START

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29

Meeting Minutes Transmittal/Approval
Unit Managers Meeting: Double Shell Tanks & Single-Shell Tanks
2704HV/Room G227
200 East Area Hanford Site, Washington

December 7, 1994

From/
Appvl: Wendell Wrzesinski, SST Unit Manager, DOE-RL — Date: 2/16/95

Appvl: Scott E. McKinney, SSt Unit Manager, WA Department of Ecology — Date: 2/17/95

Appvl: David R. Gin for Kevin Oates, SST Unit Manager, EPA Region X — Date: 16 Feb 95

Appvl: Mardine Campbell, WHC, Contractor Representative — Date: 2/16/95

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

Attachment #1, Meeting Summary/Summary of Action Items & Agreements
Attachment #2, Agenda for Meeting
Attachment #3, Attendance List

Handout 1 - Double and Single-Shell Tank Characterization
Handout 2 - Provide Additional Double-Shell Tank Capacity
Handout 3 - Replacement of Cross-Site Transfer System
Handout 4 - Tank Farm Restoration and Safe Operations - Project W-314
Handout 5 - Tri-Party Agreement Milestones Waste Tank Safety Program
Handout 6 - Vapor Program Update
Handout 7 - Complete Closure of All Single Shell Tank Farms

Handout 8 -

MAR 1995
RECEIVED
EDMC

UNIT MANAGERS MEETING: SINGLE-SHELL TANKS
MEETING SUMMARY/SUMMARY OF ACTION ITEMS AND AGREEMENTS

December 7, 1994

The M-42 and M-43 portions of this meeting were by telecon with S. McKinney of Ecology. The M-45, Retrieval/Closure, statusing was given by telecon on December 8, 1994.

DST Permitting Update (Tom Snider)

Tom Snider summarized the status of the Double Shell Tank RCRA Part B Permit Application. A revised version of the Waste Analysis Plan (WAP), a requirement of Chapter 3 of the Permit Application, will be issued on December 15, 1994. Workshop meetings for the WAP will begin again on January 25, 1995. An implementation schedule for the WAP will also be developed from these workshop meetings.

A Video Conference to discuss Land Disposal Restrictions (LDR) issues regarding tank waste with Dan Duncan of the EPA was held Wednesday, November 30th. The significant points resulting from the meeting were: the waste codes for the tanks will carry through to disposal, there is no planned treatment to remove any of the codes from the waste, and, there is no grouping or separation of codes within the tanks.

M-44-00 CHARACTERIZATION (Joe Haney - GSSC) [Handout #1]: Both the PNL and Oak Ridge laboratories could be used for Tank Characterization Plan analyses. Alex Stone, Ecology, wants to be in the review cycle of the TCPs. He also requested more time for the review process.

All milestones are on schedule.

Tank Characterization Reports (TCRs) are scheduled for release at the rate of eight per quarter.

ACTION: Alex Stone requested a report on the PNL 325 lab restart, including the start date and a progress report.

ACTION: Alex Stone also requested a presentation on riser installation, including riser rehabilitation.

M-42 Multi-Function Waste Tanks (Glenn Konzek) [Handout #2]:

Glenn Konzek presented status on Milestone M-42-00, the Multi-Function Waste Tank Facility (MWTF). Planned actions include continued work on the National Environmental Policy Act (NEPA) Documents and Title II Design. Current accomplishments include the scoping of ten technical tasks for the MWTF Path Forward. There are four major issues to confirm: 1) pumping of the Single

Shell Tanks interstitial liquids, 2) evaporator efficiency and specific gravity, 3) appropriate dilution ratios, and 4) complexed/non-complexed waste space.

Cathy Sowa from the WHC Air and Water Permitting Department generated the MWTF air permitting documents and submitted them to the DOE RL for approval. The documents have been transmitted to the EPA, the Washington Dept. of Ecology (Ecology), and the Washington Dept. of Health (DOH). No response has been received from Ecology or DOH; the EPA approved the submission.

The following Title II design deliverables were issued in November: design packages 25 Civil Site Preparation 200E, 40 Tanks, and 60E Construction Fence 200E; review of the 200W Material Handling Study; and the diesel generator refurbishment plan.

Environmental Impact Statement (EIS) activities have fallen behind. This will impact the M-42 TPA Milestone. A new work scope relating to integration with TWRS SE work and not initiating the MWTF KD 3 process is also delaying the start of construction. The variance between the project cost and schedule will continue to grow each month as construction of the tanks is delayed.

M-43 Tank Farms Upgrades (Gae Neath, Mark Ramsay) [Handouts #3, 4]:

Gae Neath presented the update on TPA Milestone M-43-07, Replacement of the Cross-Site Transfer System. Resolution of issues related to the integration of the pump, piping and diversion box with the MWTF project has delayed the design schedule. Milestone M-43-07-T01, Complete Definitive Design, due August 1995, will be missed. A Change Request will be processed to make everyone aware of the slip. The other milestones, M-43-07A, Start Construction; M-43-07B, Complete Construction; and M-43-07C, System Operational, should be met.

In an effort to accelerate the schedule, the project will attempt to discontinue the standard Key Decision process and instead initiate a phased approach. This will allow some construction to start early while other design work is still being completed.

Planned activities for the near future include continued Title II design, pursuit of a Long Lead item procurement waiver, and award of Long Lead procurement contracts for design.

Concerns for the project include design delays related to integration with the MWTF project, and schedule delays of the MWTF Environmental Impact Statement.

Mark Ramsay presented the status of Project W-314, Tank Farm Restoration and Safe Operations. Pre-conceptual design activities continue for the Design Requirements Document (DRD), the Functions and Operational Requirements (F&OR), and the mass flow analysis. Procurement activities continue for a offsite A&E/CM contractor to perform the advanced conceptual design and definitive design/construction management work.

Planned actions include completing the A&E/CM evaluation, completing the W-314 pre-conceptual design documentation, obtaining DOE-HQ approval of Key Decision 0, and initiating W-314 conceptual design development work.

The delay in obtaining DOE-HQ approval of Key Decision 0 is now past that point where milestones M-43-02A and M-43-04A (Completion of Conceptual Design), and M-43-02-T06 and M-43-04-T05 (DOE validation of project funding) will be slipped. In addition, target milestone M-43-04-T07 (Start Definitive Design for W-314A) is slipped from January 1996 to January 1997.

M-40 SAFETY (J. Osborne/G. Wilson/) [Handouts #5, 6]:

George Wilson submitted the Waste Tank Safety Program status report.

