

Meeting Minutes Transmittal/Approval
Tri-Party Agreement Milestone Review Meeting
2704 HV/G206/200E
October 29, 1996

From/ Appvl.: Jay Auguste by Sr. Date: 11/26/96
Charlie A. Hansen, RL
IAMIT Representative

Appvl.: Michael Wilson Date: 11/26/96
Michael Wilson, Ecology
IAMIT Representative

Appvl.: Doug Sherwood Date: 11/26/96
Doug Sherwood, EPA
IAMIT Representative

Prepared by Appvl.: Janice D. Williams Date: 11/26/96
Janice D. Williams
Fluor Daniel Hanford, Inc.

Attendees

Arnold, L. D.	FDH	B2-35	Pacheco, C. R.	RL	S7-54
Dahl, S. L.	Ecology	B5-18*	Roeder-Smith, L	JAC	H0-51
Ellis-Balone, G.	RL	A5-15	Royack, M. J.	RL	S7-54*
Haass, C. C.	RL	S7-51*	Sanders, G. H.	RL	A5-15*
Hansen, C. A.	RL	S7-41	Selby, M. A.	Ecology	B5-18*
Jackson, D. E.	RL	A5-15	Stevenson, M. W.	FDH	B2-35
Marchetti, S	FDH	S7-40	Taylor, W. J.	RL	K6-51*
Martin, M.	FDH	S7-40*	Williams, J. D.	FDH	B2-35
McClusky, J.	RL	S7-54*	Wilson, M. A.	Ecology	B5-18*
McLaughlin, M. A.	FDH	B2-35	EDMC		H6-08*

* W/Attachments

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Meeting Minutes
TPA Milestone Review Meeting
2704HV/G206/200E
October 29, 1996

Carolyn Haass, RL, presented an overview of the TWRS milestones (Attachment 1). The following minutes highlight the key items discussed.

1. **W-030 Project**

Congressional Reprogramming has been received and W-030 will be completed by October 1997 (will support M-17-00B). The 216 Consent Order change request will be sent to Ecology for approval to make it consistent with the Tri-Party Agreement.

2. **M-43-00**

What is included in M-43-00 by June 2005 needs to be clarified. A letter has been transmitted to Mike Wilson, Ecology, to initiate discussions.

3. **M-44-09**

M-44-09 - Response will be coming from Ecology (sub-project manager David Dougherty, with support from Alex Stone) by the end of this week on the 40 TCRs delivered to Ecology on September 30, 1996.

4. **TWAP**

TWAP for FY 1997 will be submitted October 31, 1996 with 40 TCRs included. RL requested that Ecology not out-right reject the TCRs. The Parties are working together in a partnering workshop to address the issues on the TCRs. The contractor has a December 6, 1996 deadline to submit a plan on how to meet the TWAP for 1997.

5. **M-45-00**

An M-45 related review is in progress by FDH/LMC that will contain the schedule. The secretarial initiative for start of C-106 sluicing is behind schedule, which is due one year ahead of the M-45-03A milestone (due October 31, 1996). The Tri-Party Agreement milestone is on schedule at this time.

Action: Dahl/Haass will work together to get the appropriate TWRS PI personnel together by November 6, 1996, to set the meeting dates for the Ecology/DOE led sessions to be scheduled for March 1997.

6. **Overview of MYPP**

The final agenda item, Overview of MYPP, was deferred to the afternoon IAMIT meeting.

