

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

Date: July 22, 1997

10 Nov 16 1997

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

Date: 10-16-97

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

Date: 10-16-97

Approval: Keith Hampton
Keith Hampton, Program Integration
Fluor Daniel Hanford

Date: 10-16-97

Author: Teresa Clark
Teresa Clark, Coordinator
Westech International, Incorporated

Date: 9-17-97



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

- Attachment 1: Agenda
- Attachment 2: Attendance and Meeting Minutes Summary/Action Items
- Attachment 3: TWRS Communications Handbook, July 10, 1997
- Handout 1: Presentation Package

10/16/97

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
 July 10, 1997

Electronic distribution w/o attachments, unless otherwise noted by *

U.S. Department of Energy -
 Richland Operations Office

D.D. Button K6-51
 J.M. Clark S7-54
 P.T. Furlong K6-51
 C.C. Haass S7-51*
 B.J. Harp S7-54
 D.H. Irby S7-54
 D.E. Jackson A5-15
 P.E. LaMont S7-53
 J.M. McClusky S7-54*
 J.E. Navarro S7-54
 C. Pacheco S7-54
 J.A. Poppiti S7-54
 M.L. Ramsay S7-52
 M.J. Royack S7-54
 G.H. Sanders A5-15*
 C.L. Sohn S7-51
 W.J. Taylor K6-51*
 W.R. Wrzesinski S7-53
 J.K. Yerxa A5-15

Washington State Department of Ecology

L.J. Cusack B5-18
 S.L. Dahl B5-18*
 D.S. Dougherty B5-18
 J.H. Grantham Lacey Office
 A.D. Huckaby B5-18
 S. McKinney Lacey Office
 A.B. Stone B5-18

Fluor Daniel Hanford Corporation

L.D. Arnold B2-35*
 W.R. Brown B2-35
 M.A. McLaughlin B2-35
 M.W. Stevenson B2-35
 T.B. Veneziano S7-40
 D.J. Washenfelder H5-27
 J.D. Williams S7-40*

DE&S Hanford, Inc.

R.J. Cash S7-14

Lockheed Martin Hanford Corporation

W.B. Barton R2-11
 K.C. Burgard H5-03
 M.P. Delozier R2-50
 B.G. Erlandson R2-36
 L.E. Hall S7-85
 R.J. Murkowski H5-03
 M.A. Payne S7-84
 R.W. Powell G3-21
 W.E. Ross S7-84
 J.A. Voogd H5-03
 V.L. Wagner R1-90*

Waste Management Federal Services of
 Hanford, Inc.

J.E. Geary S6-71

WESTEC International

T.L. Clark *
 2455 George Washington Way, #J-145
 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

Care of: EDMC, WMH H6-08

Washington State Department of Ecology
 Nuclear and Mixed Waste Hanford Files
 P.O. Box 47600, Olympia, WA 98504-
 7600

Environmental Protection Agency
 Region 10, Seattle, WA 98101
 Mailstop HW-070 (Records Center)

* Hardcopy with attachments.

AGENDA
 TWRS TPA PROJECT MANAGER'S MEETING

Thursday, July 10, 1997
 12:30 - 4:30 pm
 2704HV/G-206/200E

BEGIN	END	SUBJECT	PRESENTER
12:30	12:35	Introduction - Teresa Clark assumes L. Roeder-Smith duties - Confirm new date for August PMM (9/11) - M-50/-60 Milestones will not be presented	C. Haass B. Erlandson
12:35	12:50	M-45, SST Waste Retrieval and Closure - Status Open Action Items: 45-009, S. McKinney	W. Wrzesinski S. McKinney
12:50	1:05	M-43-01, Project W-030, Tank Farm Ventilation Upgrades - FY 97 & FY 98 Funding	L. Pacheco
1:05	1:20	M-40, Safety Issue Resolution - Status Open Action Item: 40-011, D. Irby/A. Stone 40-012, D. Irby	D. Irby A. Stone
1:20	1:45	M-41, Interim Stabilization - Status Open Action Items: 41-007, J. Yerxa	J. Clark J. Yerxa
1:45	2:00	M-43-07, Project W-058, Replacement Cross-site Transfer Line	B. Harp
2:00	2:20	M-43-09, Project W-314, Tank Farm Upgrades - Status Open Action Item: 43-07, C. Haass	J. Navarro C. Haass
2:20	2:30	BREAK	* * * *
2:30	2:45	M-44, Characterization	J. Poppiti
2:45	3:10	M-46, DST Space Evaluation - Status Open Action Items: 46-005, M. Ramsay 46-006, M. Ramsay/B. Barton	M. Ramsay B. Barton
3:10	3:30	M-90, LAW/HLW Interim Storage and Disposal Facility	D. Button
3:30	4:00	New Action Item Recap; Closing Comments	T. Clark

Attendance:

U.S. Department of Energy, Richland Operations Office

Elizabeth Bowers
John M. Clark
Ben Harp
Dennis Irby
Phil LaMont
Jim Navarro
Bruce Nicoll
Carolina Pacheco
Jim Poppiti
Gregory Sinton
James F. Thompson
Wendell Wrzesinski
Jon Yerxa

Washington State Department of Ecology

Suzanne Dahl
Dave Dougherty
Richard Heggen
Norm Hepner
Steve Skurla

Fluor Daniel Hanford, Inc.

MaryAnn McLaughlin
Janice D. Williams
Marc Stevenson

Lockheed Martin Hanford Corporation

Brad Erlandson
Thomas Kelley
Chris Mercado
David Saueressig
Vikki Wagner
Jeff Voogd

Other Support Contractors

Teresa Clark, Westech International, Inc.
Bob Cash, DESH

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

Janice Williams was introduced as the newest member of the Fluor Daniel Hanford/TWRS team.

Milestones M-43-01-C, "Begin Operation," M-43-01, "Complete Project W-030 Tank Farm Ventilation Upgrades," have changed, and Milestone M-17-00B, "Complete Implementation of "Best Available Technology/All Known, Available, and Reasonable Methods of Prevention, Control, and Treatment (BAT/AKART) for all Phase II Liquid Effluent Streams at the Hanford Site," were discussed.

- M-43-01-C: The scheduled completion date for this project was October 31, 1997; however, it is currently forecasted to be completed by December 31, 1997. This reflects a two month schedule slip.
- M-43-01: The SMB approved the baseline change request (CR-126/TWR-63-97) for project W-030. Approval of this change request increases the project's funding by \$9 million, and revises the project schedule.
- M-17-00B: Discussions centered around the ability for the TEDF lines to accept all discharge from the tank cooling towers, ventilation systems, etc. The maximum flow from the evaporator, tank ventilation systems, and other miscellaneous streams can be transferred to TEDF due to the demonstrated increase in capacity of the TEDF transfer line. Flow has been demonstrated at 4,200 gpm as compared to the design capacity of 3,600 gpm. Based on the available information, it has verbally agreed between RL and Ecology that the intent of the milestone had been met.

ACTION: E. M. Bowers. By July 31, 1997, provide Ecology with a copy of the pipeline flow test report, the ECN, and a written report that states that the evaporator will not be impacted before they will determine that the intent of the milestone has been met.

Ecology and RL tentatively agreed that the 216 permit should not be impacted as a result of the increase flow rate. The permit was assumed to be based on monthly average flow vs. maximum potential flow rate.

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

Milestone M-45-03A: The target date for completion of this milestone is now October 1998. The dispute resolution process has been extended until July 29, 1997.

Milestone M-45-03-T02: RL is in the process of issuing an RFP for the removal of HEAL from Tank C-106 after sluicing is complete. This RFP is targeted for release in August. Approximately 125 people attended the pre-briefing.

M-45-08-T02: Submitted leak detection criteria to Ecology the week of July 11th, and met with Stuart Harris on June 10, 1997.

ACTION: W. Wrzineski. Provide a copy of the meeting minutes to Ecology and to T. Clark for the Administrative Record. Complete. See Attachment 3. *W. Wrzineski 10/16/97*

Project W-320: The Draft Lessons Learned package for Project W-320 was submitted to Ecology for input in June; RL is awaiting Ecology's feedback. Behind schedule - safety class equipment issues.

Safety Document Tier II technical review is complete. The INEEL comment resolution meeting was held July 10, 1997; comment resolution is key to milestone completion. A Sub-TAP working meeting will be held July 23, 1997.

New milestones are being established under M-45-00 for the Phase I/II Privatization Data Quality Objective documents.

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

Craig Groendyke now replaces John Gray as Project Manager for Flammable Gas.

Milestone M-40-07 is in dispute resolution, but all remaining TPA milestones are on schedule.

A May 1997 action (Ref. Action 40-012) to provide Ecology with a summary list of work deferrals, and TPA and Defense Nuclear Facility Safety Board impacts associated with the potential FY 1998 work deferrals is still being worked. Ecology is actively participating in the discussions.

M-41-00, INTERIM STABILIZATION - JOHN CLARK

Milestone M-41-22: A change request was submitted to Ecology, requesting that this milestone date be extended to March 31, 1998. RL received verbal disapproval from Ecology based on potential impact to major Milestone M-41-00. RL is preparing a recovery plan and entering into dispute resolution.

Funding for Tank 241-A-101 field work has been expended. Field work is continuing on flammable gas Group 3 tanks (SX-104 and AX-101).

The Tank 241-BY-109 engineering evaluation is complete. The completion package will be sent to Ecology for concurrence by July 30, 1997.

Tank T-104 and -110 pumping will be restarted on July 10, 1997 (today). BY-103 will be started by month-end; plugged transfer line being cleared. A-101 activities have been suspended due to lack of funding.

One portable exhaustor is ready to use at a cost of approximately \$1M. Three additional exhaustors are in progress at an average cost of approximately \$400K a piece. RL and the contractor are reviewing the TWRS safety analysis and authorization basis to determine whether the exhaustors will be needed. If determined not to be required, suspension of the exhaustor effort will result

in a programmatic cost savings. The exhausters will be made available for other applications.

It was noted that even if the exhauster project was complete, it would not be adequate to meet Milestone M-41-00.

ACTION: M.A. McLaughlin/N.T. Hepner. Review the TPA and administrative procedures to determine when Ecology needs to be notified of the potential to miss a milestone.

RL should have an answer on the budgetary impacts to the M-41 milestone by mid-August. A recovery plan will be submitted following identification of the impacts.

M-43-07, PROJECT W-058, CROSS SITE TRANSFER LINE - BEN HARP

Milestone M-43-07B: RL is submitting a change request for a two-month extension. The operational milestone will be based on waste volume projections.

Ecology has indicated that they are willing to extend M-43-07B by two months, but they are not willing to extend the W-058 completion milestones (M-43-07 and M-43-07C), which are due February 28, 1998.

Construction activities are behind schedule; however, no milestone will be impacted.

M-43-10, PROJECT W-314, TANK FARM RESTORATION AND SAFE OPERATIONS - JIM NAVARRO

Supplemental Analysis was completed, and is going out for public review.

Funding required for accelerating phase 1 scope continues to be an issue. FY 1998 funding for acceleration is needed to support validation of FY 1999 capital funds. The Hanford Integrated Priority List (IPL) will be used to establish funding level. If not successful, RL (J. Kinzer) will appeal to DOE-HQ for support.