Jerry Osborne presented the Vapor Program Update.

M-41 INTERIM STABILIZATION:

There was no presentation for Interim Stabilization.

M-45 RETRIEVAL/CLOSURE [Handout #7]:

There was no presentation for M-45 Retrieval/Closure. However, notes from a telecon of December 8, 1994, are attached to these minutes.

Attachment 2

DOUBLE SHELL TANKS / SINGLE SHELL TANKS
UNIT MANAGERS MEETING

December 7, 1994

AGENDA

10:00 - 10:15	DST Permitting Update (Brief Review)
10:15 - 10:45	M-44 Tank Characterization
10:45 - 11:15	M-42 Multi-Function Waste Tanks
11:15 - 11:45	M-43 Tank Farms Upgrades
11:45 - 12:15	M-40 Safety
12:15 - 1:00	Lunch
1:00 - 1:30	M-45 Retrieval/Closure
1:30 - 2:30	M-41 Interim Stabilization
2:30 - 2:45	Break
2:45 - 4:30	Open Discussion with EPA & Ecology

DST/SST UMM Attendees
12/7/94

M. P. Campbell	WHC TWRS Envir Compl	373-1131
Joe Haney	GSSC	373-4939
Shirley R. Long	WHC/Chart Prog.	376-5418
NORM HEPNER	ECOLOGY	736-3048
TOM KELLEY	WHC/CHAR PROG	373-2038
Duc M. Nguyen	GSSC	372-3014
GAE M. NEATH	DOE RL / TWP	376-7826
TOM SNIDER	WHC TWRS ENVIR COMP.	373-2984
Glenn R. Konzek	DOE-RL-, TWP	376-8399
HANK BENZEL	WHC - RCRA PERMITTING	376-8556
Gerry Hendricks	GSSC	946-3687
Casey Ruud	DOE-RL, TOP	373-3478
Alex Stone	ECI	736-3018
CARL VAN KATWIJK	WHC 058 PROJECT	376-9385
[illegible]	WHC 236A	373-6647
Mary Ann McLaughlin	WHC/TPAI	376-4084
Mark Ramsey	RL	376-7924
JERRY OSBORNE	WHC/WTSP	373-5379
[illegible]	[illegible]	[illegible]

DOUBLE AND SINGLE-SHELL TANK CHARACTERIZATION

MILESTONE M-44-00

U.S. Department of Energy / Richland Operations Office

John Clark - U.S. DOE

Unit Managers Meeting

December 7, 1994
Richland, Washington

9513335.0745

DOUBLE AND SINGLE-SHELL TANK CHARACTERIZATION

MILESTONE M-44-00

TOPICS

- Accomplishments
- Planned Activities
- Issues/Problems
- Special Issues
- FY95 Budget
- Weekly Sampling Activities

ACCOMPLISHMENTS

- Tank Characterization Plans (TCPs) for tanks 241-AP-106 (grab), 241-AW-101 (auger), 241-BY-108 (auger), 241-BY-110 (vapor), 241-BY-111 (vapor), and 241-BY-112 (vapor) were issued.

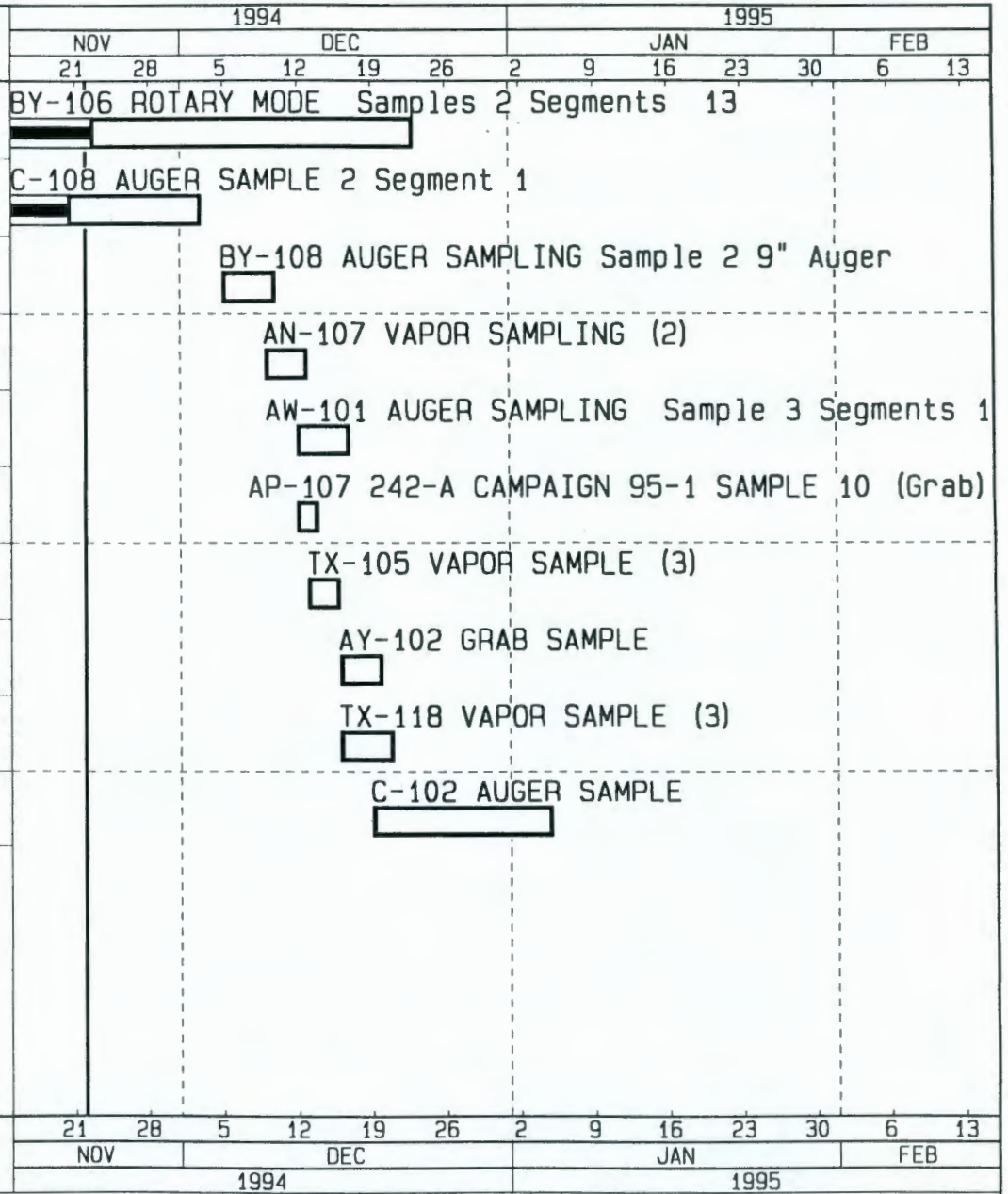
- The Characterization and Vapor Safety Programs met to finalize signature requirements for the vapor TCPs. The participating laboratories will sign the vapor TCPs before sampling. The TCPs will include a clause that indicates that signature by the laboratory on the TCP will indicate concurrence that the laboratory can do the work to the required quality levels and that the work is included in their scope and budget.