ATTENDEES

TRI-PARTY AGREEMENT QUARTERLY MILESTONE REVIEW (TWRS)

DATE: OCT. 29, 1996

<u>NAME</u>	<u>ORGANIZATION</u>	<u>MAILSTOP</u>	<u>(✓) FOR ATTACHMENTS</u>
<u>CAROLYN HAASS</u>	<u>RL-TWRS</u>	<u>?</u>	<u>✓</u>
<u>LARRY ARNOLD</u>	<u>FDH-TPAI</u>	<u>B2-35</u>	<u>—</u>
<u>Janice D. Williams</u>	<u>FDH-TPAI</u>	<u>B2-35</u>	<u>—</u>
<u>George Sanders</u>	<u>DOE-EAP</u>	<u>A5-15</u>	<u>—</u>
<u>Charles Hansen</u>	<u>DOE-RL</u>	<u>57-41</u>	<u>✓</u>
<u>Melodie Selby</u>	<u>Ecology</u>	<u>B5-18</u>	<u>✓</u>
<u>Mike Wilson</u>	<u>~</u>	<u>~</u>	<u>✓</u>
<u>SAL MARCHETTI</u>	<u>FDH-TWRS</u>	<u>57 40</u>	<u>—</u>
<u>Margaret Martini</u>	<u>FDH-TWRS</u>	<u>57-40</u>	<u>✓</u>
<u>Lynne Reeder-Smith</u>	<u>Jason Assoc.</u>	<u>H0-51</u>	<u>—</u>
<u>MaryAnn McLaughlin</u>	<u>FDH/TPAI</u>	<u>B2-35</u>	<u>—</u>
<u>Geneva Ellis-Balone</u>	<u>DOE-RL</u>	<u>A5-15</u>	<u>—</u>
<u>DALE JACKSON</u>	<u>DOE-RL-EAP</u>	<u>A5-15</u>	<u>—</u>
<u>BILL TAYLOR</u>	<u>DOE-RL-TWRS</u>	<u>SIGMA-IV</u>	<u>✓</u>

10/29/96

MILESTONE M-40-00 SAFETY ISSUE RESOLUTION

- Milestone Description: Mitigate/Resolve Tank Safety Issues for High Priority Watch List Tanks (September 2001)
 - Includes Flammable Gas, Ferrocyanide, Organic, and High-Heat
 - M-40-09 - Close all USQs (September 1998)
 - M-40-10 - Complete Vapor Space Monitoring for all Flammable Gas tanks (January 1997)
 - M-40-12 - Resolve Criticality Safety Issue (September 1999)

Last Three Months

- Closure of the ferrocyanide safety issue
- Removal of ferrocyanide tanks (18) from the Watch List
- Expanded USQ for flammable gas issue

Next Six Months

- M-40-10, Complete Vapor Space Monitoring (January 1997)
- Determine budget to support TPA milestones M-40-09 and M-40-12 during FY '97

Issues

- M-40-10: Standard Hydrogen Monitoring Systems (SHMS) are installed on current 25 flammable gas Watch List tanks
- M-40-00 is currently on schedule, however:
 - Expanded USQ's,
 - Addition of tanks to Watch List,
 - Budget levels through FY 2001may impact ability to meet schedule

MILESTONE M-41-00 COMPLETE SINGLE-SHELL TANK INTERIM STABILIZATION

- Milestone Description
 - Complete interim stabilization and intrusion prevention of 148 single-shell tanks by September 30, 2000.
(currently have completed interim stabilization on 116 tanks and intrusion prevention on 102 tanks)

Past Three Months

- Safety Assessment was completed to allow safe restart of pumping activities in A-101
- Safety screening for flammable gas issues are on-going
- S-108 was interim stabilized.
- Restart of pumping on BY-109 was initiated on 9/10/96
- Intrusion prevention activities were completed on nine tanks in C and BX Farms
- M-41-00 milestone negotiations were completed on September 24, 1996.

