

0048409

**Meeting Minutes Transmittal/Approval**  
**Project Manager's Meeting: TWRS Single and Double Shell Tank Milestones**  
**2704HV/Room G206**  
**200 East Area, Hanford Site, Richland, Washington**

**February 27, 1997**



Approval: *Carolyn Haass*  
Carolyn Haass, TWRS TPA Program Manager  
U.S. Department of Energy, Richland Operations Office

Date: 4-15-97

Approval: *Suzanne Dahl*  
Suzanne Dahl, TWRS Program Manager  
Washington State Department Of Ecology

Date: Oct 15 97

Approval: *B.K. Hampton*  
Keith Hampton, Program Integration  
Fluor Daniel Hanford

Date: 10/16/97

Author: *Lynne Roeder-Smith*  
Lynne Roeder-Smith, Coordinator  
Jason Associates Corporation

Date: 7-11-97

Meeting Minutes are attached. Minutes are comprised of the following:

- Attachment 1: Agenda
- Attachment 2: Attendance and Meeting Minutes Summary/Action Items

- Handout 1: Presentation Package
- Handout 2: M-41-00 Presentation
- Handout 3: M-43-00, Project W-030 Presentation
- Handout 4: Project W-314 Performance Summary Schedule
- Handout 5: Project W-314 and Project W-211 Transfer Systems Upgrades (diagram)
- Handout 6: M-45-00 Presentation and DST Retrieval System Needs Profile

DRAFT AGENDA  
 TWRS TPA PROJECT MANAGER'S MEETING

Thursday, February 27, 1997  
 12:30 - 4:30 pm  
 2704HV/G-110/200E

BEGIN	END	SUBJECT	PRESENTER
12:30	12:40	M-40, Safety Issue Resolution	D. Irby
12:40	1:10	M-41, Interim Stabilization	J. Clark
1:10	1:30	M-43-01, Project W-030, Tank Farm Ventilation Upgrade	L. Pacheco
1:30	1:40	M-43-07, Project W-058, Replacement Cross-Site Transfer Line	B. Harp
1:40	2:00	M-43-09, Project W-314, Tank Farm Upgrades + Project Acceleration Rational	J. Navarro
2:00	2:15	M-44, Characterization	J. Poppiti
2:15	2:30	BREAK	*****
2:30	2:45	M-45, SST Waste Retrieval and Closure + HTI Public Involvement + Vadose Zone Integration + Project W-211 Acceleration Rational	W. Wrzesinski
2:45	3:00	M-46, DST Space Evaluation	M. Ramsay
3:00	3:10	M-50, Tank Waste Pretreatment	P. Furlong
3:10	3:20	M-51, HLW Vitrification + IPT Status/Issues/Infrastructure Interface with PHMC + Schedules + Public Involvement + 10-Yr Funding Guidance	P. Furlong
3:20	3:30	M-60, LLW Vitrification + IPT Status/Issues/Infrastructure Interface with PHMC + Schedules + Public Involvement + 10-Yr Funding Guidance	P. Furlong
3:30	3:40	M-61, Alternative Path for Privatization	P. Furlong
3:40	3:50	M-90, LAW/HLW Interim Storage and Disposal Facility + Storage/Disposal Permitting Schedule	P. LaMont
3:50	4:00	Action Item Recap; Closing Comments	L. Roeder-Smith

Attendance:

U.S. Department of Energy, Richland Operations Office

John M. Clark  
Peter Furlong  
Dennis Irby  
Dale Jackson  
Phil LaMont  
Jim McClusky  
Jim Navarro  
Bruce Nicoll  
Carolina Pacheco  
Jim Thompson  
Don Wodrich  
Wendell Wrzesinski

Washington State Department of Ecology

Alex Stone

Fluor Daniel Hanford, Inc.

MaryAnn McLaughlin  
Marc Stevenson

Lockheed Martin Hanford Corporation

James J. Badden  
David Barnes  
Brad Erlandson  
Dave Saueressig  
Vikki Wagner

Other Support Contractors

Bob Cash, DESH  
Greg Parsons, NHC  
Lynne Roeder-Smith, Jason

M-40-00, SAFETY ISSUE RESOLUTION - DENNIS IRBY

M-40-10, "Complete Vapor Space Monitoring for All Flammable Gas Generating Tanks" was completed and the report issued last month (January). This report contains data used in monitoring.

ACTION: D. Irby to provide Ecology (A. Stone) with M-40-10 closeout documentation.

The scope of M-40 remains constant in outyears, but outyear funding levels are uncertain due to the possibility of any number of budget actions.

M-41-00, INTERIM STABILIZATION - JOHN CLARK (Handout)

A status on Tank BY-112 was provided by Dave Barnes, LMHC. Neutron profile scans performed in the tank showed zero moisture count in the vapor space, residual moisture in the saltcake, and a liquid interface at the top of the tank. The only way to analyze ILL is trend analysis; no ONE data point can be used as an indicator. If a data point shows up outside of 3sigma, it is a potential leak point; however, if the same data point moves back above the line (3sigma), it reverts back to tolerance level. A possible leaker was identified using the offset feature to collect the data sample. However, new evidence points to a sludge layer in the middle of the tank and a liquid pool at the bottom (1.2ft from the bottom). A final report will be issued by mid-March; current evidence supports conclusion of no leakage.

ACTION: J. Clark/D. Barnes will look into resource savings from discontinuing repetitive LOW monitoring and analysis and advise Ecology of results.

Technology is not available to determine a leak within 24 hours; RL currently interprets the regulation as "within 24 hours of discovering or determining a leak exists, take the following actions..." Ecology reiterated that the 30-day window to determine tank status is a maximum and not to be construed as a routine work element.

BY-109 started pumping in September but is currently stalled. T-110 is not pumping yet. RL has directed FDH to investigate other options to complete saltwell pumping using other methods than current slot cutting mechanism. Results of this investigation are due 3/27/97.

M-43-00, PROJECT W-030, TANK FARM VENTILATION UPGRADES - LINA PACHECO (Handout)

The contractor rebaseline is due to the Change Control Board on 3/5/97. Milestone is in jeopardy, based on past performance. Activities in support of Milestone M-17 are on or ahead of schedule.

M-43-00, PROJECT W-058, CROSS SITE TRANSFER LINE - GREG PARSONS

The project remains approximately one month behind schedule. Major construction activities should be complete by end of June. Testing to follow, then completion letters will be sent to the regulators. Milestone is not in jeopardy at this point.

M-43-00, PROJECT W-314, RESTORATION AND SAFE OPERATIONS - JIM NAVARRO

Approximately 2 weeks behind schedule; should have plenty of time to recover. Anticipated project acceleration for Phase I activities (by 1 ½ years) would require additional funding and a change request to free up tank space for in-tank sludge washing for LLW vendors. RL does not want to use the existing A-101 line because it is a 2" line, not 3" (risk reduction issue). Funding is not in place yet. Phase II activities will be accelerated to meet a 4/2000 schedule.

M-44-00, CHARACTERIZATION - JIM POPPITI

M-44-01D and M-44-02D: RL sent a letter to Ecology requesting holding off on these milestones until dispute resolution is completed. Partnering Group continues to work on M-44-02C dispute resolution.

Push mode was stopped on 2/26 due to Authorization Basis concerns (estimated 2-4 weeks in shut down). Authorization Basis continues to expand the cost/schedule variance; a project rebaseline is in progress. Tank C-106 is not currently on the sampling schedule. Lead time to sample depends on sample and analysis required.

Ecology indicated their concern that there is still no core sample from C-106, and this item may be needed to resolve C-106 safety issues. There is currently no plan to sample C-106, however, depending on the type of sample needed, it may be possible within the requested timeframe. Grab samples could be taken and analyzed by 10/97 if requested and performed by 6/97. Sampling of hard pan would require supplemental funding to repair sample truck rotator platform and build sample fixture. Push mode sampling is dependent on resolution of DNFSB flammable gas issues.

M-45-00, COMPLETE CLOSURE OF ALL SINGLE SHELL TANK FARMS - WENDELL WRZESINSKI

S. McKinney asked what specifically the safety people need to have answered to be comfortable with the C-106 path forward.

ACTION: W. Wrzesinski will conduct an evaluation of appropriateness and value-added of additional C-106 sampling.

ACTION: W. Wrzesinski will provide S. McKinney with the names of safety issue personnel. (Complete).

M-45-03A: A change request was submitted to the Manager's office this week. \$9M in supplemental funding to come from TWRS.

M-45-04A: 90% design report submitted in early February. A walk through was conducted with contractors and Ecology. Cost indicates 3 tanks at \$180M - much higher than previously estimated.

M-45-08-T02: LDMM will be the subject of a meeting with Ecology on 2/28 to discuss the path forward. This project is being integrated with HTI and Vadose Zone projects.

M-46-00, DOUBLE SHELL TANK SPACE EVALUATION - MARK RAMSAY (no handouts)

Compatibility Update: The study on mixing complex and TRU waste is out and a copy was sent to Ecology. Commingling was determined not to be an issue in 102-SY. Waste was purposefully segregated in the past. Current recommendation is to reprogram funding for mixer pumps in 102-SY to engineering studies for privatization. This recommendation will go before the Chemical Reaction SubTAP in March.

OWVP: Assumptions from generators now in progress. Projecting out to 2000 to determine DST space needs. Waste Volume Reduction processing at 50% now, another 50% reduction later in the year for a total reduction of 1M gallons in FY97.

M-50-00, TANK WASTE PRETREATMENT - PETE FURLONG

ACTION: P. Furlong to confirm no in-tank sludge washing will be performed during Phase I.

Phase II chromium dissolution and Independent Review complete. A \$15 million change request is in process. Approximately \$2-2.5M to come out of WDD funding.

M-51-00, HLW VITRIFICATION - PETE FURLONG

Ecology requested that Sitewide project specific and infrastructure issues from Privatization IPTs be presented at these meetings from now on (procurement/business sensitive information excluded).

Ecology is concerned that funding guidance given in the 10-year plan does not match the level set aside for HLW treatment, storage and disposal after 1999.

The new Integrated Priority List contains a line item for privatization infrastructure in the outyears (Phase II).

M-60-00, LLW VITRIFICATION - PETE FURLONG

No record comments.

M-61-00, ALTERNATIVE PATH FOR PRIVATIZATION - PETE FURLONG

No comments.

M-90, LLW/HLW INTERIM STORAGE AND DISPOSAL FACILITY - PHIL LAMONT

M-90-05T: FY'97 is on schedule for baseline activities. Loss of funds early in the year put the project behind schedule; additional loss of funds will further impact ability to meet Performance Assessment (PA) deliverable. Asked whether this would impact the critical path for privatization, P. LaMont explained that it would not; waste will be stored until the PA determination to dispose or store is completed. Ecology was concerned whether it made economic sense to build a storage facility vs. a disposal facility.

Miscellaneous Discussion:

Ecology and RL discussed effectiveness of presentations for privatization milestones. Ecology stated their interest in more detailed discussions of IPT Interfaces, infrastructure activities, and permitting status.

**ACTION:** C. Haass/B. Erlandson/S. Dahl/L. Roeder-Smith to determine an approach for future presentations of M-51, -60, and -61 milestones status. (CLOSED, 03/5/97)

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# **MILESTONE M-40-00**

# **SAFETY ISSUE RESOLUTION**

**D. Irby**

# Milestone Description

M-40-00 "Mitigate/Resolve Tank Safety Issues for High Priority Watch List Tanks"  
(September 2001)

Includes Flammable Gas (FG), Ferrocyanide, Organic, High-Heat, and Criticality

M-40-09 - Close all USQs (September 1998)

M-40-12 - Resolve Criticality Safety Issue (September 1999)

