090A3	1	167	167	01OCT24	30MAY25	1,007	H	C
TH57010A5	1	337	337	02JUN25	30SEP26	1,007	H	C
TH57060A3	1	252	252	01OCT26	30SEP27	1,007	H	C
TH57030A1	1	627	627	01OCT27	29MAR30	1,007	H	C
TH57030A2	1	627	627	01OCT27	29MAR30	1,007	H	C



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Critical Path M-090-00
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Date	Revision	Checked	Approved

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	SR15	SR16	FY01	FY02	FY03	FY04	FY05	FY06	FY07
SS23070B6	1	252	252	01OCT02	30SEP03	1	H	C			Provide Baseline/ Financial Control FY03				
SS23070J6	1	252	252	01OCT02	30SEP03	1	H	C			Provide ESH&Q Support FY03				
SS23070N5	1	252	252	01OCT02	30SEP03	0	H	C			Provide Project Management FY03				
SS23172D14	2	365	365	01OCT02	30SEP03	-139	H	C			Pump Tank A-101				
SS23070B7	1	252	252	01OCT03	29SEP04	1	H	C			Provide Baseline/ Financial Control FY04				
SS23070J7	1	252	252	01OCT03	29SEP04	1	H	C			Provide ESH&Q Support FY04				
SS23070N6	1	253	253	01OCT03	30SEP04	0	H	C			Provide Project Management FY04				
SS23178A1	1	10	10	01OCT03	14OCT03	-96	H	C			Walkdown for In-Tank Video/Prep Work Pkg A-101				
SS23178B1	1	242	242	15OCT03	29SEP04	-96	H	C			Evaluate SW Pumping Data A-101 FY03				
SS23178B3	1	15	15	30SEP04	20OCT04	-96	H	C			Prep/Aprpr Document & Update/Approve ECN A-101				
SS23178C1	1	15	15	21OCT04	10NOV04	-96	H	C			Prepare ECN for PICS/FGM Disconnect A-101				
SS23178D1	1	3	3	21OCT04	25OCT04	-69	H	C			Prepare ECN for Exhauster Disconnect A-101				
SS23178E1	1	3	3	21OCT04	25OCT04	-59	H	C			Prepare ECN for Dilution Sys Disconnect A-101				
SS23185B1	1	20	20	21OCT04	17NOV04	-91	H	C			PIt Isolation Design A-101				
SS23178E2	1	5	5	26OCT04	01NOV04	-59	H	C			Disconnect/Relocate Dilution System A-101				
SS23178C2	1	15	15	11NOV04	03DEC04	-96	H	C			Disconnect/Relocate PICS/FGM A-101				
SS23185B2	1	20	20	18NOV04	17DEC04	-91	H	C			Isolation Planning A-101				
SS23178D2	1	15	15	06DEC04	28DEC04	-96	H	C			Disconnect/Relocate Exhauster A-101				
SS23185B3	1	2	2	29DEC04	30DEC04	-96	H	C			Isolation Stage Equipment A-101				
SS23185B4	1	15	15	31DEC04	21JAN05	-96	H	C			Isolation Work A-101				
SS23185B5	1	20	20	24JAN05	18FEB05	-96	H	C			Isolation Complete Documentation A-101				
SS23070N6A	1	0	0		18FEB05*	-96	H	C			D-001-00 Complete IS of all 29 SST's				

Start Date 01OCT99
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 September 2002

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M-045-03C

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

September 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, testing, procurement, installation, and residual retrieval 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 September 2002

- Received Contract Mod 064 from ORP which replaced Performance Based Incentive ORP-20, Revision 1 with new PBI's for FY 2003-2006.

Key Project and Technical Issues

- Consent decree modifications are needed to allow retrieval to start prior to the completion of Interim Stabilization.

Key Near-term Activities

- Perform Riser Inspections
- Update and Issue Final Functions and Requirements Document
- Complete design

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

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	SRT5	SRT6								
									FY01	FY02	FY03	FY04	FY05	FY06	FY0	
TT28305CAZ	1	106	0	11MAR02A	30SEP02	1	H	C			S-112 Site Walkdown, Assessment & Work Planning					
TT28305DA	1	84	0	22APR02A	30SEP02	0	H	C			Develop Retrieval Instrumentation (S-112)					
TT28305B3	1	252	252	01OCT02	30SEP03	0	H	C			Saltcake Dissolution Project Management (S-112)					
TT28305BE1	1	124	124	01OCT02	31MAR03	1	H	C			Saltcake Dissolution Final Design (S-112)					
TT28305BX2	1	15	15	01OCT02	21OCT02	697	H				Saltcake Dissolution Contingency (S-112)					
TT28305DC	1	252	252	01OCT02	30SEP03	0	H	C			Deploy Retrieval Instrumentation (S-112)					
TT28310CT2	1	120	120	01OCT02*	25MAR03	255	H				Lab Analysis (S-112 Chem Add)					
TT28305CR	1	127	127	02APR03*	30SEP03	0	H	C			Saltcake Dissolution Startup & Readiness (S-112)					
TT28305CT3	1	85	85	02JUN03*	30SEP03	208	H				Perform Testing (S-112)					
TT28310CT3	1	85	85	02JUN03*	30SEP03	208	H				Perform Testing (S-112 Chem Add)					
TT28310C3	1	41	41	04AUG03*	30SEP03	213	H				Chemical Addition Startup & Readiness (S-112)					
TT28305CA4	2	40	40	22AUG03	30SEP03	0	H	C			Saltcake Dissolution Retrieval Operations S-112					
TT28305BX3	1	15	15	10SEP03	30SEP03	475	H				Saltcake Dissolution Contingency (S-112)					
TT28305B4	1	253	253	01OCT03	30SEP04	0	H	C			Saltcake Dissolution Project Management (S-112)					
TT28305CA6	1	213	213	01OCT03	04AUG04	0	H	C			Saltcake Dissolution Retrieval Operations S-112					
TT28305CR4	1	62	62	01OCT03	31DEC03	379	H				Saltcake Dissolution Startup & Readiness (S-112)					
TT28305CT4	1	253	253	01OCT03	30SEP04	208	H				Perform Testing (S-112)					
TT28305DD	1	253	253	01OCT03	30SEP04	0	H	C			Deploy Retrieval Instrumentation (S-112)					
TT28310C4	1	210	210	01OCT03	30JUL04	241	H				Chemical Addition Startup & Readiness (S-112)					
TT28310CT4	1	253	253	01OCT03	30SEP04	208	H				Perform Testing (S-112 Chem Add)					
TT28310P1	2	153	153	01MAY04*	30SEP04	0	H	C			Chemical Procurement S-112					
TT28310R2	2	57	57	05AUG04	30SEP04	0	H	C			Chemical Addition Retrieval Operations S-112					
TT28305BX4	1	15	15	10SEP04	30SEP04	237	H				Saltcake Dissolution Contingency (S-112)					

Start Date 01OCT99
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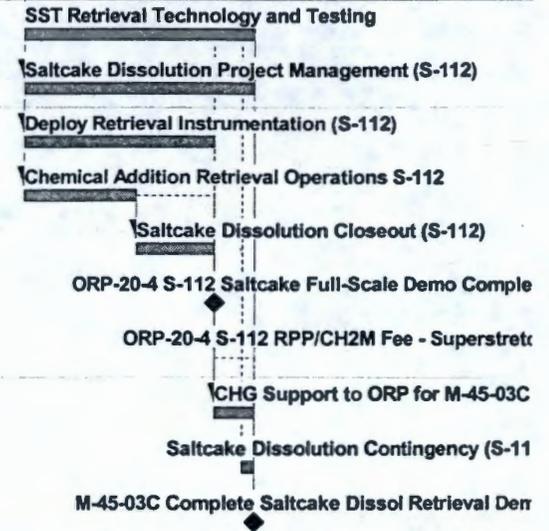
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 M-045-03C Activities
 September 2002

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Date	Revision	Checked	Approved

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	SRT5	SRT6											
									FY01	FY02	FY03	FY04	FY05	FY06	FY07				
TT27660BA	1	252	252	01OCT04*	30SEP05	0	H	C											
TT28305B5	1	252	252	01OCT04	30SEP05	0	H	C											
TT28305DE	1	208	208	01OCT04	29JUL05	0	H	C											
TT28310R3	1	124	124	01OCT04	31MAR05	0	H	C											
TT28305CA7	1	84	84	01APR05	29JUL05	0	H	C											
TT28305CAN	2	0	0		31JUL05*	0	H	C											
TT28305F4	2	1	1	31JUL05	31JUL05	61	H	C											
TT28305CAG	1	44	44	01AUG05	30SEP05	0	H	C											
TT28305BX5	1	15	15	12SEP05	30SEP05	0	H	C											
TT28305CA8	1	0	0		30SEP05*	0	H	C											