Next Six Months

- Flammable gas monitors will be installed on all tanks that are left to be pumped.
- Five tanks currently being pumped for interim stabilization
- Abandoned equipment is being removed from S, SX and BY-Farms

ISSUES

- Saltwell pumping on A-101
 - physical configuration of tank differs somewhat from safety assessment
 - pumping delays caused by supplemental safety assessment
- Flammable Gas
 - all remaining tanks to be pumped are impacted by flammable gas issue
 - safety assessment for A-101 is the template that will be followed when pumping remaining tanks
- Budget
 - M-41 interim milestones are currently not impacted by TWRS FY'97 funding problems

MILESTONE M-43-01

Tank Farm Ventilation Upgrades

- Milestone Description: Project W-030 will provide a new primary ventilation and recirculation cooling system for 241-AY and 241-AZ Tank Farms. New ventilation systems are to be installed, tested and turned over to operations by October 1997.
 - M-43-01, Project W-030 Tank Farm Ventilation Upgrades (October 1997)
 - M-43-01C, Begin Operation (October 1997)

Past Three Months

- Safety Analysis Report at RL for review and approval
- Stopped work due to delayed receipt of funds
- TPA change package approved to reflect October 1997 completion date

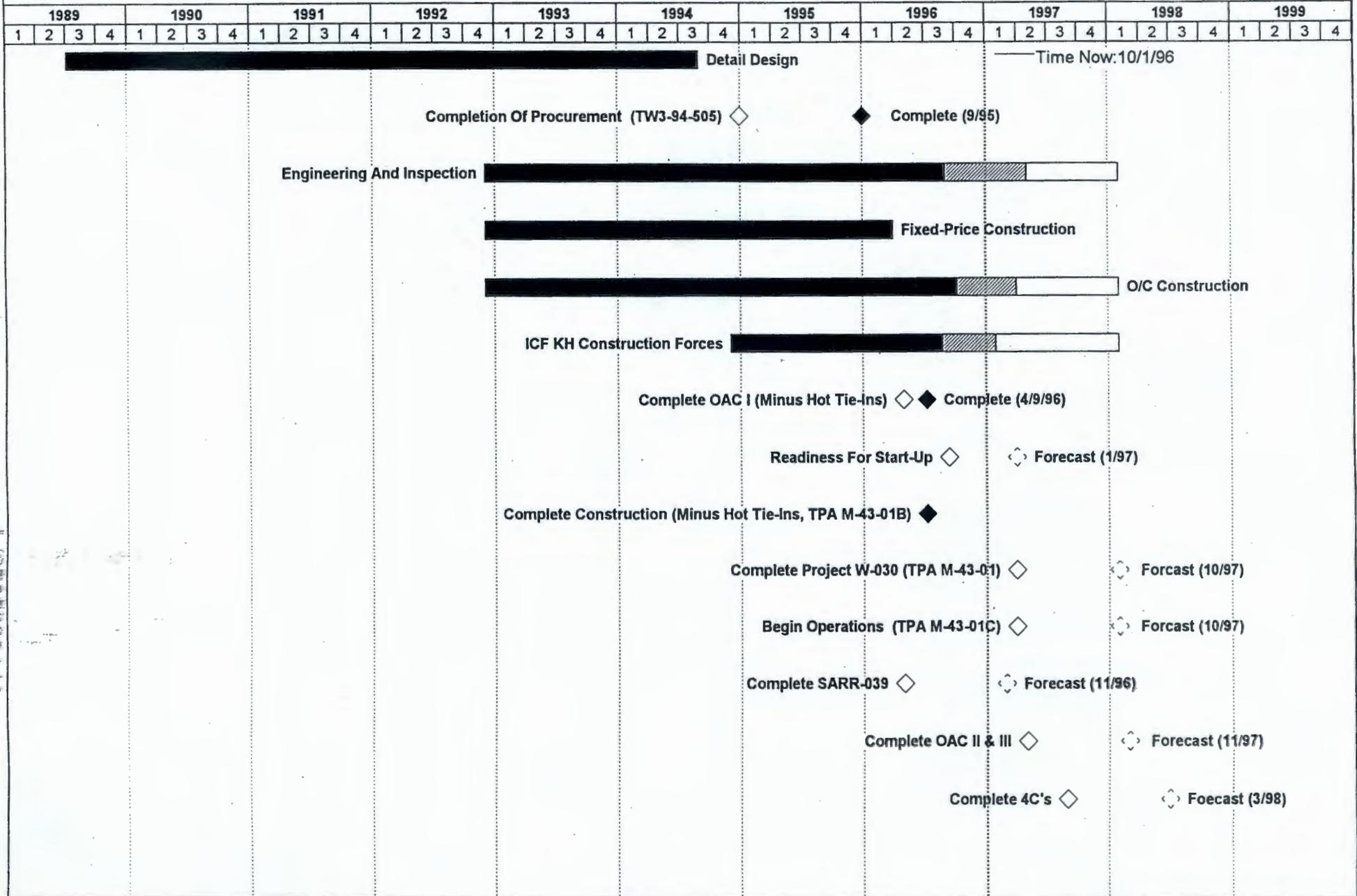
Next Six Months

- Approval of congressional reprogramming request
 - received
- Restart project for scheduled completion by October 1997

ISSUES