# Roles and Responsibilities

Project Lead - Dennis Irby (acting) / Robert Cash

Flammable Gas - John Gray / Jerry Johnson

Ferrocyanide - Wally Hendrickson / Robert Cash

Organic - Stan Branch / Joe Meacham

High Heat - Russ Harwood / Dave Bratzel

# Issues

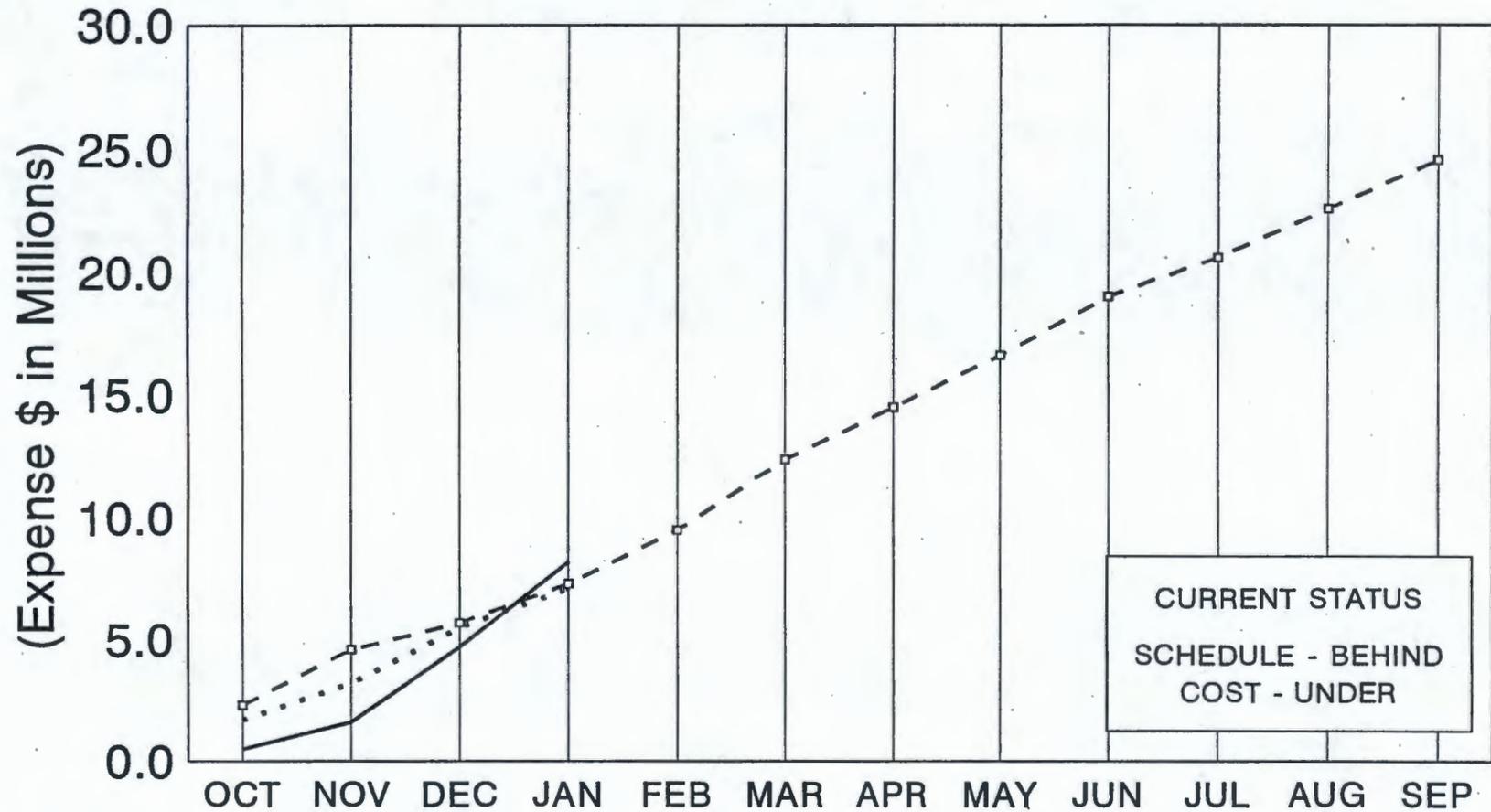
M-40-00 is currently on schedule, however budget levels beyond FY 1999 may impact ability to meet schedule

# Action Items

- None

# SAFETY ISSUE RESOLUTION SUMMARY - EXPENSE

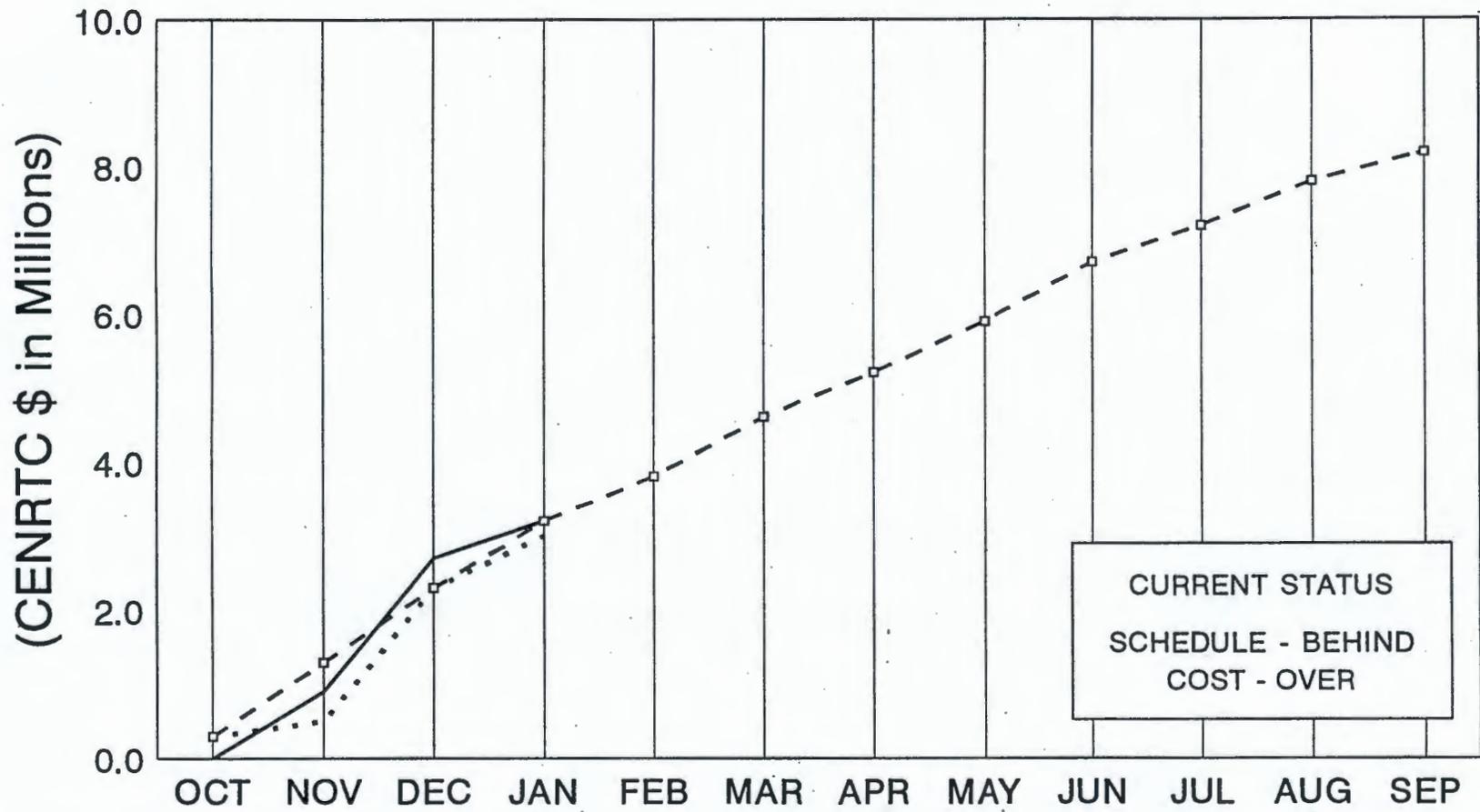
FY 1997 COST AND SCHEDULE PERFORMANCE



BCWS -□-	2.3	4.6	5.7	7.3	9.5	12.4	14.5	16.6	19.0	20.6	22.6	24.6
BCWP ···	1.7	3.2	5.5	7.1								
ACWP —	0.5	1.6	4.7	8.2								
SV	( 0.6 )	( 1.4 )	( 0.2 )	( 0.2 )								
CV	1.2	1.6	0.8	( 1.1 )								

# SAFETY ISSUE RESOLUTION SUMMARY - CENRTC

FY 1997 COST AND SCHEDULE PERFORMANCE



BCWS -□-	0.3	1.3	2.3	3.2	3.8	4.6	5.2	5.9	6.7	7.2	7.8	8.2
BCWP -●-	0.3	0.5	2.3	3.0								
ACWP -—	0.0	0.9	2.7	3.2								
SV	0.0	(0.8)	0.0	(0.2)								
CV	0.3	(0.4)	(0.4)	(0.2)								

**MILESTONE M-43-00**

**Project W-314**

**Tank Farm Restoration  
and Safe Operations**

**J. Navarro**

# Milestone Description

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 to execute the upgrades supporting Privatization needs through FY2000, complete upgrades in support of compliance with Dangerous Waste regulations by June 2005, and complete the remaining upgrades by FY2007.

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 Description (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

## **Status**

Met M-43-10, "Start Definitive Design for W-314" by initiating definitive design on January 17, 1997.

Awaiting approval of delegation of Critical Decisions 3 and 4 and baseline change control to EM, then to the field.

Directed the project to replan the initial phase to accelerate deliverables in support of privatization by an additional \$6M in FY98

U. S. DEPARTMENT OF ENERGY

COST PERFORMANCE REPORT - WORK BREAKDOWN STRUCTURE (FORMAT 1)

INTEGRATING CONTRACTOR		CONTRACT TYPE NO.		PROJECT NAME / NUMBER				REPORT PERIOD		DATE			
NUMATEC HANFORD COMPANY		CPAF DE-AC-06-87RL10900		TANK FARM RESTORATION AND SAFE OPERATIONS W-314 (97-D-402) EXPENSE				DECEMBER 30, 1996 TO JANUARY 26, 1997		18-Feb-97			
LOCATION RICHLAND, WA													
QUANTITY	NEGOTIATED COST	EST COST OF AUTH UNPRICED WORK	TARGET PROFIT / FEE %	N/A		TARGET PRICE	ESTIMATED PRICE	SHARE RATIO	CONTRACT CEILING	EST. CEILING			
	3,716	N/A				3,716	N/A	N/A	N/A	N/A			
WBS ELEMENT	CURRENT PERIOD						FISCAL YEAR TO DATE				AT COMPLETION		
	BUDGETED COST		ACTUAL COST	VARIANCE		BUDGETED COST		ACTUAL COST	VARIANCE		BUDGETED	LATEST REVISED ESTIMATE	VARIANCE
WORK BREAKDOWN STRUCTURE	WORK SCHEDULED	WORK PERFORMED	WORK PERFORMED	SCHED	COST	WORK SCHEDULED	WORK PERFORMED	WORK PERFORMED	SCHED	COST	BUDGETED	LATEST REVISED ESTIMATE	VARIANCE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1.3.B PROG INTEGRA & SUPPORT	24	38	204	14	(166)	395	373	411	(22)	(38)	395	425	(30)
1.3.C DESIGN & CONST SUPPORT	25	0	0	(25)	0	25	0	0	(25)	0	258	258	0
1.3.D CONCEPTUAL DESIGN	192	554	487	362	67	1,032	1,266	1,115	234	151	2,482	2,470	12
1.3.G NEPA DOCUMENTATION	11	0	0	(11)	0	47	0	1	(47)	(1)	134	5	129
1.3.J SITE CHARACTERIZATION	14	0	0	(14)	0	14	0	0	(14)	0	143	0	143
1.3.K STARTUP TESTING	27	28	1	1	27	36	34	17	(2)	(17)	245	245	0
1.3.L OPERATIONS PREPARATION	0	0	0	0	0	0	0	0	0	0	0	0	0
1.3.M INDEPENDENT REVIEWS	0	0	0	0	0	0	0	0	0	0	46	46	0
1.3.I QA PROGRAM PLAN	1	1	15	0	(14)	13	13	17	0	4	13	17	(4)
WBS SUBTOTAL	294	621	707	327	(86)	1,562	1,686	1,561	124	125	3,716	3,466	250
G&A / CSP (in above)	0	0	0	0	0	0	0	0	0	0	0	0	0
UNDIST. BUDGET											0	0	0
SUBTOTAL	294	621	707	327	(86)	1,562	1,686	1,561	124	125	3,716	3,466	250
CONTINGENCY - EXPENSE											0	0	0
TOTAL	294	621	707	327	(86)	1,562	1,686	1,561	124	125	3,716	3,466	250

U. S. DEPARTMENT OF ENERGY  
 COST PERFORMANCE REPORT - WORK BREAKDOWN STRUCTURE (FORMAT 1)

INTEGRATING CONTRACTOR		CONTRACT TYPE NO.		PROJECT NAME / NUMBER				REPORT PERIOD		DATE					
NUMATEC HANFORD COMPANY		CP AF DE-AC-06-87RL10900		TANK FARM RESTORATION AND SAFE OPERATIONS W-314 (97-D-402) CAPITAL				DECEMBER 30, 1996 TO JANUARY 26, 1997		18-Feb-97					
LOCATION RICHLAND, WA		EST COST OF AUTH UNPRICED WORK N/A		TARGET PROFIT/ FEE % N/A		TARGET PRICE 232,700		ESTIMATED PRICE N/A		SHARE RATIO N/A		CONTRACT CEILING N/A		EST. CEILING N/A	
WBS ELEMENT	CURRENT PERIOD						CUMULATIVE TO DATE						AT COMPLETION		
	BUDGETED COST		ACTUAL COST		VARIANCE		BUDGETED COST		ACTUAL COST		VARIANCE		BUDGETED	LATEST REVISED ESTIMATE	VARIANCE
	WORK SCHEDULED	WORK PERFORMED	WORK PERFORMED	SCHED	COST	WORK SCHEDULED	WORK PERFORMED	WORK PERFORMED	SCHED	COST					
WORK BREAKDOWN STRUCTURE	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)		
1.1.A PROJ MGT & INTEGRA	43	42	2	(1)	40	43	42	2	(1)	40	7,340	7,340	0		
1.1.B PROJECT ENGINEERING	21	21	1	0	20	21	21	1	0	20	4,198	4,198	0		
1.1.C SYSTEMS ENGR MGT	18	18	0	0	18	18	18	0	0	18	1,641	1,641	0		
1.1.D QUALITY ASSURANCE	7	7	0	0	7	7	7	0	0	7	1,674	1,674	0		
1.2.A PERMITS	0	0	0	0	0	0	0	0	0	0	207	207	0		
1.2.B SAFETY ANALYSIS	47	0	0	(47)	0	47	0	0	(47)	0	1,281	1,281	0		
1.4.A MPS	193	0	0	(193)	0	193	0	0	(193)	0	8,381	8,381	0		
1.4.B AWP PIT COATING	0	0	0	0	0	0	0	0	0	0	563	563	0		
1.4.C AN VALVE PIT UPGRADES	93	0	0	(93)	0	93	0	0	(93)	0	4,585	4,585	0		
1.4.D AZ TF UPGRADES	0	0	0	0	0	0	0	0	0	0	4,892	4,892	0		
1.4.E 200 E/W UPGRADES	0	0	0	0	0	0	0	0	0	0	14,849	14,849	0		
1.4.F AW VALVE PIT UPGRADES	0	0	0	0	0	0	0	0	0	0	1,943	1,943	0		
1.5 PHASE 2	0	0	0	0	0	0	0	0	0	0	136,813	136,813	0		
WBS SUBTOTAL	422	88	3	(334)	85	422	88	3	(334)	85	188,367	188,367	0		
G&A / CSP (in above)	0	0	0	0	0	0	0	0	0	0	0	0	0		
UNDIST. BUDGET											0	0	0		
SUBTOTAL	422	88	3	(334)	85	422	88	3	(334)	85	188,367	188,367	0		
CONTINGENCY - CAPITAL											45,943	45,943	0		
TOTAL	422	88	3	(334)	85	422	88	3	(334)	85	237,000	237,000	0		