Start Date 01OCT99
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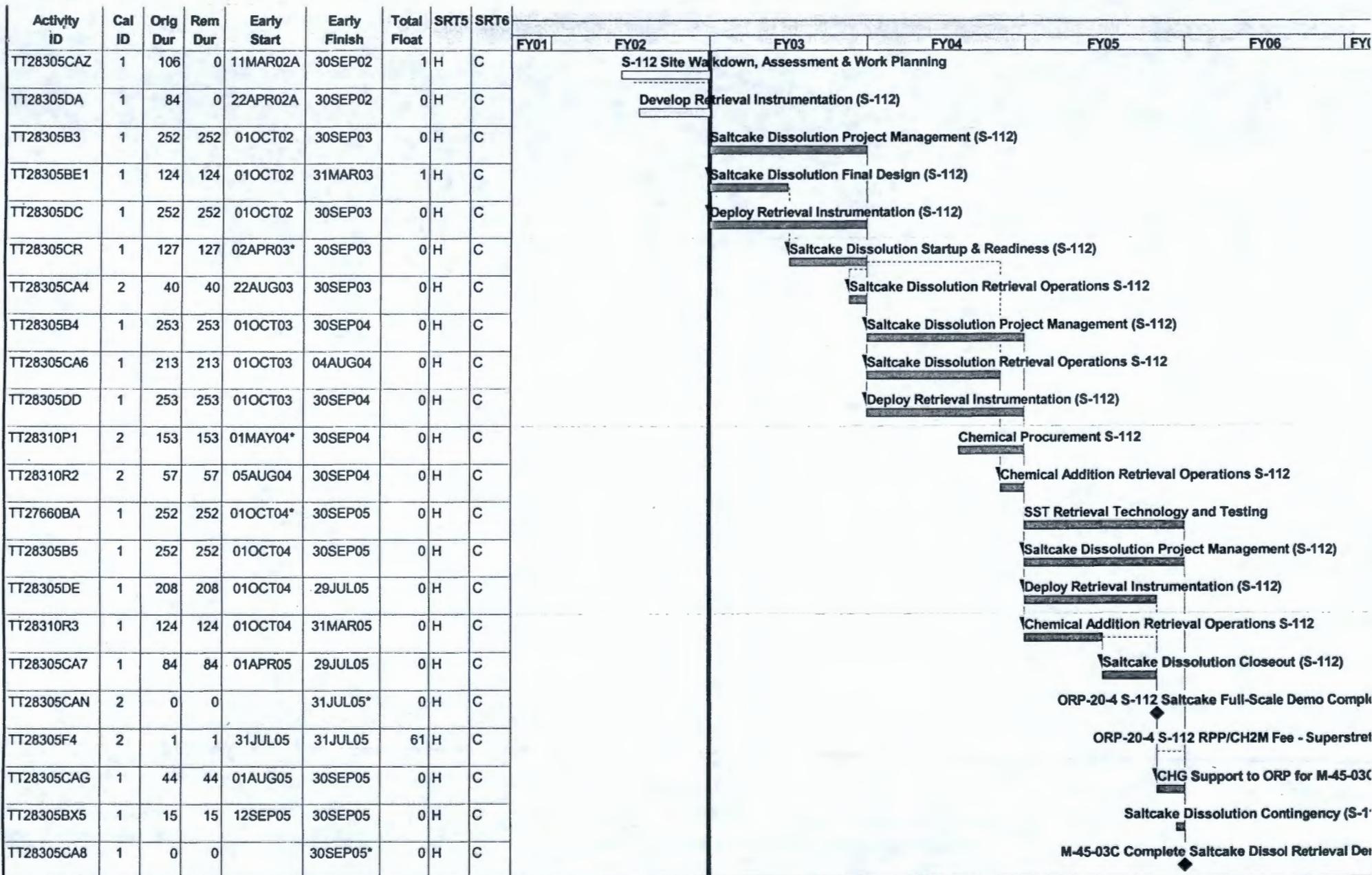
M-045-03C Activities
 September 2002

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Date	Revision	Checked	Approved

Critical Path

- Hanford Federal Facility Agreement and Consent Order M-045-03D is the only milestone on the September 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.



Start Date 01OCT99
 Finish Date 28SEP50
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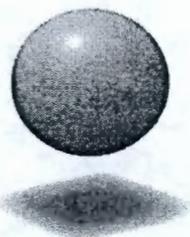
Date	Revision	Checked	Approved



M-045-03F

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

September 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 2008.

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 design, construction, testing, planning, training, and retrieval of tank C-104 waste into tank AY-101. The September 2002 critical path indicates that completion of milestone M-045-03F is anticipated on August 22, 2008.

Major Accomplishments for September 2002

- (MRS) Issued Mobile Retrieval System (MRS) In-Tank Vehicle and Umbilical Management Subsystems Limited Cold Test Plan and Procedure, RPP-12295, Rev.1.
- (MRS) Completed MRS In-Tank Vehicle Limited Cold Test at the Cold Test Facility.
- (MRS) Performed MRS Lower Module Development Tests at the 306E Facility.
- (MRS) Performed Factory Acceptance Test at NESL on MRS Balance of System.
- Updated C-104 Acquisition Plan, RPP-8789.
- Submitted Final Evaluation Report on Use of Modified Saltwell Exhauster for Tank C-104 Ventilation.
- Issued Draft Preliminary Documented Safety Analysis (PDSA), RPP-8738, Rev.1.
- Issued Revised Project Definition Criteria (PDC), RPP-6844.
- Submitted C-104 CD-2 Package to ORP.
- Completed Risk-Based Contingency Analysis on Preliminary Design Report (PDR).

Key Project and Technical Issues

No key project or technical issues at this time.

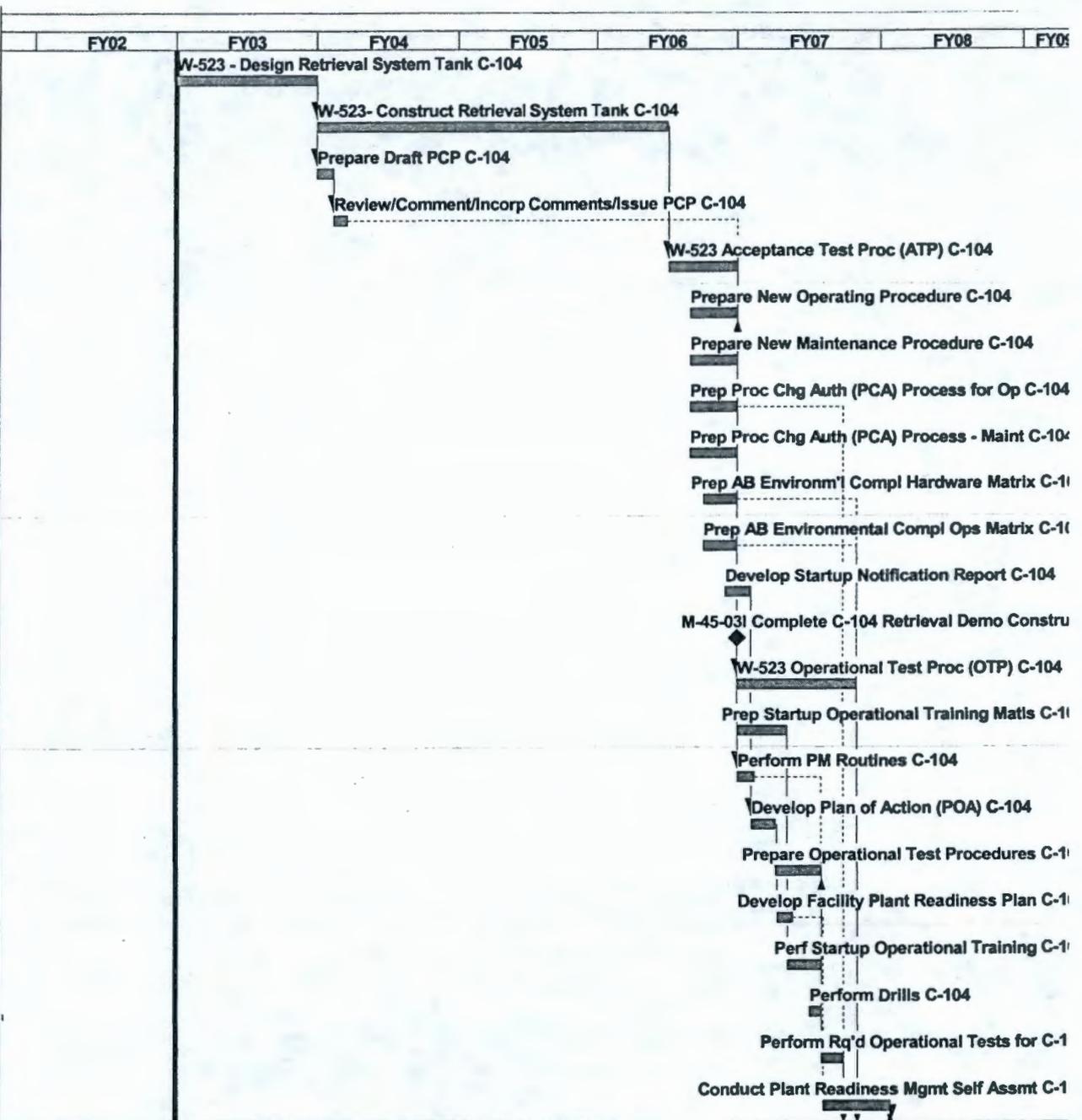
Key Near-Term Activities

- Issue Mobile Retrieval System (MRS) Full System Design Review Report, RPP-12023.
- (MRS) Issue Preliminary Fire Hazards Analysis for C-104, RPP-8623, Rev.1.
- (MRS) Assemble Fluor Hanford (FH) Lower Module at Cold Test Facility.
- (MRS) Perform FH Ultrasonic Decontamination Unit Development Tests at 306E Facility.
- (MRS) Assemble FH Ultrasonic Decontamination Unit at Cold Test Facility.
- (MRS) Receive Non-Entry Systems, Ltd. (NESL) Balance of System at Hanford.
- (MRS) Assemble NESL Balance of System at Cold Test Facility.
- (MRS) Complete Functional Test of Integrated MRS System.
- Issue Final C-104 Functions and Requirements (F&R) to Ecology for Initiation of Final Design.
- Receive CD-2 Approval of Performance Baseline from ORP.
- Prepare Draft C-104 Process Control Plan.
- Initiate C-104 Final Design.
- Complete C-104 Advanced Preliminary Design Activities.

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

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	SRT5	SRT6
TT29J40A3	1	252	252	01OCT02*	30SEP03	10,282	H	C
TT29J50A1	1	629	629	01OCT03*	31MAR06	10,282	H	C
TT30J20A	1	30	30	01OCT03*	11NOV03	11,101	H	
TT30J20B	1	22	22	12NOV03*	15DEC03	11,101	H	
TT29J50B	1	127	127	03APR06*	29SEP06	10,282	H	C
TT29J60A1	1	84	84	02JUN06*	29SEP06	10,397	H	C
TT29J60A2	1	84	84	02JUN06*	29SEP06	10,397	H	C
TT29J60A3	1	84	84	02JUN06*	29SEP06	10,397	H	C
TT29J60A4	1	84	84	02JUN06*	29SEP06	10,397	H	C
TT29J60F1	1	62	62	05JUL06*	29SEP06	10,490	H	
TT29J60F2	1	62	62	05JUL06*	29SEP06	10,490	H	
TT29J83A	1	45	45	01SEP06*	03NOV06	10,335	H	C
TT29J50C	1	0	0		29SEP06	10,282	H	C
TT29J50D	1	208	208	02OCT06*	30JUL07	10,282	H	C
TT29J60B1	1	84	84	02OCT06*	01FEB07	10,282	H	C
TT29J60E	1	30	30	02OCT06*	10NOV06	10,397	H	C
TT29J83B	1	40	40	06NOV06*	05JAN07	10,335	H	C
TT29J60D1	1	84	84	02JAN07*	30APR07	10,282	H	C
TT29J83D	1	30	30	08JAN07*	16FEB07	10,335	H	C
TT29J60B2	1	61	61	02FEB07*	30APR07	10,282	H	C
TT29J60C	1	20	20	03APR07*	30APR07	10,282	H	C
TT29J60D2	1	42	42	01MAY07*	28JUN07	10,282	H	C
TT29J83E	1	120	120	04MAY07*	23OCT07	10,282	H	C

