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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

December 5, 1996

Approval: Suzanne Dahl Date: 1-16-97
Suzanne Dahl, TWRS Program Manager
Washington State Department Of Ecology

Approval: Carolyn C Haass Date: 1-16-97
Carolyn Haass, TWRS TPA Program Manager
U.S. Department of Energy, Richland Operations Office

Approval: Margaret K Martin Date: 1-17-97
Margaret Martin, Program Integration
Fluor Daniel Hanford

Author: Lynne Roeder-Smith Date: 1-20-97
Lynne Roeder-Smith, Coordinator
Jason Associates Corporation

FEB 1997
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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-40 Action Item Viewgraphs: C-103 Floating Organic Layer and Vapor Mixing System Status
Handout 3: Graphic: Double Shell Tank Space through October 1996 (M-46)

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AGENDA
TWRS TPA PROJECT MANAGER'S MEETING

Thursday, December 5, 1996
2704HV/G-206/200E

BEGIN	END	SUBJECT	PRESENTER
12:30	12:45	Outline meeting format and objectives. Discuss any administrative concerns regarding meeting protocol.	B. Erlandson L. Roeder-Smith
12:45	1:15	M-40, Safety Issue Resolution Milestone update and action item status	D. Irby
1:15	1:30	M-41, Interim Stabilization - Highlight schedule, successes, difficulties - Status of T-104 - pump recirculation cooling plugged.	B. Harp
1:30	1:45	M-43-07, Project W-058, Replacement Cross-Site Transfer Line update and action item discussion - Current Schedule Status - Highlight Successes and Difficulties	B. Harp
1:45	2:00	M-43-01, Project W-030, Tank Farm Ventilation Upgrade milestone update - Congressional Reprogramming - A-Farm Integration - Current Schedule for Completion	L. Banks
2:00	2:30	M-43-09, Project W-314, Tank Farm Upgrades milestone status and action item presentation - Budget Validation - Critical Decision 2 - CDR - M-43 Scope Interpretation Status	J. Navarro
2:30	3:00	M-44, Characterization milestone update and action item summary	J. Poppiti
3:00	3:30	M-45, SST Waste Retrieval and Closure and action item presentation - A-Farm Integration	W. Wrzesinski
3:30	4:00	M-46, DST Space Evaluation and action item response	M. Ramsay
4:00	4:15	Action item recap and establish date for next meeting (January 16, 1997)	L. Roeder-Smith

*Treatment and Storage Milestones (M-50,51,60,61 and 90) will be on the agenda starting in January 1997.

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Attendance:

U.S. Department of Energy, Richland Operations Office
Clarence Banks, DOE
Dan Button, DOE
Carolyn Haass, DOE
Ben Harp, DOE
Dennis Irby, DOE
Phil Lamont, DOE
Jim Poppiti, DOE
Jim Thompson, DOE
Wendell Wrzesinski, DOE

Washington State Department of Ecology
Laura Cusack, Ecology
Dave Dougherty, Ecology
John Grantham, Ecology
Alisa Huckaby, Ecology
Scott McKinney, Ecology
Alex Stone, Ecology

Fluor Daniel Hanford, Inc.
Russ Brown, FDH
Margaret Martin, FDH
MaryAnn McLaughlin, FDH
Marc Stevenson, FDH

Lockheed Martin Hanford Corporation
Brad Erlandson, LMHC
Tom Kelley, LMHC
John Kristofski, LMHC
Jeff Voogd, LMHC
Vikki Wagner, LMHC

Other Support Contractors
Kevin Kjarmo, MACTEC
Sam Murff, GSSC
Lynne Roeder-Smith, Jason

INTRODUCTION: BRAD ERLANDSON

Any handouts provided during the meeting that are not contained in the meeting package (i.e., individual slides, action item presentations) will be copied and submitted for the record.

DOE, Ecology, and Contractor representatives for Characterization milestones were briefly introduced.

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

Action: D. Irby to provide drafts of DOE's Work Plan and budget scope for the next five years to Ecology, in preparation for upcoming budget meetings. **(CLOSED - sent to A. Stone 12/6/96)**

After the action item presentation on the C-103 floating organic layer, A. Stone commented that Ecology had additional concerns with C-103: 1) a DOE decision to not operate the vapor treatment system without Ecology agreement would impact the milestone (M-40-07 would not be met), and 2) the NOC for the vapor treatment system permit currently in review at Ecology contains some potential problems, which will be communicated to DOE upon completion of Ecology review. D. Irby submitted his action item presentation viewgraphs for the record.

Action: A Stone will review Roger Stanley letter regarding C-103 Floating Organic Layer to confirm all Ecology concerns have been addressed. If any additional concerns exist, Stone will communicate those to DOE.

Action: D. Irby will provide a copy of the Flammable Gas Unreviewed Safety Question (USQ) dated July 30, 1996 (TF-96-0433) and the draft Justification for Continued Operation (JCO) for Flammable Gas to Ecology.

RL confirmed to Ecology that the January 1997 Watchlist deliverable (M-40-10) will reflect 25 tanks.

M-41-00, INTERIM STABILIZATION - BEN HARP

All tanks are currently in "shut down" mode pending completion of JCO actions.

Action: B. Harp/J. Clark to meet with J. Donnelly relative to Special Topic #1 and criteria for pump failure attributed to high SpG.

Action: B. Harp will provide a copy of the RL Letter 96-WSD-283, J.D. Wagoner, RL, to H.J. Hatch, Fluor Daniel Hanford Inc., dated November 1, 1996, approving the JCO for flammable gas. **(CLOSED - delivered to S. McKinney during meeting)**

Ecology indicated their concern that the JCO authorization delays could impact milestones, outyear schedule and budget. DOE indicated that currently, they expect to meet interim Milestone M-41-21 and to begin pumping the next tank by February 27, 1997.

M-43-00, PROJECT W-058, CROSS SITE TRANSFER LINE - BEN HARP

The budget contains reserve due to underbids on construction and 20% contingency funds. More personnel have been brought on to recover the welding schedule. The weld failure rate has been significantly reduced.

Action: Provide a copy of the AGA to Ecology **(CLOSED - delivered to S. McKinney during meeting).**

M-43-00, PROJECT W-030, TANK FARM VENTILATION UPGRADES - LINDA BANKS

Action: L. Banks will confirm the design reconciliation due to flammable gas.

Ecology expressed concern that the approved delay of the W-030 milestone will impact Project W-151 (mixer pump).

Action: S. McKinney will investigate potential impacts to W-151.

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

ICE review should be completed by the end of the month.

Draft letter from Ecology describing their interpretation of project scope was received and agreed to by Tank Operations; is currently in DOE-EAP for review. **(CLOSES Action Item dated 9/26/96)**

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

M. Ramsay provided a copy of Letter 9602829 R1, H.L. Boston, LMHC, to S. Marchetti, FDHI, "Approach for Managing Tank Waste Remediation System Tank Waste Feed Staging, Retrieval Sequence, and Space Projection Activities," dated November 14, 1996, to Ecology. Also provided Ecology a copy of "Operation Utilization" procedures (FDH #9655701).

Action: M. Ramsay will confirm completion of previous action items with Ecology and notify L. Roeder-Smith of status (open or closed).

M-44-00, CHARACTERIZATION - JIM POPPITI

J. Poppiti has been identified as the DOE Project Manager for Milestone M-44-00.

Qualification of rotary sampling does not necessarily mean qualification for push sampling is a given; different safety documentation is needed.

ALL sampling is currently paused, EXCEPT for vapor sampling in Facility Group 3.

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

M-45-03A: Sluicing retrieval of C-106 has been delayed beyond the Secretarial Initiative completion date of October 31, 1996 based on construction delays. Concern presently exists with the adequacy of current scope to control the sluicing operation (may need to increase monitoring and capability to control transfers between C-106 and AY-102). Construction delays and scope uncertainty have lead to re-baselining of the project. Anticipated completion of project re-baseline is 1/13/97. Current budget is $6 million, which may be insufficient to cover potential scope increase.

M-45-04A: Proposed path forward to complete design at 90% for this fiscal year and defer completion until fiscal year '98. Ecology is in agreement with this path forward, however, confirmation of ability for ISSTRS to resume activities in FY '98 and still meet completion of operation readiness (M-45-04-T01) is required.

M-45-08-T01: Stakeholder participation to begin in January. Funding for public involvement to be picked up by Hanford Tank Initiative.

M-45-09B - currently below the funding line.

Action: W. Wrzesinski will provide an update on the Project W-151 Air Permit.