**MILESTONE M-43-07**

**CROSS-SITE TRANSFER  
SYSTEM**

**G. Parsons**

# 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)

# **Roles and Responsibilities**

**Jim McClusky - Director of Waste Storage Division**

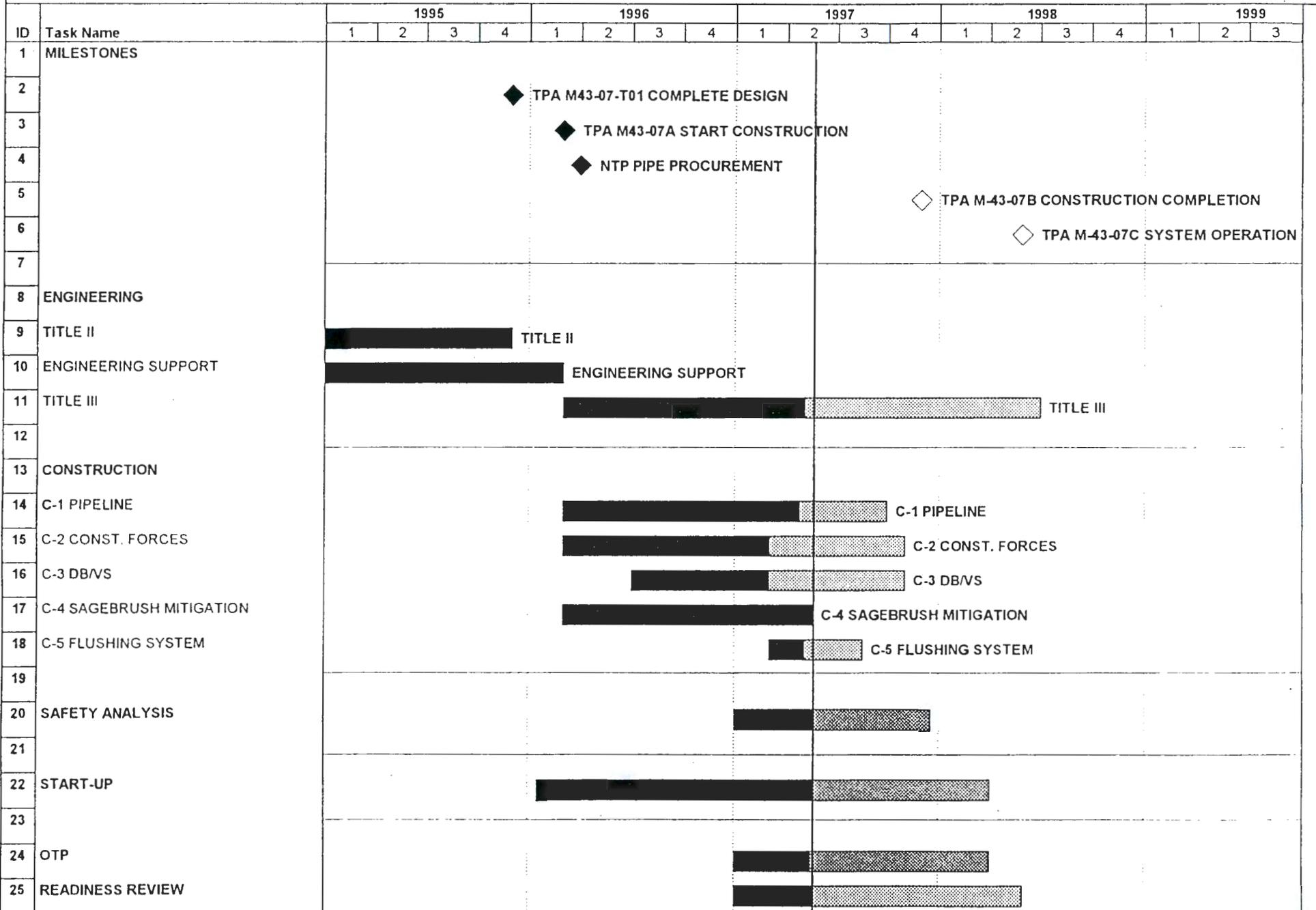
**Mike Royack - Director of Tank Operations**

**John Clark - Program Manager of West Tank Farms**

**Ben Harp - Project Manager for Project W-058**

**Norm Hepner - WDOE Project Manager**

# FY 1997 W-058 REPLACEMENT OF CROSS-SITE TRANSFER SYSTEM





# Status

## Pipeline construction

Excavation completed (except roads and some utilities)

Placement of clamshell welds continues

Welding is now in the 200East area

Flush system (C-5) issued to Apollo and construction initiated

Pump has been delivered

Diversion box roof and support building of Vent Station  
poured

Core drilling for nozzles completed in 244-A lift station

## **Planned Activities**

Installation of Clam Shells and Controlled Density Fill (CDF)

Complete pipe installation at road crossings (Beloit Ave)

Hydrotesting

Initiated pipe coating and insulation

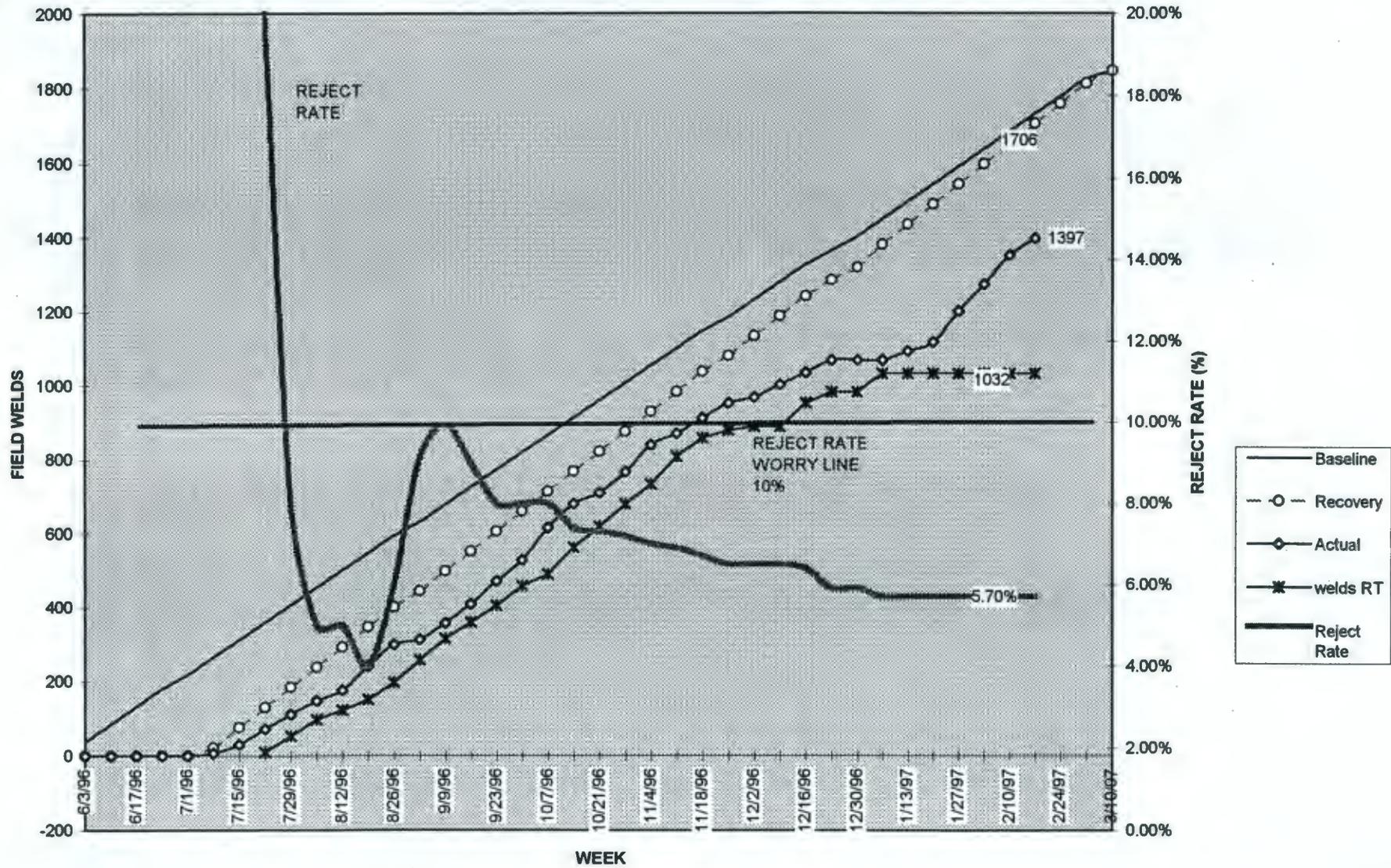
## **ISSUE**

- Negative trend in project cost and schedule variance
  - Tri-Party Agreement Milestone M-43-07B being evaluated
  - Recovery Actions have not improved variances
- FDH still believes milestone will be achieved

## **RECOVERY ACTIONS**

- RL requested updated baseline documentation to evaluate impacts
- State of Washington will be notified of baseline finding by the end of March 1997

### APOLLO FIELD WELDING PRODUCTIVITY



# **MILESTONE M-44-00**

## **DOUBLE AND SINGLE-SHELL TANK CHARACTERIZATION**

**J. Poppiti**

## Milestones

### Milestone

### Deliverable

M-44-02C

Ecology rejected final FY 1997 TWAP, dispute resolution in progress.

M-44-01D

Draft TWAP for FY 98 on 5/31/97

M-44-02D

Final TWAP for FY 98 on 8/30/97

M-44-10

Deliver 40 TCRs on 9/30/97

M-44-11

Deliver 30 TCRs on 9/30/98

M-44-12

Deliver 14 TCRs on 9/30/99

177 tanks, 93 TCRs completed, 84 tanks remaining

## Status

Samples Taken: November and December 1996

	December, 1996 Samples		January, 1997 Samples	
	Planned	Completed	Planned	Completed
<b>Rotary</b>	<b>4</b>	<b>0</b>	<b>4</b>	<b>1</b>
<b>Push</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>2</b>
<b>Auger</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Grab</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>3</b>
<b>Vapor</b>	<b>3</b>	<b>9</b>	<b>3</b>	<b>3</b>

**Note: Planned is from Schedule 4.9**

# Tanks Sampled During Months of December 1996 and January 1997

<b>Vapor</b>	<b>GRAB</b>	<b>Auger</b>	<b>Push</b>	<b>Rotary</b>
<b>U-112</b>	<b>T-110</b>		<b>U-103</b>	
<b>BX-104</b>	<b>SY-102</b>			
<b>C-107</b>	<b>AN-107</b>			
<b>S-102</b>				
<b>A-106</b>				
<b>AX-104</b>				

## PLANNED SAMPLING ACTIVITIES

Sampling Schedule (Rev 5.0 Draft) for Second Quarter FY 1997 (January through March 1997)

TITLE	Early Start	Early Finish	Safety
U-103 Push Samples 2 Segments 9 High Priority (FG, O, SS)	02-Jan-97	29-Jan-97 Completed	Flammable Gas
T-110 Grab Sample Compatability - Saueressig (C)	06-Jan-97	08-Jan-97 Completed	Organic Nitrate
SY-102 Grab Sample Compatability - Sutey (S)	13-Jan-97	14-Jan-97 Completed	Organic Pool
T-110 Rotary Sample 2 Segments 8 (SS)	14-Jan-97	14-Feb-97 Completed	Safety Screening
A-106 Vapor Sample (4) (Rotary exhauster permit)	15-Jan-97	16-Jan-97 Completed	Vapor Temporal/Homogeneity/Tracer Gas
AN-107 Grab Samples - Hendrickson (P-HTI)	21-Jan-97	23-Jan-97 Completed	Operations
AX-104 Vapor Sample (4) (LDUA exhauster permit)	23-Jan-97	24-Jan-97 Completed	Transfers
BY-108 Temporal Vapor Sample (3) High Priority	28-Jan-97	30-Jan-97 Completed	Evaporator
C-107 Temporal Vapor Sample (3) High Priority	03-Feb-97	05-Feb-97 Completed	Caustic Mitigation
S-106 Push Samples 2 Segments 10 High Priority (FG, H, SS)	04-Feb-97	03-Mar-97	Disposal
S-151 Grab Sample (S)	05-Feb-97	07-Feb-97 Completed	Retrieval
BX-104 Temporal Vapor Sample (4) High Priority	06-Feb-97	07-Feb-97 Completed	Privatization
S-102 Temporal Vapor Sample (3) High Priority	10-Feb-97	12-Feb-97 Completed	Treatment
S-109 Vapor Filter Test	13-Feb-97	14-Feb-97	Model Validation
C-107 Vapor Tracer Gas Study	18-Feb-97	12-May-97	Hanford Tank Initiatives
U-103 Vapor Tracer Gas Study	18-Feb-97	12-May-97	
T-112 Rotary Sample 2 Segments 2 (SS)	18-Feb-97	21-Mar-97	
BY-105 Vapor Tracer Gas Study	20-Feb-97	14-May-97	
AX-103 Vapor Tracer Gas Study	20-Feb-97	14-May-97	
BX-110 Rotary Samples 2 Segments 4 High Priority (O, P, H, SS)	24-Feb-97	27-Mar-97	
U-103 Push Sample 1 Segments 8 High Priority (FG, O, SS)	04-Mar-97	17-Mar-97	
T-204 Rotary Sample 1 Segment 10 (SS)	24-Mar-97	08-Apr-97	
TY-102 Rotary Samples 2 Segments 2 High Priority (O, SS)	28-Mar-97	30-Apr-97	

FG = Flammable Gas, O = Organic Nitrate (Fuel), C = Compatability, H = History, SS = Safety Screening, S = Ops special request, P = Pretreatment, HTI = Hanford Tank Initiative

Note: Sampling schedule (Rev 5.0) reflects impact of 3 month pause in sampling due to Flammable Gas Unreviewed Safety Question (USQ), proposed Justification for Continued Operation (JCO), and Standing Orders 96-34 and 96-36, as well as delay in deploying rotary.