M-44-00, CHARACTERIZATION - JIM POPPITI

Ecology has rejected the FY 1997 Tank Waste Analysis Plan. The partnering group is continuing to work on resolution. Ecology will be given the opportunity to work with RL on the current draft, and then will also be given 30 days to conduct an independent review once the draft is completed.

Ecology raised the issue of DQOs and who has control over the characterization (vapor sampling) process. John Yerxa is checking to make sure that DQOs are not considered a primary document per the TPA (this could impact the review schedule).

The exhauster Notice of Construction (NOC) is being presented next week. RL is working with the PHMC to resolve the issue of submitting a waiver to WDOH. The waive would potentially address independent testing of HEPAs.

K-Basin sludge will most likely be transferred to the TWRS after treatment. Pretreatment is estimated to cost \$30M; funding is being sought.

ACTION: J. Poppiti. Respond to Ecology (S. Dahl) on the question, "Does the vapor sampling program need to be funded at current levels?" Provide justification basis.

M-46-00, DOUBLE SHELL TANK SPACE EVALUATION - MARK RAMSAY

No formal presentation made due to the cyclical nature of this milestone. No issues or changes were noted.

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

M-90-05T: Language in change package needs to meet the requirements of DOE Order 435.1, "Waste Management Regulations." Clerical error referencing a due date of 2001 instead of 2002 will be corrected at the same time.

Suzanne Dahl, Ecology, has requested that Jeff Voogd, Phil LaMont, and others start some preliminary discussions on the Permit Plans and schedules. RL stated that the HLW permit schedule is complete, and the LLW permit schedule is being internally reviewed.

ACTION: P. LaMont/J. Voogd. Schedule meetings with Ecology and involved parties to discuss permitting path forward.

GENERAL DISCUSSION AND COMMENT (NOT MILESTONE SPECIFIC)

S. Dahl commented that Ecology was frustrated by the practice of being sent an RL approved milestone change package without prior discussion with Ecology. This practice has occurred 4 times in the last 2 months is contrary to IAMIT. direction. RL and FDH indicated that this practice had only been undertaken to preserve dispute resolution rights and was not a preferred practice. Ecology, RL and FDH agreed that all parties needed to be proactive to meet the 92 day change control requirements and avoid the need to preserve dispute resolution rights.

J. Yerxa, RL, was requested to accelerate submittal of an RL letter to Ecology summarizing the list of potential TWRS TPA changes/misses (Action item 41-007, May 1997). The letter should be submitted no later than July 14, 1997 to support the Salt Lake City conference schedule the week of July 28, 1997.

TWRS Project Managers Meeting
July 10, 1997

ATTACHED 3
PAGE 1-4



3250 WEST CLEARWATER AVENUE, KENNEWICK, WASHINGTON 99336
TELEPHONE (509) 736-0616 FAX (509) 736-7504

June 18, 1997

Post-It* Fax Note	78/1	Date	7/2	# of pages	4
To	TERESA CLARK	From	WYNDELL		
Co./Dept.		Co.			
Phone #		Phone #	376-6751		
Fax #	375-4764	Fax #			

Ms. Carolyn Haass
U.S. Department of Energy
Richland Operations Office
P. O. Box 550 (S7-51)
Richland, WA 99352-0550

Re: JACOBS PROJECT 01K47102
TWRS COMMUNICATION RECORD FOR JUNE 10, 1997

Dear Ms. Haass:

Attached is the Communication Record for the meeting held on June 10, 1997. Should you have any questions, please contact Dave Nichols or me at (509) 736-0616.

Sincerely,

Marc E. Nelson
TWRS Project Manager

MEN:pw

Attachments: Communication Record for June 10, 1997

- cc: w/attachment
E. Fredenburg, NUMATEC (H6-12)
S. Harris, CTUIR (Sharris@ucinet.com)
C. Henderson, Jacobs (B5-36)
B. Lober, DOE-RL (S7-51)
M. Nelson, Jacobs (B5-36)
D. Nichols; Jacobs (B5-36)
P. Rogers, Jacobs (B5-36)
B. Root, HTI (H6-12)
C. West, DOE-RL (S7-51)
W. Wrzesinski, DOE-RL (S7-53)
Project File: S.3.4.2.3

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JUN 26 1997

DOE-RL/RLCC

TWRS Project Manager's Meeting
July 10, 1997

Attachment 5
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TWRS COMMUNICATION RECORD

Date of meeting: June 10, 1997

Participants or Attendees (with organization): Stuart Harris, Confederated Tribes of the Umatilla Indian Reservation (CTUIR); Bob Lober, DOE-RL; Craig West, DOE-RL; Wendell Wrzesinski, DOE-RL; Deborah Iwatate, NUMATEC; Bill Root, HTI/Informatics; Colin Henderson, Jacobs; Phil Rogers, Jacobs; Dave Nichols, Jacobs

Subject(s) Discussed/Summary of Discussions:

The following items were discussed at the meeting.

1. Possible leak losses during retrieval and leak detection, monitoring, and mitigation (LDMM) program overview
 - Requirements (Tri-Party Agreement milestones and TWRS program logic)
 - Past activities (technology searches, technology development and deployment, and retrieval strategies)
 - Future activities (tank C-106 retrieval, initial tank retrieval system)
 - The draft LDMM strategy paper and CTUIR review and input on the strategy.
2. Sensitivity and uncertainty analysis for the Retrieval Performance Evaluation Criteria Assessment
 - Source term data sources and uncertainty
 - Contaminant transport data sources, modeling, and uncertainty
 - Short- and long-term risk assessment based on source term and contaminant transport (this discussion was deferred to future meeting on risk assessment due to time constraints).
3. Bob Lober provided Stuart Harris with copies of papers concerning the feasibility of using subsurface barriers to mitigate retrieval losses and tank waste retrieval sequencing.
4. Wendell Wrzesinski provided Stuart Harris for CTUIR review and input with a draft paper on the process for determining LDMM criteria.

Issues/Concerns Identified:

The following issues and concerns were identified during the meeting.

1. Joe Richards (CTUIR) is addressing air emissions and would like to discuss issues associated with tank C-106 emissions with Wendell Wrzesinski or the appropriate TWRS representative.
2. Has DOE considered the use of CO₂ pellets as a retrieval technology? Wendell Wrzesinski indicated that the technology had been explored but was found unfeasible for residual tank waste retrieval.
3. Stuart Harris will be involved in the Technology Development Initiative evaluation of Hanford technologies. He expressed an interest in closely reviewing technologies associated with LDMM and sharing with the LDMM program staff information on potentially applicable technologies.
4. Stuart Harris was interested in whether DOE was still considering mechanical retrieval systems. According to Wendell Wrzesinski and Craig West, HTI is looking at potential mechanical systems for retrieval of hard-heel waste, and these systems may be applicable for overall waste retrieval. However, they stressed that the baseline retrieval technology is sluicing.
5. Stuart Harris asked what the source would be used for sluicing liquids. Wendell Wrzesinski indicated that for tank C-106, the plan was to use supernate. However, the conceptual design for

TWRS Project Managers Meeting
July 10, 1997

Attachment 5
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ISTRSS has not identified the type of liquid to be used. Stuart Harris expressed his concern that if supernate or any other liquid is used DOE should carefully consider the composition of the liquid on a tank-by-tank basis because mixing some liquids with some tanks may result in added problems.

6. Stuart Harris asked whether the privatization schedule and plan was well coordinated with the retrieval strategy. Bob Lober suggested that a separate conversation with Neil Brown or Rob Gilbert would be most productive in addressing this issue because of the business-sensitive nature of many privatization communications.
7. Stuart Harris asked whether or not there has been a breach in the integrity of tank C-106. According to Wendell Wrzesinski, studies of the integrity of tank C-106 do not indicate any leaks or degradations in the tank structure.
8. Stuart Harris asked the following questions regarding sluicing tank C-106.
 - What is the volume of sluicing liquid required to retrieve the waste?
 - What is the volume of waste in tank C-106?
 - Is there a "dish" in the middle of the tank that would support sluicing from the center of the tank out as a strategy to limit leak loss potential?

Wendell Wrzesinski indicated that past sluicing has required up to 200 times the volume of liquid to complete retrieval; however, the retrieval liquid is recycled, thus limiting the total volume of liquids used in the process. Wrzesinski was unsure of the total volume of liquid or if there was a "dish" in the tank waste, but limited sluicing strategies could likely be used and are being considered.
9. Stuart Harris asked if during the LDMM evaluation of technologies if technologies from the oil and mining industry were considered. Wendell Wrzesinski indicated that a broad range of technologies had been considered including ones that were geology based and that the technologies considered were identified in the report on the survey of technologies prepared for the LDMM program.
10. Stuart Harris inquired regarding information on the pattern of ruptures or other leak sources in the tanks. Wendell Wrzesinski indicated that there were a variety of types of leaks and that site reports identified the potential leak source for each tank.
11. Stuart Harris indicated that the CTUIR had reviewed a paper by Don Alexander and were still interested in receiving a response to their comments. Bob Lober stated that he would try to get a response from Don Alexander or from the appropriate TWRS program staff.
12. Stuart Harris asked about the extent that recent information regarding a "major" fault in the area was being considered in the analysis (accidents) and modeling (the fault may provide a pathway for communication between upper and lower aquifers. Phil Rogers indicated that Jacobs would look into the issue and incorporate the data into its analysis.
13. Stuart Harris indicated that the iterative approach being used to address uncertainties with transport properties made sense and would aid in addressing the data gaps that exist regarding contaminant transport.
14. Stuart Harris requested copies of the draft reports on inventory for the three source terms.
15. Stuart Harris indicated that he supported working with all three tribes to address the risk assessment for the Native American scenario. He and Bob Lober will talk with each other and the other tribes to set a schedule for follow-up meetings. Stuart suggested Tuesday mornings

TWRS Project Managers Meeting
July 10, 1997

ATTACHMENT 5
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preceding the CRCIA meetings when all three tribes typically are in Richland each week.

16. Stuart Harris indicated an interest in being invited to the Working Group session (June 30-July 1) but will be unavailable. Bob Lober indicated that Stuart would be provided with a copy of the AX Tank Farm screening analysis and copies of documents prepared for the meeting.

Required Actions:

1. Wendell Wrzenski will provide Stuart Harris with a white paper on tank C-106 liquid losses that demonstrated that losses were accounted for through evaporation and have the appropriate individual contact Joe Richards regarding tank C-106 air emissions.
2. Bob Lober will have Neil Brown contact Stuart Harris regarding DOE's assessment of the ability of the privatization vendors to meet their obligations considering DOE's retrieval strategy.
3. Stuart Harris will review the document list on the LDMM Home Page and get them through the DOE Reading Room or through Wendell Wrzenski if they are unavailable in the Reading Room.
4. Stuart Harris will review the Draft LDMM strategy paper and fax comments to Wendell Wrzenski in early July 1997.
5. Stuart Harris will coordinate with the Yakama Indian Nation and Nez Perce Tribe for input on a Native American scenario for the Retrieval Performance Evaluation Criteria Assessment.
6. Bob Lober will coordinate with Stuart Harris to schedule a meeting on risk assessment with the three affected Tribal Nations.
7. Jacobs will coordinate with Stuart Harris regarding Stuart's offer to use the CTUIR Sun Workstation to support the Retrieval Performance Evaluation Criteria Assessment analysis of contaminant transport.
8. Jacobs will provide Stuart Harris with copies of the draft inventory studies for tank AX-104 residual waste, past leaks, and potential leaks during retrieval.
9. Jacobs will provide Stuart with meeting notes and distribution materials from the upcoming Working Group meeting on the Retrieval Performance Evaluation Criteria Assessment.