MILESTONE M-40-00

SAFETY ISSUE RESOLUTION

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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, and High-Heat

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

M-40-10 - Complete Vapor Space Monitoring for all FG tanks (January 1997)

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

9713527.1624

Roles and Responsibilities

Project Lead - Dennis Irby (acting) / Robert Cash

Flammable Gas - John Gray / Jerry Johnson

Ferrocyanide - Wally Hendrickson / Robert Cash

Organic - Stan Branch (acting) / Joe Meacham

High Heat - Russ Harwood/Gary Dukelow

9124947 1635

Issues

M-40-10 : Standard Hydrogen Monitoring Systems (SHMS) are installed on current 25 flammable gas Watch List tanks

M-40-00 is currently on schedule, however:

- Expanded USQs
- Addition of tanks to Watch List
- Budget Levels through FY 2001

may impact ability to meet schedule

9713527.1626

Action Items

C-103 floating organic layer and status of vapor treatment system

9713527.627

MILESTONE M-41-00

COMPLETE SINGLE-SHELL TANK INTERIM STABILIZATION

B. Harp

9713527.1628

Milestone Description

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

Near Term Milestone

M-41-21, "Start Interim Stabilization of Two SST's by 3/31/97" planned tanks BY-109 and A-101

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Roles and Responsibilities

WDOE Program Manager - Jack Donnelly

RL West Area Program Manager - John Clark

RL Director of Waste Storage Division - Jim McClusky

LMHC Program Manager - Dave Saueressig

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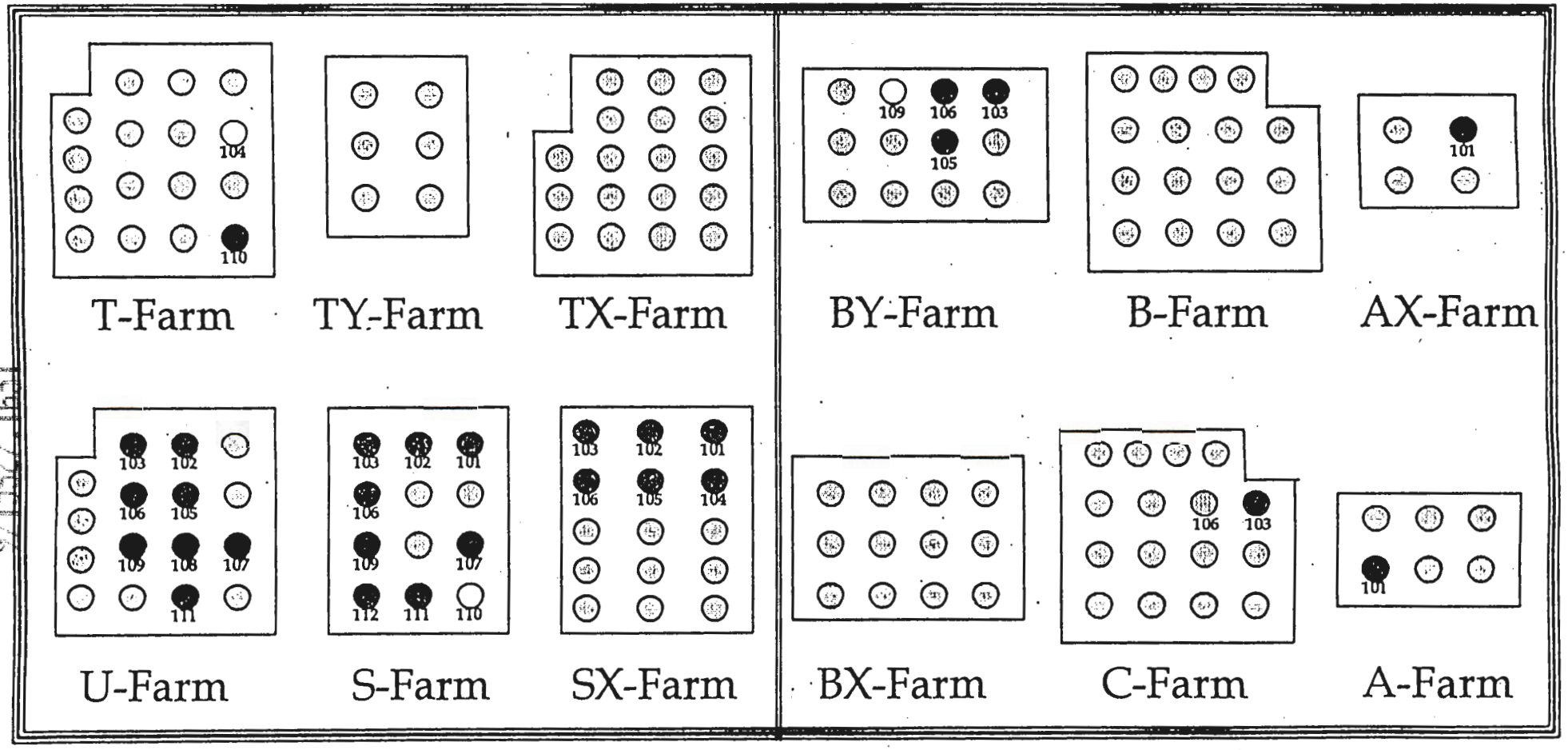
SINGLE SHELL TANK FARMS

Interim Stabilization Status

Interim Stabilized	116
Pumping	3
Retrieval	1
Not Pumped	29
TOTAL SSTs	149



Stabilized · Not Pumped · Pumping · Retrieval

Status

Safety Assessment was completed to allow safe restart of pumping activities in A-101

Intrusion prevention activities were completed on nine tanks in C and BX Farms

Flammable Gas monitors installed on A-101, being installed on six others (T-110, S-109, AX-101, BY-103, BY-105 and BY-106)

Support Vadose Zone in SX farm

TX/TY Farms interim stabilized (CC&S)

9713527.1682

Special Topic

Tanks S-108 and S-110 interim stabilized

- Request WDOE to look at justification for major equipment failure S-110
- 30,000 gallons drainable liquid, second pump failure at .15 gpm
- Provide video to WDOE shows no free surface liquid

Tank T-104 plugging cleared

- Pump mod (flushing Tee) allowed pump recirc loop to be cleared

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ISSUES

Saltwell pumping on A-101

- Physical configuration of tank differs somewhat from safety assessment (i.e slot cutting)

Flammable Gas

- All remaining tanks to be pumped are impacted by flammable gas issue
- Safety assessment for A-101 is the template that will be followed when pumping remaining tanks

Budget

- M-41 interim milestones are currently not impacted by TWRS FY'97 funding budget, CC&S activities in outyears

MILESTONE M-43-01

TANK FARM VENTILATION UPGRADES

PROJECT W-030

C. Pacheco

9713527.1635

MILESTONE DESCRIPTION

Project W-030 will provide a new primary ventilation and recirculation cooling system for 241-AY and 241-AZ Tank Farms. New ventilation systems are to be installed, tested and turned over to operations by October 31, 1997.

- M-43-01C "Begin Operation"
- M-43-01 "Project W-030 Tank Farm Ventilation Upgrades"

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Roles and Responsibilities

Waste Storage Division Director - James McClusky

Tank Farm Operation Project Director - Mike Royack

200 East Transition Project Manager - Mark Ramsay

Project W-030 Construction Project Manager - Carolina Pacheco

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Tri-Party Agreement Milestones

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	TPA CR Approved 10/96	Replanning is ongoing for successful completion for 10/97
M-43-01	Complete Project W-030 Tank Farm Vent. Upgrades	October 1997	TPA CR Approved 10/96	Same as above

STATUS

Submitted TPA change request delaying project completion; approved by WDOE and EPA

Initiated effort to reconcile design, tie-in methods and safety documentation with standing order and flammable gas JCO/USQ

Will re-initiate construction activities in February 1997

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ISSUES

Project Integration: A-Complex project integration with other projects needs to be revisited due to revised schedules.

Reconciliation of flammable gas JCO/USQ issues must be finalized.

Project rebaselining effort is underway, however needs to be completed prior to re-initiating construction forces; rebaselining change request is expected by the end of December.

