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Meeting Minutes Transmittal/Approval
Unit Managers Meeting: Single Shell Tanks & Double Shell Tanks
2704HV/Room G206
200 East Area Hanford Site, Washington

August 8, 1995

- Appvl: Wendell R. Wrzesinski Date: 11/1/95
Wendell R. Wrzesinski, SST Unit Manager, DOE-RL
- Appvl: Scott E. McKinney Date: 12/12/95
Scott McKinney, SST Unit Manager,
WA Department of Ecology
*EPA HAS DEFERRED APPROVAL TO ECOLOGY,
PER KEVIN OATES' MESSAGE, 10/25/95*
- Appvl: Kevin J. Oates Date: _____
Kevin J. Oates, SST Unit Manager, EPA Region X
- Appvl: Casey O. Ruud Date: 11/7/95
Casey O. Ruud, DST Unit Manager, DOE-RL
- Appvl: Laura J. Cusack Date: 11/13/95
Laura J. Cusack, DST Unit Manager,
WA Department of Ecology
- Appvl: Mardine P. Campbell Date: 12/12/95
Mardine P. Campbell, WHC, Coordinator
Representative

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 - Complete Closure of All Single-Shell Tank Farms (M-45)
- Handout 2 - Single-Shell Tanks Interim Stabilization/Isolation (M-41)
- Handout 3 - Tri-Party Agreement Milestones (Waste Tank Safety Program, M-40)
- Handout 4 - Safety Engineering, Waste Tank Safety Program, Cost/Schedule Assessment (M-40-02, M-40-05)
- Handout 5 - Double and Single-Shell Tank Characterization (M-44)
- Handout 6 - Provide Additional Double-Shell Tank Capacity (M-42)
- Handout 7 - Replacement of Cross-Site Transfer System (M-43-07)
- Handout 8 - DST Permitting Update



DOUBLE SHELL TANKS/SINGLE SHELL TANKS
UNIT MANAGERS MEETING

MEETING SUMMARY/SUMMARY OF ACTION ITEMS AND AGREEMENTS

August 8, 1995

Special Notes:

The Single-Shell Tank/Double-Shell Tank Unit Managers Meetings are being moved to the second Wednesday of every other month. The next meeting will be held on October 11, 1995, with the location and time to be decided at a later date.

M-45 SST/DST Retrieval/Closure (W. Wrzesinski & T. Hoertkorn) [Handout 1]

The responsibilities for SST and DST Retrieval/Closure have been split. Mr. Tom Hoertkorn will be the RL contact for SST Retrieval/Closure. Mr. Wendell Wrzesinski is the RL contact for DST Retrieval. Mr. Wrzesinski provided an update on the SST Retrieval/Closure program.

TPA Milestone M-45-03A: Initiating sluicing retrieval of C-106 is on schedule to meet the Secretarial Initiative of October, 1996, 1 year ahead of the scheduled TPA Milestone date. Key Decision 3 "Approval for Construction" has been delegated to the field on this milestone. John Wagoner (RL) has signature authority. All other local key decisions for M-45-03A were delegated to the field approximately 1 year ago. Environmental Assessment approval was obtained in February, 1995.

The last of the outstanding Non-Rad NOCs for Phase II Air Permitting were transmitted to Mr. Bob King (Ecology) July 28, 1995.

The air chiller contract for C-106 was awarded August 1, 1995. Ecology and The Chemical Reaction Technical Advisory Panel have advised installation of the chiller as soon as possible.

- Action:** The Retrieval/Closure program will coordinate with the Safety program to expedite the installation of the air chiller (W. Wrzesinski - ASAP).
- Action:** A new RL TWRS organization chart will be added to the August SST/DST UMM meeting minutes (M. Campbell - 10/11/95).
- Action:** RL will fax a status update to Ecology on the MWT Path Forward and Retrieval (W. Wrzesinski - ASAP).

Closure Work Plan: The SST closure work plan discussion on the document provided by Mr. Ed Fredenburg was deferred.

M-41 Interim Stabilization/Isolation (D. Engelman) [Handout 2]

Mr. D. Engelman presented the Interim Stabilization/Isolation Milestones status.

Pumping Status: During the month of July, tanks 241-C-102, -107, and -BY-109 were still being pumped.

Accomplishments: Approximately 14,000 gallons were transferred through overground piping from tank BX-106 to the pump pit of BX-109, and then to 244-BX DCRT. This double-contained overground pipe is RCRA approved. The pipe will be decontaminated, taken apart and stored for future transfers if needed. This overground pipeline might be required for future transfers from S Tank Farm, which currently has two failed lines.