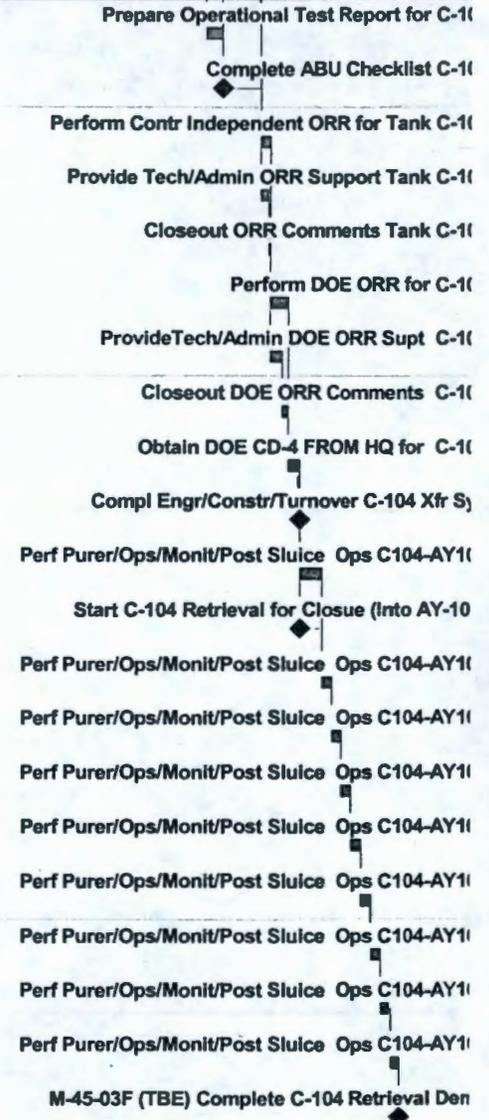


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Finish Date	28SEP50	<input type="checkbox"/> Progress Bar
Data Date	01OCT02	
Run Date	13NOV02 09:27	

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 M-045-03F Activities
 September 2002
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Date	Revision	Checked	Approved

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	SRT5	SRT6									
									FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	
TT29J60D3	1	21	21	29JUN07*	30JUL07	10,282	H	C									
TT29J60G	1	0	0		30JUL07	10,282	H	C									
TT29J80A	1	15	15	24OCT07*	13NOV07	10,282	H	C									
TT29J80B	1	10	10	24OCT07*	06NOV07	10,282	H	C									
TT29J80C	1	5	5	07NOV07*	13NOV07	10,282	H	C									
TT29J90A	1	25	25	14NOV07*	20DEC07	10,282	H	C									
TT29J90B	1	15	15	14NOV07*	06DEC07	10,282	H	C									
TT29J90C	1	10	10	07DEC07*	20DEC07	10,282	H	C									
TT29J90D	1	15	15	21DEC07*	15JAN08	10,282	H	C									
TT29J90DM	1	0	0		15JAN08	10,282	H	C									
TT30J29AA	1	35	35	16JAN08*	05MAR08	10,282	H	C									
TT30J29AAM	2	0	0	16JAN08*		14,959	H	C									
TT30J29AB	1	15	15	06MAR08*	26MAR08	10,282	H	C									
TT30J29AC	1	15	15	27MAR08*	16APR08	10,282	H	C									
TT30J29AD	1	15	15	17APR08*	07MAY08	10,282	H	C									
TT30J29AE	1	15	15	08MAY08*	29MAY08	10,282	H	C									
TT30J29AF	1	15	15	30MAY08*	19JUN08	10,282	H	C									
TT30J29AG	1	15	15	20JUN08*	11JUL08	10,282	H	C									
TT30J29AH	1	15	15	14JUL08*	01AUG08	10,282	H	C									
TT30J29AJ	1	15	15	04AUG08*	22AUG08	10,282	H	C									
TT30J29AJP	2	0	0		22AUG08	15,262	H	C									



Start Date 01OCT89
 Finish Date 28SEP50
 Data Date 01OCT02
 Run Date 13NOV02 09:27

Early Bar
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 M-045-03F Activities
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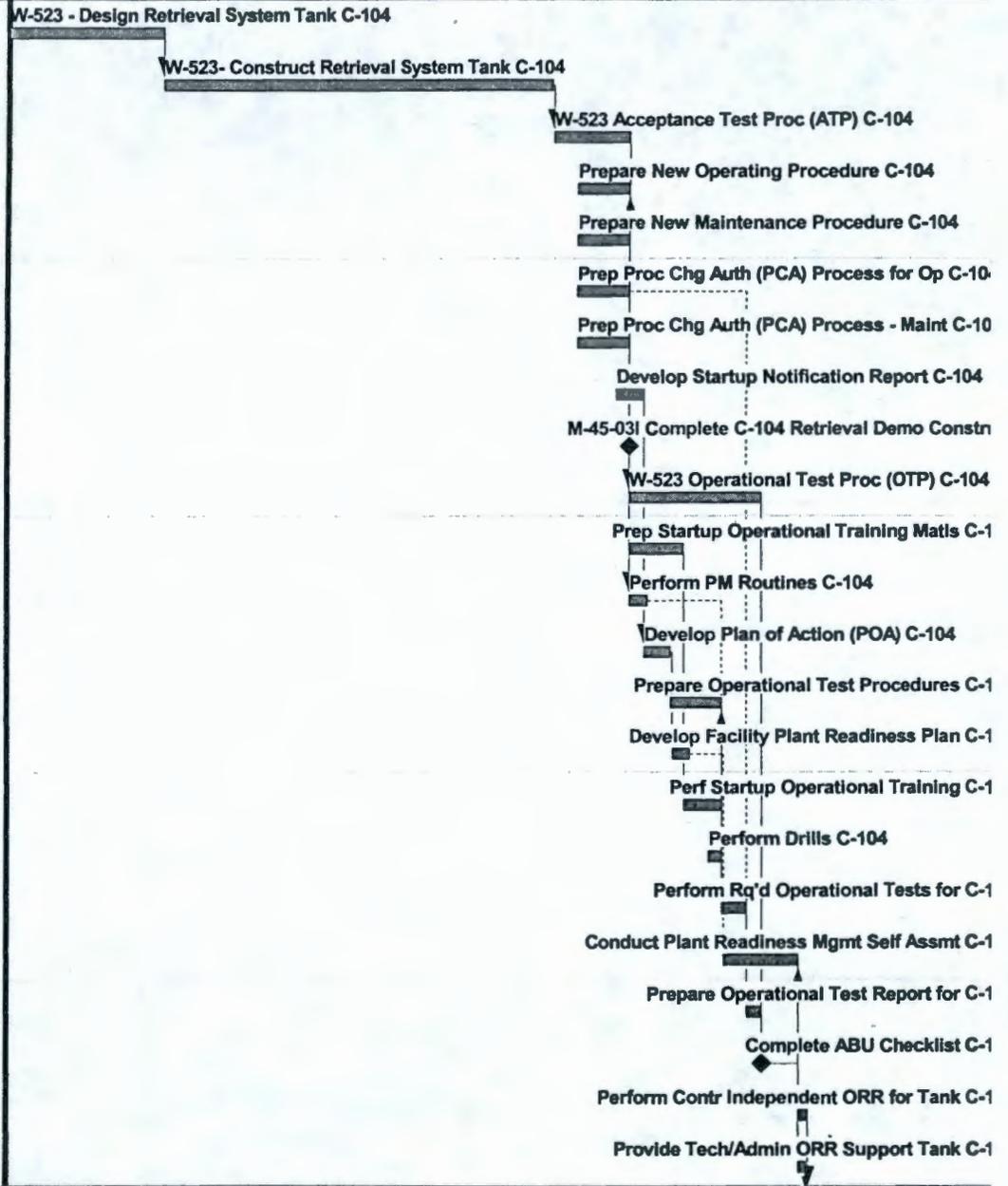
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Date	Revision	Checked	Approved

Critical Path

- Hanford Federal Facility Agreement and Consent Order M-045-03I and M-045-03F are the only milestones on the September 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	FY07	FY08	FY		
TT29J40A3	1	252	252	01OCT02*	30SEP03	10,282	H	C										
TT29J50A1	1	629	629	01OCT03*	31MAR06	10,282	H	C										
TT29J50B	1	127	127	03APR06*	29SEP06	10,282	H	C										
TT29J60A1	1	84	84	02JUN06*	29SEP06	10,397	H	C										
TT29J60A2	1	84	84	02JUN06*	29SEP06	10,397	H	C										
TT29J60A3	1	84	84	02JUN06*	29SEP06	10,397	H	C										
TT29J60A4	1	84	84	02JUN06*	29SEP06	10,397	H	C										
TT29J83A	1	45	45	01SEP06*	03NOV06	10,335	H	C										
TT29J50C	1	0	0		29SEP06	10,282	H	C										
TT29J50D	1	208	208	02OCT06*	30JUL07	10,282	H	C										
TT29J60B1	1	84	84	02OCT06*	01FEB07	10,282	H	C										
TT29J60E	1	30	30	02OCT06*	10NOV06	10,397	H	C										
TT29J83B	1	40	40	06NOV06*	05JAN07	10,335	H	C										
TT29J60D1	1	84	84	02JAN07*	30APR07	10,282	H	C										
TT29J83D	1	30	30	08JAN07*	16FEB07	10,335	H	C										
TT29J60B2	1	61	61	02FEB07*	30APR07	10,282	H	C										
TT29J60C	1	20	20	03APR07*	30APR07	10,282	H	C										
TT29J60D2	1	42	42	01MAY07*	28JUN07	10,282	H	C										
TT29J83E	1	120	120	04MAY07*	23OCT07	10,282	H	C										
TT29J60D3	1	21	21	29JUN07*	30JUL07	10,282	H	C										
TT29J60G	1	0	0		30JUL07	10,282	H	C										
TT29J80A	1	15	15	24OCT07*	13NOV07	10,282	H	C										
TT29J80B	1	10	10	24OCT07*	06NOV07	10,282	H	C										



Start Date 01OCT99
 Finish Date 28SEP50
 Data Date 01OCT02
 Run Date 13NOV02 09:25

Early Bar
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 Critical Path M-045-03F
 September 2002

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M-045-05A

Complete Initial Waste Retrieval from Tank S-102

September 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, fabrication, testing, construction, retrieval, and closure activities for tank S-102. The August 2002 critical path indicates that completion of milestones M-045-05A and M-045-05C are behind schedule. Please see the key milestone recovery plan.