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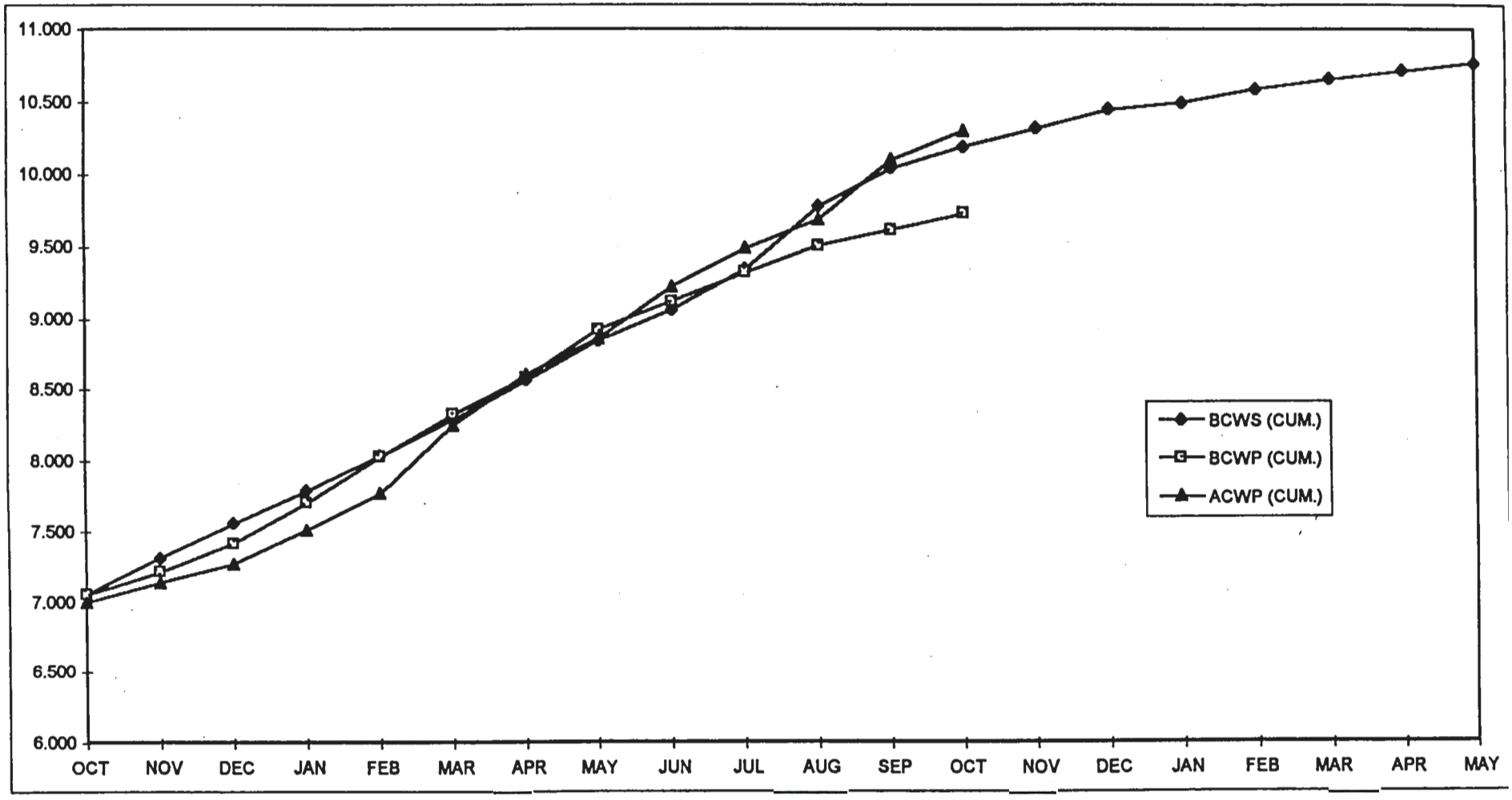
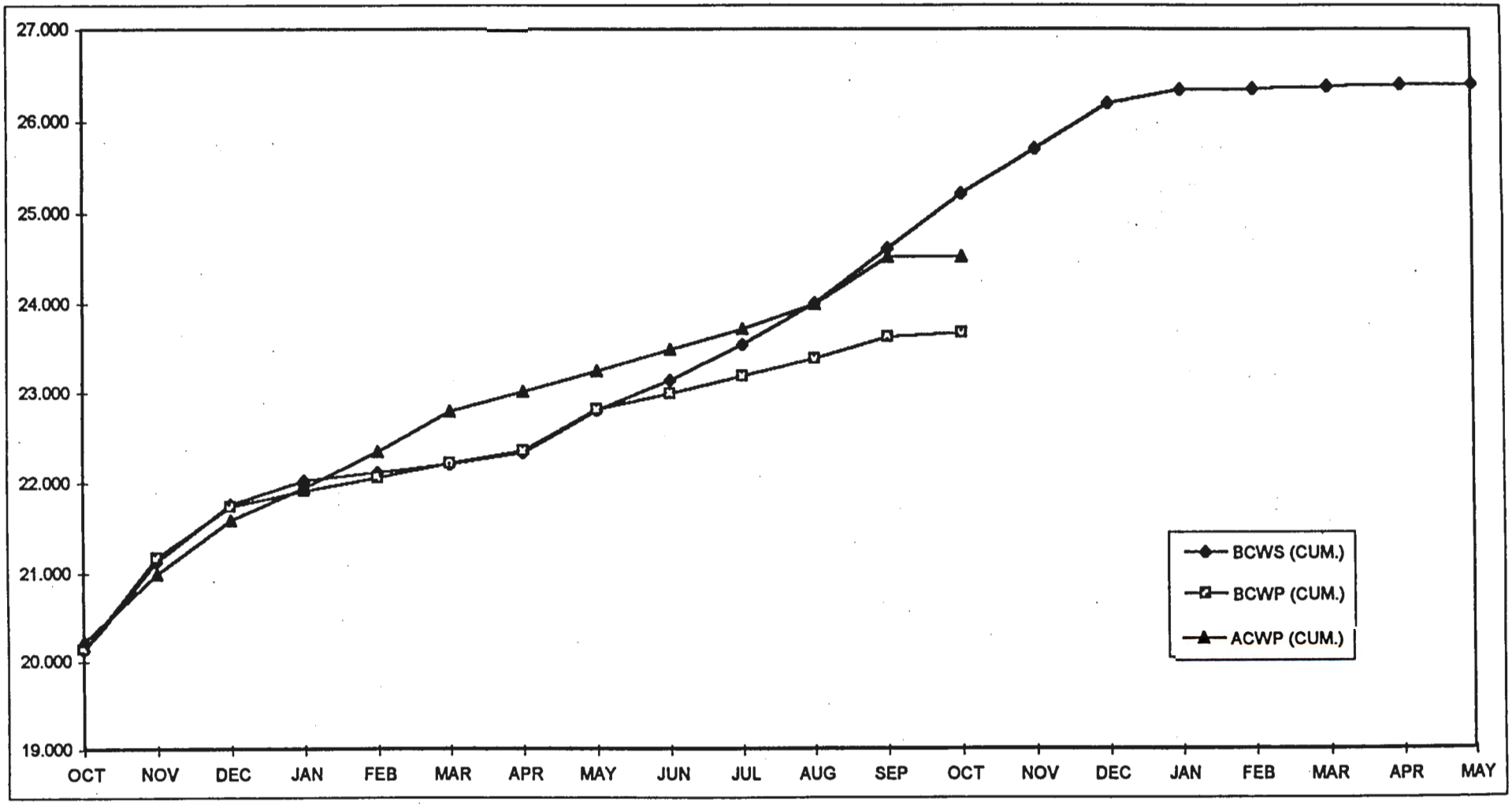
PROJECT W-030
FDS Expense $ Millions



MONTH	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
BCWS (CUM.)	7.062	7.310	7.553	7.787	8.033	8.288	8.564	8.843	9.060	9.340	9.777	10.036	10.188	10.314	10.443	10.493	10.585	10.654	10.712	10.767
BCWP (CUM.)	7.054	7.214	7.411	7.698	8.027	8.325	8.581	8.924	9.118	9.318	9.505	9.614	9.727							
ACWP (CUM.)	6.999	7.136	7.266	7.506	7.764	8.248	8.603	8.858	9.219	9.486	9.687	10.097	10.295							
SV	-0.008	-0.096	-0.142	-0.089	-0.006	0.037	0.017	0.081	0.058	-0.022	-0.272	-0.622	-0.461							
CV	0.055	0.078	0.145	0.192	0.263	0.077	-0.022	0.066	-0.101	-0.168	-0.182	-0.483	-0.568							

W-030EXP.XLS

PROJECT W-030
FDS Capital $ Millions



MONTH	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
BCWS (CUM.)	20.130	21.128	21.761	22.020	22.111	22.207	22.339	22.808	23.139	23.540	24.009	24.600	25.196	25.696	26.194	26.338	26.357	26.376	26.395	26.412
BCWP (CUM.)	20.133	21.167	21.741	21.914	22.062	22.216	22.353	22.817	22.988	23.189	23.387	23.624	23.676							
ACWP (CUM.)	20.227	20.985	21.587	21.940	22.344	22.791	23.011	23.249	23.487	23.717	23.993	24.513	24.513							
SV	0.003	0.039	-0.020	-0.106	-0.049	0.009	0.014	0.009	-0.151	-0.351	-0.622	-0.976	-1.520							
CV	-0.094	0.182	0.154	-0.026	-0.282	-0.575	-0.658	-0.432	-0.499	-0.528	-0.606	-0.889	-0.837							