- Integrating AY-AZ tank farm activities (C-106 retrieval, W-151 mixer pump startup, W-030 tie-ins)
- Not completing W-030 by October 1997 causes M-17-00B (BAT/AKART for all Phase II Liquid Effluent Streams) to be missed

W-030 TANK FARM VENTILATION UPGRADE



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MILESTONE M-43-07

CROSS-SITE TRANSFER SYSTEM

- **MILESTONE DESCRIPTION:** Project W-058 will replace the present cross-site transfer system with a buried pipe-in-pipe system, approximately 6 1/2 miles long. This system will be capable of transferring liquid waste in either direction between the Hanford 200 East and 200 West Areas and slurries from the 200 West Area to the 200 East Area. This Project will provide a compliant and reliable transfer system linking 200 East Area and 200 West Area in support of urgent near-term operational needs and the long-term TWRS mission.
 - M-43-07B, Construction Complete (8/31/97)
 - M-43-07, Complete Project W-058 (2/28/98)
 - M-43-07C, System Operational (2/28/98)

Past Three Months

- Pipeline construction 35% complete
 - 1 3/4 miles completed
 - poured concrete for diversion box
- Primary pipe installation between diversion box and vent station nearing completion
- Start-up activities have been accelerated
 - issued contract to LATA to regain schedule
 - startup plan/procedures
- Sagebrush mitigation 80% complete.
 - transplanted old growth sagebrush (90% survival rate)
 - report being issued to Ecology by November 30, 1996