# FY 1997 COST/SCHEDULE ASSESSMENT

<b>Note: Dollars in Millions</b>	<b>Cumulative to Date</b>	<b>At Completion</b>
<b>Budgeted Cost Work Scheduled (BCWS)</b>	<b>\$19.8M</b>	<b>\$56.8M</b>
<b>Budgeted Cost Work Performed (BCWP)</b>	<b>\$14.1M</b>	<b>\$52.8M</b>
<b>Actual Cost Work Performed (ACWP)</b>	<b>\$18.5M</b>	<b>\$52.8M</b>
<b>Variances:</b>		
<b>Costs (Note 1)</b>	<b>-\$4.4M</b>	<b>\$4.0M</b>
<b>Schedule (Note 2)</b>	<b>-\$5.7M</b>	<b>\$4.0M</b>

# FY 1997 COST/SCHEDULE ASSESSMENT

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

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

# Issues

- Ecology has rejected the FY 1997 Tank Waste Analysis Plan (TWAP). Partnering group is working resolution.
- FY 1996 and 1997 sampling rates do not support preparation of 40 TCRs based on core samples. Project 19 TCRs if T-112 and T-204 are sampled.
- Ecology has agreed to sampling lower priority tanks with truck #2 to allow productive use of the sampling crews.
- Negotiation completion targeted for September 1997.

# Issues

- Core Sampling Was Paused Due To Flammable Gas USQ

Status:

Truck	Status	Actions
#1	Resumed sampling 1/8/97	●Mechanical RLU replaced ●Install weather enclosure & load cell replacement 4/97
#2	Resumed push mode sampling 1/30/97	●Upgrade to rotary mode after truck #3; not completely funded
#3	Flammable Gas modification outage	Scheduled to complete 4/30/97
#4	Flammable Gas modification outage	Deploy 2/28/97

# **MILESTONE M-45-00**

## **COMPLETE CLOSURE OF ALL SINGLE SHELL TANK FARMS**

**W. Wrzesinski**

## **Milestone Description**

Complete closure of all single shell tank farms by 2024. Closure will follow retrieval of as much tank waste as technically possible.

- M-45-02B**      **Annual update of SST Retrieval Sequence Document for Ecology approval, 9/30/97.**
- M-45-03A**      **Initiate sluicing retrieval of C-106, 10/31/97.**
- M-45-04A**      **Complete conceptual design for the intital SST Retrieval System, 4/30/97.**
- M-45-08-T02**      **Establish criteria through stakeholder participation for 1) determining allowable leakage, and 2) acceptable LDMM measures to permit sluicing operations, 4/30/97.**
- M-45-09B**      **Submit LDMM annual progress report, 9/30/97.**

# **Ecology Requested Topics**

**Waste Retrieval Project Performance**

**LDMM Stakeholder Involvement**

**Milestone Approach**

**Responsibilities**

**W-211/W-314 Proposed Acceleration**

**MILESTONE M-50-00**

**TANK WASTE PRETREATMENT**

**P. Furlong**

# Milestone Description

The M-50 series of milestones covers the pretreatment processing of Hanford tank waste.

- M-50-01 Start Construction of a LLW Pretreatment Facility
- M-50-02 Start Hot Operations of LLW Pretreatment Facility to Remove Cesium and Strontium
- M-50-03 Complete Evaluation of Enhanced Sludge Washing to Determine whether Advanced Sludge Separation Processes are required.
- M-50-04 Start Hot Operations of HLW Pretreatment Facility

# Roles and Responsibilities

DOE Project Manager - Peter Furlong

DOE Project Engineer - Rudy Carreon

LMHC Project Manager - Rod Powell

# Milestone Status/Progress

- M-50-03 Complete Evaluation of Enhance Sludge Washing to Determine Whether Advanced Sludge Separation Processes are Required  
TPA Due Date 3/31/98
- M-50-03-T2C Submit a Report summarizing the testing of Enhanced Sludge Washing and Related Tank Waste Sludge Pretreatment Methods for Samples of Tank Waste Sludge  
TPA Due Date 9/30/97
- M-50-04 Start Hot Operations of HLW Pretreatment Facility  
TPA Due Date 6/30/2008
- M-50-04-T01 Submit a Conceptual Design of HLW Pretreatment Facility  
TPA Due Date 3/31/98
- M-50-04-T02 Initiate Definitive Design of HLW Pretreatment Facility  
TPA Due Date 11/30/98
- M-50-04-T03 Start Construction of HLW Pretreatment Facility  
TPA Due Date 6/30/2001

# Updates

## Chromium Work Shop

Held the week of 21 Jan 97

Purpose was to assess the uncertainties in tank waste inventory, pretreatment approach, and vitrification capability.

### Results:

For 80% of the waste a tuned ESW baseline should work.

For some feeds, process alternatives need to be evaluated.

Multiple point process flexibility is required for critical parameters

No changes to the TPA Milestones are expected.

DOE-RL is evaluating completing M-50-03 this year.

# FY97 Planned Budget and Workscope

## M-50-03 Work Scope

The Actual Work Scope is the same as the Planned Work Scope:

ACTIVITY	PLANNED FUNDING	YEAR TO DATE SPENDING
Direct TFA Enhanced Sludge Wash Test and Evaluate Results	\$66K	\$1K
Independent Review of ESW Decision Basis (*)	\$86K	0
Update ESW Decision Model and Plan	\$30K	\$4K
Prepare M-50-03-T2C Report	\$21K	\$5K
Chromium Dissolution and Testing (*)	\$400K	\$99K

(\*) Proposed scope reductions to cover a portion of the \$15M Change Request.

# Issues/Resolution/Needs

Near term work is being performed that supports Phase II data needs.

Privatization will support the completion of the following milestones

- |             |  |
|-------------|--|
| M-50-04     | Start Hot Operations of HLW Pretreatment Facility<br>TPA Due Date 6/30/2008      |
| M-50-04-T01 | Submit a Conceptual Design of HLW Pretreatment Facility<br>TPA Due Date 3/31/98  |
| M-50-04-T02 | Initiate Definitive Design of HLW Pretreatment Facility<br>TPA Due Date 11/30/98 |
| M-50-04-T03 | Start Construction of HLW Pretreatment Facility<br>TPA Due Date 6/30/2001        |

# Issues/Resolution/Needs

The implementation of the \$15M change request could impact the work scope that supports M-50-3. The deletion of the work scope will not affect the M-50-3 decision.

**MILESTONE M-51-00**

**HIGH LEVEL WASTE  
VITRIFICATION**

**P. Furlong**

# Milestone Description

The M-51 Milestones series covers Vitrification of Hanford High Level Tank Waste.

- M-51-01 Provide Report to Ecology and EPA on Evaluation of Alternative Concepts for Treatment and Disposal of High Level Hanford Tank Wastes.
- M-51-02 Complete Melter Tests and Select Reference Melter.
- M-51-03 Initiate Hot Operations of the HLW Vitrification Facility.

# **Roles and Responsibilities**

DOE Project Manager - Peter Furlong

DOE Project Engineer - Rudy Carreon

LMHC Project Manager - Rod Powell

# Milestone Status/Progress

- M-51-00 Complete Vitrification of Hanford High Level Tank Waste  
TPA Due Date 12/31/2028
  
- M-51-02 Complete Melter Tests and Select Reference Melter  
TPA Due Date 9/30/98
  
- M-51-03 Initiate Hot Operations of the HLW Vitrification Facility  
TPA Due Date 12/31/2009
  
- M-51-03-T04 Complete Construction of the HLW Vitrification Facility  
TPA Due Date 12/31/2007

# Privatization Contract Status

Contractors are proceeding with Interface Control Document development

Waste feed samples, excluding envelope D, have been delivered to the Contractors

DOE and Contractors are working on the Site and Feed Tank Selection

Either site is acceptable

Early selection is desired by the Contractors

# Privatization Contract Status

All Contractor deliverables have been provided on time

Integrated Management Plan

Initial Quality Assurance Manual

No additional deliverables are scheduled until the end of Part A.

## Issues

If High Level Waste Vitrification is included in Phase 1 of Privatization all the milestones will be met.

If High Level Waste Vitrification is not included in Phase 1 of Privatization none of the outstanding milestones will be met. This excludes M-51-00.

WDOE has requested formal discussions regarding the HLW (M-51 series) milestones.

**MILESTONE M-60-00**

**LOW ACTIVITY WASTE  
PRETREATMENT AND  
IMMOBILIZATION**

**P. Furlong**

# Milestones Description

The M-60 Series of milestones covers the Pretreatment and Immobilization Processing of the Low Activity Tank Waste.

- M-60-00 Complete Pretreatment and Immobilization of Hanford Low Activity Waste (LAW)
- M-60-01 Begin Melter Testing with Simulants
- M-60-02 Complete Melter Feasibility and System Operability Tests, Select Reference Melter(s), and Establish Reference LLW Glass Formulation which meets complete System Requirements.
- M-60-03 Submit Conceptual Design and Initiate Definitive Design of the LLW Vitrification Facility.
- M-60-04 Initiate Construction of the LLW Vitrification Facility.

## **Milestone Description (contd.)**

- M-60-05**      **Initiate Hot Operations of the LLW Vitrification Facility**
  
- M-60-06**      **Issue Draft Request For Proposals (RFP) for Phase 1 Privatization of LAW Pretreatment and Immobilization.**
  
- M-60-07**      **Issue Final Request for Proposals (RFP) for Phase I Privatization of LAW Treatment and Immobilization**
  
- M-60-08**      **Award Two (2) or more Design Only Privatization Contracts for Phase 1 LAW Pretreatment and Immobilization**
  
- M-60-09**      **DOE will take delivery of and transmit to the Department of Ecology, a report prepared by an independent contractor, that identifies reasonable and practical contracting mechanisms (if any) that would facilitate acceleration of the start of hot operations of a LAW Pretreatment and Immobilization Facility under the Alternative Path to Privatization**

## **Milestone Description (contd.)**

- M-60-10      Select (2) COCO contractors and issue DOE signed authorization to proceed with Part B (as defined in the RFP of subsequently negotiated contracts) work for LAW Pretreatment and Immobilization.
- M-60-11      Start of Construction for Two (2) Phase I LAW Pretreatment and Immobilization Facilities.
- M-60-12      Start Hot Operations of Two (2) COCO Phase I LAW Pretreatment and Immobilization Facilities.
- M-60-13      Initiate negotiations on Phase II LAW Pretreatment and Immobilization Milestone.

# **Roles and Responsibilities**

DOE Project Manager - Peter Furlong

DOE Project Engineer - Rudy Carreon

LMHC Project Manager - Rod Powell

# Milestone Status/Progress

- M-60-00 Complete Pretreatment and Immobilization of Hanford Low Activity Waste (LAW)  
TPA Due Date 12/31/2024
- M-60-10 Select (2) COCO contractors and issue DOE signed authorization to proceed with Part B (as defined in the request for proposal (RFP) of subsequently negotiated contracts) work for LAW Pretreatment and Immobilization.  
TPA Due Date 7/31/98
- M-60-11 Start of Construction for Two (2) Phase I LAW Pretreatment and Immobilization Facilities.  
TPA Due Date TBD

## **Milestone Progress/Status (cont.)**

- M-60-12      Start Hot Operations of Two (2) COCO Phase I LAW Pretreatment and Immobilization Facilities.  
TPA Due Date 12/31/2002
- M-60-13      Initiate negotiations on Phase II LAW Pretreatment and Immobilization Milestone.  
TPA Due Date 12/31/2003

## **Issues/Resolution/Needs**

If Privatization is successful the remaining milestones should be met.

If Privatization is not successful the several of the outstanding milestones may not be met.

**MILESTONE M-61-00**

**PRETREATMENT AND  
IMMOBILIZATION OF  
LOW ACTIVITY WASTE**

**P. Furlong**

# Milestone Description

The M-61 series of milestones covers the Alternate Path in the event that Privatization fails.

- M-61-00 Complete Pretreatment and Immobilization of Hanford Low Activity Waste
- M-61-01 Start construction of Phase I LAW Pretreatment and Immobilization Facility.
- M-61-02 Initiate Hot Operations of Phase I LAW Pretreatment and Immobilization Facility.
- M-61-03 Initiate Negotiations on Phase II LAW Pretreatment and Immobilization Milestone.