W-030CAP.XLS

9716927.1692

MILESTONE M-43-07

CROSS-SITE TRANSFER SYSTEM

B. Harp

97 1054 1645

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

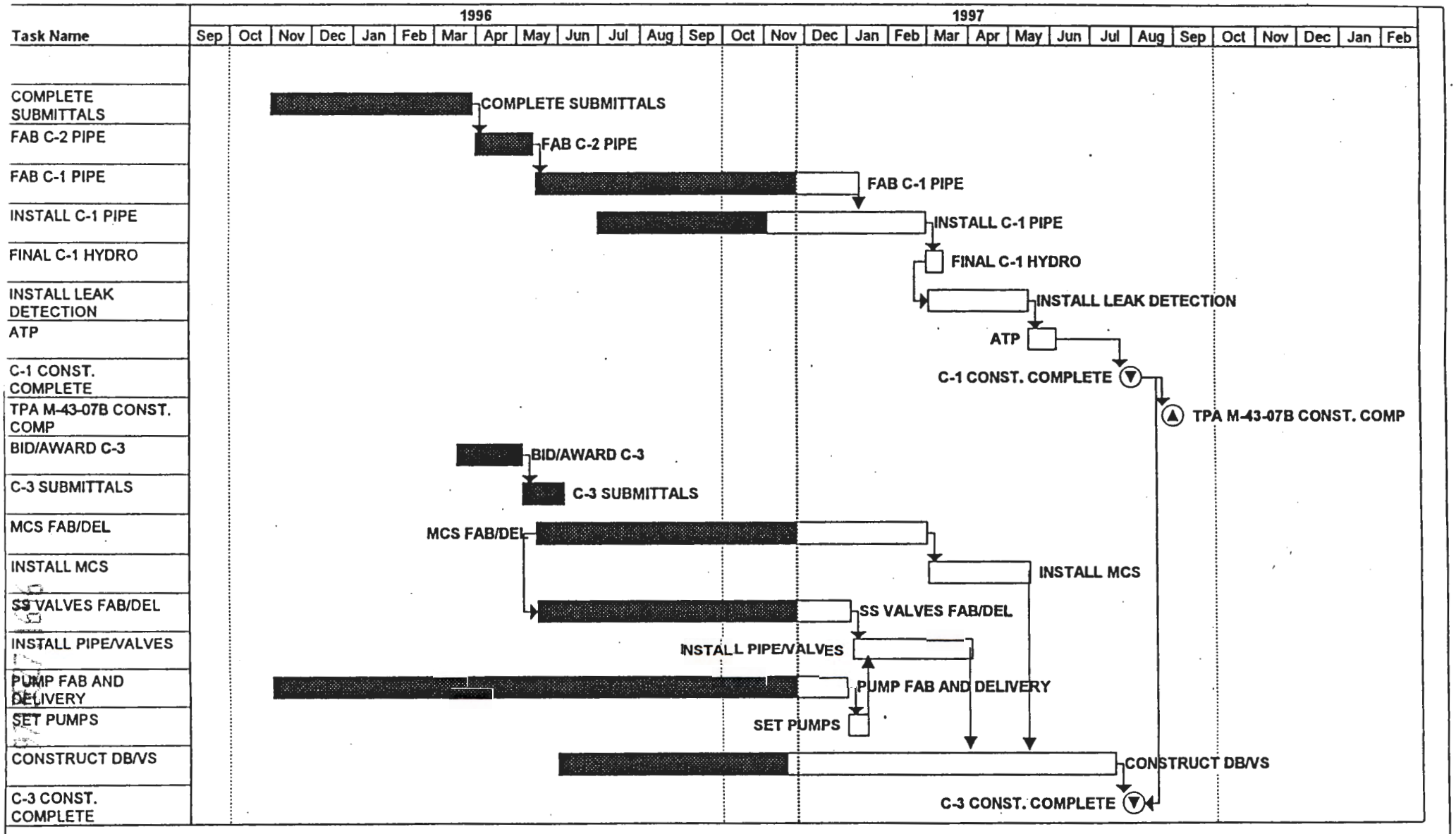
Jim McClusky - Director of Waste Storage Division

Mike Royack - Director of Tank Operations

John Clark - Program Manager of West Tank Farms

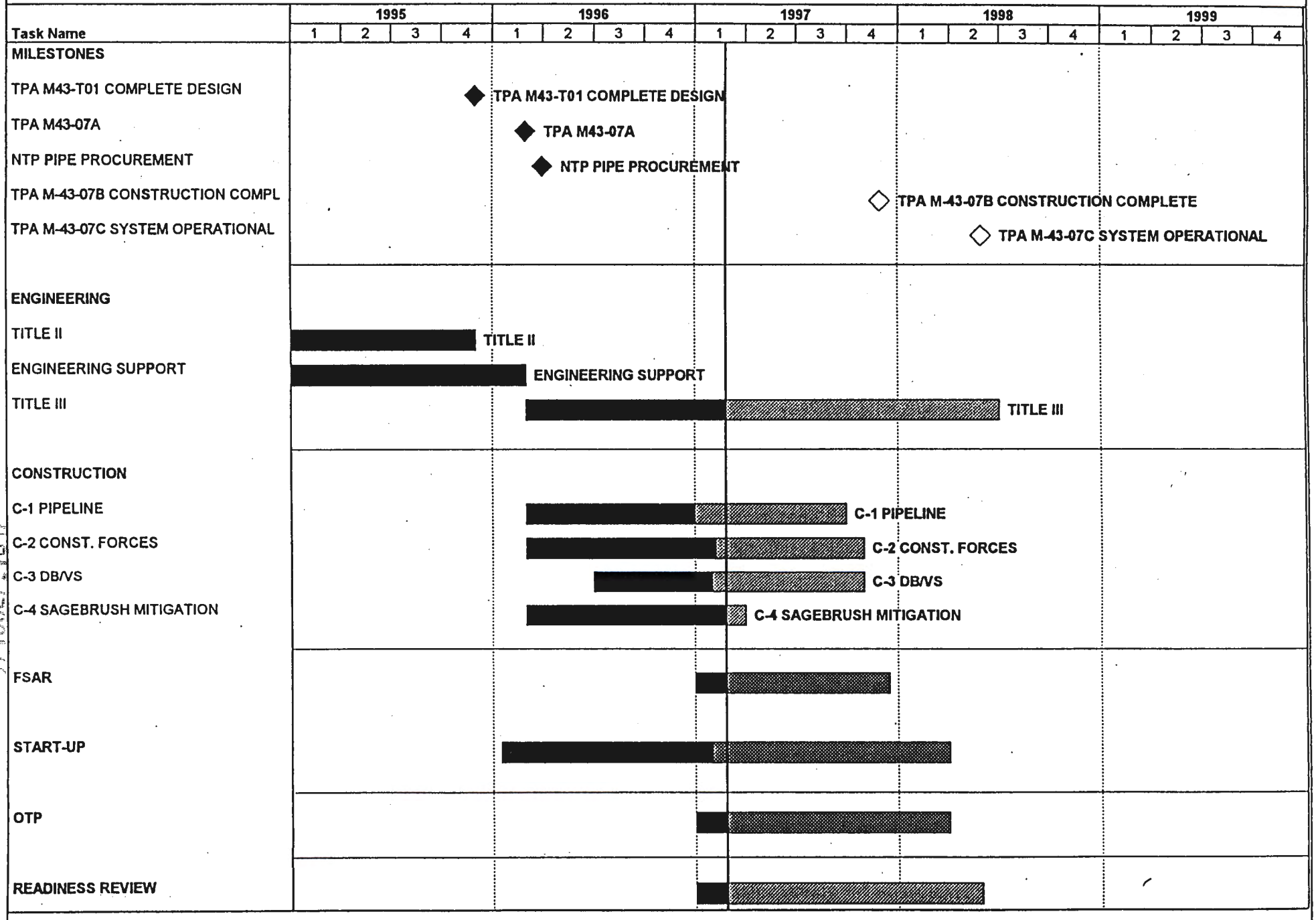
Ben Harp - Project Manager for Project W-058

Norm Hepner - WDOE Project Manager



PROJECT W-058 SUMMARY CRITICAL PATH SCHEDULE

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



PROGRAM MONTHLY REVIEW

11/22/96 MONTH.MPP

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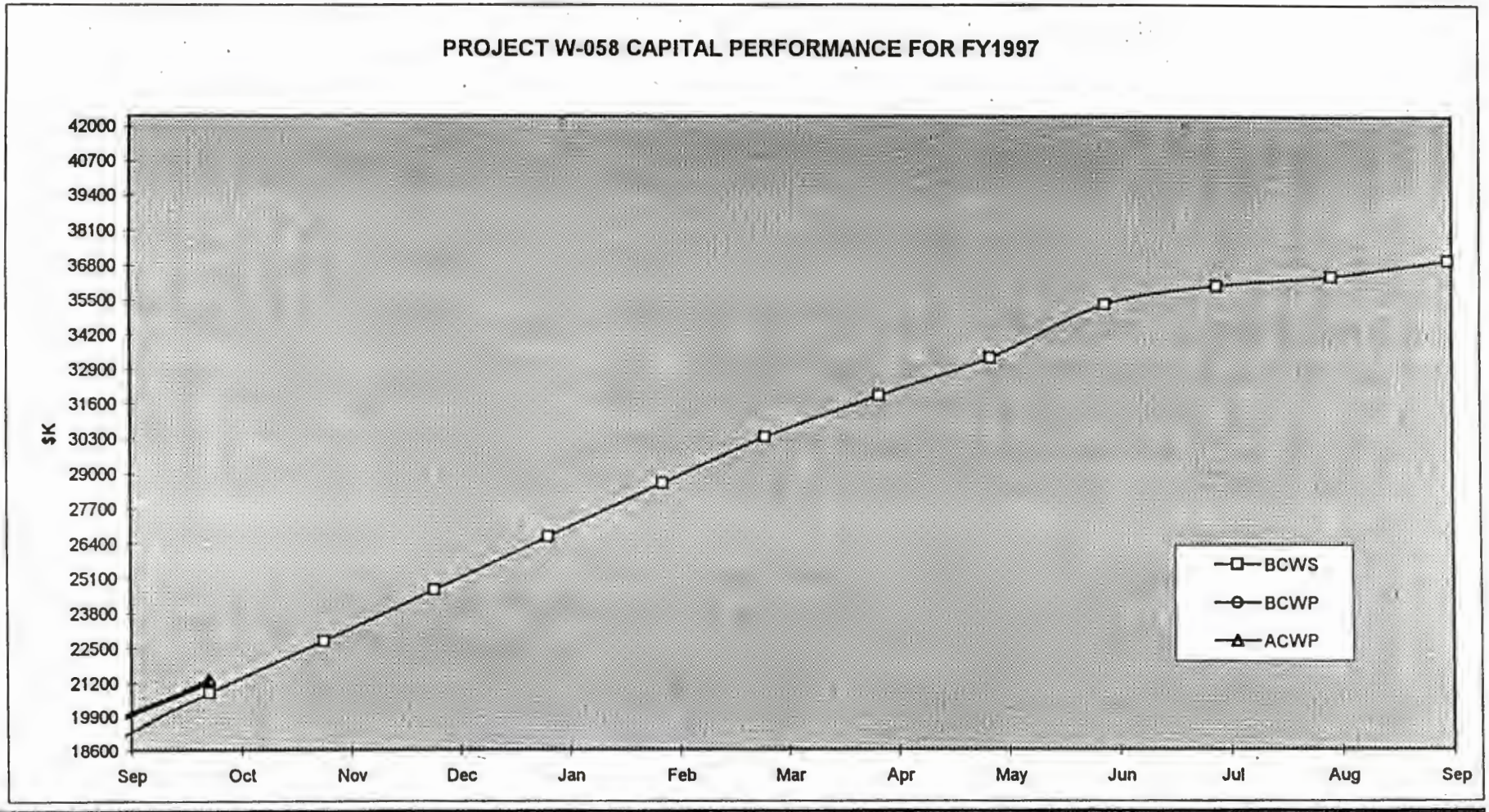