Next Six Months

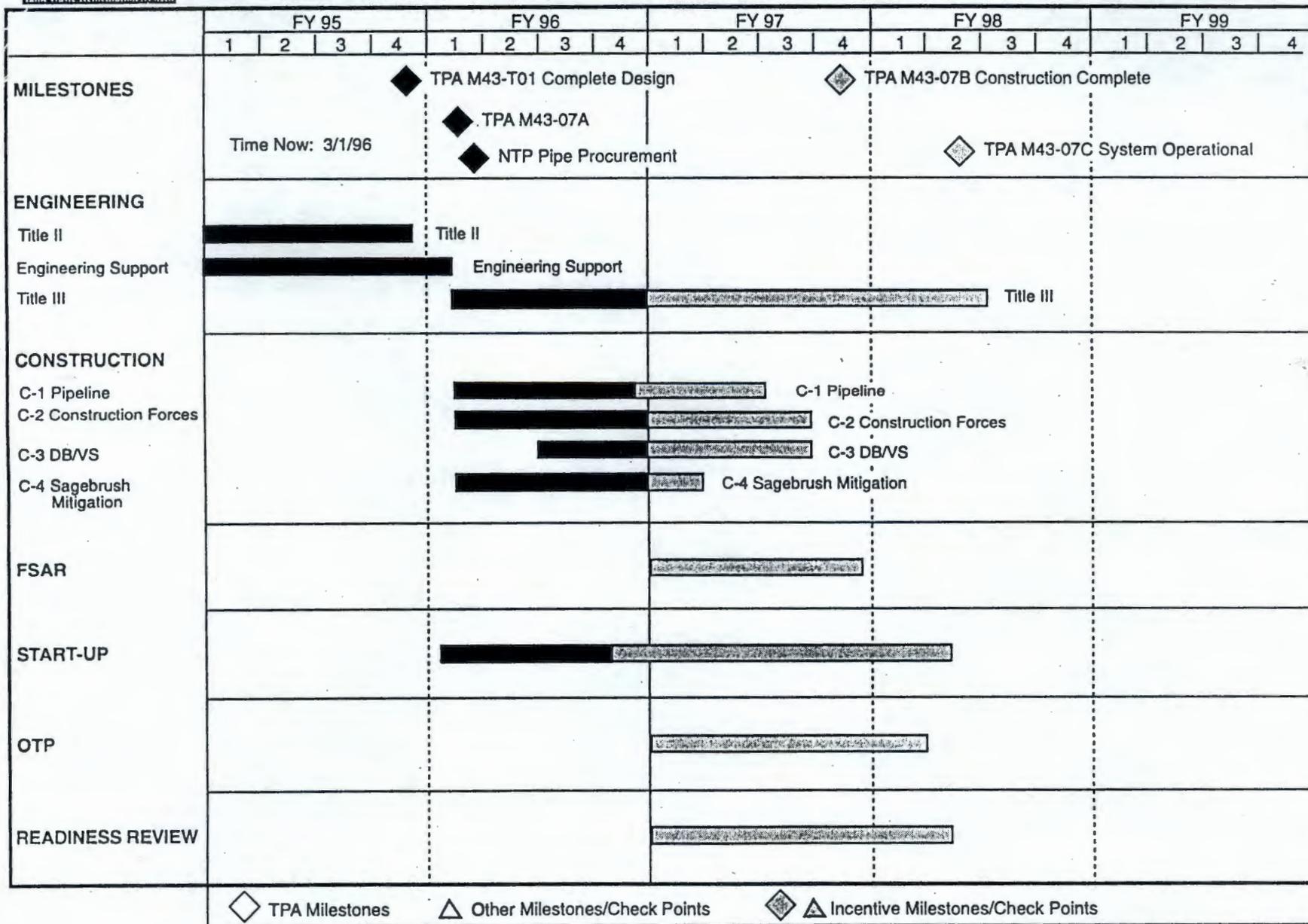
- Pipe fabrication and installation between diversion box and vent station. Diversion box/vent station construction continues. Hydrostatic pressure test expected by November.
- Excavation is complete in SY-Farm and 244-A Lift Station. Core drilling and nozzle installation will begin in early November.
- Readiness review, FSAR, and OTP to begin

ISSUES

- Contractor is 1 to 2 months behind pipe installation schedule. Recovery actions are in place.
- Complete hydrostatic pressure test between vent station and diversion box by November.



FY 1996 W-058 REPLACEMENT OF CROSS SITE TRANSFER SYSTEM



◆ TPA Milestones ▲ Other Milestones/Check Points ◆▲ Incentive Milestones/Check Points

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MILESTONE M-43-00

Complete Tank Farm Upgrades

- PROJECT W-314, Tank Farm Restoration and Safe Operations, is scoped to bring identified double-shell tank ventilation, instrumentation, electrical, and transfer systems into compliance with Dangerous Waste regulations. The project is currently planned, in the next three years, to support the privatization initiative with the remaining scope to be completed by June 2005.
 - M-43-10, Start Definitive Design for Project W-314
January 31, 1997
 - M-43-11, Provide the W-314 project construction schedule to Ecology
September 30, 1998
 - M-43-12, Start construction for upgrades in the first tank farm
June 30, 1999

MILESTONE M-43-00

Complete Tank Farm Upgrades (con't)