9513335.0746

Planned Activities

December 1994

ACTIVITY ID	LEVELED ES	LEVELED EF	TOTL FLT
RS04-4	20OCT94A	22DEC94	-43
AS14-4	11NOV94A	2DEC94	-15
AS98-4	5DEC94	9DEC94	-15
VS35-4	9DEC94	12DEC94	-6
AS04-4	12DEC94	16DEC94	-10
GS20-4	12DEC94	13DEC94	-2
VS0Q-4	13DEC94	15DEC94	-5
GS66-4	16DEC94	19DEC94	-11
VS0R-4	16DEC94	20DEC94	-5
AS99-4	19DEC94	4JAN95	-5



Plot Date 30NOV94
Data Date 22NOV94
Project Start 10CT93
Project Finish 20MAY97

(c) Primavera Systems, Inc.

Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Flag Activity

CHA4

Sheet 1 of 1

WESTINGHOUSE HANFORD COMPANY
TANK FARM OPERATIONS 1DEC94-31DEC94
CURRENT SCHEDULE (DEC)

Jim Chaffin 2-1799 G. Stanton, Prg. Mngr 3-5590

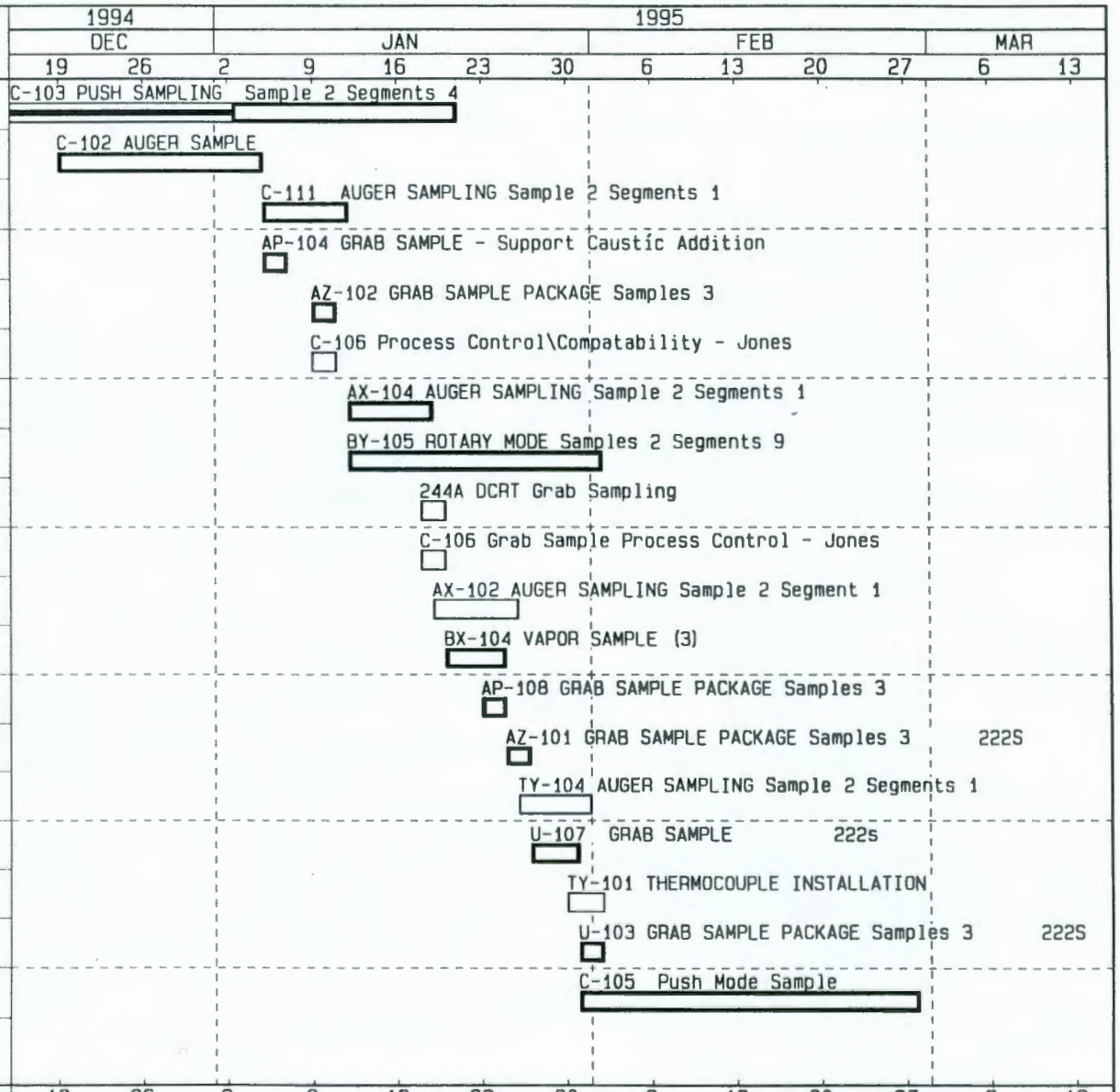
Date	Revision	Checked	Approved

9513335.0747

Planned Activities (Continued)

January 1994

ACTIVITY ID	LEVELED ES	LEVELED EF	TOTL FLT
PS05-4	20OCT94A	20JAN95	-53
AS99-4	19DEC94	4JAN95	-5
AS15-4	5JAN95	11JAN95	-5
GS91-4	5JAN95	6JAN95	-15
GS61-4	9JAN95	10JAN95	-9
GS85-4	9JAN95	10JAN95	7
AS06-4	12JAN95	18JAN95	-1
RS01-4	12JAN95	1FEB95	-43
GS54-4	18JAN95	19JAN95	7
GS86-4	18JAN95	19JAN95	7
AS10-4	19JAN95	25JAN95	4
VS06-4	20JAN95	24JAN95	-19
GS17-4	23JAN95	24JAN95	-19
GS62-4	25JAN95	26JAN95	-16
AS37-4	26JAN95	31JAN95	9
GS08-4	27JAN95	30JAN95	-14
TC15-4	30JAN95	1FEB95	3
GS39-4	31JAN95	1FEB95	-6
PS25-4	31JAN95	27FEB95	-53



Plot Date 30NOV94
Data Date 22NOV94
Project Start 10CT93
Project Finish 20MAY97

(c) Primavera Systems, Inc.

Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Flag Activity

CH44

WESTINGHOUSE HANFORD COMPANY
TANK FARM OPERATIONS 1JAN95-31JAN95
CURRENT SCHEDULE (JAN)

Sheet 1 of 1

Jim Chaffin 2-1799 G. Stanton, Prg. Mngr 3-5590

Date	Revision	Checked	Approved

9513335.0748

Planned Activities (Continued)

FY 1995 Milestone Status

- M-44-01B Submit Draft Tank Waste Analysis Plan Update to Ecology/EPA, due May 31, 1995.
  - On schedule
- M-44-02B Submit Tank Waste Analysis Plan Annual Update to Ecology/EPA, due August 31, 1995.
  - On schedule
- M-44-08 30 Tank Characterization Reports in Accordance with the Approved Tank Characterization Plans. Complete input of Characterization information for 30 High Level Waste Tanks to Electronic Database, due September 29, 1995.
  - On schedule

ISSUES\PROBLEMS

- 325 Laboratory Restart

  Problem:

  The 325 laboratory remains in stand down following the "pause" on April 21, 1994.

  Corrective Actions:

- The 222-S laboratory has been able to handle all samples sent to date.

- The DOE Independent Review resumed December 1, 1994. A daily close out meeting with the Review Team indicated that the team could finish as early as December 5, 1994. A written report from the Review Team will be issued to DOE-RL and PNL Management on Friday, December 9, 1994.

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ISSUES\PROBLEMS (Continued)

- Riser Availability (Activities ongoing; status similar to previous month)

Problem:

- Many SSTs only have 1-3 available risers. Competing for instrument installation through these risers may leave an insufficient amount for Characterization (e.g. Thermocouple trees, LOWs).
- The FY-95 Characterization budget does not (at this time) include funds for new riser installations, but the riser simulation is on the priority list.
- Some related TPA milestones may be negatively impacted if schedule integration is not successful.

Corrective Actions:

Integrate instrument installation/Characterization activities. Confirm risers with cameras/"plug gauge" (to see if straight, etc.). Integrating instrument installation schedule and LOW schedule with sampling schedule to reduce impacts.

The study for installation of new risers in single-shell tanks was completed. The study presents five alternatives ranging in cost from $363K to $2M per 12 inch riser with the cost per riser diminishing somewhat if five or more risers are installed. The study concludes that a one year, $400K on site demonstration using Alternative 3, a core

- Riser Availability (Continued)

drill, should be performed. DOE-RL has contracted with the U.S. Army Corps of Engineers to evaluate faster, better, cheaper alternatives for the demonstration and the actual installations.

Kaiser is supporting the Corps of Engineers in their evaluation effort of riser installation.

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ISSUES/PROBLEMS (Continued)

- Approval of Tank Characterization Plans

- No Ecology/EPA response to the Tank Characterization Plans submitted by DOE-RL for approval.

<u>Corrective Actions</u>

- Discuss process for approval of Tank Characterization Plans.

- DOE-RL prefers to build quality up front (i.e. use approved Tank Characterization Plans) rather than "inspect" it at the end of the process (i.e. approve the resultant Tank Characterization Reports).

- Response not received from the Department of Ecology. Sampling activities started on November 9, 1994 for tank 241-AW-102.

ISSUES/PROBLEMS (Continued)

- Bent Shielded Receiver Frame on the Push Mode Truck

  The heavier NCAW shielded receiver was removed from the push mode truck and will be replaced with a standard lighter shielded receiver. The system was inspected, both welds and frame, for straightness. A non-conformance report (NCR) was written against the push mode truck to document the bent frame condition. The most cost effective and expedient solution is to fabricate a replacement for the bent frame.

  A resource loaded schedule was developed for the repair of the system. The repair schedule categories include fabrication and installation of a replacement shielded receiver frame, weld inspection, jack modification, bolt replacement, and installation of a hydraulic check valve. Completion of all activities and ready to sample status is expected the first week of January 1995.

9513335.0751

ISSUES/PROBLEMS (Continued)

- **Lack of TWRS Characterization Program Support in Critical Path Scheduling System**

  The TWRS Characterization Program is aware of the priority to upload the critical path schedule for the Department of Ecology. All efforts are underway to have the system complete by December 16, 1994.

SPECIAL ISSUES (Continued)

- FY 95 Budget Impacts

  Although there have been substantial cuts in TWRS budget allocations for FY95, the TWRS Characterization Program appears to have sufficient funding to meet all TPA interim milestones due this year, including M-44-08 (30 Tank Characterization Reports by September 29, 1995).

9513335.0752

CHARACTERIZATION FY95 BUDGET

	MYPP		Revised Total		
	Budget	Funds	Budget	Funds	
Expense	79,175	71,294	76,120	67,383	
CENRTC	5,967	5,372	11,217	10,649	*
	85,142	76,667	87,337	78,032	

* Includes all FY94 carryover work from Rotary Mode Core Systems 3 and 4, and additional Program adjustments.

SNAPSHOT SCHEDULE

Sampling Activities for the week of December 5, 1994

9513335.0753

[180] From: G T (Tom) Frater at ~WHC338 12/5/94 9:50AM (2916 bytes: 39 ln)
To: Eugene J Jr Austin at ~WHC174, David R Bratzel at ~WHC268, John M Clark at ~DOE15, Cherri DeFigh-Price at ~WHC79, G D (David) Forehand at ~WHC268, Richard D Frantz at ~WHC73, G T (Tom) Frater, Vernon W Hall at ~WHC321, Carl S Haller at ~WHC308, Dennis W Hamilton at ~WHC340, Joseph P Haney at ~MTC7, Delores A Healey at ~WHC12, Thomas J (Tom) Kelley at ~WHC396, David B (Bruce) Klos at ~WHC33, John G Kristofzski at ~WHC168, Kenneth Lang at EM, James R Lapointe at ~WHC174, James S (Jim) Lee at ~WHC340, Shirley R Long at ~WHC189, Susan G McKinley at ~PNL89, George J Miskho at ~WHC140, Lola M Morgan at ~BCS1, Alfred D (Al) Olguin at ~WHC34, James Poppiti at EM, Richard S Rodriquez at ~WHC73, Pratap Sathyanarayana at ~WHC140, Ruth D Schreiber at ~WHC163, George A Jr Stanton at ~WHC175, Calvin L (Cal) Thomas at ~WHC321, Peter H (Pete) Thomsen at ~WHC174, Richard D Zill at ~DOE15
Subject: Plan of the Week-Field Sampling
---------- Message Contents ----------