	Sep-96	Oct-96	Nov-96	Dec-96	Jan-97	Feb-97	Mar-97	Apr-97	May-97	Jun-97	Jul-97	Aug-97	Sep-97
BCWS	18614	20812	22753	24656.5	26634.3	28617.8	30328	31884.7	33328.6	35341.5	36032.7	36377.5	36969
BCWP	19355	21195											
ACWP	19474	21320											
Svar	741	383											
Cvar	-119	-125											

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Status

Pipeline construction

- 2 pipes of 2 1/2 miles completed
- concrete for diversion box/vent station

Hydro test of primary pipe between diversion box and vent station complete

Pump delivery scheduled for 12/31/96

Start-up activities have been accelerated

- issued contract to LATA to regain schedule
- startup plan/procedures

BIO preparation by SAIC to support 2/28/98 operations date

9713527.1649

Planned Activities

Installation of Clam Shells

Pour roof and support buildings of Diversion Box and Vent Stations

ISSUES

Primary welding behind schedule

- Contract date is May 31, 1997 - currently projecting to meet date
- TPA would require a contract date of July 1997
- Recovery actions are being achieved

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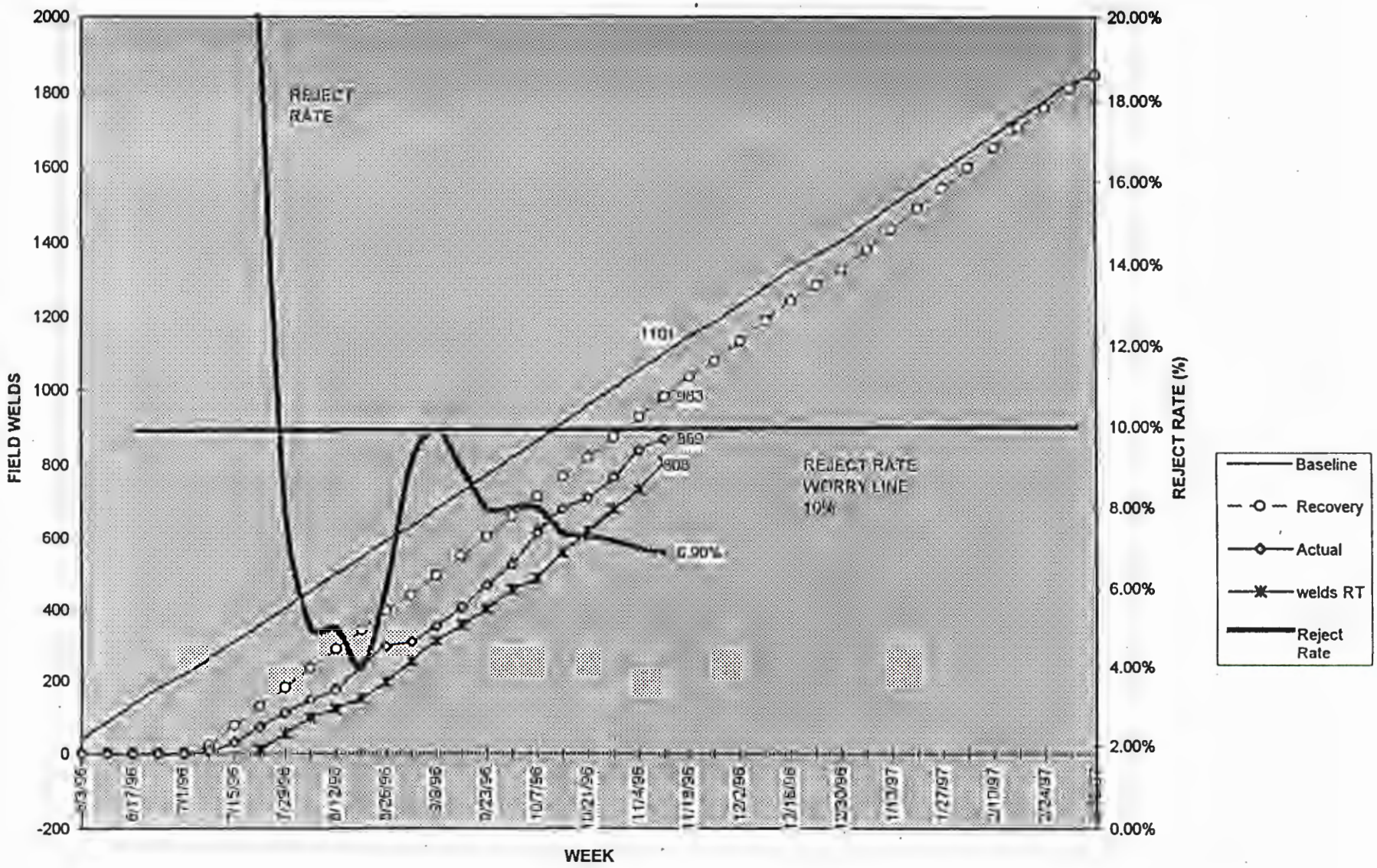
APOLLO FIELD WELDING PRODUCTIVITY



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ACTION ITEMS

Decision regarding integrity assessments and future plans for the 244-A DCRT

- 244-A Lift Station will be used
- Copy of AGA provided to state that outlines strategy

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MILESTONE M-43-00

Complete Tank Farm Upgrades

Project W-314

9713527.1654

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

9713527.1655

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

Completed Summary Project Plan

Performed planning for a prioritized execution approach

Continued to support the FM-20 ICE review

Completed a revision of the Conceptual Design Report (CDR)

9713527.1657

ISSUES

Previous funding issue resolved through implementation of prioritized scope execution approach in revision of the Conceptual Design Report, reflecting a limited budget through FY2000.

Continuing uncertainty regarding impacts to M-43-10 due to need of obtaining HQ Field Management (FM 20) closure of Independent Cost Estimate and Validation Report.

Must obtain Critical Decision 2 (CD 2) approval by January 31, 1997. There is currently a memorandum at HQ for delegation of CD 2 down to Mr. Wagoner. This delegation must be completed, and CD 2 approval obtained locally, or approval of CD 2 from the Secretary of Energy, prior to the M-43-10 deadline of January 31, 1997.

97M527.1658

ACTION ITEMS

Upgrades not in projects that are outside the scope of M-32

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MILESTONE M-44-00

DOUBLE AND SINGLE-SHELL TANK CHARACTERIZATION

9713527.1660

J. Poppiti

Milestone Description

M-44-09	Delivered 40 TCRs on 9/30/96.
M-44-02C	Final Tank Waste Analysis Plan (TWAP) for FY 97 on 10/31/96
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

9713527.1661

STATUS

- Completed Milestone M-44-09. Delivered 40 TCRs to Ecology on 9/30/96.
- Increased core sampling rate by 56% and sample recovery by 18% compared to FY 1995 rates.
- Increased 222S laboratory output by 150% compared to FY 1995 output.
- Completed 39 Retained Gas Samples in support of Flammable Gas Project.
- Completed Privatization Samples and Shipped Phase I samples to United Kingdom.

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PLANNED ACTIVITIES

- Work with Ecology to resolve TWAP issues for FY 97.
- Partnering work shop.
- Deploy Rotary Mode Core Sampling System on BX-110.