Prepared/Recorded By: Dave Nichols, Jacobs *DW*

Date: June 12, 1997

Distribution:

C. Haass, DOE-RL (S7-51)
 B. Lober, DOE-RL (S7-51)
 W. Wrzesinski, DOE-RL (S7-53)
 C. West, DOE-RL (S7-53)
 S. Harris, CTUIR (Sharris@ucinet.com)
 Bill Root, HTI (H6-12)
 Ed Fredenburg, NUMATEC (H6-12)
 M. Nelson, Jacobs (B5-36)
 D. Nichols, Jacobs (B5-36)
 C. Henderson, Jacobs (B5-36)
 P. Rogers, Jacobs (B5-36)
 Project File: S.3.4.2.3

MILESTONE M-45-00

COMPLETE CLOSURE OF ALL SINGLE SHELL TANK FARMS

W. Wrzesinski

Milestone Description

M-45-00, "Complete closure of all single-shell tank farms by 2024." Closure will follow retrieval of as much tank waste as technically possible.

Milestone Status/Progress

M-45-03A, "Initiate Sluicing Retrieval of C-106" (10/31/97)

- Target date for completion October 1998
- Dispute resolution 30-day extension
- Received proposed milestones from Ecology
 - Acceleration of initiation of heel removal
 - Completion of waste removal demonstration

- Safety Document tier II technical review by Sub-TAP and INEEL.
 - INEEL comment resolution meeting—July 10, 1997
 - Sub-TAP working meeting—July 23, 1997

Milestone Status/Progress (cont.)

M-45-08-T02, “Establish criteria through stakeholder participation for (1) determining allowable leakage, and (2) acceptable LDMM measures to permit sluicing operations” (9/30/97)

- Met with Stuart Harris on June 10, 1997
- Leak Detection Criteria in support of this milestone to be sent out this week.

M-45-03-T02, “Initiate Final Retrieval Demonstration of C-106” (June 2002)

- Vendor proprietary technology demonstration in support of August RFP release as part of HTI

Other Items

- Added milestones M-45-00 for Ecology approved DQO for Phase II privatization (Phase I considerations as part of milestones M-51-00 and M-60-00)
- Integrated Priority List

PROJECT REVIEW

TWRS PROJECT
RETRIEVAL PROJECT

MAY 1997

ADS			FYTD			SV	CV	Current BCWS ²
			BCWS	BCWP	ACWP			
1210-0	Waste Retrieval	Expense	5.0	4.6	5.8	(0.5)	(1.2)	8.6
		CENRTC	0.1	0.1	0.1	0.0	(0.0)	0.3
		GPP/LI	0.0	0.0	0.0	0.0	0.0	0.0
	Subtotal 1210-0		5.1	4.6	5.9	(0.5)	(1.2)	8.9
1210-2	101-AZ Retrieval Sys W-151	Expense	0.2	0.2	0.4	0.0	(0.1)	0.2
		CENRTC	0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI	0.4	0.1	0.4	(0.4)	(0.4)	0.4
	Subtotal 1210-2		0.7	0.3	0.8	(0.4)	(0.5)	0.7
1210-3	Initial Tank Retrieval Sys W-211	Expense	0.6	0.6	0.5	(0.0)	0.1	1.0
		CENRTC	0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI	3.3	3.5	3.9	0.1	(0.5)	12.6
	Subtotal 1210-3		3.9	4.1	4.5	0.1	(0.4)	13.6
1210-4	106-C Slucing W-320	Expense	4.8	4.8	7.4	0.0	(2.6)	5.2
		CENRTC	0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI	0.0	0.0	0.0	0.0	0.0	0.0
	Subtotal 1210-4		4.8	4.8	7.4	0.0	(2.6)	5.2
Total Retrieval Project		Expense	10.7	10.2	14.1	(0.5)	(3.9)	15.0
		CENRTC	0.1	0.1	0.1	0.0	(0.0)	0.3
		GPP/LI	3.8	3.6	4.4	(0.2)	(0.8)	13.0
Retrieval Project Summary			14.5	13.8	18.5	(0.7)	(4.7)	28.4

\$ in Millions

PROJECT W-030

TANK FARM VENTILATION UPGRADE

RL CONSTRUCTION PM: LINA PACHECO

M&I PROJECT DIRECTION: JANICE WILLIAMS

NHC CONSTRUCTION PM: TARIK CHOHO

July 10, 1996

AGENDA

- Milestone History
- Accomplishments
- Revised Estimate and Schedule to Complete
- Upcoming Activities
- Issues/Concerns

MILESTONE HISTORY

No.	Title	Due	Status	Remarks
M-43-01-T01	Complete Definitive Design	July 1994	Completed May 1994	Completion of this TPA milestone was documented by RL in a letter to Ecology dated July 15, 1994.
M-43-01A	Start Construction	October 1994	Completed September 1994	Completion of this TPA milestone was documented by RL in a letter to Ecology dated October 18, 1994.
M-43-01B	Complete Construction	October 1996	Completed April 1996	Completion of this TPA milestone was documented by RL in a letter to Ecology dated May 29, 1996
M-43-01C	Begin Operation	October 1997	Forecast to Complete 12/97	Schedule to complete 10/31/97, Forecast to complete 12/31/97, Current project schedule reflects a two month schedule slip
M-43-01	Complete Project W-030 Tank Farm Vent. Upgrades	October 1997	Forecast to complete 12/97	Same as above (Potential Impacts to M-17-00B)

ACCOMPLISHMENTS

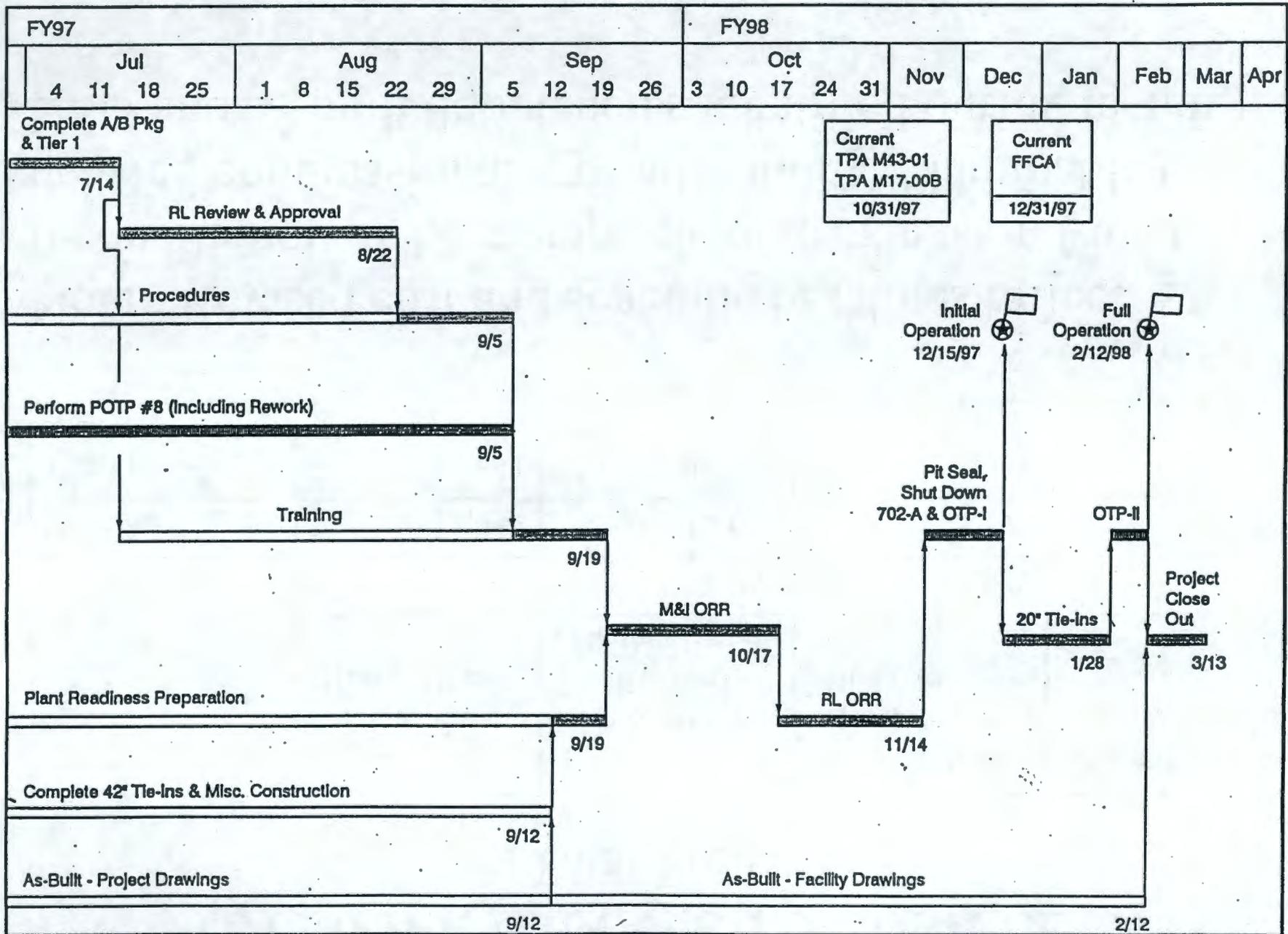
- Approval of Baseline Change Request TWR-63-97, increase in TEC, TPC and revised project schedule to complete

REVISED ESTIMATE TO COMPLETE
(Total Project)

	CR-124 (Current Budget Base)	CR-126/ TWR-063-97 (Revised Budget Base)	Cost Impact (Increase in Budget Base)	Cost to date (as of 6/13/97)
Capital	27,399	31,257	3,838	25,617
Expense	11,442	16,635	5,193	13,063
Total Project Cost	38,841	47,892	9,031	38,680

Note: Revised cost and schedule baselines reflect reconciliation of 12 month schedule extension (due to delayed congressional reprogramming, Flammable Gas USQ and as-built deficiencies identified during testing).