Snapshot for the week starting 12-05-94

Monday BY-106 rotary sampling (days and swing)
Push truck inspection/repair
AY-102 grab sampling
C-108 auger/equip decon

Tues BY-106 rotary sampling (days and swing)
Push truck inspection/repair
AY-102 grab sampling
C-108 auger/equip decon

Wed BY-106 rotary sampling (days and swing)
C-108 auger/equip decon
Push truck inspection/repair
TX-105 riser prep and HVP installation
TX-118 riser prep and HVP installation

Thur BY-106 rotary sampling (days and swing)
C-108 auger sampling contingent on equip availability
Push truck inspection/repair
TX-105 riser prep and HVP installation
TX-105 riser prep and HVP installation
AN-107 type 2 vapor sampling

Friday BY-106 rotary sampling (days and swing)
C-108 auger sampling contingent on equipment availability
Push truck inspection/repair
TX-105 riser prep and HVP installation
TX-118 riser prep and HVP installation
AN-107 type 2 vapor sampling

Handout 2 #2

PROVIDE ADDITIONAL DOUBLE-SHELL TANK CAPACITY

MILESTONE M-42-00

G. R. KONZEK
RL, MULTI-FUNCTION WASTE TANK FACILITY
PROJECT OFFICE

December 7, 1994

9513335.0754

Milestone Descriptions

- M-42-00 — Provide additional double-shell tank capacity. Initiate "Hot" Operations of the MWTF 200E Area tanks. 12/98
- M-42-01 — Initiate "Hot" Operations of the MWTF 200W Area tanks. 02/98
- M-42-01-T1 — Initiate Detail Design of the MWTF 200W Area tanks. 03/94 (A 5/94)
- M-42-01-T2 — Initiate construction of the MWTF 200W Area tanks. 09/94

Milestone Descriptions (continued)

- M-42-02 — Complete construction of the MWTF 200E Area tanks. 09/98
- M-42-02-T1 — Initiate construction of the MWTF 200E Area tanks. 02/95
- M-42-02-T2 — Complete the Detailed Design of MWTF 200E Area tanks. 01/96

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Planned Actions (Next six months [M-42])

- Continue National Environment Policy Act (NEPA) Documentation
- Continue Title II Design
- Revise Project Plan and submit Baseline Change Proposal based upon Title I approvals, additional NEPA scope, Systems Engineering integration

Accomplishments

- Ten technical tasks for the Multi-Function Waste Tank Facility (MWTF) Path Forward have been scoped to refine the uncertainties in the Operating Waste Volume Projections. These tasks are being coordinated by the Westinghouse Hanford Co. (WHC) MWTF Project Office. All tasks are in progress and on schedule.

- U.S. Department of Energy, Richland Operations Office (RL) approved the MWTF Air Permitting documents and transmitted them to the appropriate government agencies.

9513335.0756

Accomplishments (continued)

- The following Title II Design Deliverables were issued for approval in November 1994:

  - Design Packages 25 Civil Site Preparation 200E, 40 Tanks, and 60E Construction Fence 200E, were issued to the Project Office for review and comment.

  - Completed review of the 200W Material Handling Study. This study has been issued primarily to the Project Office for review and comment.

  - The diesel generator refurbishment plan was issued to the Project Office for review and comment.

Accomplishments (continued)

- W-058/W-236A integration change request was initiated this week. The engineering cost estimate will be completed in December.
- ICF KH issued the project trended estimate, schedule (levels 1 thru 4), and BA/BO.
- Rebaselining effort lowers the TPC from $435M to $420M.

9513335.0757

Special Topics

- Concerns
  - EIS activities have slipped causing impacts to the M-42 TPA Milestone series.
  - Implementation of the Secretary's commitment to the DNFSB to perform Critical Design Review and integrate with System Engineering, will slip milestones M-42-00, M-42-02, and related target milestones.
  - Delegation of authority for local approval of Key Decisions is progressing slow (is making it more challenging MWTF's KD 3A).

TPA Milestone M-42-00
Provide additional double-shell tank capacity

Cost/Schedule Assessment (in thousands)

	Current Period Nov. 1 - Nov. 27	Cumulative to Date
Budget Cost Work Scheduled (BCWS)	5,085	50,149
Budget Cost Work Performed (BCWP)	1,872	42,389
Actual Cost Work Performed (ACWP)	2,250	42,210
Variances:		
Schedule	(3,213)	(7,760)
Cost	(378)	179

As of end of November 30, 1994

9513335.0758

Variance Explanation:

Cost

Cost variance is the result of taking credit for performance of work that has not been costed.

Schedule

Schedule variance is due to delays in not finishing the EIS, new work scope related to integration with TWRS SE work and not initiating the KD 3 process to enable the start of construction.

Handout 3 #3

REPLACEMENT OF CROSS-SITE TRANSFER SYSTEM

PROJECT 93-D-182 (W-058)

GAE M. NEATH
RL, TANK WASTE PROJECTS

December 7, 1994

9513335.0759

Milestone Description

- M-43-07-T01 Complete Definitive Design, August 1995.
- M-43-07A Start Construction, November 1995.
- M-43-07B Complete Construction, August 1997.
- M-43-07C System Operational, February 1998.

Accomplishments (Last three months)

- Completed Integration with the Multi-Function Waste Tank Facility, September 1994.
- Evaluated schedule optimization options, November 1994. Options included: RL/WHC concurrent reviews, RL requesting Major Project declassification, Phased Key Decision 3.

9513335.0760

Planned Actions (Next six months)

- Continue Title II Design
- Obtain Long Lead Procurement Waiver, December 1994.
- Award Long Lead Procurement (Design Only) Contracts, December 1994.

Special Topics

- Concerns

  Resolution of the integration issues (pump configuration, diversion box configuration, and pipe re-routing) has delayed the design schedule. TPA milestone M-43-07-T01, Design Completion, will be impacted.