9714527.1063

FY 1996 FINAL COST/SCHEDULE ASSESSMENT

Note: Dollars in Millions	At Completion
Budgeted Cost Work Scheduled (BCWS)	87.7M
Budgeted Cost Work Performed (BCWP)	87.1M
Actual Cost Work Performed (ACWP)	85.6M
Variances:	
Costs (Note 1)	1.5M
Schedule (Note 2)	-0.6M

Note 1: BCWP - ACWP = Cost Variance
Note 2: BCWP - BCWS = Schedule Variance

FY 1997 FINAL COST/SCHEDULE ASSESSMENT

Note: Dollars in Millions	Cumulative to Date	At Completion
Budgeted Cost Work Scheduled (BCWS)	10.4M	56.8M
Budgeted Cost Work Performed (BCWP)	7.0M	56.8M
Actual Cost Work Performed (ACWP)	7.7M	56.8M
Variances:		
Costs (Note 1)	-0.7M	0.0M
Schedule (Note 2)	-3.4M	0.0M

Note 1: BCWP - ACWP = Cost Variance
Note 2: BCWP - BCWS = Schedule Variance

9713527.1665

ISSUES

- FY 1997 sampling rate does not support preparation of 40 TCRs based on core samples. Forty TCRs can be produced, however, using core samples for some and other available characterization data for the balance.

- Core sampling has been paused since October 8, 1996 due to uncertainties surrounding the Flammable Gas Unreviewed Safety Question (USQ) and the proposed Justification for Continued Operations (JCO).

- All other sampling was paused October 18, 1996.

9714427.1666

ISSUES (con't)

- Vapor sampling of Facility Group 3 tanks resumed November 14, 1996. Riser preparations of Facility Group 3 tanks resumed November 27, 1996.

- Safety Evaluation Report (SER) authorizes rotary mode core sampling of only BX-110, TY-102, AX-101, and AX-103.

- Standing Orders 94-34 (West) and 96-36 (East), issued to accommodate expansion of Flammable Gas USQ, imposed additional ignition controls on all tank work.

9713527.1667

- Push mode core sampling with trucks #2, #3, and #4 requires authorization basis changes. Path forward to be defined by December 31, 1996.

- Tank Waste Characterization Basis, Revision 2, increased the number of tanks requiring core sampling with Retained Gas Sampler from 4 tanks (revision 1) to 8 tanks.

  Only Truck #1 is qualified for Retained Gas Sampling.

  Truck #1 does not comply with Standing Orders 96-36 (East) and 96-34 (West).

  RL is examining a contractor proposed exemption from Standing Orders 96-36 (East) and 96-34 (West).

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ISSUES (con't)

- Rotary mode core sampling system #4 has been modified to comply with SAD 035 and will be qualified for rotary sampling in flammable gas atmospheres by December 10, 1996.

- Truck #3 will be modified to comply with SAD 035 and will be qualified for rotary sampling in flammable gas atmospheres by March 31, 1997.

- Truck #2 does not comply with either SAD 035 or Standing Orders 96-36 (East) and 96-34 (West). FY 1997 budget does not support required mods to allow truck #2 to comply with SAD 035. RL is examining a contractor proposed exemption from Standing Orders 96-36 (East) and 96-34 (West).

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ISSUES (con't)

If exemption is not approved, modifications will take 3 months once engineering is completed.

- FY 1997 budget necessitates reduction of sampling and laboratory resources.

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WHERE ARE WE GOING?

- Priority will be given to sampling and laboratory analysis of the tanks designated in the Characterization Technical Basis as constrained by authorization basis.

- Continue sampling to provide added confidence in safety program.

- Continue sampling to provide information for other programmatic issues (i.e., operations, retrieval, processing, and privatization as funded).

- All tanks will be sampled and analyzed unless justified on a technically defensible basis.

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BACK-UP INFORMATION

9713527.1672

- **Samples Taken: October and November 1996**

	October, 1996 Samples		November, 1996 Samples	
	Planned	Completed	Planned	Completed
Rotary	2	2	4	0
Push	1	0	1	0
Auger	0	0	0	0
Grab	2	2	1	0
Vapor	18	6	4	7

Note: Planned is from Schedule 4.9

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ACCOMPLISHMENTS

- **Tanks Sampled During Months of October and November 1996**

Vapor	GRAB	Auger	Push	Rotary
B-103 (6)	AY-102			BY-112
BY-108	TX-244			
TY-103 (6)				

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

TITLE	Early Start	Early Finish
S-106 Push Samples 2 Segments 10 High Priority	25-Nov-96	02-Jan-97
B-109 Vapor Sample (4)	23-Dec-96	02-Jan-97
BX-110 Rotary Samples 2 Segments 4 High Priority	22-Nov-96	07-Jan-97
T-203 Rotary Samples 1 Segments 10	16-Dec-96	09-Jan-97
BY-109 Vapor Sample (3)	08-Jan-97	09-Jan-97
AP-108 CAMPAIGN 97-2 Grab Sample - Le	09-Jan-97	13-Jan-97
U-102 Vapor Sample (4)	15-Jan-97	16-Jan-97
T-202 Rotary Samples 1 Segments 6	10-Jan-97	27-Jan-97
SX-103 Grab Sample Compatability Saueressig (SW)	24-Jan-97	28-Jan-97
BX-104 Temporal Vapor Sample (4) High Priority	31-Jan-97	03-Feb-97
TY-102 Rotary Samples 2 Segments 2 High Priority	08-Jan-97	10-Feb-97
C-107 Temporal Vapor Sample (3) High Priority	07-Feb-97	11-Feb-97
AX-101 Grab Sample Compatability Saueressig (SW)	10-Feb-97	12-Feb-97
T-201 Rotary Samples 1 Segments 9	28-Jan-97	12-Feb-97
BY-108 Temporal Vapor Sample (3) High Priority	14-Feb-97	19-Feb-97
S-102 Temporal Vapor Sample (3) High Priority	24-Feb-97	26-Feb-97
AY-101 Grab Sample- Blaak (Caustic Verification)	26-Feb-97	28-Feb-97
BY-101 Push Samples 2 Segments 10 High Priority	03-Feb-97	03-Mar-97
AN-103 Vapor Sample (4)	06-Mar-97	07-Mar-97
AP-106 Grab Sample - (98-1 Compatibility) Le	13-Mar-97	17-Mar-97
AX-101 Rotary Samples 2 Segments 15 High Priorit	11-Feb-97	17-Mar-97
SX-101 Rotary Samples 2 Seg 10 High Priority	12-Feb-97	18-Mar-97
AN-104 Vapor Sample (4)	17-Mar-97	18-Mar-97
AN-105 Vapor Sample (4)	26-Mar-97	27-Mar-97
AW-104 Grab Sample - (98-1 Compatibility) Le	28-Mar-97	01-Apr-97

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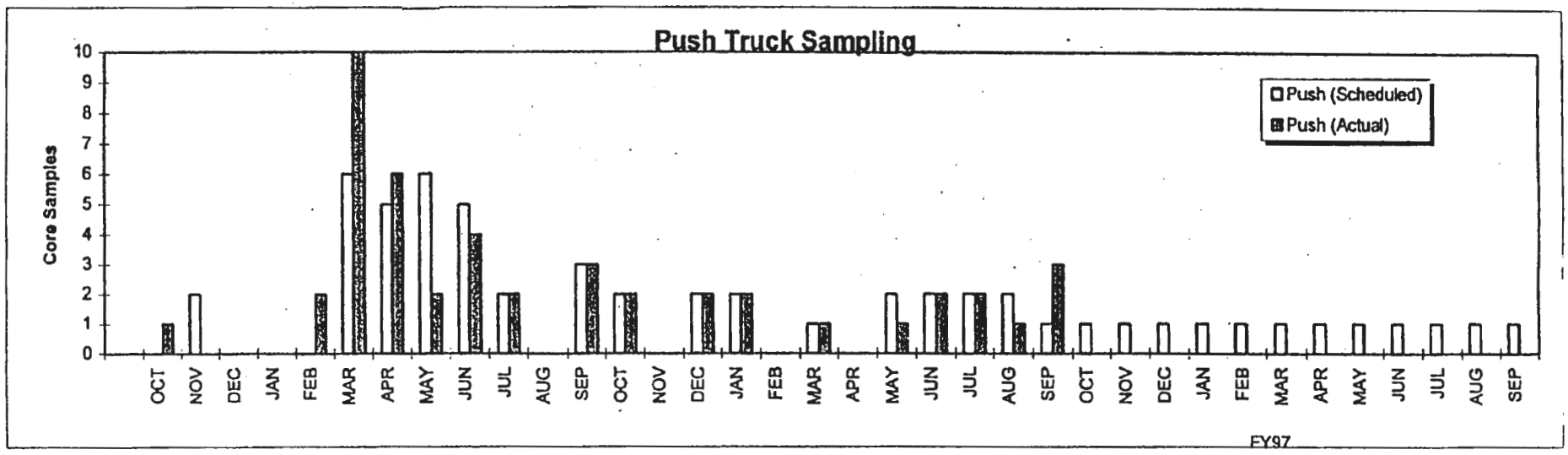
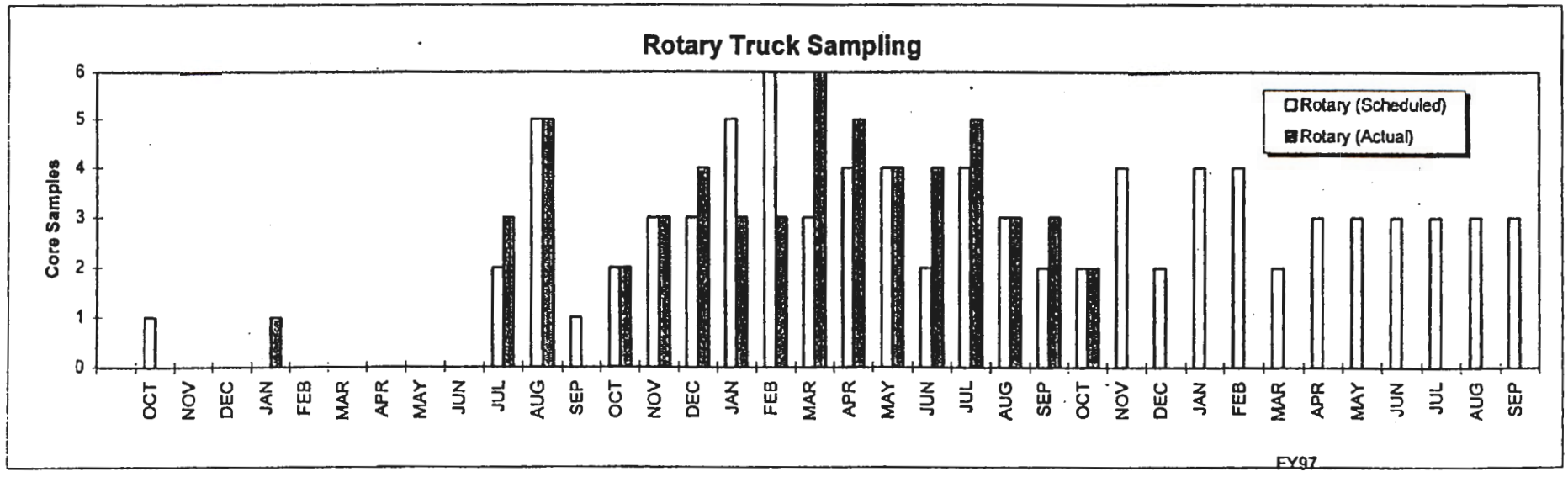
Characterization