W-030 Tank Farm Ventilation Upgrade



UPCOMING ACTIVITIES

- M&I submittal of Authorization Basis Packet
July 11, 1997 for RL Tier II and III review and
approval
- Initiate 42 inch riser tie-ins
- Complete Integrated System Test, Pre-operational
Test 8

ISSUES/CONCERNS

Major Milestone M-17-00B Clarification

M-17-00B path forward:

- Reassessment of and revision to BAT/AKART Engineering Report
- Ecology determination, BAT/AKART intent has been met (all discharges to B-pond cease via Project W-252, Treated Effluent Disposal Facility, tie-in)

ISSUES/CONCERNS (con't)

- Two month delay to Interim Milestones M-43-01C and M-43-01

M-43-01C and M-43-01 path forward:

- Submit TPA change request to reflect a 2 month extension.
- Assures project completion under TPA

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, Organic, High-Heat, and Criticality

M-40-09, “Close all Unreviewed Safety Questions (USQ) for Double-Shell and Single-Shell Tanks” (September 1998)

DOE is using the Safety Controls Optimization by Performance Evaluation (SCOPE) process to quantify uncertainty in resolving the Flammable Gas USQ

M-40-12, “Resolve Nuclear Criticality Safety Issue” (September 1999)

Roles and Responsibilities

Project Lead—Dennis Irby (acting)/Robert Cash

Flammable Gas—Craig Groendyke/Jerry Johnson

Organic—Stan Branch/Joe Meacham

High Heat—Russ Harwood/Dave Bratzel

Issues/Action Items

M-40-07 in dispute resolution

All remaining TPA milestones are on schedule

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 Project Manager - John Clark, 376-2246

FDH Project Manager - Dennis Rewinkle, 373-1349

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

LMHC Program Manager - Dave Saueressig, 373-0183

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

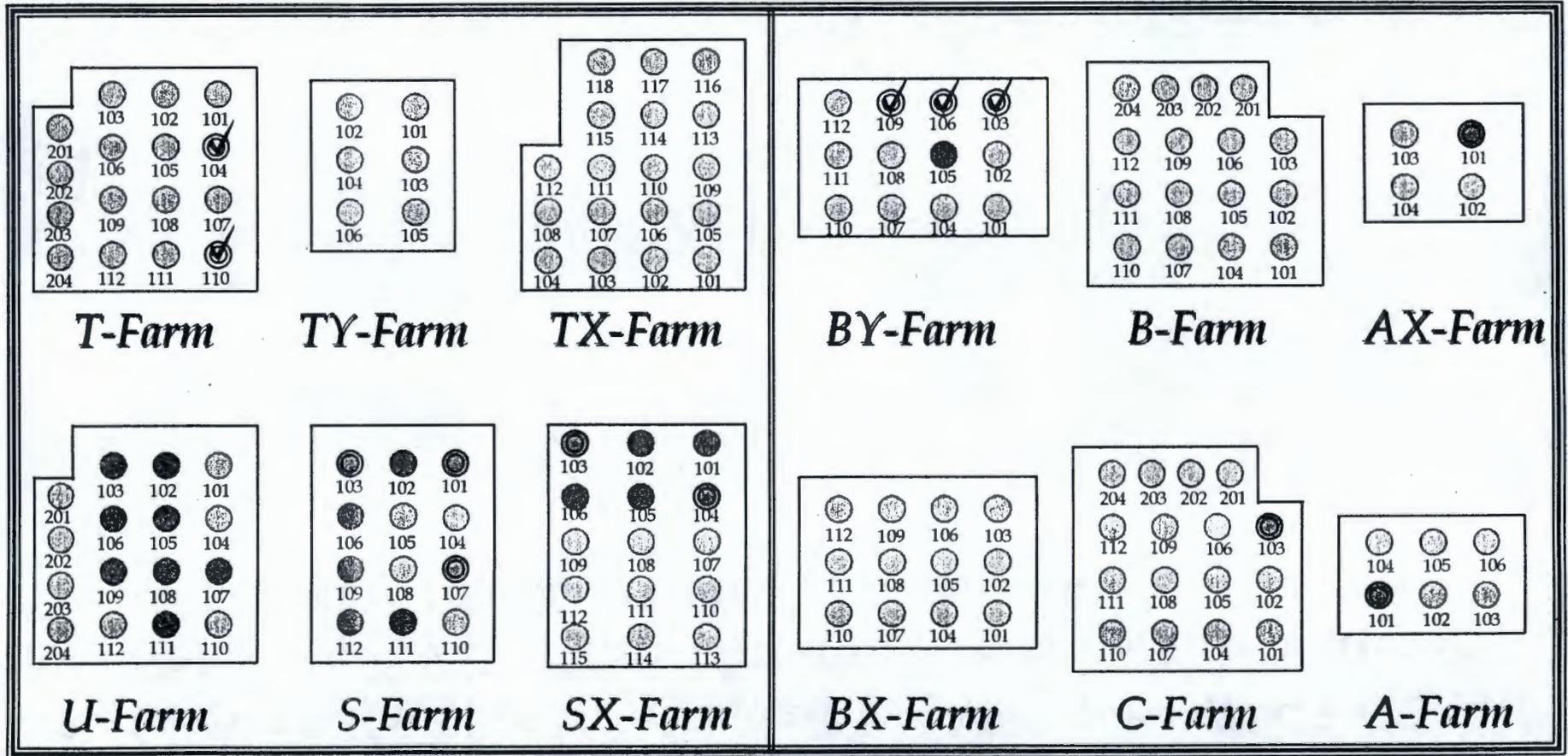
- **M-41-22, "Start Interim Stabilization of Six SSTs by September 30, 1997"**

SINGLE SHELL TANK FARMS

Interim Stabilization Progress Status

Interim Stabilized	117
Pumping Initiated	5
Retrieval	1
Not Pumped	26
TOTAL SSTs	149

Status as of June 5, 1997



● Stabilized	● Not Pumped	○ Pumping Initiated	● Retrieval	◎ Screen Installed	✓ Pump Installed
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History

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

Status

- Tank 241-T-110 ready to pump, impacted by pit work that supports W-058 (volume remaining \approx 3K gal)
- Tank 241-T-104 ready to pump, impacted by pit work that supports W-058 (volume remaining \approx 20K gal)
- Three additional exhausters are being fabricated for saltwell pumping flammable gas tanks. Next exhauster to be delivered July 1997
- Tank 241-BY-103 flammable gas monitor is installed. A pluggage in the transfer line SN-200 is being cleared. (Restart July 31, 1997 or earlier)
- Tank 241-SX-104 saltwell screen has been installed and waste samples have been taken. Major equipment has been staged in the field for installation in the near-term
- Tank 241-AX-101 saltwell screen has been installed, waste samples are scheduled to be taken this month

Status (cont)

- Tank 241-BY-109
 - Engineering evaluation is complete and the tank met the criteria for stabilization, it was also validated as exceeding the criteria for major equipment failure. The recommendation is going through LMHC approval and should be transmitted to RL this month

- Tank 241-A-101
 - Funding established for this tank has been expended on the work accomplished. The pathforward for this tank is part of the August deliverable for M-41 Recovery Plan

Issues

- **Budget**

- M-41 interim milestones may be impacted by TWRS FY 1997 funding overrun
- M-41 interim milestones may be further impacted by TWRS FY 1998 funding distribution

- **M-41-22 Change Request**

- Submitted change request to the state

- **M-41 Major Milestone**

- Development of an overall recovery plan by the August Project Manager's meeting

Summary

- **Significant challenges (increased cost and authorization basis inconsistencies) from flammable gas issue slowing M-41 work**
- **Project remains focused on starting facility group 3 tanks and establishing a consistent and cost effective authorization basis for facility group 2 tanks**

MILESTONE M-43-07

CROSS-SITE TRANSFER SYSTEM

B. Harp

Milestone Description

Project W-058 will replace the present cross-site transfer system with a buried pipe-in-pipe system, approximately 6.5 miles long. This system will be capable of transferring liquid waste in either direction between Hanford's 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 the 200 East and 200 West Areas 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

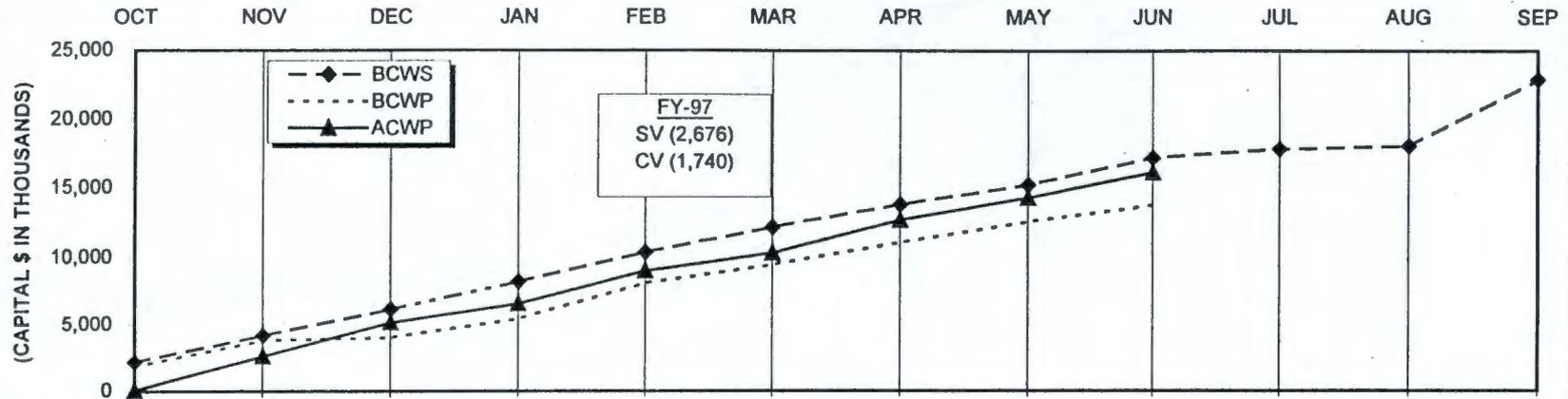
Mike Royack—Director of Tank Operations

John Clark—Program Manager of West Tank Farms

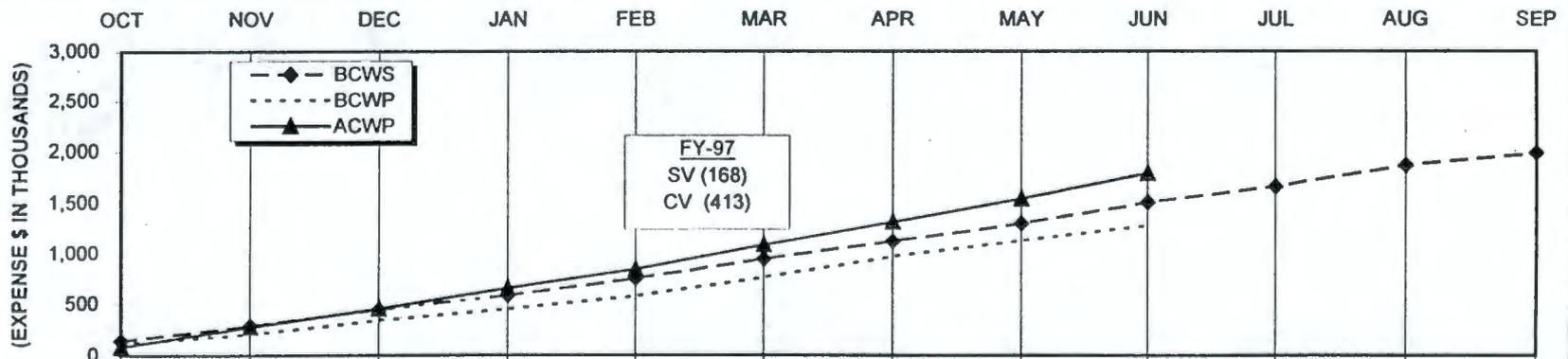
Ben Harp—Project Manager for Project W-058

Norm Hepner—WDOE Project Manager

**W-058 CROSS SITE TRANSFER LINE
FY 1997 COST AND SCHEDULE PERFORMANCE**



	Prior Yr	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BCWS	18,614	2,181	4,158	6,153	8,229	10,382	12,194	13,814	15,257	17,247	17,905	18,072	22,926
BCWP	19,355	1,839	3,809	4,034	5,436	8,116	9,472	11,088	12,581	13,789			
ACWP	19,474	72	2,603	5,143	6,570	8,998	10,337	12,701	14,321	16,173			
SV	741	(342)	(349)	(2,119)	(2,793)	(2,266)	(2,722)	(2,726)	(2,676)	(3,458)			
CV	(119)	1,767	1,206	(1,109)	(1,134)	(882)	(865)	(1,613)	(1,740)	(2,384)			



	Prior Yr	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BCWS	3,763	142	289	445	586	749	945	1,124	1,300	1,508	1,664	1,868	1,988
BCWP	3,486	111	209	341	451	576	761	969	1,132	1,283			
ACWP	3,225	82	278	454	655	842	1,087	1,315	1,545	1,791			
SV	(277)	(31)	(80)	(104)	(135)	(173)	(184)	(155)	(168)	(225)			
CV	261	29	(69)	(113)	(204)	(266)	(326)	(346)	(413)	(508)			

Status

Pipeline construction

Backfilling in 75% complete

Installation of conduit 55%

Welding complete

DB/VS wiring terminations

Jumpers being reinstalled in SY A & B valve pits

Jumper fabrication continues

Planned Activities

Backfilling

Startup Test Plan and Procedure Plan approved—Procedures being written

Backfilling in SY Farm, installation of shield plates

Issues

- **Dispute resolution**
 - **Submitting change request for construction milestone M-43-07B**
 - **Operational milestone will be based on waste volume projection (9/30/97)**
- **FDH formally stated milestone can still be achieved**
- **RL will keep WDOE appraised of any changes**

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 FY2001, 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

Preparing for FY99 Validation for July 16, 1997.