The Tank S-102 design, installation, retrieval, and closure schedule is being replanned to meet the milestone commitments.

Major Accomplishments for September 2002

- Transmitted Tri-Party Agreement Functions and Requirements document to ORP on August 14, satisfying Performance Based Incentive ORP-14-1. ORP transmitted the S-102 Tri-Party Agreement Functions and Requirements Document to Ecology on October 9 to satisfy Tri-Party Agreement target milestone M-045-05-T16.
- Received Contract Mod 064 from ORP which replaced Performance Based Incentive ORP-14 with new PBI's for FY 2003-2006.

Key Project and Technical Issues

- The TPA milestones cannot be achieved using the fluidics technology due to the amount of development required for the instrumentation and control system.
- Technical approach is being modified to replace the fluidics technology with a “standard” mechanical pumping system.
- Consent Decree modifications are needed to allow retrieval to start prior to the completion of Interim Stabilization.

Key Near-Term Activities

- Critical Decision 1 approval anticipated in November 2002.
- Replan the schedule to meet milestone commitments.

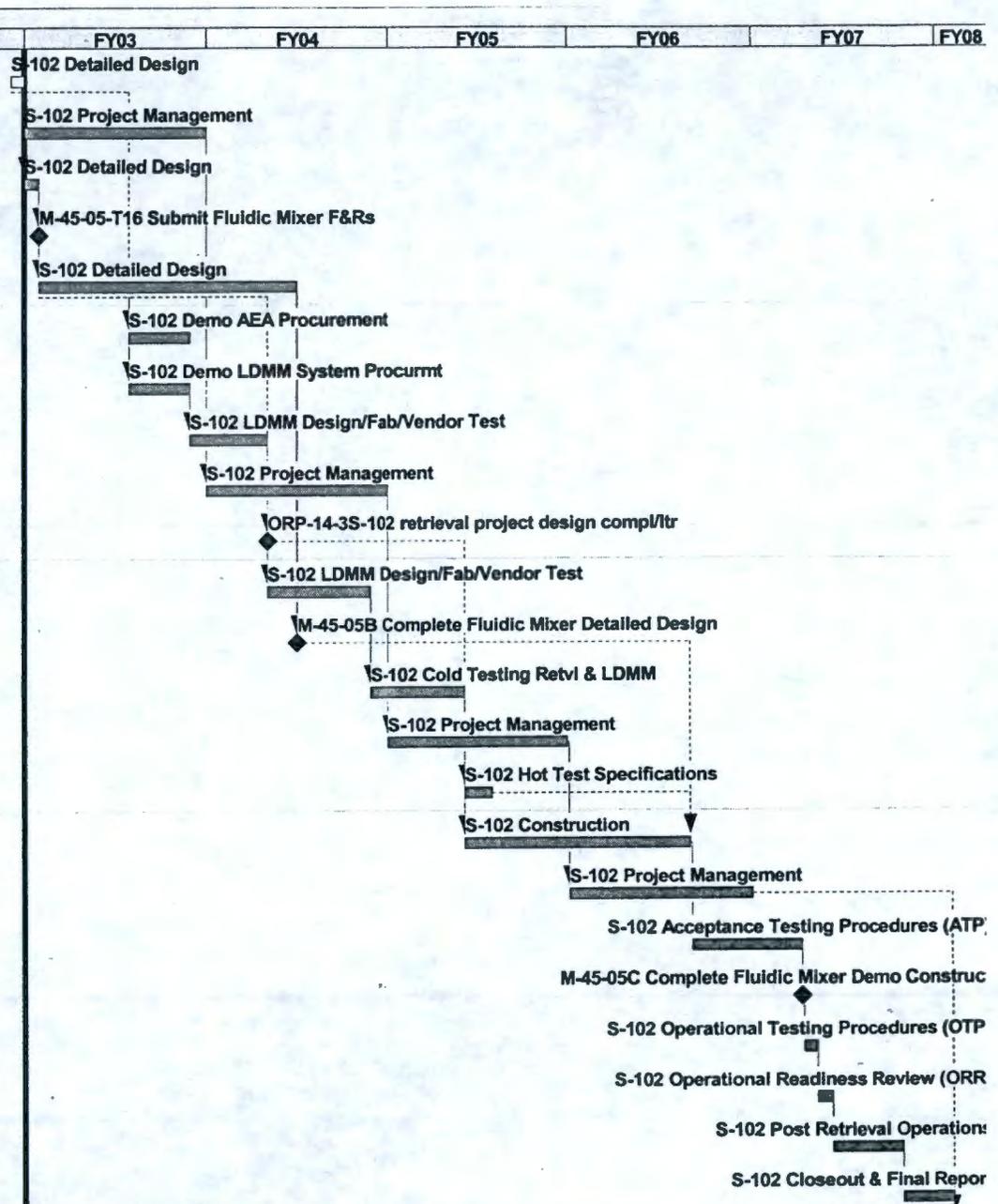
Key Milestones

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.	Behind Schedule
M-45-05A	9/30/06	Complete Initial Waste Retrieval from SST S-102.	Behind Schedule

Key Milestone Recovery Plan

- M-045-05C, “Complete S-102 Initial Waste Retrieval Project Construction,” and M-045-05A, “Complete Initial Waste Retrieval from Tank S-102,” appear behind schedule due to the implementation of baseline change request RPP-02-081 “FY 2002 Baseline Improvement Plan” for only FY 2002 and not life-cycle. This caused a logic disconnect that allowed these milestones to float. This logic error has been corrected with the implementation of the interim baseline change request for FY 2003. This project is being replanned to accelerate retrieval and interim closure using a “standard” mechanical pumping system which will meet all milestone commitments.

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	SRT5	SR16												
									FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08				
TT28325V16	1	20	0	03SEP02A	30SEP02	-275	H	C												
TT28325V07	1	252	252	01OCT02*	30SEP03	0	H													
TT28325V17	1	22	22	01OCT02*	30OCT02	-275	H	C												
TT28325V19	1	0	0		30OCT02	-275	H	C												
TT28325V20	1	355	355	31OCT02*	31MAR04	-275	H	C												
TT28325V23	1	84	84	30APR03*	27AUG03	-275	H	C												
TT28325V24	1	84	84	30APR03*	27AUG03	-275	H	C												
TT28325V26	1	106	106	28AUG03*	30JAN04	-275	H	C												
TT28325V08	1	253	253	01OCT03*	30SEP04	0	H													
TT28325V2M	2	0	0		31JAN04*	1	H													
TT28325V27	1	146	146	02FEB04*	26AUG04	-275	H	C												
TT28325V21	1	0	0		31MAR04	273	H													
TT28325V28	1	129	129	27AUG04*	04MAR05	-275	H	C												
TT28325V09	1	252	252	01OCT04*	30SEP05	0	H													
TT28325V29	1	40	40	07MAR05*	29APR05	0	H													
TT28325V30	1	315	315	07MAR05*	02JUN06	-275	H	C												
TT28325V10	1	251	251	03OCT05*	29SEP06	0	H													
TT28325V31	1	148	148	05JUN06*	05JAN07	-275	H	C												
TT28325V32	1	0	0		05JAN07	-275	H	C												
TT28325V34	1	20	20	08JAN07*	02FEB07	-275	H	C												
TT28325V35	1	20	20	05FEB07*	05MAR07	-275	H	C												
TT28325V37	1	100	100	06MAR07*	25JUL07	-275	H	C												
TT28325V39	1	70	70	26JUL07*	01NOV07	-275	H	C												



Start Date	01OCT99	Early Bar
Finish Date	28SEP50	Progress Bar
Data Date	01OCT02	
Run Date	13NOV02 09:29	

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 M-045-05A Activities
 September 2002

Date	Revision	Checked	Approved

Critical Path

- Hanford Federal Facility Agreement and Consent Order M-045-05-T16, M-045-05C, and M-045-05A are all on the September 2002 critical path.
- The S-102 project is being replanned to meet all milestone commitments.

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	SR15	SR16	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08
TT28325V16	1	20	0	03SEP02A	30SEP02	-275	H	C			S-102 Detailed Design					
TT28325V17	1	22	22	01OCT02*	30OCT02	-275	H	C			S-102 Detailed Design					
TT28325V19	1	0	0		30OCT02	-275	H	C			M-45-05-T16 Submit Fluidic Mixer F&Rs					
TT28325V20	1	355	355	31OCT02*	31MAR04	-275	H	C			S-102 Detailed Design					
TT28325V23	1	84	84	30APR03*	27AUG03	-275	H	C			S-102 Demo AEA Procurement					
TT28325V24	1	84	84	30APR03*	27AUG03	-275	H	C			S-102 Demo LDMM System Procurement					
TT28325V26	1	106	106	28AUG03*	30JAN04	-275	H	C			S-102 LDMM Design/Fab/Vendor Test					
TT28325V27	1	146	146	02FEB04*	26AUG04	-275	H	C			S-102 LDMM Design/Fab/Vendor Test					
TT28325V28	1	129	129	27AUG04*	04MAR05	-275	H	C			S-102 Cold Testing Retvl & LDMM					
TT28325V30	1	315	315	07MAR05*	02JUN06	-275	H	C			S-102 Construction					
TT28325V31	1	148	148	05JUN06*	05JAN07	-275	H	C			S-102 Acceptance Testing Procedures (ATP)					
TT28325V32	1	0	0		05JAN07	-275	H	C			M-45-05C Complete Fluidic Mixer Demo Construc					
TT28325V34	1	20	20	08JAN07*	02FEB07	-275	H	C			S-102 Operational Testing Procedures (OTP)					
TT28325V35	1	20	20	05FEB07*	05MAR07	-275	H	C			S-102 Operational Readiness Review (ORR)					
TT28325V37	1	100	100	06MAR07*	25JUL07	-275	H	C			S-102 Post Retrieval Operation:					
TT28325V39	1	70	70	26JUL07*	01NOV07	-275	H	C			S-102 Closeout & Final Repor					
TT28325V42	1	0	0		01NOV07	-275	H	C			M-45-05A Complete Initial Waste Retrieval S-10:					

Start Date 01OCT99
 Finish Date 28SEP50
 Data Date 01OCT02
 Run Date 13NOV02 09:28

Early Bar
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Critical Path M-045-05A
 September 2002