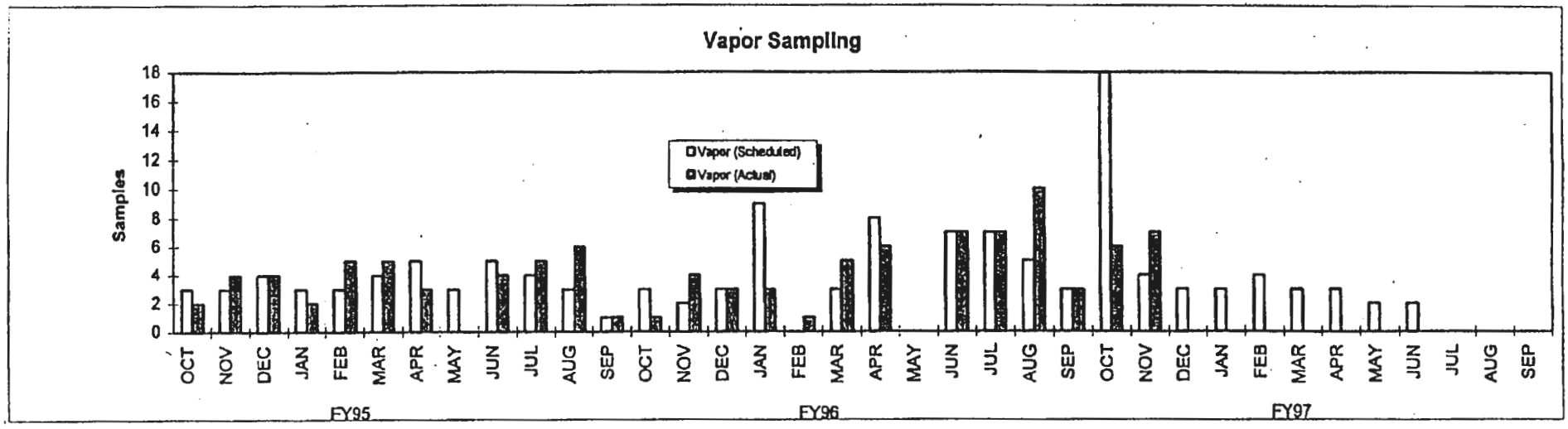
Push and Rotary Sampling

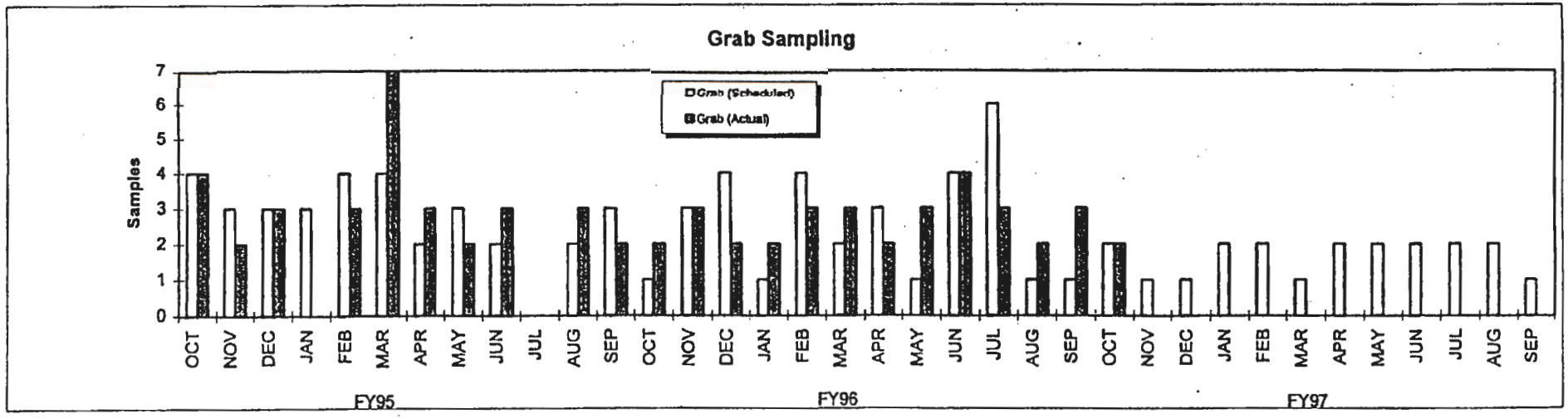




Characterization

Vapor and Grab Sampling





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Sampling Schedule for First Quarter FY 1997 (October through December)

TITLE	Early Start	Early Finish	
AY-102 Grab Sample (Caus Add) Blaak	07-Oct-96	09-Oct-96	Completed
B-103 Homogenity Vapor Sample 6 (4) High Priorit	07-Oct-96	11-Oct-96	Completed
BY-112 Rotary Samples 2 Segments 6	16-Sep-96	17-Oct-96	Completed
TY-103 Homogenity Vapor Samples 6 (4)High Pri	14-Oct-96	18-Oct-96	Completed
TX-244 Grab Sample Compatability - Sutey	22-Oct-96	24-Oct-96	Completed
U-112 Homogenity Vapor Samples 6 (4) High Pri	21-Oct-96	25-Oct-96	
U-103 Push Samples 2 Segments 9 High Priority	07-Oct-96	01-Nov-96	
C-107 Temporal Vapor Sample (3) High Priority	31-Oct-96	04-Nov-96	
SY-102 Grab Sample Compatability - Sutey	06-Nov-96	08-Nov-96	
BY-108 Temporal Vapor Sample (3) High Priority	07-Nov-96	11-Nov-96	Completed
S-102 Temporal Vapor Sample (3) High Priority	14-Nov-96	18-Nov-96	
T-110 Rotary Sample 2 Segments 8	18-Oct-96	20-Nov-96	
T-112 Rotary Sample 2 Segments 2	23-Oct-96	25-Nov-96	
BX-104 Temporal Vapor Sample (4) High Priority	22-Nov-96	25-Nov-96	
A-106 Vapor Sample (4) (Rotary)	02-Dec-96	03-Dec-96	
AX-104 Vapor Sample (4) (LDUA)	09-Dec-96	10-Dec-96	
T-204 Rotary Samples 1 Segments 10	26-Nov-96	13-Dec-96	
B-108 Vapor Sample (4)	16-Dec-96	17-Dec-96	
SX-104 Grab Sample Compatability Saueressig (SW)	16-Dec-96	18-Dec-96	
S-106 Push Samples 2 Segments 10 High Priority	25-Nov-96	02-Jan-97	
B-109 Vapor Sample (4)	23-Dec-96	02-Jan-97	
BX-110 Rotary Samples 2 Segments 4 High Priority	22-Nov-96	07-Jan-97	
T-203 Rotary Samples 1 Segments 10	16-Dec-96	09-Jan-97	

MILESTONE M-45-00

COMPLETE CLOSURE OF ALL SINGLE SHELL TANK FARMS

W. Wrzesinski

9713527.1679

Milestone Description

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

M-45-02	Annual Update of SST Retrieval Sequence Document for Ecology Approval, 9/30/97
M-45-03A	Initiate sluicing retrieval of C-106, 10/31/97
M-45-04A	Complete conceptual design for the intial SST Retrieval System, 4/30/97
M-45-08-T01	Establish criteria through stakeholder participation for 1) determining allowable leakage, and 2) acceptable LDMM measures to permit sluicing operations, 4/20/97
M-45-09B	Submit LDMM annual progress report, 9/30/97

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ACTION ITEMS

Status Internet usage for the LDMM report

97 1327 . 681

M-46 MILESTONES

DOUBLE SHELL TANK SPACE EVALUATION

M. Ramsay

Milestone Description

A tank volume projection report shall be submitted on an annual basis to Ecology and EPA. This report shall include discussions covering all assumptions which form the basis of the projection. The report shall include or shall be accompanied by DOE's plans for acquisition of additional tanks based on the tank volume projection.