# Roles and Responsibilities

DOE Project Manager - Peter Furlong

DOE Project Engineer - Rudy Carreon

LMHC Project Manager - Rod Powell

# Milestone Status/Progress

- M-61-00 Complete Pretreatment and Immobilization of Hanford Low Activity Waste  
TPA Due Date 12/31/2028
- M-61-01 Start construction of Phase I LAW Pretreatment and Immobilization Facility.  
TPA Due Date TBD
- M-61-02 Initiate Hot Operations of Phase I LAW Pretreatment and Immobilization Facility.  
TPA Due Date TBD
- M-61-03 Initiate Negotiations on Phase II LAW Pretreatment and Immobilization Milestone.  
TPA Due Date TBD

## **Milestone M-90**

**Interim Storage of Immobilized  
High Level Tank Waste and  
Storage/Disposal of Immobilized  
Low Activity Tank Waste**

**P.E. LaMont**

## **Milestones**

- M-90-00** Complete acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities as necessary for storage of Hanford site IHLW (Immobilized High-Level Tank Waste) and ILAW (Immobilized Low-Activity Tank Waste), and disposal of ILAW.  
Due Date: TBD (to be established after approval of Project Management Plan)
- M-90-01** Submit Interim Storage and Disposal ILAW and Interim Storage IHLW Project Management Plans to Ecology Pursuant to Agreement Section 11.5  
Due Date: 12/31/97
- M-90-02T** Complete ILAW Interim Storage Facility Conceptual Design  
Due Date: 6/30/98

## **Milestones (con't)**

- M-90-03**      **Initiate ILAW Interim Storage Facility Construction**  
**Due Date: 6/30/01**
- M-90-04T**    **Complete ILAW Interim Storage Facility Detailed Design**  
**Due Date: 6/30/01**
- M-90-05T**    **Submit Final ILAW Disposal Facility Performance Assessment to Ecology for Review**  
**Due Date: 12/31/01**
- M-90-06**      **Initiate Hot Operations of ILAW Interim Storage Facility**  
**Due Date: 12/31/02**
- M-90-07T**    **Complete ILAW Disposal Facility Conceptual Design**  
**Due Date: 6/30/00**

## **Milestones (con't)**

- P-90-08      Initiate ILAW Disposal Facility Construction  
Due Date: 6/30/03
- M-90-09T    Complete ILAW Facility Detailed Design  
Due Date: 3/31/03
- M-90-10     Initiate Hot Operations of ILAW Disposal Facility  
Due Date: 12/31/05
- M-90-11     Complete Canister Storage Facility Construction  
Due Date: 12/31/02
- M-90-12     Submit Revised Canister Storage Facility Part A Dangerous Waste  
Permit Application to Ecology Pursuant to Chapter 173-303  
Due Date: 6/30/99

## **Milestones (con't)**

- M-20-00      Submit Part B Permit applications or closure/post closure plans for all RCRA TSD units.  
Due Date: 12/31/2003
- M-20-56      Submit canister storage facility part B Dangerous Waste Permit application to Ecology  
Due Date: 12/2000
- M-20-57      Submit interim ILAW facility Part B permit application to Ecology  
Due Date: 12/2000
- M-20-58      Submit LAW disposal facility Part B Permit application to Ecology  
Due Date: 12/2003

## Roles and Responsibilities

### Immobilized Low-Activity Waste Storage / Disposal Subproject

P.E. LaMont, DOE-RL Project Manager

J.A. Voogd, PHMC Project Manager

### Immobilized High-Level Waste Interim Storage Subproject

D.D. Button, DOE Project Manager

K.C. Burgard, PHMC Project Managaer

## **History of the Milestone (s)**

M-90 Milestones were created during negotiations in response to TPA Milestone M-33-00.

M-90 Milestones govern the acquisition of new facilities, modifications to existing or planned facilities for storage and/or disposal of immobilized low-activity and high-level tank wastes.

M-20 Milestones govern the submission of Part B Permits and closure plans in support of M-90 Milestones

These facilities are needed to support the privatized treatment of tank waste.

## **Milestone Status/Progress**

M-90-01      On schedule, Project Management Plan Scope being defined.  
First draft scheduled for May 1, 1997.

M-90-02T     On schedule, ILAW Storage Facility conceptual design kickoff  
meeting held February 5, 1997. A/E Work Plan being prepared.

M-90-05T     See Issues

M-90-11      On schedule, IHLW Canister Storage Building conceptual design  
kickoff meeting held January 1997. A/E Work Plan submitted.

M-90-12      On schedule, data needs for revised Part A Dangerous Waste  
Permit Application being worked with private contractors

## **Milestone Status/Progress (con't)**

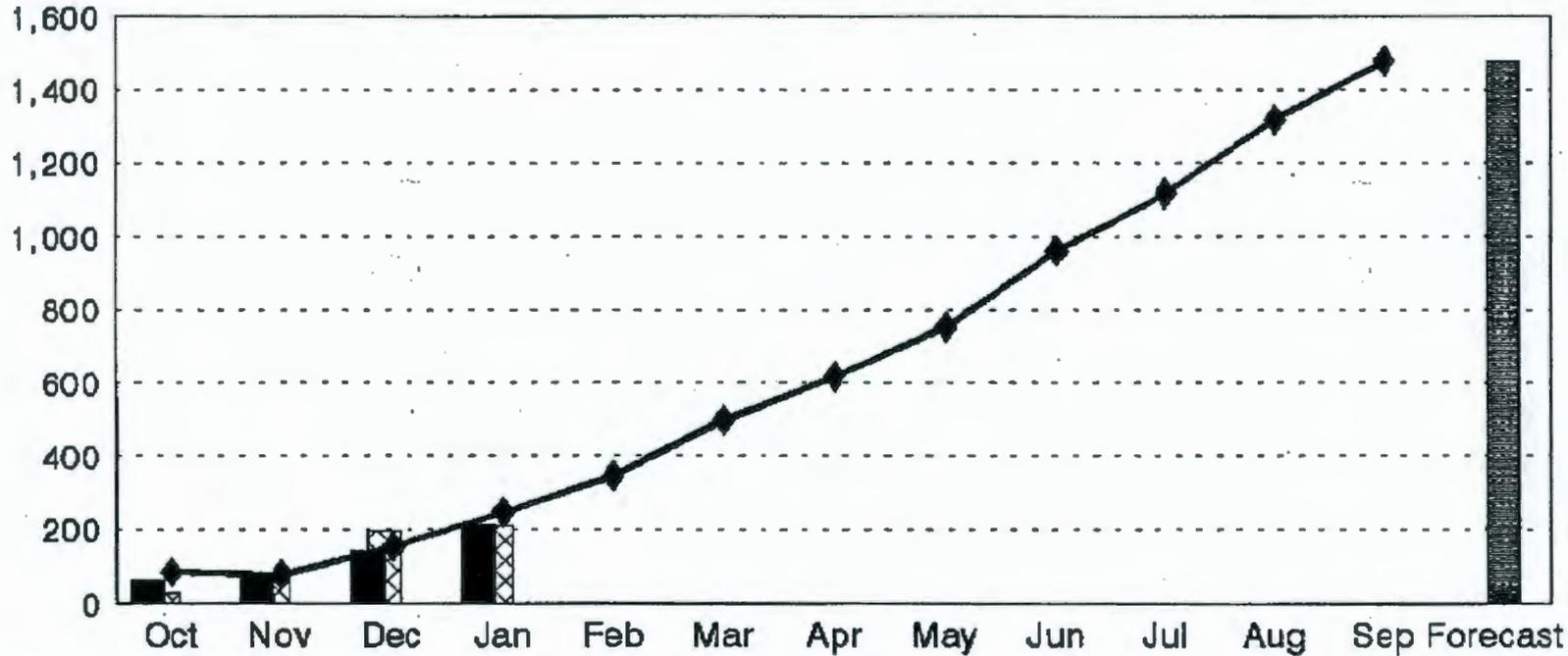
**M-20-56** On schedule, draft permit checklist prepared. Permit Plan scheduled for 7/97.

**M-20-57** On schedule, draft permit checklist prepared. Permit Plan scheduled for 6/97.

# Interim Storage Project

## Accumulated Expense

\$ in Thousands



Cum BCWS	◆	84	77	153	246	347	498	616	751	961	1,118	1,317	1,477	
Cum BCWP	■	62	76	141	213									
Cum ACWP	⊠	27	73	195	209									
Cum SV		-22	-1	-12	-33									
Cum CV		35	3	-54	4									
Funds	■													1,477

Data up to January 29, 1997

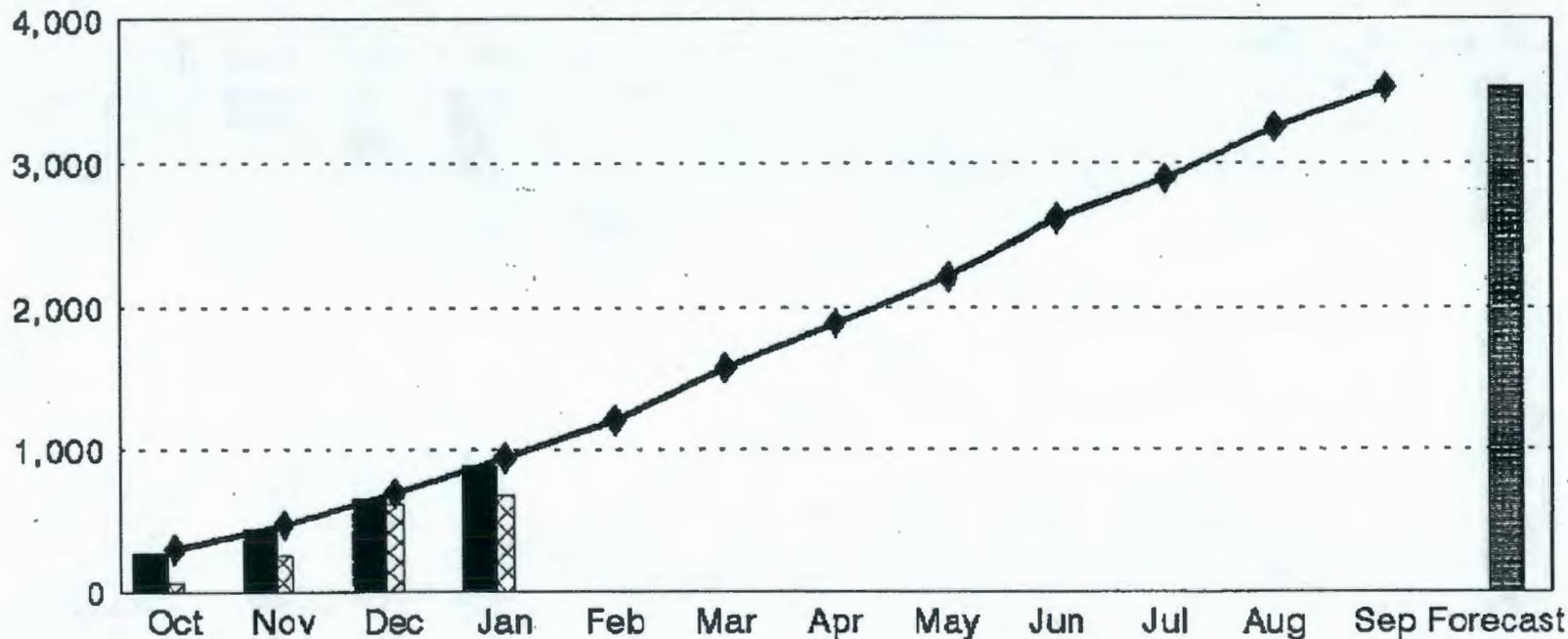
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# Low-Level Waste Project

## Accumulated Expense

\$ in Thousands



Cum BCWS ◆	298	472	694	941	1,206	1,573	1,886	2,204	2,609	2,889	3,251	3,530	
Cum BCWP ■	273	442	657	888									
Cum ACWP ☒	59	252	622	679									
Cum SV	-25	-30	-37	-53									
Cum CV	214	190	35	209									
Funds ■													3,530