  Schedule delays of the Multi-Function Waste Tank Facility Environmental Impact Statement could impact TPA Milestones. Project alternatives are being evaluated.

9513335.0761

Special Topics (Continued)

- **Cost/Schedule Assessment**

Note: Dollars in Thousands.	Current Period November 1994	Cumulative to Date	At Completion
Budget Cost Work Performed (BCWP)	233.0	3640.5	52700.0
Budget Cost Work Scheduled (BCWS)	359.7	4981.7	52700.0
Actual Cost Work Performed (ACWP)	247.5	3968.2	52700.0
Variances:			
Costs	-14.5	-1341.2	0.0
Schedule	-126.7	-1013.5	0.0

Note: The cost and schedule variance is attributed to inefficiencies with the projects integration effort.

#4

Handout 4

TANK FARM RESTORATION AND SAFE OPERATIONS

PROJECT W-314

FY 1996 Major System Acquisition

M. L. Ramsay
RL, Tank Waste Projects Division

December 7, 1994

9513335.0762

TPA Milestones M-43-02, -04, -05, and -06
Tank Farm Restoration and Safe Operations

Milestone Description

- M-43-04 Complete Project W-314A Tank Farm Integrated Instrumentation System Upgrades - June 2002

  - M-43-02-T01 Provide WDOE and DOH the Engineering Study - MAR 1994 (C)
  - M-43-02-T02 Provide WDOE and DOH the Functions and Requirements - MAY 1994 (C)
  - M-43-02-T03 Provide WDOE and DOE the Conceptual Design Statement of Work - JUN 1994 (C)
  - M-43-04A Provide WDOE and DOH the Conceptual Design Report - May 1995
  - M-43-04-T05 Receive DOE-HQ project validation to request congressional funding - June 1995
  - M-43-04-T06 Start Definitive Design for W-314A - January 1996
  - M-43-04-T07 Complete Definitive design for W-314A - November 1998
  - M-43-04B Provide WDOE and DOH an integrated level 3 construction schedule - December 1998
  - M-43-04-T08 Start construction of W-314A - December 1998
  - M-43-04C Complete construction of W-314A - December 2001

- M-43-02 Complete Project W-314B Double Shell Tank Ventilation Upgrades - June 2002

  - M-43-02-T01 Provide WDOE and DOH the Engineering Study - FEB 1994 (C)
  - M-43-02-T02 Provide WDOE and DOH the Functions and Requirements - APR 1994 (C)
  - M-43-02-T03 Provide WDOE and DOE the Conceptual Design Statement of Work - JUN 1994 (C)
  - M-43-02A Provide WDOE and DOH the Conceptual Design Report - May 1995
  - M-43-02-T06 Receive DOE-HQ project validation to request congressional funding - June 1995
  - M-43-02-T07 Start Definitive Design for W-314A - January 1997
  - M-43-04-T08 Complete Definitive design for W-314A - January 1999
  - M-43-02-T09 Start construction of W-314B - March 1999
  - M-43-02B Complete construction of W-314B - December 2002
  - M-43-02C Start operation of W-314B - June 2002

TPA Milestones M-43-02, -04, -05, and -06
Tank Farm Restoration and Safe Operations

Milestone Description (continued)

- M-43-05 Complete Project W-314C Transfer System Upgrades - June 2004

  - M-43-05-T01 Provide WDOE and DOH the Engineering Study - FEB 1995 (C)
  - M-43-05-T02 Provide the WDOE the project Functions and Requirements - April 1995
  - M-43-05-T03 Provide the WDOE the Project Conceptual Design Statement of Work - June 1995
  - M-43-05A Provide WDOE the project Conceptual Design Report - May 1996
  - M-43-05-T06 Receive DOE-HQ project validation to request congressional funding - June 1996
  - M-43-05-T07 Start Definitive Design for W-314C - January 1998
  - M-43-05-T08 Complete Definitive design for W-314C - November 2000
  - M-43-05-T09 Start construction of W-314C - March 2000
  - M-43-05B Complete construction of W-314C - December 2003
  - M-43-05C Start operation of W-314C - June 2004

- M-43-06 Complete Project W-314D Tank Farm Electrical Upgrades - June 2004

  - M-43-06-T01 Provide WDOE and DOH the Engineering Study - FEB 1996 (C)
  - M-43-06-T02 Provide the WDOE the project Functions and Requirements - April 1996
  - M-43-06-T03 Provide the WDOE the Project Conceptual Design Statement of Work - June 1996
  - M-43-06A Provide WDOE the project Conceptual Design Report - May 1997
  - M-43-06-T06 Receive DOE-HQ project validation to request congressional funding - June 1997
  - M-43-06-T07 Start Definitive Design for W-314D - January 1999
  - M-43-06-T08 Complete Definitive design for W-314D - October 2001
  - M-43-06-T09 Start construction of W-314D - March 2001
  - M-43-06B Complete construction of W-314D - December 2004
  - M-43-06C Start operation of W-314D - June 2005

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TPA Milestones M-43-02, -04, -05, and -06
Tank Farm Restoration and Safe Operations

Accomplishments

- Continued pre-conceptual design activities, primarily focusing on the Design Requirements Document (DRD), Functions and Operational Requirements (F&OR), and mass flow analysis.

- Continued activity for procuring an offsite A-E/CM contractor to perform the W-314 advanced conceptual design and subsequent definitive design/construction management work. A-E/CM evaluations are currently underway and candidate firms are being short listed.

TPA Milestones M-43-02, -04, -05, and -06
Tank Farm Restoration and Safe Operations

Planned Actions (Next 6 Months)

- Complete A-E/CM evaluation and pre-letter order activities - May 1995

- Complete W-314 pre-conceptual design documentation, including Design Requirements Document (DRD), Draft Functions and Operations Requirements (F&OR), and preliminary energy/mass flowsheets - December 1994

- Obtain DOE-HQ approval of Key Decision 0 — ASAP (January 1995, Late since July 1994)

- Initiate W-314 conceptual design development work — January 1995 (Late pending KD#0)

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TPA Milestones M-43-02, -04, -05, and -06
Tank Farm Restoration and Safe Operations

Special Topics

- Concerns

  - The delay in obtaining DOE-HQ approval of Key Decision 0 has now gone past the point where TPA schedule is recoverable. The following milestones will be slipped: Completion of conceptual design (M-43-02A and M-43-04A), and DOE validation of project funding (M-43-02-T06 and M-43-04-T05). Letter to WDOE has been submitted and received.