The underground piping in S Tank Farm will be pressure tested sometime in the October-November time frame. Pressure tests for BX and BY Tank Farms have been completed. No pressure drops beyond specified limits were experienced over the 1 hour period.

Action: RL will provide pressure test results from BX and BY Single-Shell Tank Farms to Ecology (RL - ASAP).

The closeout report for Interim Stabilization of Tank BX-106 has been completed.

Current Activities: Pumping of Tank BY-103 began on August 5, 1995.

Concerns: Additional requirements have been added for Tanks BY-103, -106, -109, and C-107, as they are now being treated as flammable gas watch list tanks. Operations are being performed as such, including the installation of flammable gas monitors.

A video was shown on Tank BY-105. The video displayed the interior of the tank, clearly showing the portland cement which was blocking the existing salt well screen. Several alternatives were discussed. Some of them may require several weeks to several months to implement. Due to uncertainties with tank BY-105, milestone M-41-12, due August 31, 1995 may be missed. A TPA Change Request will be prepared to delete BY-105 from M-41-12.

Action: RL will submit a final milestone change request to Ecology by August 18, 1995 for Tank BY-105 (RL - 08/18/95).

M-40 Safety (G. Dukelow) [Handouts 3 & 4]

Mr. G. Dukelow distributed two handouts, and provided an update on the Tri-Party Agreement Milestones and the Cost/Schedule Assessment for the Waste Tank Safety Program.

M-40-07: Milestone M-40-07, "Commence Operation of a Vapor Treatment System in Tank 241-C-103", was completed on June 29, 1995. Operational testing is in process. Modifications are currently being made to the stack.

M-40-02B: Ecology audited records, including review of the TMACS computer outputs for the two thermocouple trees installed for this target milestone. A letter will be issued from Ecology to RL stating Ecology's satisfaction with the installation.

Action: The Safety program will coordinate with the Retrieval/Closure program to expedite the installation of the air chiller in Tank 241-C-106 (B. Cash - ASAP).

Action: Ecology is to send formal letters to RL with comments on Vapor TCR Chapters (A. Stone - 09/08/95) (Milestones M-40-03 and M-40-08).

M-40-09: DOE-RL comments were incorporated into the Unreviewed Safety Question Safety Review Form for closure of the Flammable Gas USQ on 101-SY, and transmitted to RL on July 31, 1995. DOE-RL will be holding a DOE Headquarters briefing in August.

Special Note: In the future, Ecology requests notification of interim steps that affect long-term milestones.

Cost/Schedule Assessment: TPA Milestone M-40-02 is under budget and ahead of schedule.

Action: Transmit a copy of the PNL Report Correlation between surface level and barometric pressure to Ecology (RL - not specified).

Action: The Safety Program will provide a WBS to Ecology, including any other budget information more recent than fiscal year 1996, i.e., FY 1997 and out-year budget information (RL - ASAP).

M-44 Characterization (P. Hernandez) [Handout 5]

Paul Hernandez distributed handout 5 and provided an update on Double and Single-Shell Tank Characterization.

Accomplishments: During mid-year review, it was concluded that the current burn rate would exceed available funds. WHC has corrected this problem, and the work will be completed on budget. A complete financial status and description of the corrective actions taken was provided to RL on June 30, 1995.

Sampling: Only a few core samples were analyzed in July, as sampling techniques were being evaluated. Rotary core samples are behind due to the availability and reliability of the sampling truck.

Planned Activities: An increased number of tanks have had flammable gas watch list controls placed on them by OSD-30. This will affect the Characterization Program, as the rotary system is currently unable to sample these tanks in the rotary mode. A project is in progress on an urgent basis to permit rotary sampling in tanks that have flammable gas controls placed on them.

Ecology has reservations with some of the Tank Characterization Reports (TCRs) due to their data content (i.e., not enough data). Fulfillment of TPA milestone M-44-08 is dependent on TCR data. It is Ecology's opinion that the TPA Milestone due date of September 30, 1995 is in jeopardy due to TCR content.

Ecology asked if the results of the rotary core sampling technique evaluation period that is ongoing would be documented. WHC responded that the lessons learned would be incorporated into the Operating Procedures.

Action: The Characterization Program will follow up on possible issuance of new procedures generated from sampling/learning exercises (RL - not specified).

Issues/Problems: Vapor analyses quality concerns at Oak Ridge National Laboratory were discovered. WHC has satisfied themselves that the data is good to use. RL is reviewing the issue.

Action: Ecology will transmit a cc:Mail to the Safety Program on Ecology's review of the Oak Ridge National Laboratory vapor analysis data (A. Stone - not specified).

Action: The Interim Stabilization Program will provide a presentation at the next UMM for work done in the 200 West Area on the complexed waste issue (D. Engelman - 10/11/95).