NEPA documetation (Supplemental Analysis) was completed and approved.

Conducted 30% design reviews on 2 packages.

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

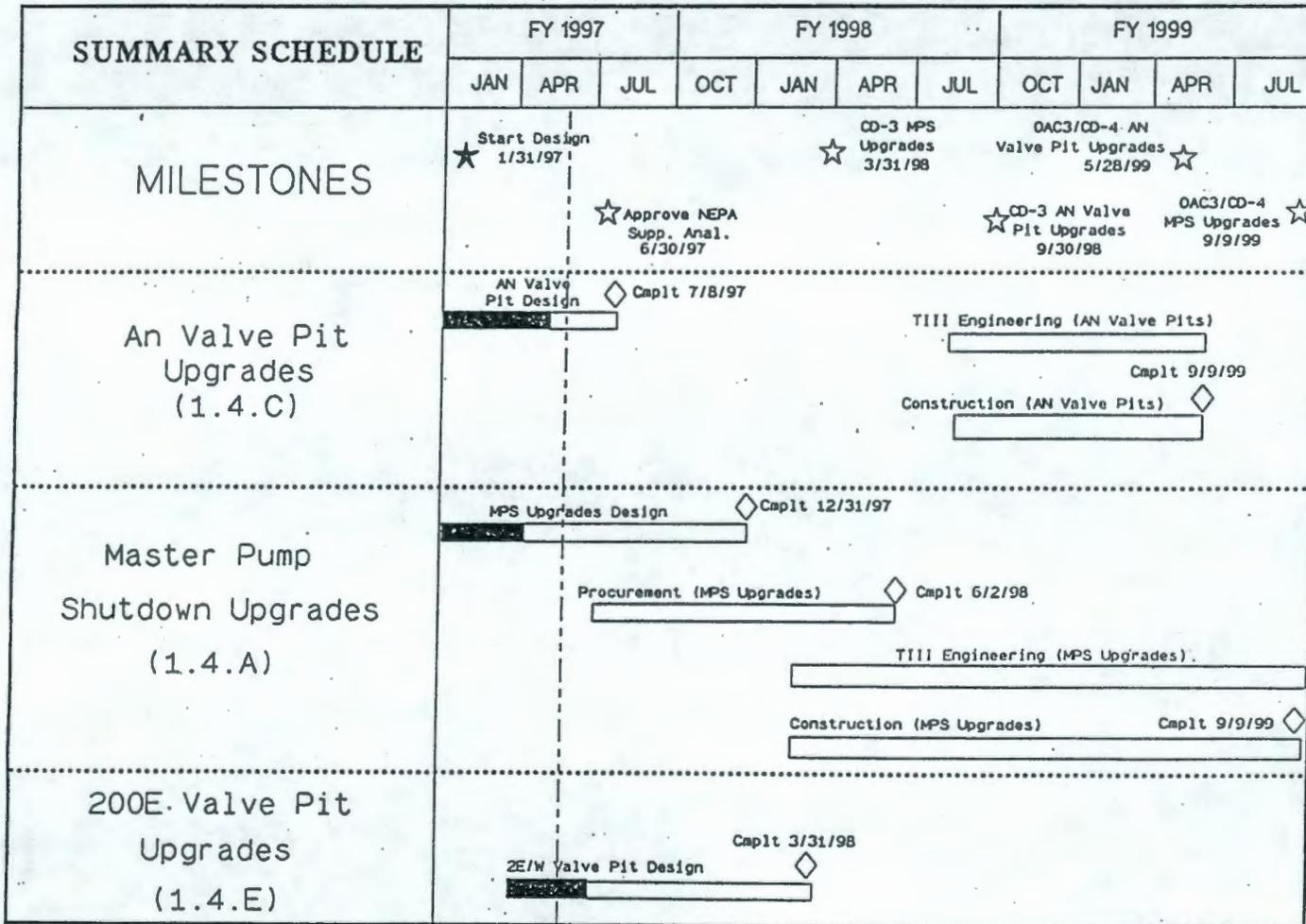
Requested change package for accelerating project's phase 1 scope.

ISSUES

Funding required for acceleration continuing to need support in the IPL.

Summary Schedule

PROJECT W-314, Tank Farm Restoration and Safe Operations



Status

 Date Line

MILESTONE M-44-00

DOUBLE AND SINGLE-SHELL TANK CHARACTERIZATION

James Poppiti - U.S. DOE

July 1997

TPA Milestone Status

<u>Milestone</u>	<u>Deliverable</u>
M-44-02C	Ecology rejected final FY 97 TWAP, dispute resolution in progress
M-44-01D	Draft TWAP for FY 98 on 5/31/97. Draft WIRD has been submitted.
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, 105 TCRs completed, 72 tanks remaining	

Status of Samples Taken: May and June 1997

	May 1997 Samples		June 1997 Samples	
	Planned	Completed	Planned	Completed
Rotary	3	6	2	4
Push	2	2	2	4
Auger	0	0	0	0
Grab	0	2	2	1
Vapor	2	3	3	3

Note: Planned is from Schedule 5.0

Status of Tanks Sampled: May and June 1997

Vapor	GRAB	Auger	Push	Rotary
TX-104	AW-106		BY-101	AW-103
SX-111	TX-244		BY-109	AW-105
BX-104	SX-103		T-105	BX-110
SX-112				BX-111
SX-114				AW-104

Status of Core Sampling Trucks

Truck	Status	Actions
#1	Resumed sampling 5/97	<ul style="list-style-type: none">• Mechanical RLU replaced• Weather enclosure installed
#2	Resumed push mode sampling 1/30/97	<ul style="list-style-type: none">• Upgrade to rotary mode after truck #3; not funded
#3	Flammable Gas modification outage	Deployment anticipated September 1997
#4	Flammable Gas modification outage	Deployment anticipated August 1997

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. Sixteen new FY 1998 TCRs will be produced due to offsetting workscope reductions necessary to produce the Waste Information Requirement Document (WIRD) and laboratory analysis in support of Privatization.**
- **Ecology has agreed to sampling lower priority tanks with truck #2 to allow productive use of the sampling crews.**

Issues (cont.)

- **Rotary Mode Core Sampling in Flammable Gas Tanks**

RL has authorized a change to the Authorization Basis to allow rotary mode core sampling using the Standing Order control set for the Flammable Gas hazard.

Exhauster does not comply with NOC. Working issue with Department of Health. Resolution may require an NOC revision/new NOC to allow sampling in SX farm using existing tank farm exhauster.

BACK-UP INFORMATION

Sampling by Month Bar Charts, Characterization Sampling Event Spreadsheet and Laboratory Output Bar Chart

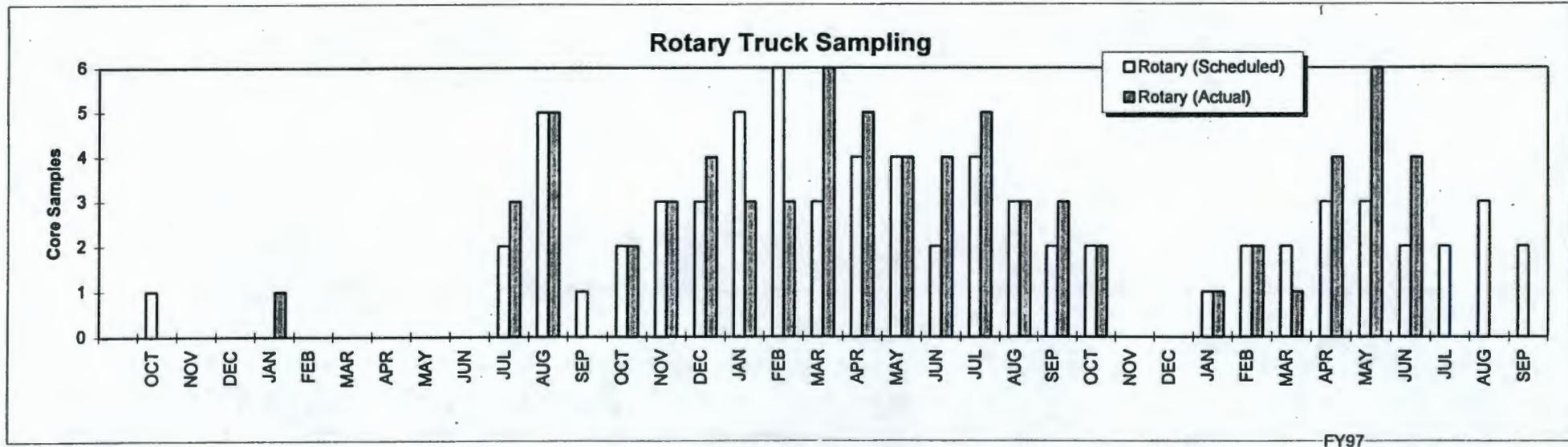
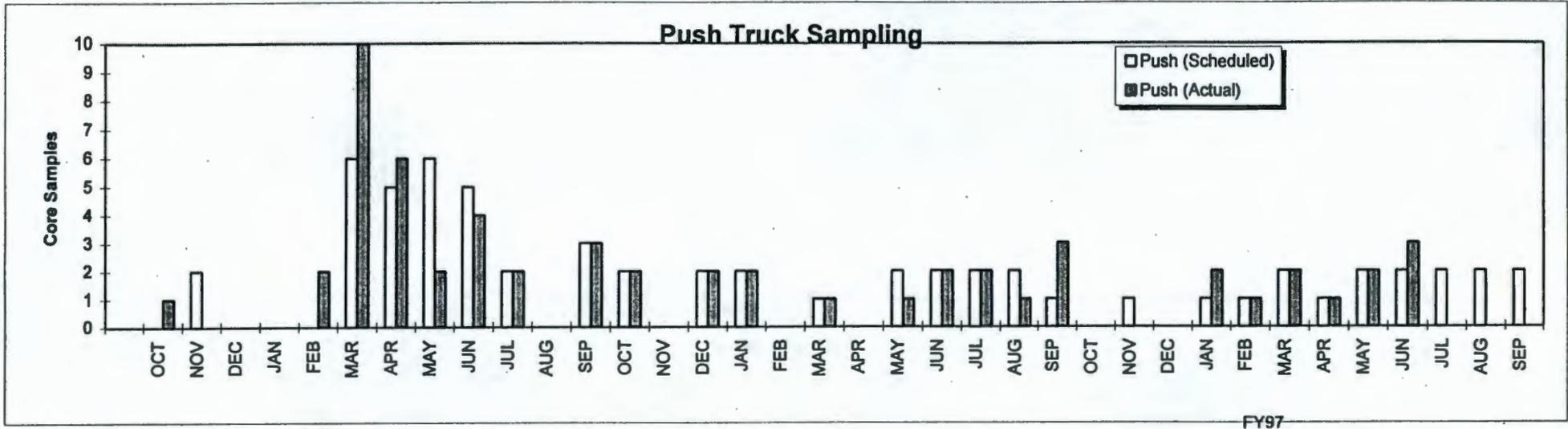
Contact Tom Kelley, 373-2038, for copies