Date	Revision	Checked	Approved

FY Quarter	Milestone No.	Milestone Due Date	Contractor Manager	DOE Contacts	Description
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-045-05-T16	10/30/2002	P.S. Schaus	R.W. Lober	M-045-05-T16 Submit S-102 Initial Waste Retrieval F&R Document
	D-001-00-R14	10/31/2002	R.J. Cash	A.J. Stevens	D-001-00-R14 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
	M-046-01I	11/30/2002	T.W. Crawford	C.S. Louie	M-046-01I Concurrence of Additional Tank Acquisition
	P-045-05A	12/19/2002	P.S. Schaus	R.W. Lober	P-045-05A Submit a Certified (Framework) SST System Closure Plan and C-105 Waste Retrieval and Closure Demonstration Plan, as a Hanford Site-Wide Hazardous Waste Facility Permit Modification to Ecology.
	M-045-05D	12/31/2002	P.S. Schaus	R.W. Lober	M-045-05D Establish Completion Date for the Second Tank, Initial Waste Retrieval
2nd Quarter FY 2003 January - March	M-045-55-T02	1/31/2003	A.J. Knepp	R.M. Yasek	M-045-55-T02 Submit a Field Investigative Report for B-BX-BY
	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
	P-045-05I-T01	1/31/2003	P.S. Schaus	R.W. Lober	P-045-05I-T01 Conduct C-106 Waste Retrieval and Closure Demonstration
	D-001-08-T01	2/28/2003	R.J. Cash	A.J. Stevens	D-001-08-T01 Complete Pumping of SX-105, SX-013, SX-101 & U-106
	M-023-25C	3/31/2003	R.A. Dodd	M.E. Burandt	M-023-25C Complete the Installation of Liquid Observation Wells (LOWs) and Begin Weekly Liquid Observation Monitoring for Four SSTs
3rd Quarter FY 2003 April - June	P-045-05R-T01	4/30/2003	P.S. Schaus	R.W. Lober	P-045-05R-T01 Complete C-106 Waste Retrieval and Closure Demonstration
	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
	D-001-14	4/30/2003	R.J. Cash	A.J. Stevens	D-001-14 Initiate Pumping tank C-103
	M-090-09-T01	5/30/2003	G.L. Parsons	P.E. LaMont	M-090-09-T01 Complete W-520 Detailed Design
	M-045-03D	5/31/2003	P.S. Schaus	R.W. Lober	M-045-03D Complete S-112 Saltcake Waste Ret. Tech. Dem. Design
	M-043-16	6/30/2003	J.A. Voogd	B.L. Williams	M-043-16 Start Construction for Upgrades in the 5th Tank Farm
	D-001-09-T01	6/30/2003	R.J. Cash	A.J. Stevens	D-001-09-T01 Complete Pumping of BY-105 BY106
	M-045-55-T03 *	6/30/2003	A.J. Knepp	R.M. Yasek	M-045-55-T03 submit a Field Investigation Report for T, TX-TY
M-020-56	6/30/2003	K.S. Tollefson	M.L. Ramsay	M-020-56 Canister Storage Facility Part B Dangerous Waste Permit	
	M-020-57	6/30/2003	K.S. Tollefson	M.L. Ramsay	M-020-57 Submit Interim ILAW Facility Part B Permit Application to Ecology
	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

FY Quarter	Milestone No.	Milestone Due Date	Contractor Manager	DOE Contacts	Description
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
	D-001-11-T01	8/30/2003	R.J. Cash	A.J. Stevens	D-001-11-T01 Complete Pumping of U-108, U-107, S-111, and SX-102
	M-046-00J	9/30/2003	T.W. Crawford	C.S. Louie	M-046-00J Double-Shell Tank Evaluation
	D-001-00V	9/30/2003	R.J. Cash	A.J. Stevens	D-001-00V Reduce Total Liquids to 2% of Total Vol. From SSTs
	D-001-06-T01	9/30/2003	R.J. Cash	A.J. Stevens	D-001-06-T01 Complete Pumping of A-101 & AX-101
	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
	M-023-25D	9/30/2003	R.A. Dodd	M.E. Burandt	M-023-25D Complete the Installation of Liquid Observation Wells (LOWs) and Begin Weekly Liquid Observation Monitoring for Four SSTs
	M-023-25E	9/30/2003	R.A. Dodd	M.E. Burandt	M-023-25E Procure Necessary Equipment to Support Additional Low Monitoring Systems
	P-045-05S-T01	9/30/2003	P.S. Schaus	R.W. Lober	P-045-05S-T01 Complete C-106 Waste Retrieval and Closure Demonstration Project Construction
	P-045-05T-T01	9/30/2003	P.S. Schaus	R.W. Lober	P-045-05T-T01 Complete Full Scale C-106 Waste Retrieval
M-045-11	9/30/2003	P.S. Schaus	H.J. Stafford	M-045-11 Complete 244-AR Vault Interim Stabilization	
M-048-11	9/30/2003	G.P. Duncan	R.G. Harwood	M-048-11 Submit a Written Report to ORP Documenting Results of 4 DSTs not Previously Examined	
M-045-02L	9/30/2003	P.S. Schaus	R.W. Lober	M-045-02L Submit Annual Update of SST Retrieval Sequence Document	
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
	M-046-01J	11/30/2003	T.W. Crawford	C.S. Louie	M-046-01J Concurrence of Additional Tank Acquisition
	D-001-14-T01	12/30/2003	R.J. Cash	A. J. Stevens	D-001-14-T01 Complete pumping of C-103
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
	P-045-05W-T01	2/27/2004	P.S. Schaus	R.W. Lober	P-045-05W-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
	M-045-00C	2/28/2004	P.S. Schaus	R.W. Lober	M-045-00C Complete renegotiation of Second Phase (I.E., 9/30/2006 Through 9/30/2015) SST Waste Retrieval Activities
	M-045-55	2/28/2004	A.J. Knepp	R.M. Yasek	M-045-55 Submit RFI Report
	M-023-25F	3/31/2004	R.A. Dodd	M.E. Burandt	M-023-25F Complete the Installation of Liquid Observation Wells (LOWs) and Begin Weekly Liquid Observation Monitoring for Four Additional SSTs
	M-045-05B	3/31/2004	P.S. Schaus	R.W. Lober	M-045-05B Complete S-102 Initial Retrieval Project Design

FY Quarter	Milestone No.	Milestone Due Date	Contractor Manager	DOE Contacts	Description
3rd Quarter FY 2004 April - June	M-045-05-T17	4/30/2004	P.S. Schaus	R.W. Lober	M-045-05-T17 Submit Second Tank Initial Waste Retrieval F&R Document
	P-045-05U	4/30/2004	P.S. Schaus	R.W. Lober	P-045-05U Interim Completion of Tank C-106 SST Waste Retrieval and Closure Demonstration Project
	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 Report Documenting Tank Stabilization Activities that Occurred During the Period Covered by the Report
	M-047-05	5/31/2004	J.A. Voogd	C.S. Louie	M-047-05 Start Construction of Waste Retrieval and Mobilization
	M-045-03G	6/30/2004	P.S. Schaus	R.W. Lober	M-045-03G Complete C-104 Sludge/Hard Heel, Confined Sluicing and Robotic Tech., Waste Retrieval Cold Demonstration
	P-045-06-T20	6/30/2004	P.S. Schaus	R.W. Lober	P-045-06-T20 Submit Tank Farm Closure/Post-Closure Implementation Plan
	M-045-06-T06	6/30/2004	P.S. Schaus	R.W. Lober	M-045-06-T06 Submit Tank Farm Closure/Post-Closure Workplan Update
4th Quarter FY 2004 July - September	M-047-03	7/30/2004	J.A. Voogd	C.S. Louie	M-047-03 Start Construction of Waste Retrieval and Mobilization
	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
	M-045-03E	9/30/2004	P.S. Schaus	R.W. Lober	M-045-03E Complete S-112 Saltcake Waste Ret. Tech. Dem. Construction
	M-045-03H	9/30/2004	P.S. Schaus	R.W. Lober	M-045-03H Complete C-104 Sludge/Hard Heel, Confined Sluicing and Robotic Tech., Waste Retrieval Demonstration Design
	M-046-00K	9/30/2004	P.S. Schaus	C.S. Louie	M-046-00K Double-Shell Tank Space Evaluation
	D-001-00	9/30/2004	R.J. Cash	A.J. Stevens	D-001-00 Complete Interim Stabilization of all 29 SSTs
	M-023-25	9/30/2004	R.A. Dodd	M.E. Burandt	M-023-25 Complete the Installation of Liquid Observation Wells (LOWs) for SSTs AX-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,
	M-023-25G	9/30/2004	R.A. Dodd	M.E. Burandt	M-023-25G Complete the Installation of Liquid Observation Wells (LOWs) and Begin Weekly Liquid Observation Monitoring for Four Additional SSTs
M-048-12	9/30/2004	G.P. Duncan	R.G. Harwood	M-048-12 Submit a Written Report to ORP Documenting Results of Ultrasonic Testing of 4 DSTs Not Previously Examined	
	M-045-02M	9/30/2004	P.S. Schaus	R.W. Lober	M-045-02M Submit Annual Update of SST Retrieval Sequence Document
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
	M-046-01K	11/30/2004	P.S. Schaus	C.S. Louie	M-046-01K Concurrence of Additional Tank Acquisition
	P-045-05U-T01	12/31/2004	P.S. Schaus	C.S. Louie	P-045-05U-T01 Final Completion of Tank C-106 SST Retrieval and Closure Demonstration Project
2nd Quarter FY 2005 January - March	M-090-08	2/28/2005	G.L. Parsons	P.E. LaMont	M-090-08 CD3 - Initiate W-520 Construction
	P-045-06-B	3/31/2005	P.S. Schaus	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
3rd Quarter FY 2005 April - June	M-043-00	6/30/2005	J.A. Voogd	T.R. Hoertkorn	M-043-00 Complete tank Farm Upgrades