- M-43-13, Start construction for upgrades in the second tank farm
June 30, 2000
- M-43-14, Start construction for upgrades in the third tank farm
March 31, 2001
- M-43-15, Start construction for upgrades in the fourth tank farm
March 31, 2002
- M-43-16, Start construction for upgrades in the fifth tank farm
June 30, 2003

Past Three Months

- Completed Summary Project Plan
- Performed planning for a prioritized execution approach
- Continued to support the FM-20 ICE review

Next Six Months

- Receipt of budget validation
- Receipt of Critical Decision 2 under DOE Order 340.1
- Begin Definitive Design by Jan 31, 1997 (M-43-10)

ISSUES

- Continuing uncertainty regarding impacts to M-43-10 due to funding constraints from FY '97 through 2000 requiring a CDR revision
- Obtaining HQ Field Management (FM 20) support for project

M-44-00

DOUBLE AND SINGLE SHELL TANK CHARACTERIZATION

- Milestone Description: Issue tank characterization reports (TCRs) based on process knowledge, prior characterization data, and validated empirical data acquired after May 1989 for 177 tanks.
 - M-44-02C, Final TWAP for FY '97 10/31/96
 - M-44-01D, Draft TWAP for FY '98 5/31/97
 - M-44-02D, Final TWAP for FY '98 8/30/97
 - M-44-10, Deliver 40 TCRs 9/30/97

Last Three Months

- Completed Milestones M-44-09. Delivered 40 TCRs to Ecology on 9/30/96.
- Increased core sampling rate by 56% and sample recovery by 18% over FY '95 rates.
- Completed 39 retained gas samples in support of Flammable Gas project.
- Increased 222-S laboratory productivity 150% over that achieved in FY '95.
- Completed privatization samples and shipped Phase I samples to privatization contractors.
- Completed Revision 2 to the Tank Waste Characterization Technical Basis.

Next Six Months

- Sampling and analysis will continue at FY '96 rate per RL/Ecology agreement documented in TPA Change Request
- Work with Ecology to develop a TWAP for FY '97. The TWAP will be submitted October 31, 1996
- Partnering workshop October 23-24, 1996
- Resolution of TPA Milestone M-44 and budget

Issues

- Budget
- Approval process for TCRs
- Negotiations with PHMC on TWAP and TCRs
- Rotary mode core sampling qualification for flammable gas tanks

Cost Performance

Note: Dollars in Millions	Cumulative to Date	At Completion
Budgeted Cost Work Scheduled (BCWS)	\$7.7M	\$7.7M
Budgeted Cost Work Performed (BCWP)	\$5.8M	\$7.0M
Actual Cost Work Performed (ACWP)	\$5.7M	\$5.7M
Variances:		
Costs (Note 1)	.1M	0.7M
Schedule (Note 2)	-1.9M	-0.7M

Note 1: $BCWP - ACWP = \text{Cost Variance}$

Note 2: $BCWP - BCWS = \text{Schedule Variance}$

MILESTONE M-45-00 COMPLETE CLOSURE OF ALL SINGLE SHELL TANK FARMS

- Milestone Description: Complete closure of all single shell tanks farms by 2024. Closure will follow retrieval of as much tank waste as technically possible.
 - M-45-02, Annual Update of SST Retrieval Sequence Document for Ecology Approval
 - M-45-03A, Initiate sluicing retrieval of C-106 10/31/97
 - M-45-04A, Complete conceptual design for the initial SST Retrieval System 4/30/97
 - M-45-08, Establish full scale capability for mitigation of waste tank leakage during retrieval sluicing operations 6/30/2003
 - M-45-09, Submit annual progress reports on the development of the Leak Detection and mitigation activities in support of M-43-08

Past Three Months

- Submitted SST Tank Retrieval Sequence Document to Ecology
- Submitted Leak Detection/Monitoring and Mitigation Report to Ecology
- Completed 60% Title II Design for retrieval of Tank 102-SY
- Submitted SST Closure Plan Rev. 2 to Ecology
- Prepared Hanford Tank Initiative Test Plan
- Completed AY-Farm/C-Farm piping, installed pumps, and accepted C-106 chiller