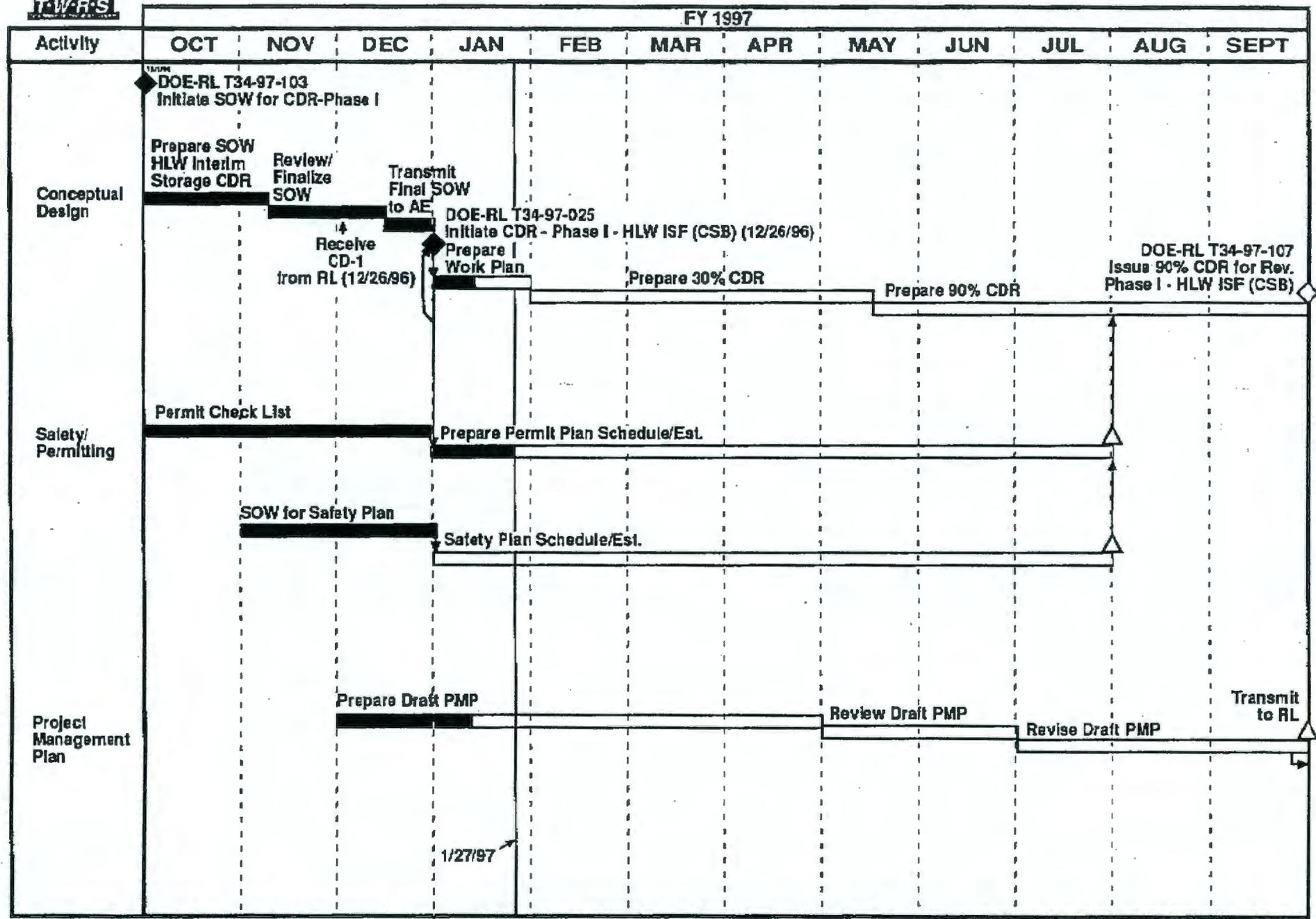
Data up to January 29, 1997

Includes Argonne (DOE-RL) 210K.

tollwcum



FY 1997

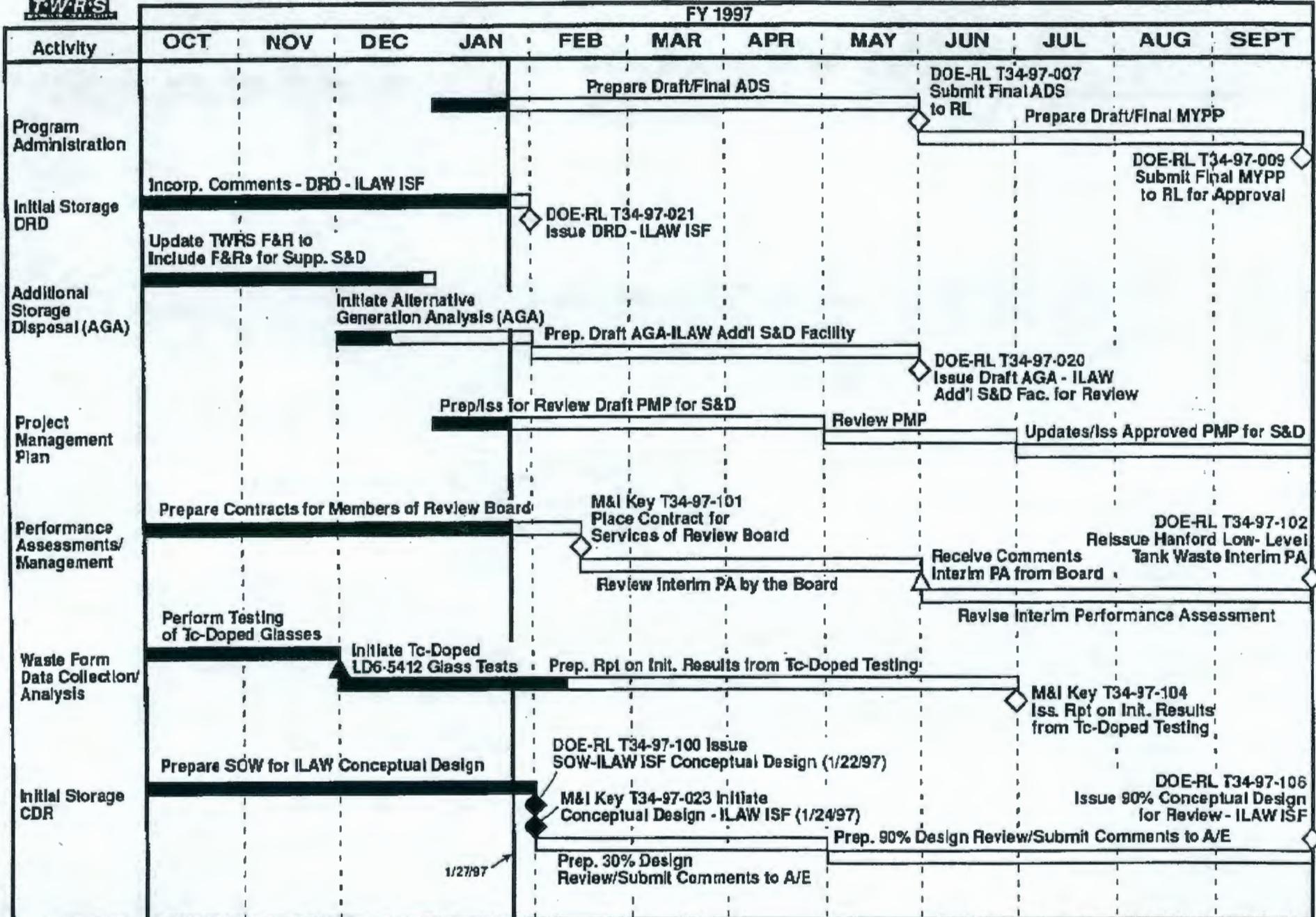


□ Early Bar    ■ Progress Bar    ▨ Critical Activity

Performance Baseline Schedule FY 1997  
HLW Interim Storage Project



FY 1997



Performance Baseline Schedule FY 1997  
LLW Disposal Project

## **Issues/Resolution/Needs**

**M-90-05T** Milestone date clerical error committed during M-90 milestone negotiation (2001 should have been 2002). Also, projected milestone impact due to FY97 funding shortfall

**Recommended actions:** Replace milestone with new target milestone after replanning to new funding level and submit Preliminary PA to Ecology for review and comment

**Projected change request submittal date:** March 97

**MILESTONE M-41-00**

**COMPLETE  
SINGLE-SHELL TANK  
INTERIM STABILIZATION**

**John Clark  
RL Program Manager**

**Dave Saueressig  
LMHC Activity Manager**

# **Roles and Responsibilities**

**WDOE Program Manager - Norm Hepner, 736-3048**

**RL West Area Program Manager - John Clark, 376-2246**

**LHMC West Tank Farms Project Manager - Judy Burton, 372-3919**

**LMHC Program Manager - Dave Saueressig, 373-0183**

**FDH Project Manager - Keith Hampton, 372-1239**

## **Milestone Description**

- **Complete interim stabilization and intrusion prevention of 148 single-shell tanks by September 30, 2000.  
(Currently have completed interim stabilization on 117 tanks and intrusion prevention on 102 tanks)**

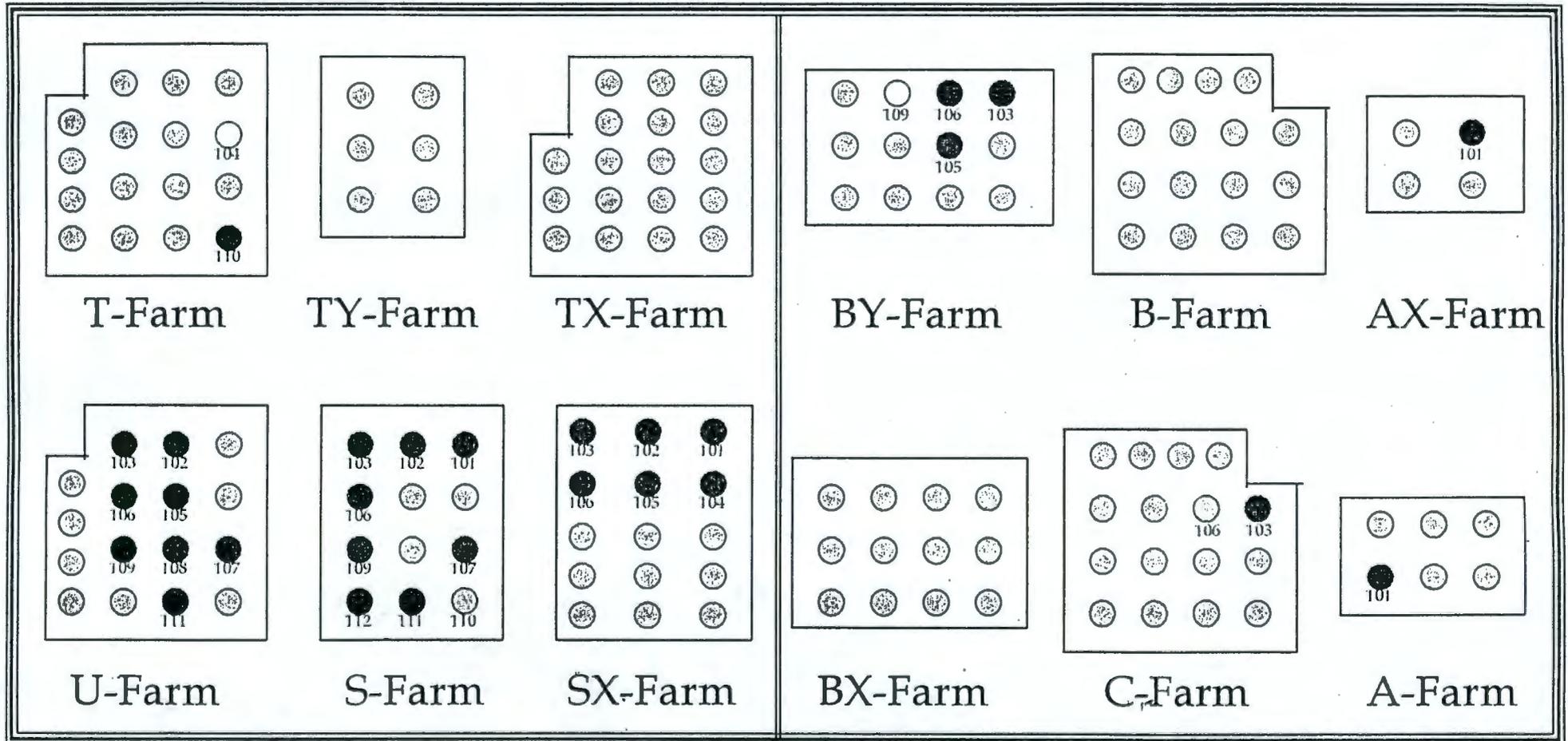
## **Near Term Milestone**

- **M-41-21, "Start Interim Stabilization of Two SSTs by March 31, 1997" planned tanks BY-109 and T-110**

# SINGLE SHELL TANK FARMS

## Interim Stabilization Status

Interim Stabilized	117
Pumping	2
Retrieval	1
Not Pumped	29
TOTAL SSTs	149



# History

- **Dispute Resolution resolved for Milestone M-41-00 on September 20, 1996. Interim milestones re-adjusted to account for flammable gas setbacks**

# Status

- **A-101 efforts are being impacted by determination of which safety assessment controls are required to be IOSRs**
- **Engineering and field activities are being focused on T-110 to meet March 31, 1997 interim milestone**
- **Three additional exhausters are being fabricated for saltwell pumping flammable gas tanks. Next exhauster to be delivered March 1997**
- **Flammable gas monitor (FGM) installed on A-101, and additional FGMS will be installed on the remaining tanks to be pumped**
- **Support Vadose Zone in SX farm**

## Status (cont)

- **Tank S-110**
  - Declared interim stabilized on January 31, 1997 (letter to RL)
  
- **Tank T-104**
  - T-104 saltwell pumping was restarted, utilizing flammable gas JCO Standing Order, on January 3, 1997
  - Annual pressure testing of T-104 transfer line is in progress
  
- **Tank T-110**
  - Request is in progress to move tank from a facility class 2 to facility class 3 tank per the flammable gas JCO Standing Order. Restart of pumping will commence upon change approval.
  - Pumping is required to meet the March milestone (M-41-21)
  
- **Tank BY-109**
  - Request is in progress to move tank from a facility class 2 to facility class 3 tank per the flammable gas JCO Standing Order. Restart of pumping will commence upon change approval

# Issues

- **Saltwell pumping on A-101**

- Physical configuration of tank differs somewhat from safety assessment (i.e slot cutting)
- Determination of which SA controls are required to be IOSR (Path forward being finalized)

- **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 facility class 2 tanks
- Process defined for class 2/class 3 determination
- Class 3 tanks within approved standing order controls

- **Budget**

- M-41 interim milestones are currently not impacted by TWRS FY 1997 funding budget, CC&S activities in outyears

## Issues (cont)

- **Commingling**

- Complex/non-complex commingling decision is required by October 1997, combined RL and LMHC agreement
- TRU decision required by March 1998

- **Compatibility - specific**

- Tank supernate sampling occurring at least 45 to 60 days before pumping
- Receiving tank assessments completed at least 15 days prior to approval to pump

- **M-41-21 Change Request**

- Preparing "Dispute" correspondence

# Summary

- **Significant challenges from flammable gas issue slowing M-41 work**
- **Project remains focused on starting T-110 by March 31, 1997**