FY Quarter	Milestone No.	Milestone Due Date	Contractor Manager	DOE Contacts	Description
4th Quarter FY 2005 July - September	M-045-03C	9/30/2005	P.S. Schaus	R.W. Lober	M-045-03C Complete Full Scale Saltcake Waste
	M-048-13	9/30/2005	G.P. Duncan	R.G. Harwood	M-048-13 Submit a Written Report to Ecology Documenting all Results of Ultrasonic Testing of the Primary Tank Walls in Four (4) DSTs not Previously Examined by Ultrasonic Testing
	M-046-00L	9/30/2005	P.S. Schaus	C.S. Louie	M-046-00L Double-Shell Tank Space Evaluation
	M-045-02N	9/30/2005	P.S. Schaus	R.W. Lober	M-045-02N Submit Annual Update of SST Retrieval Sequence Document
1st Quarter FY 2006 October - December	M-045-05C	11/30/2005	P.S. Schaus	R.W. Lober	M-045-05C Complete S-102 Initial Waste Retrieval Project Construction
	M-046-01L	11/30/2005	P.S. Schaus	C.S. Louie	M-046-01L Concurrence of Additional Tank Acquisition
2nd Quarter FY 2006 January - March	M-048-14	3/31/2006	G.P. Duncan	R.G. Harwood	M-048-14 Submit a Written Integrity Assessment Report for the Double-Shell Tank System, to Ecology
	M-047-01	3/31/2006	J.A. Voogd	C.S. Louie	M-047-01 Comp. Construction of the Trans. Syst. From 241-AP to the Waste Treatment Plant
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
	M-045-05E	6/30/2006	P.S. Schaus	R.W. Lober	M-045-05E Complete Second Tank Initial Retrieval Project Design
	P-045-13	6/30/2006	P.S. Schaus	R.W. Lober	P-045-13 Interim Completion of Tank S-12 SST Waste Retrieval and Closure Demonstration Project
4th Quarter FY 2006 July - September	P-045-06-C	8/31/2006	P.S. Schaus	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
	M-045-05A	9/30/2006	P.S. Schaus	R.W. Lober	M-045-05A Complete Initial Waste Retrieval from Tank S-102
	M-045-03I	9/30/2006	P.S. Schaus	R.W. Lober	M-045-03I Complete C-104 Sludge/Hard Heel, Confined Sluicing and Robotic
	M-045-00B	9/30/2006	P.S. Schaus	R.W. Lober	M-045-00B Complete Near Term SST Waste Retrieval
	M-046-00M	9/30/2006	P.S. Schaus	C.S. Louie	M-046-00M Double-Shell Tank space Evaluation
	M-045-02O	9/30/2006	P.S. Schaus	R.W. Lober	M-045-02O Submit Annual Update of SST Retrieval Sequence Document
1st Quarter FY 2007 October - December	M-046-01M	11/30/2006	P.S. Schaus	C.S. Louie	M-046-01M Concurrence of Additional Tank Acquisition

FY Quarter	Milestone No.	Milestone Due Date	Contractor Manager	DOE Contacts	Description
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
	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 Pretreatment/Treatment Complex
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
	P-045-06-D	6/30/2007	P.S. Schaus	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
	P-045-13-T01	6/30/2007	P.S. Schaus	R.W. Lober	P-045-13-T01 Final Completion of Tank S-112 SST Retrieval and Closure Demonstration Project
	P-045-15	6/30/2007	P.S. Schaus	R.W. Lober	P-045-15 Interim Completion of Tanks S-102 SST Waste Retrieval and Closure Demonstration Project
4th Quarter FY 2007 July - September	M-048-15	9/30/2007	G.P. Duncan	R.G. Harwood	M-048-15 Submit a Report to Ecology for the Re-Examination of Six (6) DSTs by Ultrasonic Testing
	M-045-05-T05	9/30/2007	P.S. Schaus	R.W. Lober	M-045-05-T05 Initiate Tank Retrieval from Five Additional SSTs
	M-045-02P	9/30/2007	P.S. Schaus	R.W. Lober	M-045-02P Submit Annual Update of SST Retrieval Sequence Document
3rd Quarter FY 2008 April - June	P-045-14	6/30/2008	P.S. Schaus	R.W. Lober	P-045-14 Interim Completion of Tank C-104 SST Waste Retrieval and Closure Demonstration Project
	P-045-15-T01	6/30/2008	P.S. Schaus	R.W. Lober	P-045-15-T01 Final Completion of Tank S-102 SST Retrieval and Closure Demonstration Project
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 Facility (CD4 - Initiate W-520 Operations)
	M-045-05-T06	9/30/2008	P.S. Schaus	R.W. Lober	M-045-05-T06 Initiate Tank Retrieval from 5 Additional SSTs
	M-045-02Q	9/30/2008	P.S. Schaus	R.W. Lober	M-045-02Q Submit Annual Update of SST Retrieval Sequence Document
1st Quarter FY 2009 October - December	P-045-06E	12/31/2008	P.S. Schaus	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
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)
	P-045-14-T01	6/30/2009	P.S. Schaus	R.W. Lober	P-045-14-T01 Final Completion of Tank C-104 SST Retrieval and Closure Demonstration Project
4th Quarter FY 2009 July - September	M-045-05-T07	9/30/2009	P.S. Schaus	R.W. Lober	M-045-05-T07 Initiate Tank Retrieval from 7 Additional SSTs
	M-045-02R	9/30/2009	P.S. Schaus	R.W. Lober	M-045-02R Submit Annual Update of SST Retrieval Sequence Document

FY Quarter	Milestone No.	Milestone Due Date	Contractor Manager	DOE Contacts	Description
1st Quarter FY 2010 October - December	P-045-05G-T01	10/31/2009	P.S. Schaus	R.W. Lober	P-045-05G-T01 Complete S-105, S-106, and S-103 Waste Retrieval
3rd Quarter FY 2010 April - June	M-047-06	6/30/2010	J.G. Kristofzski	C.S. Louie	M-047-06 Complete Negotiate Additional Agreement Requirements (Milestones, Target Dates, and Associated Language) Governing Work Necessary to Support Completion of Treatment Complex Phase 1 Operations By 2018
4th Quarter FY 2010 July - September	P-045-16	7/31/2010	P.S. Schaus	R.W. Lober	P-045-16 Interim Completion of Tank S-105, S-106, and S-103 SST Waste Retrieval and Closure Demonstration Project
	M-045-05-T08	9/30/2010	P.S. Schaus	R.W. Lober	M-045-05-T08 Initiate Tank Retrieval from 8 Additional SSTs
	M-045-02S	9/30/2010	P.S. Schaus	R.W. Lober	M-045-02S Submit Annual Update of SST Retrieval Sequence Document
3rd Quarter FY 2011 April - June	M-045-00D	6/30/2011	P.S. Schaus	R.W. Lober	M-045-00D Complete Renegotiation of the Remainder of the SST Waste Retrieval and Closure Program
4th Quarter FY 2011 July - September	P-045-16-T01	7/31/2011	P.S. Schaus	R.W. Lober	P-045-16-T01 Final Completion of tank S-105, S-106, and S-103 SST Retrieval and Closure Demonstration Project
	M-045-05-T09	9/30/2011	P.S. Schaus	R.W. Lober	M-045-05-T09 Initiate Tank Retrieval from 10 Additional SSTs
	M-045-02T	9/30/2011	P.S. Schaus	R.W. Lober	M-045-02T Submit Annual Update of SST Retrieval Sequence Document
2nd Quarter FY 2012 January - March	M-045-06-T03	3/31/2012	P.S. Schaus	R.W. Lober	M-045-06-T03 Initiate Closure Actions on Operable Unit or Tank Farm Basis
4th Quarter FY 2012 July -	M-045-05-T10	9/30/2012	P.S. Schaus	R.W. Lober	M-045-05-T10 Initiate Tank Retrieval from 12 Additional SSTs
	M-045-02U	9/30/2012	P.S. Schaus	R.W. Lober	M-045-02U Submit Annual update of SST Retrieval Sequence Document

Key

* - Due date changes in October to 01/31/2005 based on TPA change request M-045-02-04.

Red - In Jeopardy

Orange - Overdue

Blue or Blue Highlight - Document Deliverable

Green - Proposed Milestone



Critical Path Analysis Reporting
Tri-Party Agreement Milestones

September 2002



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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)

FY Quarter	Milestone No.	Milestone Due Date	Contractor Manager	DOE Contacts	Description
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-045-05-T16	10/30/2002	P.S. Schaus	R.W. Lober	M-045-05-T16 Submit S-102 Initial Waste Retrieval F&R Document
	D-001-00-R14	10/31/2002	R.J. Cash	A.J. Stevens	D-001-00-R14 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
	M-046-01I	11/30/2002	T.W. Crawford	C.S. Louie	M-046-01I Concurrence of Additional Tank Acquisition
	P-045-06A	12/19/2002	P.S. Schaus	R.W. Lober	P-045-06A Submit a Certified (Framework) SST System Closure Plan and C-106 Waste Retrieval and Closure Demonstration Plan, as a Hanford Site-Wide Hazardous Waste Facility Permit Modification to Ecology.
M-045-05D	12/31/2002	P.S. Schaus	R.W. Lober	M-045-05D Establish Completion Date for the Second Tank, Initial Waste Retrieval	
2nd Quarter FY 2003 January - March	M-045-55-T02	1/31/2003	A.J. Knepp	R.M. Yasek	M-045-55-T02 Submit a Field Investigative Report for B-BX-BY
	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
	P-045-05I-T01	1/31/2003	P.S. Schaus	R.W. Lober	P-045-05I-T01 Conduct C-106 Waste Retrieval and Closure Demonstration
	D-001-08-T01	2/28/2003	R.J. Cash	A.J. Stevens	D-001-08-T01 Complete Pumping of SX-105, SX-013, SX-101 & U-106
M-023-25C	3/31/2003	R.A. Dodd	M.E. Burandt	M-023-25C Complete the Installation of Liquid Observation Wells (LOWs) and Begin Weekly Liquid Observation Monitoring for Four SSTs	
3rd Quarter FY 2003 April - June	P-045-05R-T01	4/30/2003	P.S. Schaus	R.W. Lober	P-045-05R-T01 Complete C-106 Waste Retrieval and Closure Demonstration
	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
	D-001-14	4/30/2003	R.J. Cash	A.J. Stevens	D-001-14 Initiate Pumping tank C-103
	M-090-09-T01	5/30/2003	G.L. Parsons	P.E. LaMont	M-090-09-T01 Complete W-520 Detailed Design
	M-045-03D	5/31/2003	P.S. Schaus	R.W. Lober	M-045-03D Complete S-112 Saltcake Waste Ret. Tech. Dem. Design
	M-043-16	6/30/2003	J.A. Voogd	B.L. Williams	M-043-16 Start Construction for Upgrades in the 5th Tank Farm
	D-001-09-T01	6/30/2003	R.J. Cash	A.J. Stevens	D-001-09-T01 Complete Pumping of BY-105 BY106
	M-045-55-T03 *	6/30/2003	A.J. Knepp	R.M. Yasek	M-045-55-T03 submit a Field Investigation Report for T, TX-TY
	M-020-56	6/30/2003	K.S. Tollefson	M.L. Ramsay	M-020-56 Canister Storage Facility Part B Dangerous Waste Permit
M-020-57	6/30/2003	K.S. Tollefson	M.L. Ramsay	M-020-57 Submit Interim ILAW Facility Part B Permit Application to Ecology	
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	