Characterization Sampling Events

WEEK ENDING	RMCS T #2, #3, #4	PMCS T #1	TOTAL CORES	GRAB	VAPOR	COMMENTS
97 MYPP	30	8	38	20	42	Change Request TWR 97-035
4/6/97			0			FEB and High Winds (>40 mph) on 3/30/97 and 4/3/97
4/13/97	T-204 ⁽⁵⁴⁾	U-103 ^(E,1)	2	C Farm* SX-104	BX-104	FEB Field Portion Complete; * C Farm Dry Well Grab Funded by Vadose Zone
4/20/97	T-203 ⁽⁵⁷⁾		1			
4/27/97	T-202 ⁽⁵⁶⁾ T-201 ⁽⁵⁵⁾		2	AY-101		
5/4/97			0	AW-106	C-107 * AX-103 *	* Tracer Gas Vapor Samples Funded by Flammable Gas Program
5/11/97	AW-103 ⁽²¹⁾ (2)		2		TX-104	
5/18/97	AW-105 ⁽²⁶⁾ (2)		2			
5/25/97	BX-110 ⁽⁵⁸⁾ (2)*		2		SX-107 BY-105** SX-111	* First Core 2 of 4 Segments ** Funded by Flammable Gas Program
6/1/97		BY-101 ⁽⁵⁾ (2)*	2	TX-244	U-103 **	* First Core 3 of 8 Segments, Second Core 4 of 8 Segments ** Funded by Flammable Gas
6/8/97	BX-111 ⁽⁹¹⁾ *		1	SX-103	C-106**	*Bottom Detector Cycled 1 Inch Into The 19 Inch Stroke **Funded by W-320 Project
6/15/97	BX-111 ⁽⁹¹⁾ *	BY-109 ^{(6)**}	2		BX-104	*3 of 4 Segments ** 5 of 7 Segments
6/22/97		BY-109 ⁽⁶⁾	1		SX-112	
6/29/97	AW-104 ⁽⁶⁴⁾ (2)	T-105 ⁽⁸⁷⁾	3		SX-114	
YTD	20	11	31	11	37	
Schld YTD	15	10	25	11	36	
Other Funding				3	6	

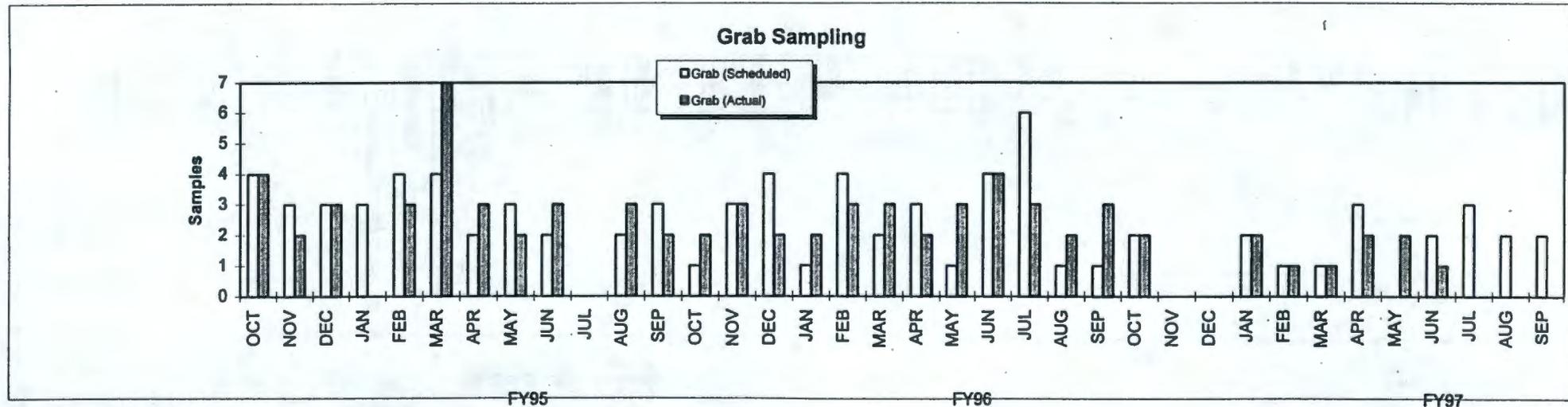
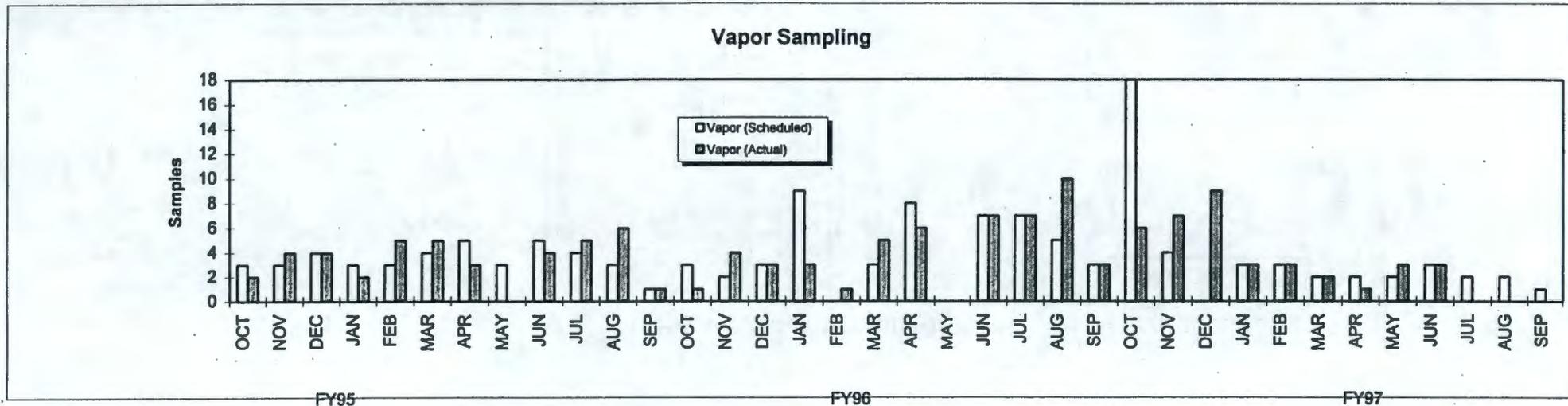
Characterization