  - A one year schedule delay to the project is now certain. This will result in target milestone M-43-04-T07 "Start Definitive Design for W-314A" being slipped from January 1996 to January 1997. Impacts to completing Definitive Design by November 1998 (M-43-04-T07) is also certain.

TPA Milestones M-43-02, -04, -05, and -06
Tank Farm Restoration and Safe Operations

Special Topics

- Cost/Schedule Assessment (FY 94 and FY95 through 11/30/94)

	Current Period Nov. 1 — Nov. 30
Budgeted Cost Work Performed (BCWP)	$997K
Budgeted Cost Work Scheduled (BCWS)	$1,301K
Actual Cost Work Performed (ACWP)	$1,106K

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TRI-PARTY AGREEMENT MILESTONES

WASTE TANK SAFETY PROGRAM

STATUS REPORT AS OF: 11/30/94

FY 1994 TPA milestones -- 9 of 9 scheduled (100%) were completed on or ahead of schedule.
Fy 1995 TPA Milestones -- 5 scheduled; 2 are on schedule and 3 are ahead of schedule.

No.	Title	Due	Status	Remarks
M-40-01	Complete Tank 241-SY-101 Low Speed Mixer Pump Test. (Interim to SI-2g23 - 09/94)	03/94	Completed 03/17/94 ⊕	Completion of this TPA milestone was documented by WHC in a letter to RL dated March 17, 1994.
M-40-14	Close Ferrocyanide Unreviewed Safety Question. (SI-2s13 - 01/94)	03/94	Completed 03/01/94 ⊕	Completion of this TPA milestone was documented by WHC in a letter to RL dated March 28, 1994.
M-40-16	Complete Sampling and Safety Evaluation of Liquid Organic in Tank 241-C-103. (SI-2q15 - 03/94)	03/94	Completed 03/31/94 ●	Completion of this TPA milestone was documented by WHC in a letter to RL dated March 31, 1994.
M-40-17	Close Tank 241-C-103 Unreviewed Safety Question. (SI-2j16 - 03/94)	05/94	Completed 05/19/94 ⊕	Completion of this TPA milestone was documented by WHC in a letter to RL dated May 25, 1994.
M-40-11	Close the Unreviewed Safety Question for the Criticality Issue. (SI-2w17 - 03/94)	06/94	Completed 03/17/94 ⊕	Completion of this TPA milestone was documented by WHC in a letter to RL dated April 6, 1994.

Status:
⊕ Ahead of Schedule
● On Schedule
⊖ Behind Schedule
↑ Improving Schedule
↓ Deteriorating Schedule

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No.	Title	Due	Status	Remarks
M-40-06	Complete Vapor Sampling Characterization of Tank 241-C-103 (Phase 2) (SI-2m18 - 06/94)	08/94	Completed 08/10/94 ⊕	Completion of this TPA milestone was documented by WHC in a letter to RL dated August 10, 1994.
M-40-13	Design and Fabricate a Spare Mixer Pump for Tank 241-SY-101.	09/94	Completed 07/27/94 ⊕	Completion of this TPA milestone was documented by WHC in a letter to RL dated September 22, 1994.
M-40-15	Install Gas Monitoring Equipment in the Remaining Five Potentially Flammable DSTs. (Interim to SI-2h36 - 04/95)	09/94	Completed 09/27/94 ●	Completion of this TPA milestone was documented by WHC in a letter to RL dated September 27, 1994.
M-40-02A	Develop Criteria for Upgrading Temperature Monitoring Capabilities in Ferrocyanide Tanks.	09/94	Completed 09/13/94 ⊕	Completion of this TPA milestone was documented by WHC in a letter to RL dated September 13, 1994.
M-40-02B	Install Two of Seven New Thermocouple Trees.	04/95	⊕	A new TC was installed in tank 107-T on 11/10/94. ATPs have been completed on the TCs to be installed in tanks 103-B& and 103-TY.
M-40-04-T01	Reach Decision to Interim Stabilize Tank 241-C-103 With Floating Organic Layer In Place or Proceed With Removal of Floating Organic Layer.	04/95	●	TPA Change No. M-40-94-05 was approved on 10/12/94. Studies are underway to determine whether the organic layer can be left in placed for interim stabilization or that it must be removed and either transferred to the DST system or disposed of before interim stabilization pumping can begin.

Status: ⊕ Ahead of Schedule ↑ Improving Schedule
● On Schedule ↓ Deteriorating Schedule
⊖ Behind Schedule

No.	Title	Due	Status	Remarks
M-40-07	Commence Operation of a Vapor Treatment System in Tank 241-C-103. (Interim SI-2n19 - 06/94)	06/95	● ↓	The procurement spec is going to be 30 days late due to the need to resolve sizing issues between the contractors. If a standardized container can be used then this time can be easily made back up.
M-40-02	Upgrade Temperature Monitoring Capabilities in Ferrocyanide Tanks.	09/95	⊕	(See M-40-02B)
M-40-05	Complete Safety Alternative Test in High-Heat Tank 241-C-106. (SI-2x38 - 06/95)	09/95	⊕	The evaluation of an air-chiller as a contingency option has begun and is expected to be completed by the end of May.
M-40-03	Perform Vapor Characterization for all Ferrocyanide Watch List Tanks. (SI-2o37 - 06/95)	11/95	⊕	Five of eleven ferrocyanide tanks scheduled for characterization in FY 1995 have been sampled.
M-40-08	Perform Vapor Characterization for all Organic Watch List Tanks. (SI-2o37 - 06/95)	11/95	⊕	Twelve organic tanks are scheduled for sampling in FY 1995.
M-40-04-T02	Remove Organic Layer Directly to Double Shell Tank System.	7/96	●	(See M-40-04-T01) If the decision supports removal of the organic layer to the DST system then this target milestone will become operative. If not, it will be deleted.