FY Quarter	Milestone No.	Milestone Due Date	Contractor Manager	DOE Contacts	Description
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
	D-001-11-T01	8/30/2003	R.J. Cash	A.J. Stevens	D-001-11-T01 Complete Pumping of U-108, U-107, S-111, and SX-102
	M-046-00J	9/30/2003	T.W. Crawford	C.S. Louie	M-046-00J Double-Shell Tank Evaluation
	D-001-00V	9/30/2003	R.J. Cash	A.J. Stevens	D-001-00V Reduce Total Liquids to 2% of Total Vol. From SSTs
	D-001-06-T01	9/30/2003	R.J. Cash	A.J. Stevens	D-001-06-T01 Complete Pumping of A-101 & AX-101
	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
	M-023-25D	9/30/2003	R.A. Dodd	M.E. Burandt	M-023-25D Complete the Installation of Liquid Observation Wells (LOWs) and Begin Weekly Liquid Observation Monitoring for Four SSTs
	M-023-25E	9/30/2003	R.A. Dodd	M.E. Burandt	M-023-25E Procure Necessary Equipment to Support Additional Low Monitoring Systems
	P-045-05S-T01	9/30/2003	P.S. Schaus	R.W. Lober	P-045-05S-T01 Complete C-106 Waste Retrieval and Closure Demonstration Project Construction
	P-045-05T-T01	9/30/2003	P.S. Schaus	R.W. Lober	P-045-05T-T01 Complete Full Scale C-106 Waste Retrieval
M-045-11	9/30/2003	P.S. Schaus	H.J. Stafford	M-045-11 Complete 244-AR Vault Interim Stabilization	
M-048-11	9/30/2003	G.P. Duncan	R.G. Harwood	M-048-11 Submit a Written Report to ORP Documenting Results of 4 DSTs not Previously Examined	
M-045-02L	9/30/2003	P.S. Schaus	R.W. Lober	M-045-02L Submit Annual Update of SST Retrieval Sequence Document	
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
	M-046-01J	11/30/2003	T.W. Crawford	C.S. Louie	M-046-01J Concurrence of Additional Tank Acquisition
	D-001-14-T01	12/30/2003	R.J. Cash	A. J. Stevens	D-001-14-T01 Complete pumping of C-103
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
	P-045-05W-T01	2/27/2004	P.S. Schaus	R.W. Lober	P-045-05W-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
	M-045-00C	2/28/2004	P.S. Schaus	R.W. Lober	M-045-00C Complete renegotiation of Second Phase (I.E., 9/30/2006 Through 9/30/2015) SST Waste Retrieval Activities
	M-045-55	2/28/2004	A.J. Knepp	R.M. Yasek	M-045-55 Submit RFI Report
	M-023-25F	3/31/2004	R.A. Dodd	M.E. Burandt	M-023-25F Complete the Installation of Liquid Observation Wells (LOWs) and Begin Weekly Liquid Observation Monitoring for Four Additional SSTs
	M-045-05B	3/31/2004	P.S. Schaus	R.W. Lober	M-045-05B Complete S-102 Initial Retrieval Project Design

FY Quarter	Milestone No.	Milestone Due Date	Contractor Manager	DOE Contacts	Description
3rd Quarter FY 2004 April - June	M-045-05-T17	4/30/2004	P.S. Schaus	R.W. Lober	M-045-05-T17 Submit Second Tank Initial Waste Retrieval F&R Document
	P-045-05U	4/30/2004	P.S. Schaus	R.W. Lober	P-045-05U Interim Completion of Tank C-106 SST Waste Retrieval and Closure Demonstration Project
	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 Report Documenting Tank Stabilization Activities that Occurred During the Period Covered by the Report
	M-047-05	5/31/2004	J.A. Voogd	C.S. Louie	M-047-05 Start Construction of Waste Retrieval and Mobilization
	M-045-03G	6/30/2004	P.S. Schaus	R.W. Lober	M-045-03G Complete C-104 Sludge/Hard Heel, Confined Sluicing and Robotic Tech., Waste Retrieval Cold Demonstration
	P-045-06-T20	6/30/2004	P.S. Schaus	R.W. Lober	P-045-06-T20 Submit Tank Farm Closure/Post-Closure Implementation Plan
	M-045-06-T06	6/30/2004	P.S. Schaus	R.W. Lober	M-045-06-T06 Submit Tank Farm Closure/Post-Closure Workplan Update
4th Quarter FY 2004 July - September	M-047-03	7/30/2004	J.A. Voogd	C.S. Louie	M-047-03 Start Construction of Waste Retrieval and Mobilization
	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
	M-045-03E	9/30/2004	P.S. Schaus	R.W. Lober	M-045-03E Complete S-112 Saltcake Waste Ret. Tech. Dem. Construction
	M-045-03H	9/30/2004	P.S. Schaus	R.W. Lober	M-045-03H Complete C-104 Sludge/Hard Heel, Confined Sluicing and Robotic Tech., Waste Retrieval Demonstration Design
	M-046-00K	9/30/2004	P.S. Schaus	C.S. Louie	M-046-00K Double-Shell Tank Space Evaluation
	D-001-00	9/30/2004	R.J. Cash	A.J. Stevens	D-001-00 Complete Interim Stabilization of all 29 SSTs
	M-023-25	9/30/2004	R.A. Dodd	M.E. Burandt	M-023-25 Complete the Installation of Liquid Observation Wells (LOWs) for SSTs AX-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,
	M-023-25G	9/30/2004	R.A. Dodd	M.E. Burandt	M-023-25G Complete the Installation of Liquid Observation Wells (LOWs) and Begin Weekly Liquid Observation Monitoring for Four Additional SSTs
M-048-12	9/30/2004	G.P. Duncan	R.G. Harwood	M-048-12 Submit a Written Report to ORP Documenting Results of Ultrasonic Testing of 4 DSTs Not Previously Examined	
M-045-02M	9/30/2004	P.S. Schaus	R.W. Lober	M-045-02M Submit Annual Update of SST Retrieval Sequence Document	
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
	M-046-01K	11/30/2004	P.S. Schaus	C.S. Louie	M-046-01K Concurrence of Additional Tank Acquisition
	P-045-05U-T01	12/31/2004	P.S. Schaus	C.S. Louie	P-045-05U-T01 Final Completion of Tank C-106 SST Retrieval and Closure Demonstration Project
2nd Quarter FY 2005 January - March	M-090-08	2/28/2005	G.L. Parsons	P.E. LaMont	M-090-08 CD3 - Initiate W-520 Construction
	P-045-08-B	3/31/2005	P.S. Schaus	C.S. Louie	P-045-08-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
3rd Quarter FY 2005 April - June	M-043-00	6/30/2005	J.A. Voogd	T.R. Hoertkorn	M-043-00 Complete tank Farm Upgrades

FY Quarter	Milestone No.	Milestone Due Date	Contractor Manager	DOE Contacts	Description
4th Quarter FY 2005 July - September	M-045-03C	9/30/2005	P.S. Schaus	R.W. Lober	M-045-03C Complete Full Scale Saltcake Waste
	M-048-13	9/30/2005	G.P. Duncan	R.G. Harwood	M-048-13 Submit a Written Report to Ecology Documenting all Results of Ultrasonic Testing of the Primary Tank Walls in Four (4) DSTs not Previously Examined by Ultrasonic Testing
	M-046-00L	9/30/2005	P.S. Schaus	C.S. Louie	M-046-00L Double-Shell Tank Space Evaluation
	M-045-02N	9/30/2005	P.S. Schaus	R.W. Lober	M-045-02N Submit Annual Update of SST Retrieval Sequence Document
1st Quarter FY 2006 October - December	M-045-05C	11/30/2005	P.S. Schaus	R.W. Lober	M-045-05C Complete S-102 Initial Waste Retrieval Project Construction
	M-046-01L	11/30/2005	P.S. Schaus	C.S. Louie	M-046-01L Concurrence of Additional Tank Acquisition
2nd Quarter FY 2006 January - March	M-048-14	3/31/2006	G.P. Duncan	R.G. Harwood	M-048-14 Submit a Written Integrity Assessment Report for the Double-Shell Tank System, to Ecology
	M-047-01	3/31/2006	J.A. Voogd	C.S. Louie	M-047-01 Comp. Construction of the Trans. Syst. From 241-AP to the Waste Treatment Plant
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
	M-045-05E	6/30/2006	P.S. Schaus	R.W. Lober	M-045-05E Complete Second Tank Initial Retrieval Project Design
	P-045-13	8/30/2006	P.S. Schaus	R.W. Lober	P-045-13 Interim Completion of Tanks S-112 SST Waste Retrieval and Closure Demonstration Project
4th Quarter FY 2006 July - September	P-045-06-C	9/31/2006	P.S. Schaus	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
	M-045-05A	9/30/2006	P.S. Schaus	R.W. Lober	M-045-05A Complete Initial Waste Retrieval from Tank S-102
	M-045-03I	9/30/2006	P.S. Schaus	R.W. Lober	M-045-03I Complete C-104 Sludge/Hard Heel, Confined Sluicing and Robotic
	M-045-00B	9/30/2006	P.S. Schaus	R.W. Lober	M-045-00B Complete Near Term SST Waste Retrieval
	M-046-00M	9/30/2006	P.S. Schaus	C.S. Louie	M-046-00M Double-Shell Tank space Evaluation
	M-045-02O	9/30/2006	P.S. Schaus	R.W. Lober	M-045-02O Submit Annual Update of SST Retrieval Sequence Document
1st Quarter FY 2007 October - December	M-046-01M	11/30/2006	P.S. Schaus	C.S. Louie	M-046-01M Concurrence of Additional Tank Acquisition