Push and Rotary Sampling

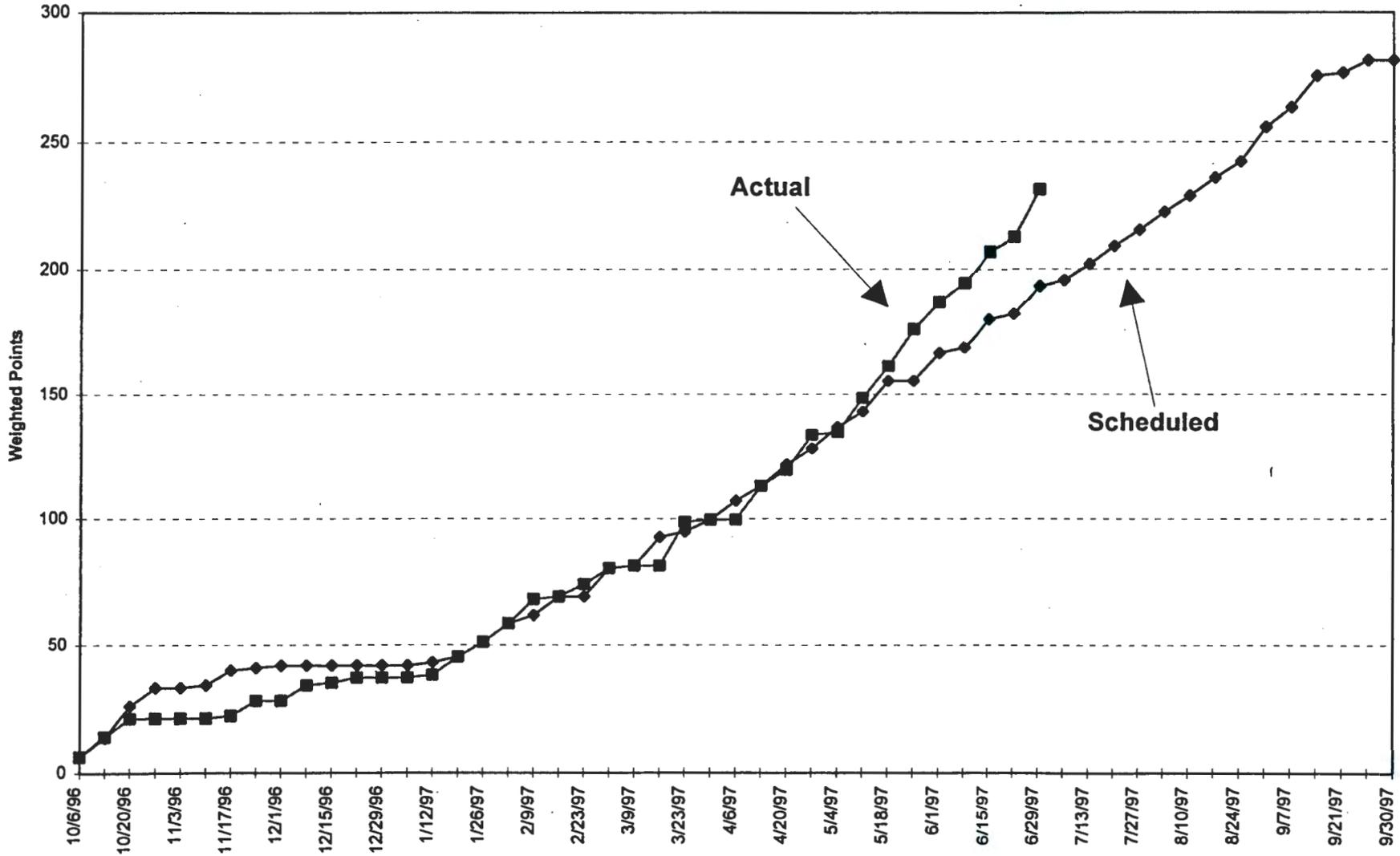


Characterization

Vapor and Grab Sampling



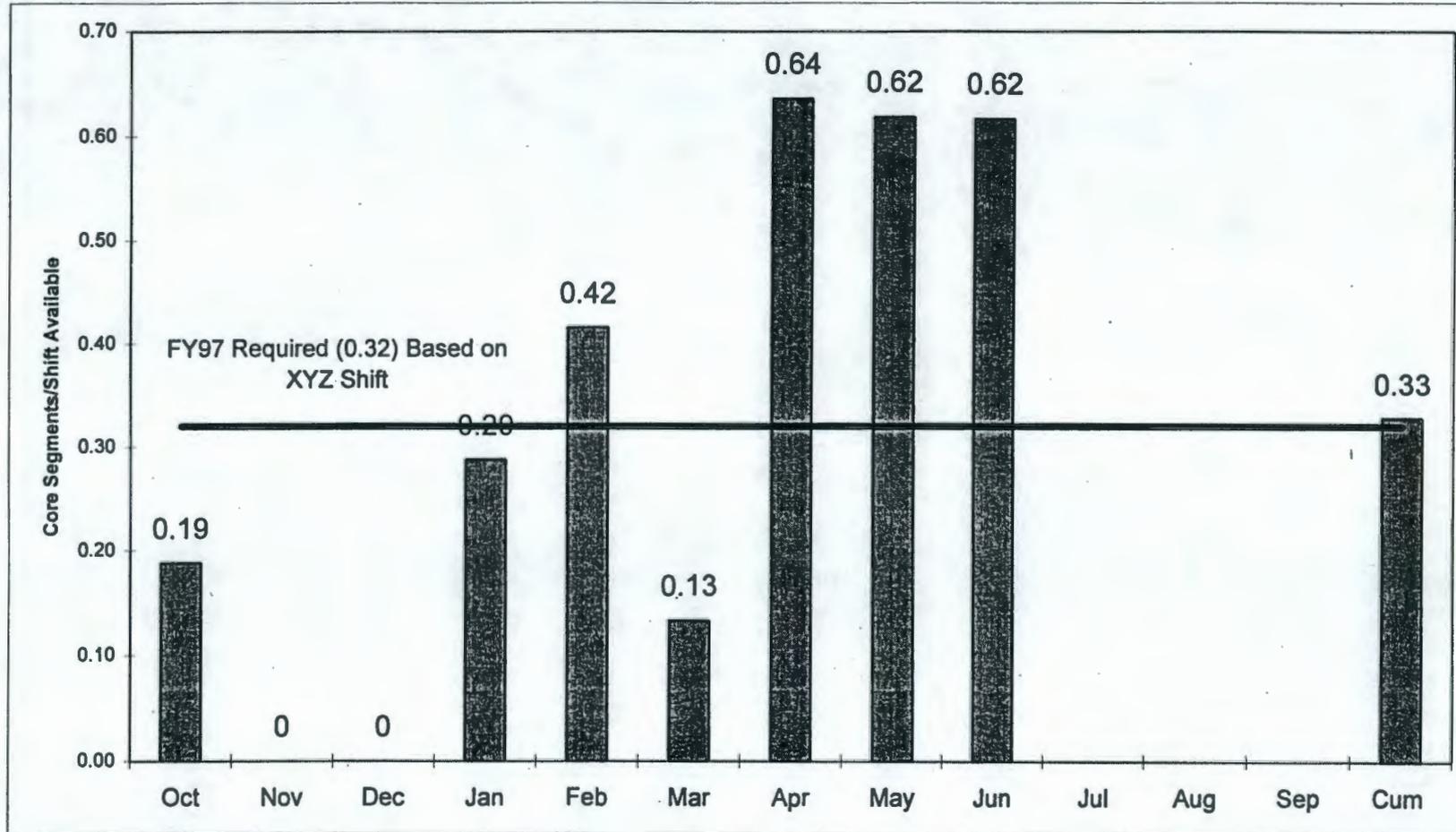
Revision 5.0 Scheduled vs Actuals





Characterization

Push and Rotary Sampling



M-46 Milestones
Project Managers Meeting
June 1997 Status

Mark Ramsay

Milestones

**M-46-00D Double-Shell Tank Space Evaluation
9/30/97**

This new milestone replaces existing milestone M-31-02. 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-46-01D Concurrence of Additional Tank
Acquisition
11/30/97**

This is a new milestone. The three parties shall meet to establish new milestones, if required, for acquisition of additional tanks.

Status

- Waste volumes significantly below projection for the year due to slow saltwell pumping.
- Waste volume reduction from Evaporator campaign 97-1 was 350 kgal.
- Campaign 97-2 scheduled for September 97, will process dilute wastes from AY-101 and AN-106.
- OWVP proceeding slightly behind schedule due to late feedback from Disposal Program regarding Phase I assumptions. Note: Process Engineering and Disposal Program attempting to integrate to utilize a common software/database.
- Baseline projection completed. Very tight space projected for 2002, may delay SST solids retrieval.
- OWVP Report will be delivered on time to meet milestone.

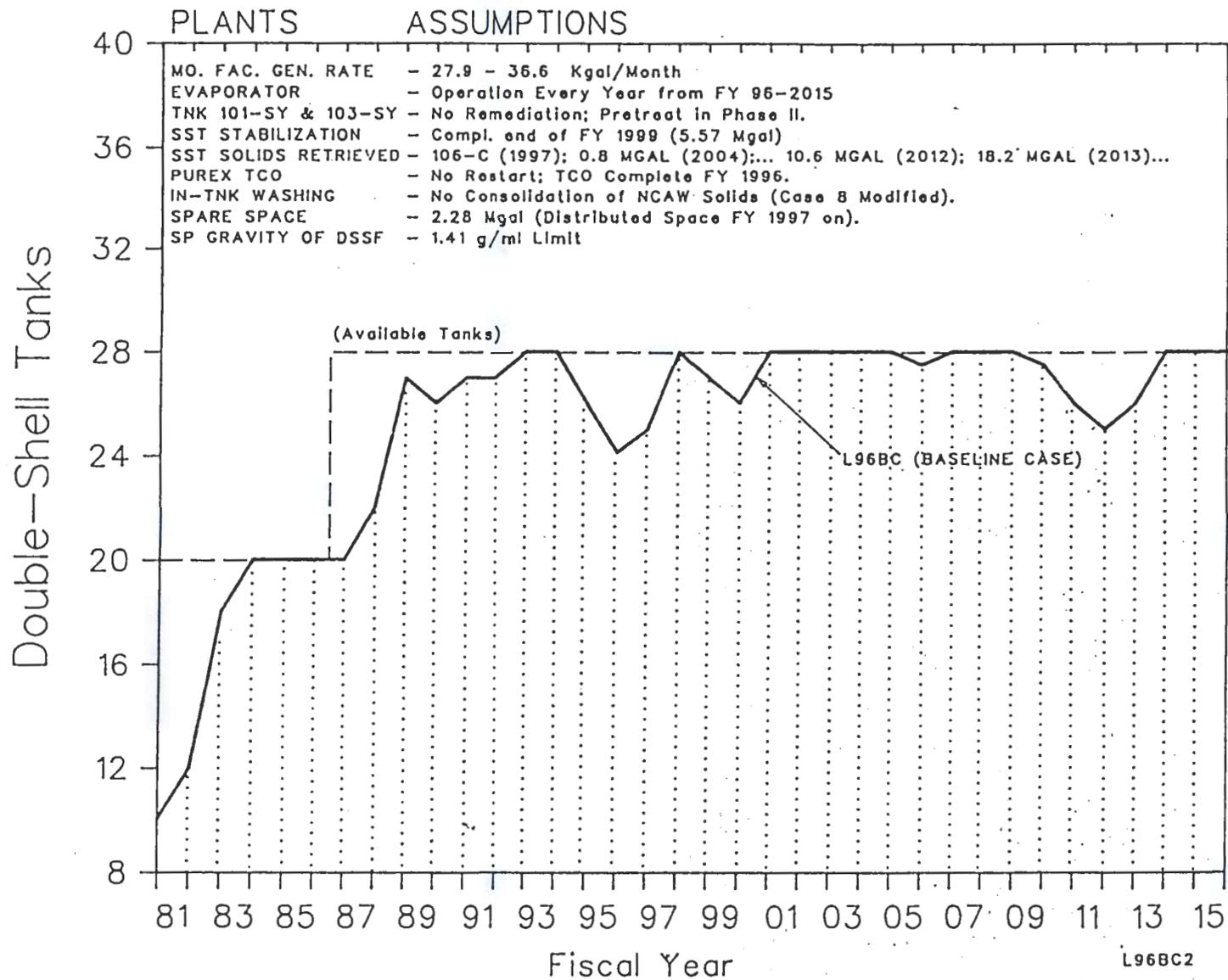
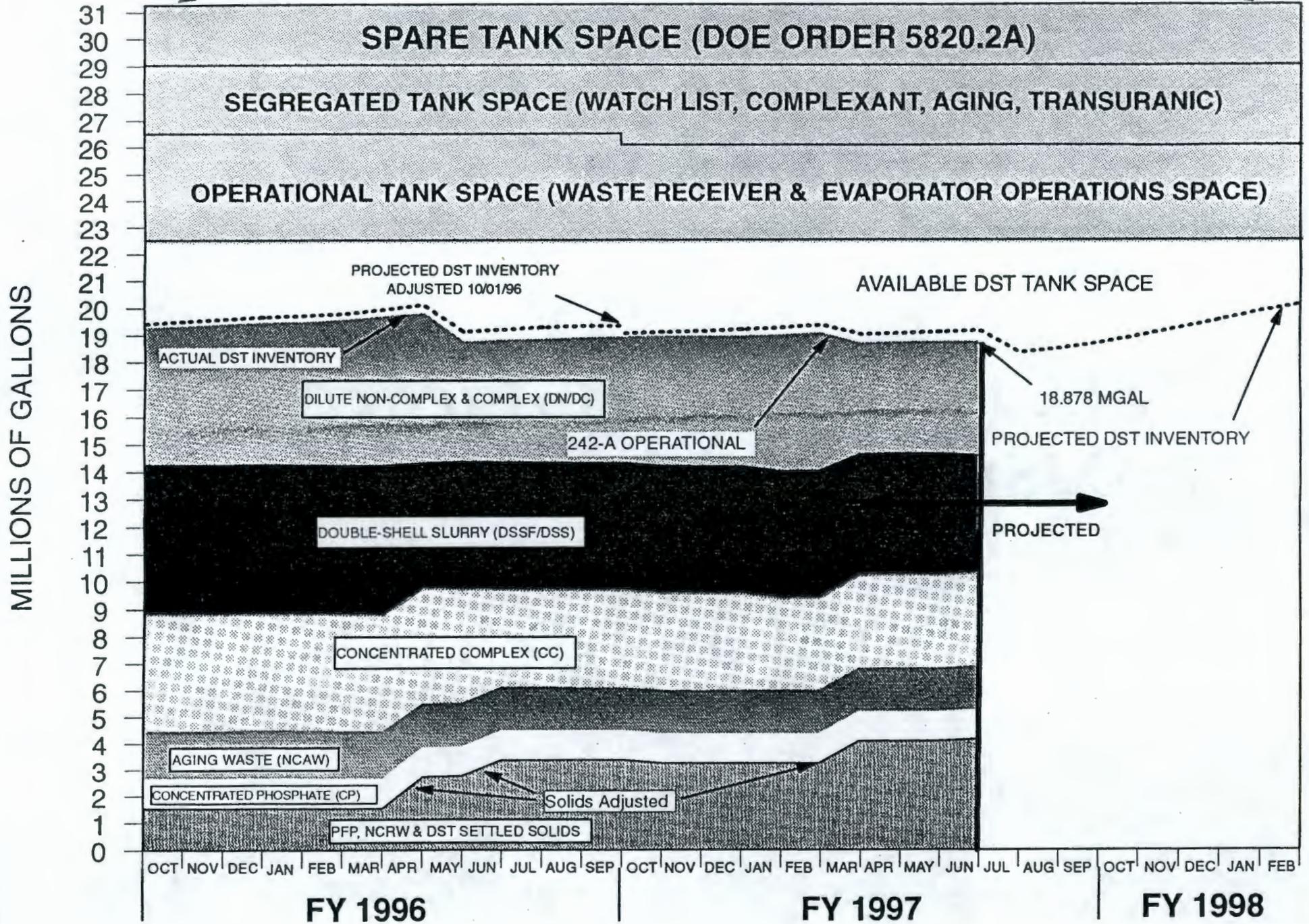