Status:
⊕ Ahead of Schedule
● On Schedule
⊖ Behind Schedule
↑ Improving Schedule
↓ Deteriorating Schedule

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No.	Title	Due	Status	Remarks
M-40-04	Complete Removal of Floating Organic Layer from Tank 241-C-103.	12/96	●	(See M-40-04-T01) If the decision supports removal of the organic layer for disposal then this milestone will become operative. If not, it will be deleted.
M-40-10	Complete Vapor Space Monitoring of all Flammable Gas Generating Tanks.	01/97	⊕↑	Completed site installation design for T Tank Farm. Continuing installation design on U Tank Farms Continuing site installation in S and SX Tank Farms.
M-40-09	Close all Unreviewed Safety Questions (USQ) for Double-Shell & Single-Shell Tanks.	09/98	⊕	One USQ (flammable gas tanks) is outstanding. The changes to the authorization basis for 101-SY were submitted to RL on 09/30/94.
M-40-12	Resolve Nuclear Criticality Safety Issue.	09/99	●	A new strategy is under development for resolving this safety issue sooner and at less cost.
M-40-00	Mitigate/Resolve Tank Safety Issues for High Priority Watch List Tanks.	09/01	●	

<u>Status:</u> ⊕ Ahead of Schedule ↑ Improving Schedule
● On Schedule ↓ Deteriorating Schedule
⊖ Behind Schedule

Handout 6 #6

VAPOR PROGRAM UPDATE

presented to
Unit Managers Meeting

by
J. W. (Jerry) Osborne, Manager
Tank Vapor Issue Resolution Program
Westinghouse Hanford Company
December 7, 1994

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TANK VAPOR CHARACTERIZATION STATUS REPORT

Tank #	Watch List	Driver	Type of Sample	Sample Date	
AN-107	H	Vapor Screening	2	☎ 12/17/94	
BX-104		Vapor Screening	* 3	01/19/92 ☎ 12/30/94	
BY-103	F	Vapor Screening TPA (M-40-03) ¦ SI (2o)	2 3	05/5/94 11/1/94	
BY-104	F	Vapor Screening Vapor Screening RMCS ¦ TPA (M-40-03) ¦ SI (2o)	* 2 3	12/29/92 04/22/94 06/24/94	
BY-105	F	Vapor Screening RMCS ¦ TPA (M-40-03) ¦ SI (2o)	2 3	05/09/94 07/07/94	
BY-106	F	Vapor Screening RMCS ¦ TPA (M-40-03) ¦ SI (2o)	2 3	05/04/94 07/08/94	
BY-107	F	Vapor Screening TPA (M-40-03) ¦ SI (2o)	2 3	03/25/94 10/26/94	
BY-108	F	Vapor Screening TPA (M-40-03) ¦ SI (2o)	2 3	03/28/94 10/27/94	
BY-109	F	Vapor Screening	2	09/22/94	
BY-110	F	TPA (M-40-03) ¦ SI (2o)	3	11/10/94	
BY-111	F	Vapor Screening TPA (M-40-03) ¦ SI (2o)	2 3	05/11/94 11/14/94	
BY-112	F	TPA (M-40-03) ¦ SI (2o)	3	11/16/94	
C-101		Vapor Screening SI	2 3	07/01/94 09/01/94	
C-102	O	SI (2o)	3	08/23/94	
C-103	O	Vapor Screening Vapor Screening TPA (M-40-08) ¦ SI (2o) TPA (M-40-08) ¦ SI (2o) TPA (M-40-08) ¦ SI (2o) TPA (M-40-08) ¦ SI (2o)	* ** 2 3 3 3	3 4/5 6 6B 7A 7B	08/11/92 11/16/93 12/17/93 01/28/94 04/08/94 05/25/94
C-104		RMCS ¦ SI	3	03/03/94	
C-105		RMCS ¦ SI	3	02/16/94	
C-106	HH	RMCS ¦ SI	3	02/15/94	

TANK VAPOR CHARACTERIZATION STATUS REPORT

Tank #	Watch List	Driver	Type of Sample	Sample Date
C-107		Vapor Screening	2 3	06/16/94 09/29/94
C-108	F	Vapor Screening Vapor Screening TPA (M-40-03) | SI (2o)	** 2 3	07/23/93 07/07/94 08/05/94
C-109	F	Vapor Screening TPA (M-40-03) | SI (2o)	2 3	06/23/94 08/09/94
C-110		SI	3	8/24/94
C-111	F	Vapor Screening Vapor Screening TPA (M-40-03) | SI (2o)	** 2 3	08/12/93 06/20/94 09/13/94
C-112	F	Vapor Screening TPA (M-40-03) | SI (2o)	2 3	06/24/94 08/11/94
TX-105	O	TPA (M-40-08) | SI (2o)	3	☞ 12/17/94
TX-118	F/O	Vapor Screening Vapor Screening	** 2 3	07/28/93 09/01/94 ☞ 12/18/94
TY-101	F	Vapor Screening	2	08/04/94
TY-103	F	Vapor Screening	2	08/04/94
TY-104	F	Vapor Screening	2	08/05/94
U-106	O	Vapor Screening	2	08/25/94

SAMPLE TYPE:

* Vapor samples taken downstream of tank primary HEPA filter utilizing vapor sampling cart.

** Vapor samples taken from in-tank, non-heated tubes utilizing vapor sampling cart (SUMMA only -- no NH_3).

1 Gas and vapor monitoring performed by IH technicians to evaluate the flammability and/or worker health conditions of a waste tank. This includes headspace monitoring by the IH technicians.

2 In situ gas and vapor sampling performed by FAS. This type of sampling is performed by lowering gas and vapor collection devices into the tank headspace, and requires a handcart of equipment.

3 Gas and vapor sampling performed by FAS personnel using the VSS. This involves the mobile vapor sampling laboratory, heated transfer lines, and usually the installation of a water-heated vapor sampling probe in the tank.

☞ Scheduled vapor sampling within next 30-day window.

Complete Closure of All Single Shell Tank Farms
Milestone M-45-00

W.R. Wrzesinski, DOE-RL

December 8, 1994 Telecon

1) M-45-01 Develop SST Retrieval Technology (September 1994)

   - Video illustrating milestone accomplishment.

2) M-45-07A Complete Evaluation of Sub-Surface Barrier Feasibility (September 1994)

   - Proposed agenda item for December 22, 1994 Project Managers Meeting.
   - Information requested from Ecology to support decision. *(Status - information planned for completion by 12/20)*

     1) External Panel Report providing summary recommendations consistent with November 9 presentation.
     2) Response to question raised during November 9 presentation e.g., impact to study results due to large tank leaks.
     3) Abbreviated "ten pager" version on the results of the study for the Project Managers Meeting.
     4) Information on present barrier activities being pursued within the DOE complex.

   - EPA participation.

3) M-45-03A Initiate Sluicing Retrieval of C-106 (October 1997)

   - Project MRM Presentation November 17, 1994.
   - Equipment Removal System (ERS) equipment testing. *(Pictures)*

4) M-45-03T2 Final Retrieval Demonstration of C-102 (June 2002)

   - Project MRM Presentation November 17, 1994

5) Waste Retrieval Program Budget

   - FY 95 Proposed Budget Impacts, DSI dated November 10, 1994

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