FY Quarter	Milestone No.	Milestone Due Date	Contractor Manager	DOE Contacts	Description
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
	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 Pretreatment/Treatment Complex
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
	P-045-06-D	6/30/2007	P.S. Schaus	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
	P-045-13-T01	6/30/2007	P.S. Schaus	R.W. Lober	P-045-13-T01 Final Completion of Tank S-112 SST Retrieval and Closure Demonstration Project
	P-045-15	6/30/2007	P.S. Schaus	R.W. Lober	P-045-15 Interim Completion of Tanks S-102 SST Waste Retrieval and Closure Demonstration Project
4th Quarter FY 2007 July - September	M-048-15	9/30/2007	G.P. Duncan	R.G. Harwood	M-048-15 Submit a Report to Ecology for the Re-Examination of Six (6) DSTs by Ultrasonic Testing
	M-045-05-T05	9/30/2007	P.S. Schaus	R.W. Lober	M-045-05-T05 Initiate Tank Retrieval from Five Additional SSTs
	M-045-02P	9/30/2007	P.S. Schaus	R.W. Lober	M-045-02P Submit Annual Update of SST Retrieval Sequence Document
3rd Quarter FY 2008 April - June	P-045-14	6/30/2008	P.S. Schaus	R.W. Lober	P-045-14 Interim Completion of Tank C-104 SST Waste Retrieval and Closure Demonstration Project
	P-045-15-T01	6/30/2008	P.S. Schaus	R.W. Lober	P-045-15-T01 Final Completion of Tank S-102 SST Retrieval and Closure Demonstration Project
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 Facility (CD4 - Initiate W-520 Operations)
	M-045-05-T06	9/30/2008	P.S. Schaus	R.W. Lober	M-045-05-T06 Initiate Tank Retrieval from 5 Additional SSTs
	M-045-02Q	9/30/2008	P.S. Schaus	R.W. Lober	M-045-02Q Submit Annual Update of SST Retrieval Sequence Document
1st Quarter FY 2009 October - December	P-045-06E	12/31/2008	P.S. Schaus	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
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)
	P-045-14-T01	6/30/2009	P.S. Schaus	R.W. Lober	P-045-14-T01 Final Completion of Tank C-104 SST Retrieval and Closure Demonstration Project
4th Quarter FY 2009 July - September	M-045-05-T07	9/30/2009	P.S. Schaus	R.W. Lober	M-045-05-T07 Initiate Tank Retrieval from 7 Additional SSTs
	M-045-02R	9/30/2009	P.S. Schaus	R.W. Lober	M-045-02R Submit Annual Update of SST Retrieval Sequence Document

FY Quarter	Milestone No.	Milestone Due Date	Contractor Manager	DOE Contacts	Description
1st Quarter FY 2010 October - December	P-045-05G-T01	10/31/2009	P.S. Schaus	R.W. Lober	P-045-05G-T01 Complete S-105, S-106, and S-103 Waste Retrieval
3rd Quarter FY 2010 April - June	M-047-06	6/30/2010	J.G. Kristofzski	C.S. Louie	M-047-06 Complete Negotiate Additional Agreement Requirements (Milestones, Target Dates, and Associated Language) Governing Work Necessary to Support Completion of Treatment Complex Phase 1 Operations By 2018
4th Quarter FY 2010 July - September	P-045-16	7/31/2010	P.S. Schaus	R.W. Lober	P-045-16 Interim Completion of Tank S-105, S-106, and S-103 SST Waste Retrieval and Closure Demonstration Project
	M-045-05-T08	9/30/2010	P.S. Schaus	R.W. Lober	M-045-05-T08 Initiate Tank Retrieval from 8 Additional SSTs
	M-045-02S	9/30/2010	P.S. Schaus	R.W. Lober	M-045-02S Submit Annual Update of SST Retrieval Sequence Document
3rd Quarter FY 2011 April - June	M-045-00D	6/30/2011	P.S. Schaus	R.W. Lober	M-045-00D Complete Renegotiation of the Remainder of the SST Waste Retrieval and Closure Program
4th Quarter FY 2011 July - September	P-045-16-T01	7/31/2011	P.S. Schaus	R.W. Lober	P-045-16-T01 Final Completion of tank S-105, S-106, and S-103 SST Retrieval and Closure Demonstration Project
	M-045-05-T09	9/30/2011	P.S. Schaus	R.W. Lober	M-045-05-T09 Initiate Tank Retrieval from 10 Additional SSTs
	M-045-02T	9/30/2011	P.S. Schaus	R.W. Lober	M-045-02T Submit Annual Update of SST Retrieval Sequence Document
2nd Quarter FY 2012 January - March	M-045-06-T03	3/31/2012	P.S. Schaus	R.W. Lober	M-045-06-T03 Initiate Closure Actions on Operable Unit or Tank Farm Basis
4th Quarter FY 2012 July -	M-045-05-T10	9/30/2012	P.S. Schaus	R.W. Lober	M-045-05-T10 Initiate Tank Retrieval from 12 Additional SSTs
	M-045-02U	9/30/2012	P.S. Schaus	R.W. Lober	M-045-02U Submit Annual update of SST Retrieval Sequence Document

Key

* - Due date changes in October to 01/31/2005 based on TPA change request M-045-02-04.

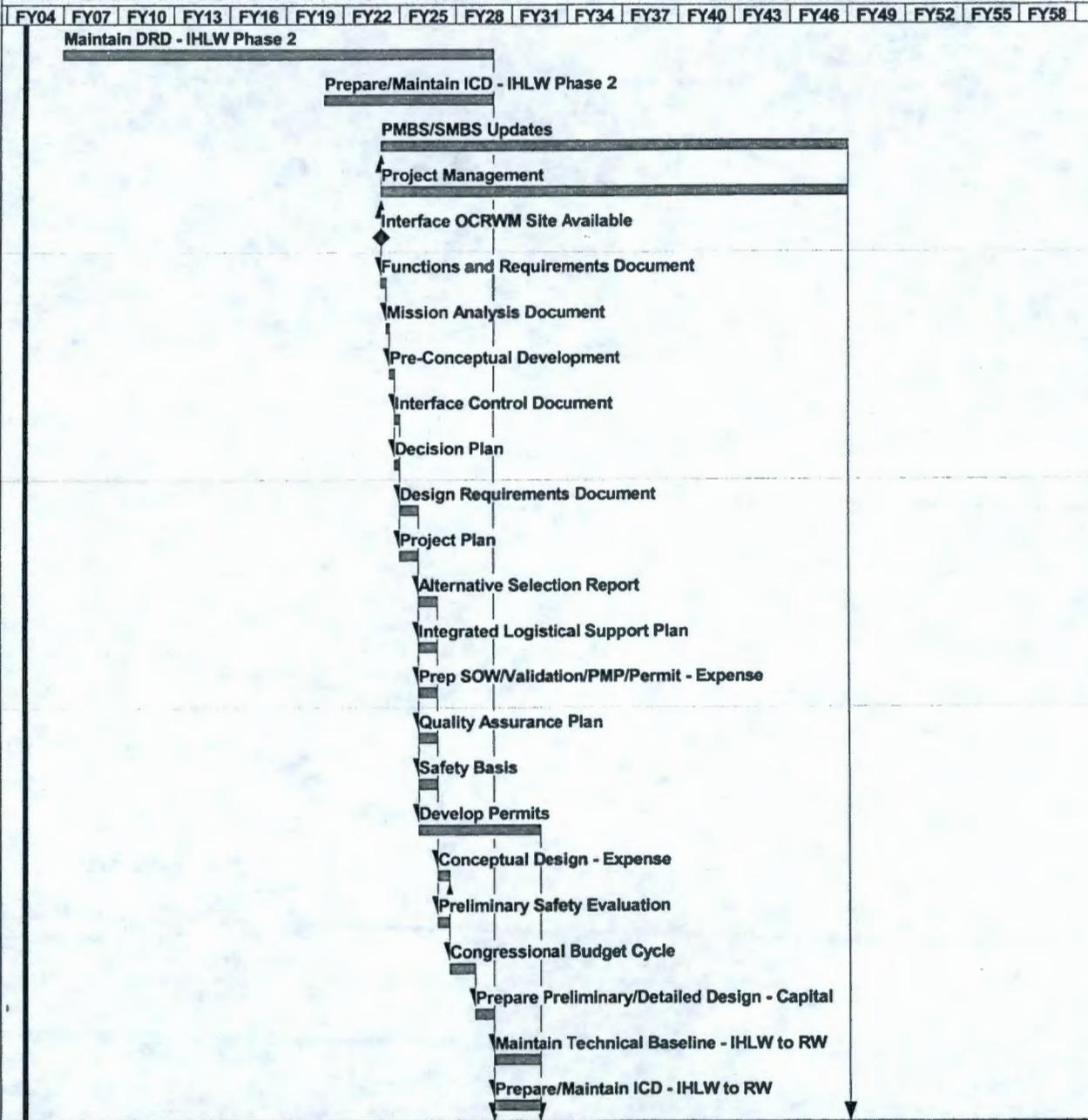
Red - In Jeopardy

Orange - Overdue

Blue or Blue Highlight - Document Deliverable

Green - Proposed Milestone

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	SRT5	SRT6
TH61030A1	1	5,793	5,793	01OCT04*	30SEP27	1,007	H	C
TH61030A2	1	2,268	2,268	01OCT18*	30SEP27	1,007	H	C
TH57010A1	1	6,296	6,296	01OCT21	28SEP46	1,007	H	C
TH57010A2	1	6,296	6,296	01OCT21	28SEP46	1,007	H	C
TH57020A1	1	0	0	01OCT21*		1,007	H	C
TH57020A2	1	62	62	01OCT21	31DEC21	1,007	H	C
TH57020A3	1	62	62	04JAN22	31MAR22	1,007	H	C
TH57020A4	1	64	64	01APR22	30JUN22	1,007	H	C
TH57020A5	1	64	64	01JUL22	30SEP22	1,007	H	C
TH57020A6	1	64	64	01JUL22	30SEP22	1,007	H	C
TH57020A7	1	251	251	03OCT22	29SEP23	1,007	H	C
TH57020A8	1	251	251	03OCT22	29SEP23	1,007	H	C
TH57010A3	1	252	252	02OCT23	30SEP24	1,007	H	C
TH57010A4	1	252	252	02OCT23	30SEP24	1,007	H	C
TH57060A1	1	252	252	02OCT23	30SEP24	1,007	H	C
TH57090A1	1	252	252	02OCT23	30SEP24	1,007	H	C
TH57090A2	1	252	252	02OCT23	30SEP24	1,007	H	C
TH57100A1	1	1,635	1,635	02OCT23*	29MAR30	1,007	H	C
TH57060A2	1	167	167	01OCT24	30MAY25	1,007	H	C
TH57090A3	1	167	167	01OCT24	30MAY25	1,007	H	C
TH57010A5	1	337	337	02JUN25	30SEP26	1,007	H	C
TH57060A3	1	252	252	01OCT26	30SEP27	1,007	H	C
TH57030A1	1	627	627	01OCT27	29MAR30	1,007	H	C
TH57030A2	1	627	627	01OCT27	29MAR30	1,007	H	C



Start Date	01OCT99	Early Bar
Finish Date	28SEP50	Progress Bar
Data Date	01OCT02	
Run Date	13NOV02 09:12	

MC12
 Sheet 1 of 2
 FY02/Sept. 'EOM' Adm. CHG.#C023
 Critical Path M-090-00
 September 2002

Date	Revision	Checked	Approved