M-46-00, Submit Annual Double-Shell Tank Space Evaluation Report

M-46-01, Annual Ecology Concurrence of Additional Tank Acquisition

9714527.1683

STATUS

Operational Waste Volume Projection Report submitted to Ecology in September

Concurrence of Additional Tank Acquisition (M-46-01C); letter transmitted in November indicating agreement that no new tanks are needed for at least six years

Currently obtaining waste volume data for inclusion into the database

Work on next OWVP report to begin in Spring 1997

ACTION ITEMS

Provide timeline for recommendations/actions taken in response to the Waste Consolidation Studies

Provide assumptions used for the OWVP report

9714527.1685

C-103 FLOATING LAYER STATUS

- NO DECISION HAS BEEN MADE ON CONTRACTOR RECOMMENDATION
- CRS SUBTAP QUESTIONS WHETHER A NEW SAFETY ISSUE WOULD BE CREATED IN RECEIVING TANK
- EVALUATING SOLVENT SAFETY ASSESSMENT FOR DSTS IN LIGHT OF SUBTAP CONCERN
- ECOLOGY HAS MENTIONED ADDITIONAL CONCERNS THAT HAVE YET TO BE REVIEWED BY SUBTAP
- TANK 241-C-103 IS NOT CURRENTLY SCHEDULED FOR STABILIZATION UNTIL MAR 1999

9715577.1086

Status of Vapor Mixing System C-103

- Letter From RL to Messrs, Sherwood and Stanley, entitled, "Completion of Hanford Federal Facility Agreement and Consent Order Interim Milestone M-40-07: Commence Operation of a Vapor Treatment System In Tank 241-C-103" (operation means completion of ATP test), June 1995

9712527.1687

Status of Vapor Mixing System C-103

- VMS Transferred to Operations - June 1995
- Condensation on HEPA Filter - Fall 1995
- Condensate Coil / Reheater Proposed - Nov. 1995
- Electrical Labeling Program Impacts the VMS Restart
- On Hold for Modification Decision - Mar 1996

9712527.0088

Status of Vapor Mixing System C-103

- Operations I-H Will Evaluate VMS Unit After Restart

- Operations (WSD) Decision On Future Program and Funding Pending VMS Evaluation - Jan 1997

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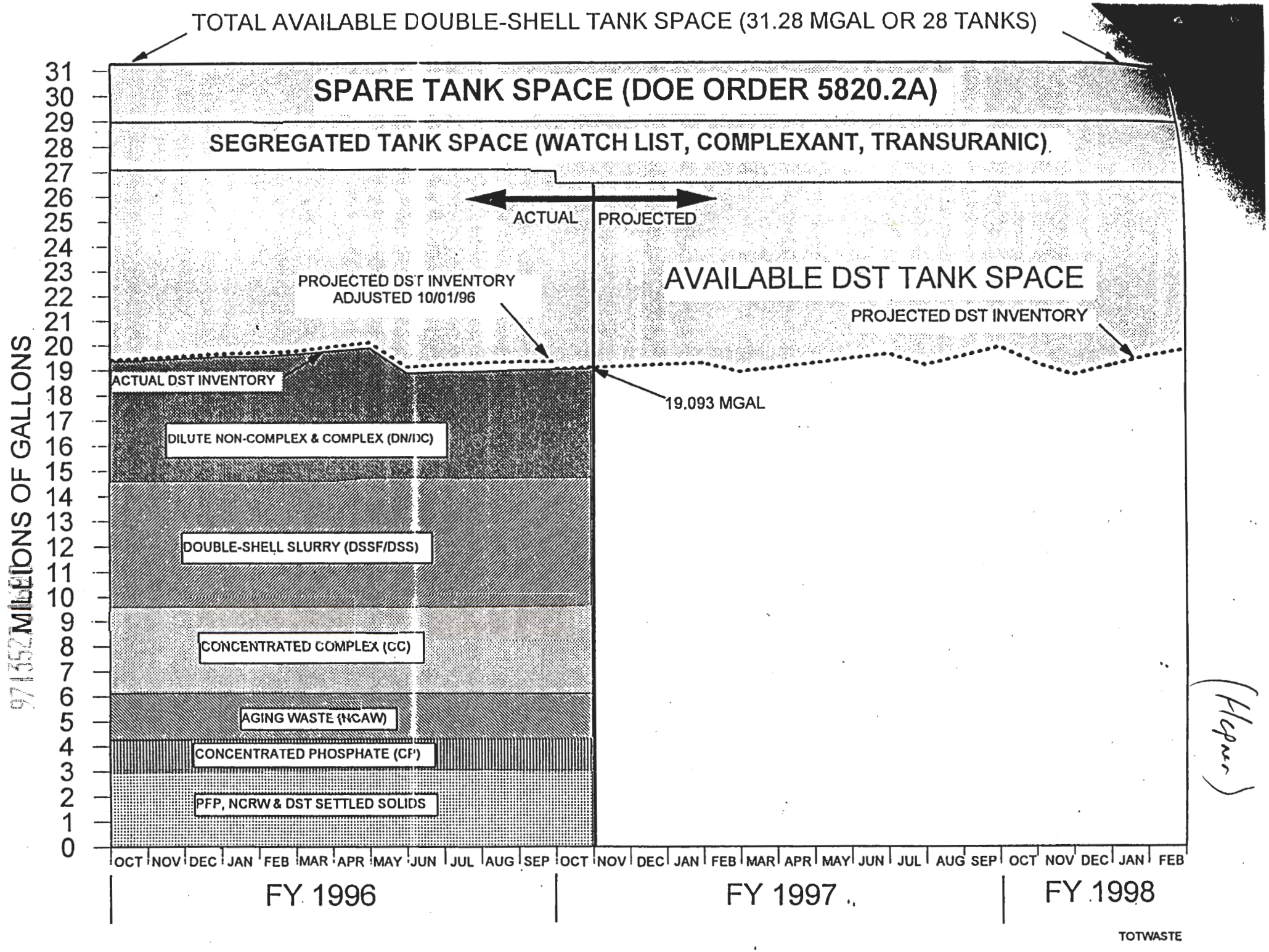
TOTAL AVAILABLE DOUBLE-SHELL TANK SPACE (31.28 MGAL OR 28 TANKS)
SPARE TANK SPACE (DOE ORDER 5820.2A)
SEGREGATED TANK SPACE (WATCH LIST, COMPLEXANT, TRANSURANIC)
ACTUAL
PROJECTED
PROJECTED DST INVENTORY ADJUSTED 10/01/96
AVAILABLE DST TANK SPACE
PROJECTED DST INVENTORY
ACTUAL DST INVENTORY
19.093 MGAL
DILUTE NON-COMPLEX & COMPLEX (DN/DC)
DOUBLE-SHELL SLURRY (DSSF/DSS)
CONCENTRATED COMPLEX (CC)
AGING WASTE (NCAW)
CONCENTRATED PHOSPHATE (CP)
PFP, NCRW & DST SETTLED SOLIDS
MILLIONS OF GALLONS
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB
FY 1996
FY 1997
FY 1998
TOTWASTE

(Figure)

9713527.1691

Project Manager's Meeting: TWRS Single and Double Shell Tanks
Storage, Treatment and Disposal
TPA Milestones M-40 through M-46
December 5, 1996

U.S. Department of Energy -
Richland Operations Office

J.M. Clark	S7-54
C.C. Haass	S7-51*
B.J. Harp	S7-54
D.H. Irby	S7-54
D.E. Jackson	A5-15
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.F. Sanders	A5-15*
C. Sohn	S7-51
W.J. Taylor	K6-51*
W.R. Wrzesinski	S7-53

Washington State Department of Ecology

L.J. Cusack	B5-18
S.L. Dahl	B5-18*
N.T. Hepner	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
S. Marchetti	S7-40
M.K. Martin	S7-40*
M.A. McLaughlin	B2-35
M.W. Stevenson	B2-35

DE&S Hanford, Inc.

R.J. Cash	S7-14

Lockheed Martin Hanford Corporation

W.B. Barton	R2-11
B.G. Erlandson	R2-36
L.E. Hall	S7-85
R.J. Murkowski	H5-03
M.A. Payne	S7-84
V.L. Wagner	R1-90*
J.H. Wicks	R2-50

Rust Federal Services of Hanford, Inc.

J.E. Geary	S6-71

Jason Associates Corporation

L.R. Roeder-Smith	H0-51*

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
Care of: EDMC, RFSH 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)

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Rev. 01/17/97