Figure 3. Double-Shell Tank Requirements for the Baseline Case

TOTAL AVAILABLE DOUBLE-SHELL TANK SPACE (31.28 MGAL OR 28 TANKS)



MILESTONE M-90

INTERIM STORAGE OF IMMOBILIZED HIGH LEVEL TANK WASTE AND STORAGE/DISPOSAL OF IMMOBILIZED LOW ACTIVITY TANK WASTE

July 10, 1997

D. D. Button

Milestone Descriptions

- 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 Immobilized High-Level Tank Waste (IHLW) and Immobilized Low-Activity Tank Waste (ILAW), 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

Milestone Descriptions (cont.)

- 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
- M-90-08 Initiate ILAW Disposal Facility Construction
Due Date: 6/30/03

Milestone Descriptions (cont.)

- 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
- M-20-00 Submit Part B Permit Applications or Closure/Post Closure Plans
for all RCRA TSD Units
Due Date: 12/31/03

Milestone Descriptions (cont.)

- 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 Manager

History of the Milestones

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 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 undergoing internal review.
- M-90-02T On schedule, ILAW Storage Facility conceptual design kickoff meeting held February 5, 1997. Conceptual Design started April 1997.
- M-90-05T See Issues
- M-90-11 On schedule, IHLW Canister Storage Building conceptual design kickoff meeting held January 1997. Conceptual Design started April 1997.

Milestone Status/Progress (cont.)

- M-90-12 On schedule, data needs for revised Part A Dangerous Waste Permit Application being worked with private contractors.
- M-20-56 On schedule, draft IHLW permit checklist prepared. Permit Plan completed May 1997.
- M-20-57 On schedule, draft ILAW permit checklist prepared. Permit Plan drafted for review June 1997.

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 FY 97 funding shortfall.

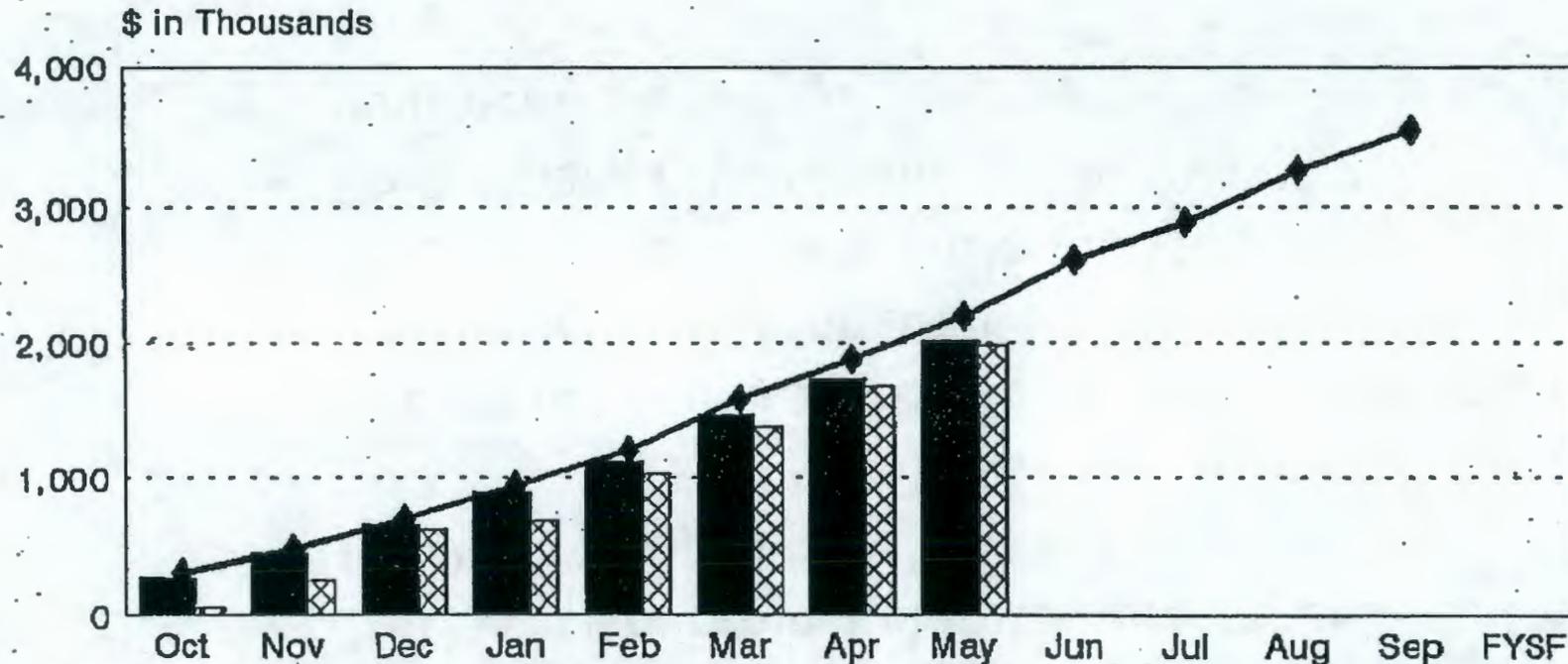
Recommended actions: Replace milestone with new target milestone after replanning to new funding level. Revise milestone to read: Submit Preliminary PA to Ecology for review and comment.

Draft TPA Change Request submitted to RL and Ecology for review; awaiting comments.

ILAW Storage & Disposal Project

Cumulative Costs (Expense Funds)

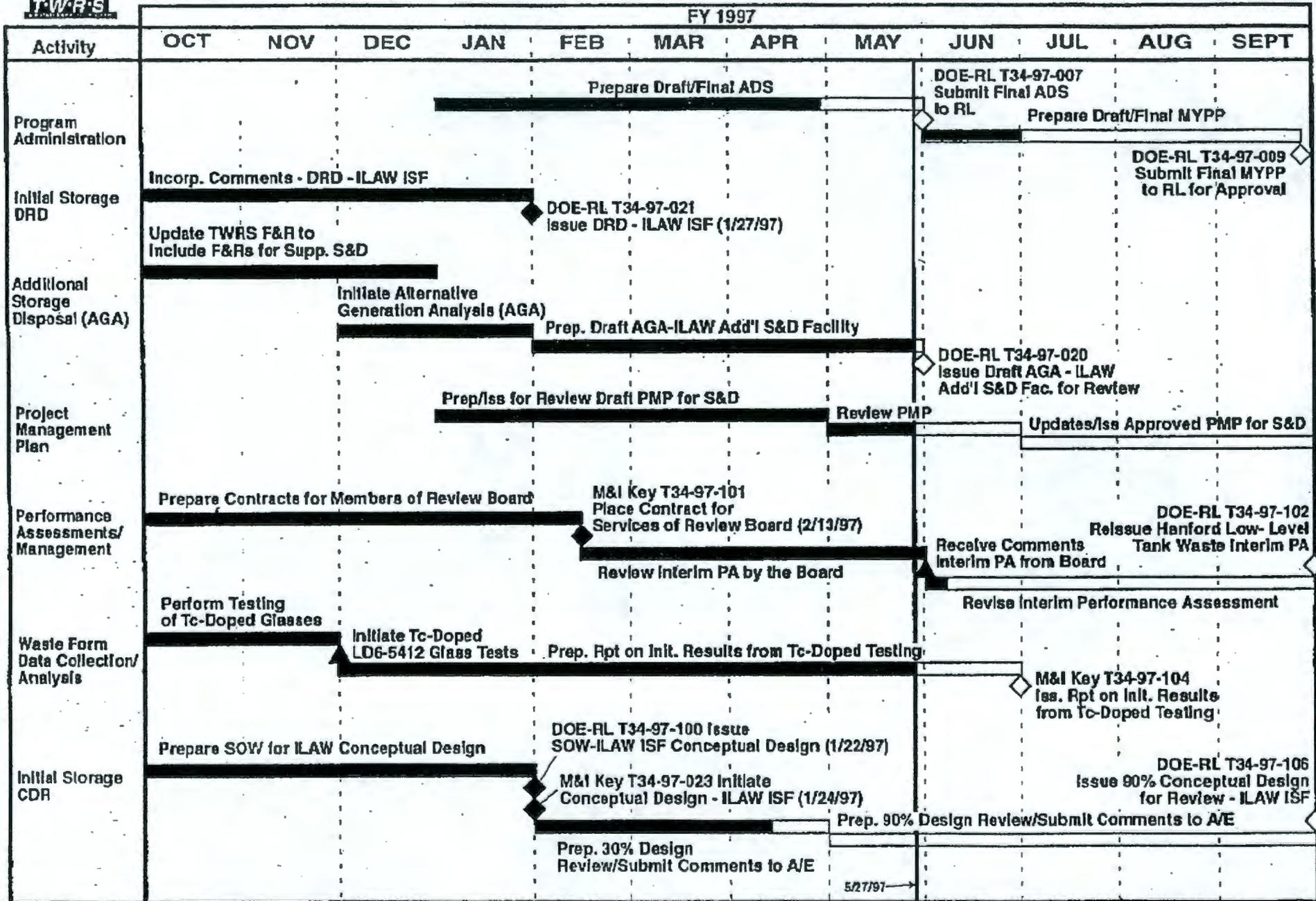
FY 1997



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	FYSF
Cum BCWS ◆	298	472	694	941	1,199	1,582	1,877	2,198	2,609	2,891	3,264	3,545	
Cum BCWP ■	273	442	657	688	1,118	1,469	1,736	2,016					
Cum ACWP ☒	59	252	622	679	1,028	1,374	1,678	1,988					
Cum SV	-25	-30	-37	-53	-81	-113	-141	-162					
Cum CV	214	190	35	209	90	95	58	28					

Data up to May 29, 1997

Includes Argonne (DOE-RL) 210K & Savannah River 10K.



□ Early Bar ■ Progress Bar ◻ Critical Activity

5/27/97 →

07/07/97 MON 13:20 FAX 509 373 3833

Waste Retrieval/Storage & Disposal

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