**PROJECT W-030**

**TANK FARM VENTILATION UPGRADE**

**RL CONSTRUCTION PM: LINA PACHECO**  
**NHC CONSTRUCTION PM: TARIK CHOHO**

**February 27, 1996**

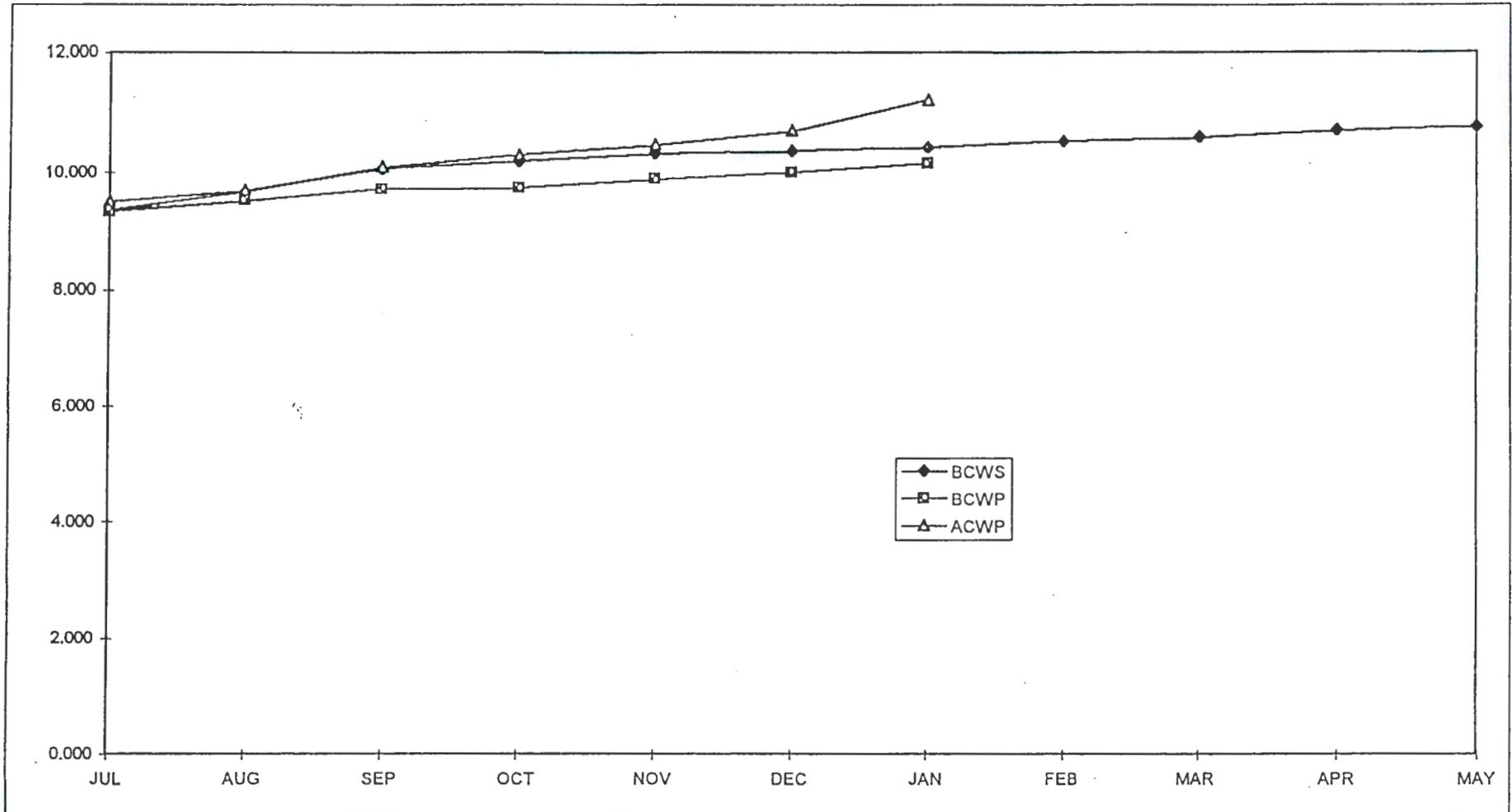
# AGENDA

- Progress
- Cost and Schedule Performance
- Variance Analysis and Corrective Actions
- Milestone Status
- Issues

## PROGRESS

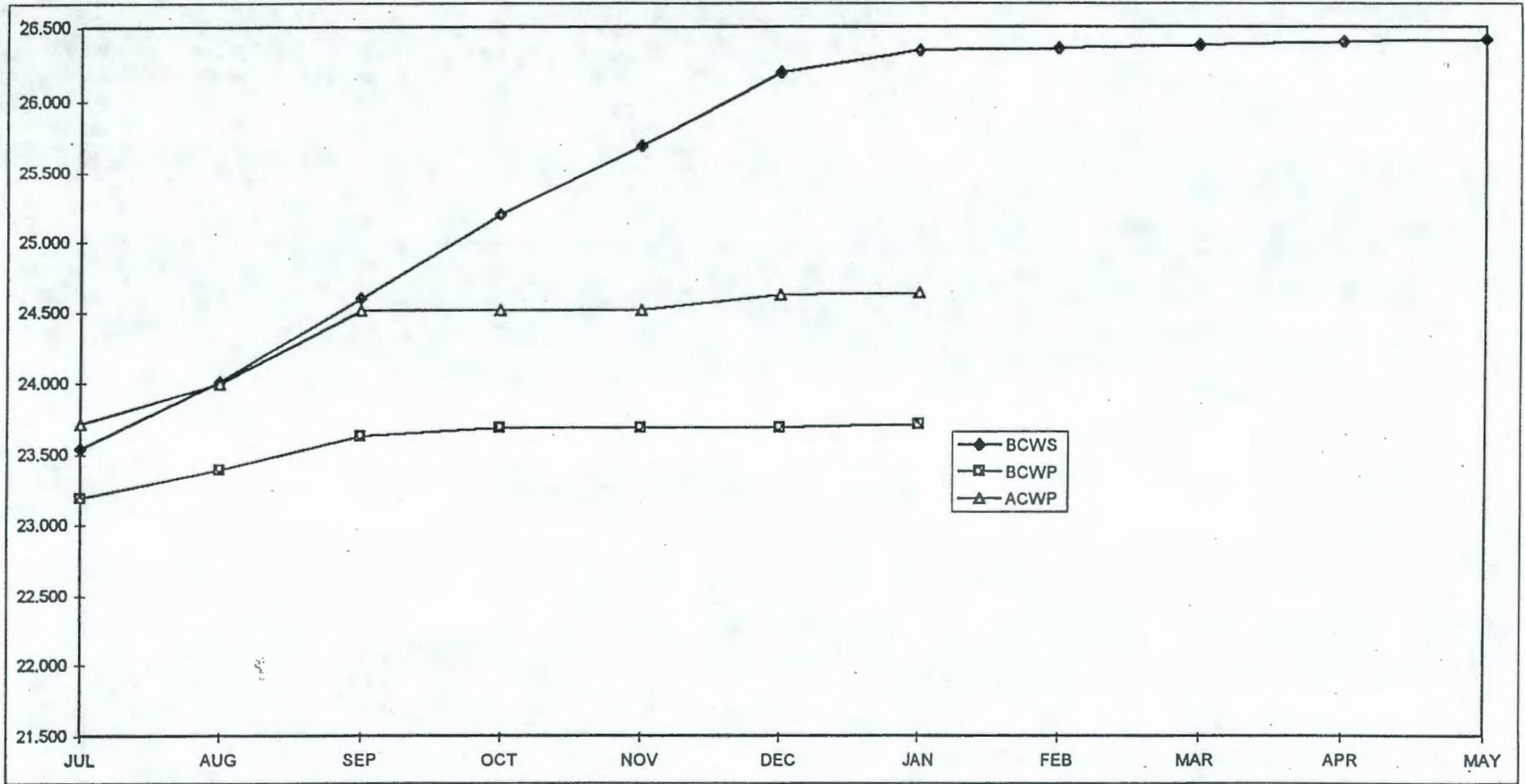
- Progress made on W-030/Integrated A-Complex logic driven, resource loaded and leveled schedules.
- In response to RL Management Assessment of W-030 Testing, the Testing Oversight Organization has requested RL defer the review and allow LMHC to perform separate internal independent assessment.

## PROJECT W-030 FDS Expense \$ Millions



MONT	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
BCWS	9.347	9.661	10.072	10.198	10.327	10.377	10.427	10.538	10.596	10.712	10.767
BCWP	9.318	9.505	9.709	9.726	9.882	10.001	10.157				
ACWP	9.486	9.686	10.096	10.306	10.474	10.707	11.218				
SV	-0.029	-0.156	-0.363	-0.472	-0.445	-0.376	-0.270				
CV	-0.168	-0.181	-0.387	-0.580	-0.592	-0.706	-1.061				

## PROJECT W-030 FDS Capital \$ Millions



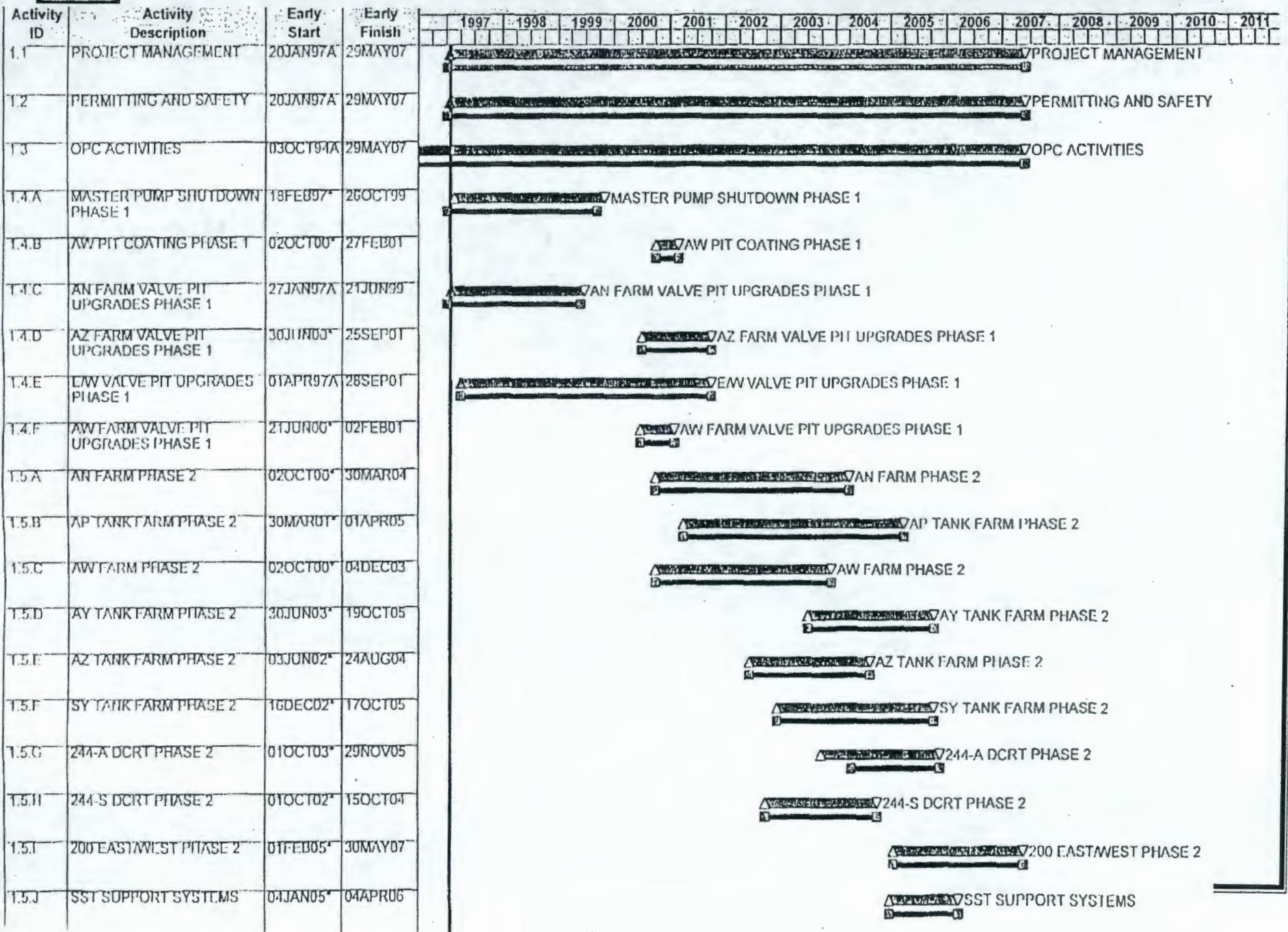
MONTH	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
BCWS	23.540	24.009	24.600	25.196	25.696	26.194	26.338	26.357	26.376	26.395	26.412
BCWP	23.189	23.387	23.626	23.686	23.686	23.686	23.710				
ACWP	23.717	23.993	24.513	24.511	24.511	24.623	24.633				
SV	-0.351	-0.622	-0.622	-0.974	-1.510	-2.508	-2.628				
CV	-0.528	-0.606	-0.887	-0.887	-0.825	-0.937	-0.923				