Next Six Months

- Complete Conceptual Design for initial SST retrieval system (M4~~6~~⁹-04A) (4/07)
- Begin establishing criteria for Leak Detection/Monitoring and Mitigation
- Begin mixer pump operations on 101-AZ
- Complete Title II Design for Tank 102-SY
- Complete C-106 retrieval construction
- Issue Hanford Tank Initiative Project Plan

Issues

- Budget Impacts
 - SST Retrieval
- C-106 Retrieval Delays
 - Construction
 - Operations
- Non-TPA Impacts
 - Retrieval sequence impacts 2018 SST Retrieval

M-46 MILESTONES DOUBLE SHELL TANK SPACE EVALUATION

- Milestone Description: A tank volume projection report shall be submitted on an annual basis to Ecology and EPA. This report shall include discussions covering all assumptions which form the basis of the projection. The report shall include or shall be accompanied by DOE's plans for acquisition of additional tanks based on the tank volume projection.
 - M-46-00, Submit Annual Double-Shell Tank Space Evaluation Report
 - M-46-01, Annual Ecology Concurrence of Additional Tank Acquisition

Past Three Months

- Submitted Operational Waste Volume Projection Report
- Planned actions for FY 1997

Next Six Months

- Receipt of Ecology concurrence not to build new tanks
- Evaluate assumptions and determine/implement actions for waste volume management

Issues

- Integrity of DSTs
- Determine complexed TRU waste compatibility/segregation in 200 West area

PRIVATIZATION MILESTONES

- M-50-00, December 31, 2028
 - Complete Pretreatment Processing of Hanford Tank Waste
- M-51-00, December 31, 2028
 - Complete Vitrification of Hanford High Level Tank Waste
- M-60-00, December 31, 2024
 - Complete Pretreatment and Immobilization of Hanford Low Activity Tank Waste
- M-61-00, December 31, 2028
 - Complete Pretreatment and Immobilization of Hanford Low Activity Tank Waste

Last Three Months

- Award two or more design-only contracts for Phase I LAW Pretreatment and Immobilization (M-60-08, due January 1997). Contract awards were made ~~August 25~~^{September}, 1996.
- Completion of M-60-09, Independent Analysis of Contracting Mechanisms for Alternative Path (M-61-00). Due 30 days after completion of M-60-08. Transmitted to Ecology on October 24, 1996.
- Completion of M-50-03-T2B, Enhanced Sludge Washing Report.

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Issues

- Funding for Milestone M-61-00

MILESTONES M-90 INTERIM STORAGE AND DISPOSAL OF LAW AND INTERIM STORAGE OF HLW

- Milestone Description: Establishes new major milestone and associated interim milestones and target dates, governing the acquisition of new facilities, modification of existing facilities and/or modification of planned facilities necessary for 1) interim storage of TWRS IHLW and 2) interim storage and disposal of TWRS ILAW.

Major Milestones

- M-90-00, TBE (6 months after approval of PMP)
 - Complete acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities as necessary.
- M-90-01, December 1997
 - Submit interim storage and disposal ILAW, and interim storage IHLW Project Management Plans to Ecology
- M-90-03, June 2001
 - Initiate ILAW interim storage facility construction
- M-90-06, December 2002
 - Initiate hot operations of ILAW interim storage facility

Major Milestones (con't)

- M-90-08, June 2003
 - Initiate ILAW disposal facility construction
- M-90-10, December 2005
 - Initiate hot operations of ILAW disposal facility
- M-90-11, December 2002
 - Complete canister storage facility construction
- M-90-12, June 1999
 - Submit revised canister storage facility Part A Dangerous Waste Permit application to Ecology

Last Three Months

- Public comment period ended October 3, 1996
 - comments received only from ODOE
- Complete responses to public comments and submit for Tri-Party signature approval by November 8, 1996.