## ISSUES

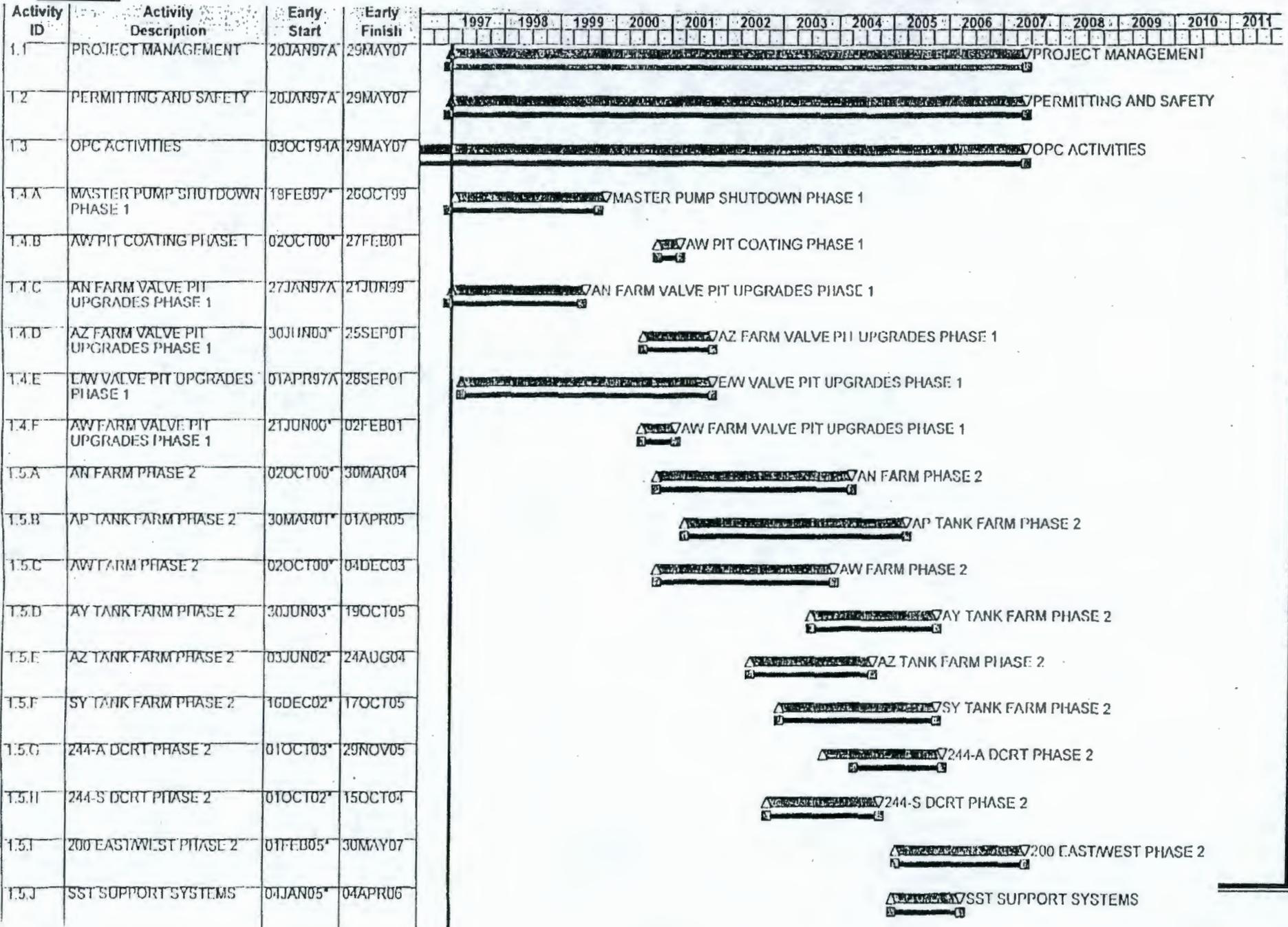
- Completion of SARR-039
  - Flammable Gas Evaluation Advisory Board findings/recommendations
  - Completion of Tier II and III Reviews
- ORR execution activities forecast to complete April, 1997 (reflects a 12 month schedule slip)
- A-Complex integration issues.
- Rebaselining Effort - Approx. \$4.808M Funding Requirement (Capital: \$1.637M, Expense: \$2.747M)

*Wednesday*      *CCB*

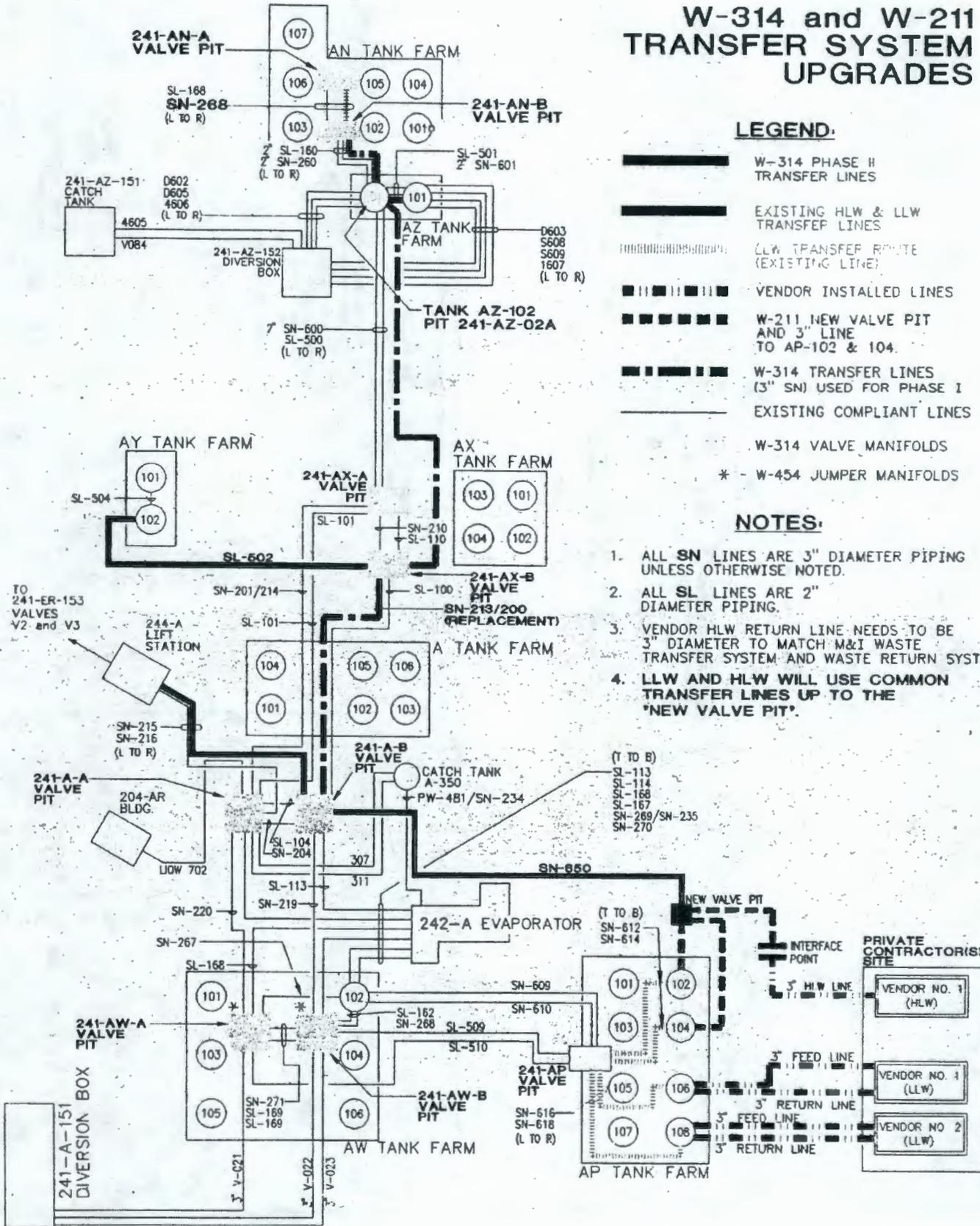
# PROJECT W-314 TERSO PERFORMANCE SUMMARY SCHEDULE



# PROJECT W-314 TERS SO PERFORMANCE SUMMARY



# W-314 and W-211 TRANSFER SYSTEM UPGRADES



DC59W211

# **MILESTONE M-45-00**

## **COMPLETE CLOSURE OF ALL SINGLE SHELL TANK FARMS**

**W. Wrzesinski**

## **Milestone Description**

Complete closure of all single shell tank farms by 2024. Closure will follow retrieval of as much tank waste as technically possible.

- M-45-02B**      **Annual update of SST Retrieval Sequence Document for Ecology approval, 9/30/97.**
- 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-T02**      **Establish criteria through stakeholder participation for 1) determining allowable leakage, and 2) acceptable LDMM measures to permit sluicing operations, 4/30/97.**

# **Ecology Requested Topics**

Waste Retrieval Project Performance

LDMM Stakeholder Involvement

Milestone Approach

Responsibilities

W-211/W-314 Proposed Acceleration

# Waste Retrieval Project Performance

Monthly Review Meetings  
Detailed Packages  
Attendance

1210-0

BCWS	3343K
BCWP	3061K
ACWP	3107K

1210-3 W-211 (Project to date)

	Capital	Expense	Contingency Remaining
BCWS	11998K	6483K	34423K
BCWP	11567K	6421K	
ACWP	7743K	5888K	

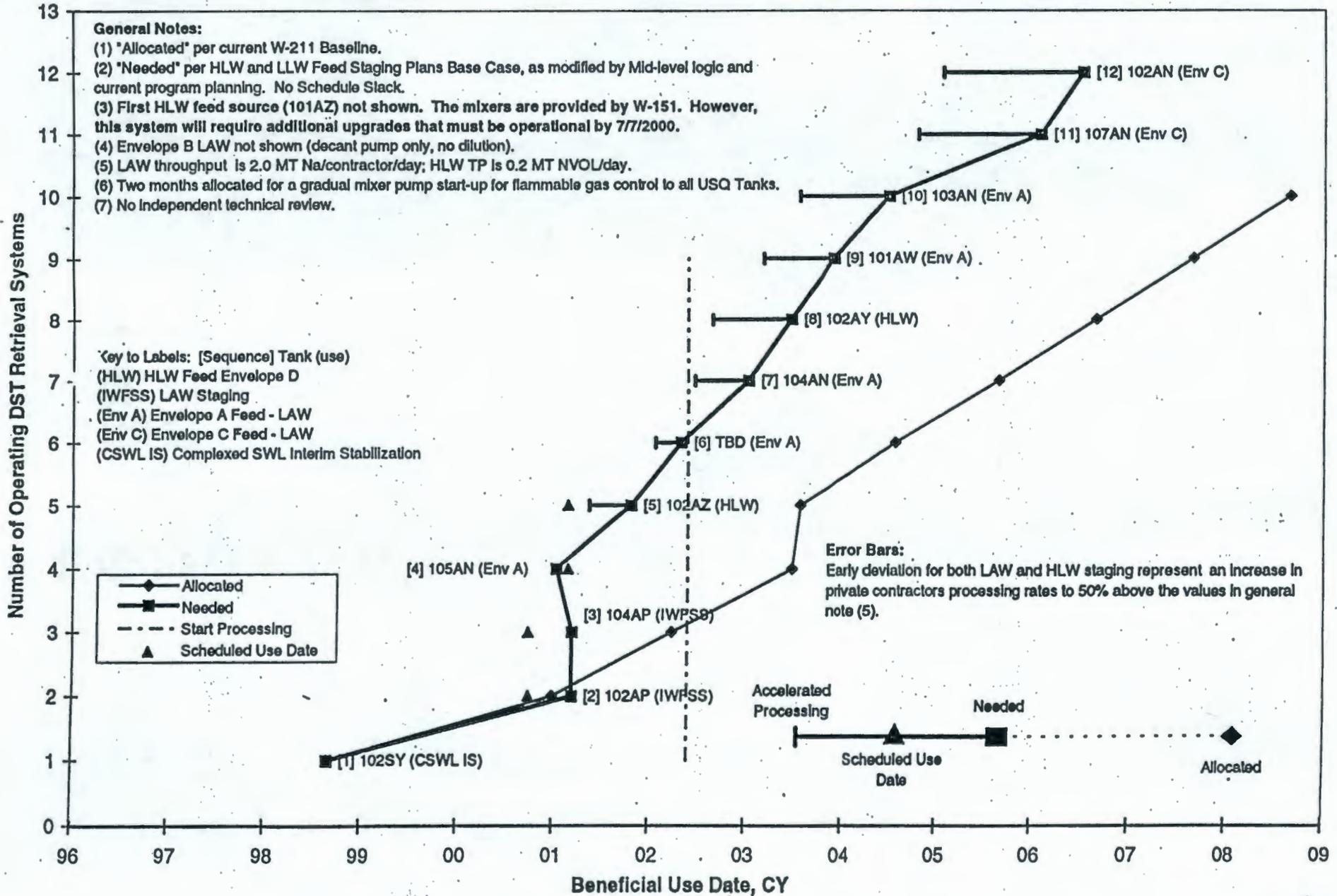
1210-4 W-320 (Project to date)

BCWS	64838K
BCWP	64383K
ACWP	65057K

1210-2 W-151 (Project to date)

	Capital	Expense	Contingency Remaining
BCWS	12631K	9927K	0K
BCWP	12562K	9875K	
ACWP	15123K	9743K	

### DST Retrieval System Needs Profile



Project Manager's Meeting: TWRS Single and Double Shell Tanks  
Storage, Treatment and Disposal  
TPA Milestones M-40 through M-46, M-50, M-51, M-60, M-61 and M-90  
February 27, 1997

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T.L. Clark \*  
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Richland, WA 99352

ADMINISTRATIVE RECORD:

Double Shell Tanks TSD S-2-3

Single Shell Tanks TSD S-2-4

Tank Waste Remediation System  
TPA Milestones M-40, M-41, M-42,  
M-43, M-44, M-45, M-46, M-50, M-51,  
M-60, and M-90

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