Action: The Characterization Program will provide a WBS to Ecology, including any other budget information more recent than fiscal year 1996 (RL - ASAP).

M-42 Multi-Function Waste Tank Facility (J. Couey) [Handout 6]

Mr. J. Couey distributed handout 6 "Provide Additional Double-Shell Tank Capacity", and provided a brief update on the Multi-Function Waste Tank Facility.

M-43-07 Replacement of Cross-Site Transfer System (J. Couey) [Handout 7]

Mr. J. Couey distributed handout 7, and provided an update on the Cross-Site Transfer System.

Planned Actions: Kaiser will have the C3 package "Diversion Boxes" out for review by August 18, 1995. Completion of final review from RL is tentatively expected by August 31, 1995 in order to meet target milestone M-43-07-T01, "Complete Definitive Design".

Action: Ecology has requested all Definitive Design packages as soon as they are available (RL - ASAP).

An option based contract will be awarded for the C1 package. The first option is for submittals, design and potholing. The second option is for the

remainder of the contract for pipe procurement and construction. The contract will be awarded before November 10, 1995.

Issues: There will be a clarification on the definition of milestone completion for TPA milestone M-43-07A "Start of Construction" between RL and Ecology. Currently, RL and Ecology are not in agreement regarding the clarification proposed by Ecology.

DST Part B Permit Application Update (K. Elsethagen) [Handout 8]

Ms. K. Elsethagen distributed handout 8 "DST Permitting Update" and provided a brief status of the DST Part B Permit Application.

Planned Actions: Chapters 7 "Contingency Plan" and 13 "Other Relevant Laws" are on schedule to be submitted for review to Ecology and EPA on August 8, 1995. An updated copy of appendix 7a "Tank Farms Building Emergency Plan" will be given to Ecology and EPA on August 10, 1995 to aid in their review. A listing of non-applicable sections of appendix 7a are included as a cover sheet to the appendix.

Action: EPA will send a copy of the RD&D Permit to Ecology and WHC with specific wording on excluding sections of appended documents in a permit (D. Duncan - not specified).

Chapter 8 "Personnel Training" is on schedule to be submitted to Ecology and EPA on August 23, 1995. It will also be accompanied by its appendix "Tank Waste Remediation Systems Plant, Dangerous Waste Training Plan" Rev. 2.

Action: Ecology requested additional data for Tank Integrity Assessments before the August 22, 1995 meeting with the Tank Structural Integrity Panel (S. Barry - ASAP).

Operations Update (D. Alison)

Mr. D. Alison provided an update on operations related issues.

Cross-Site Transfer: The 200 West to 200 East Cross-Site Transfer was successfully completed, transferring 435,160 gallons. The transfer carried a 1.78 inch mass balance deficiency due to line hold-up and fill. The final mass balance resulted in a 0.48 inch gain. The FIC in Tank 104-AP is +/-0.25 inches which could account for part of the gain.

There were no signs of level increases in the catch tanks. ER-311 showed a 0.2 inch level discrepancy, which is within the 0.3 inch tolerance. 244-A showed a 1.0 inch discrepancy rise during transfer. However, 1.0 inch rises have been seen without transfers going on due to error in the dip-tube system, which is very subject to instrument drift.

The active form of leak detection during transfer in UX-302 was with a video camera. The leak detectors in pit SY-02A were set too sensitive, which caused flickering and master pump shutdown. The cause of the shutdown was investigated and remediated.

All of the test risers along the transfer route were video inspected. During line fill, the odd number test risers were video inspected. The even number test risers were inspected during pressure testing. All of the test risers were again inspected after the transfer.

The completion of the cross-site transfer has increased the free space in Tank SY-102 to 765,000 gallons.

242-A Evaporator: The 242-A Evaporator Campaign for 1995 has been completed. The Evaporator reduced the volume of liquid in the tank farms by 2.19 million gallons. Total effluent sent to LERF was decreased from the previous campaigns.

Issue: Ecology does not agree with the 5% allowance criteria used for pressure testing. This disagreement will require further discussion.

SINGLE-SHELL TANKS/DOUBLE-SHELL TANKS
UNIT MANAGERS MEETING
2704HV/G206
AUGUST 8, 1995

AGENDA			
Begin Time	End Time	Subject	Presenter
9:30	10:00	M-45 Retrieval/Closure	W. Wrzesinski
10:00	11:00	M-41 Interim Stabilization	D. Engelman
11:00	11:15	M-40 Safety	G. Dukelow
11:15	11:45	M-44 Characterization	J. Thompson
11:45	12:30	Lunch	
12:30	12:45	M-42 Multi-Function Waste Tanks	J. Couey
12:45	1:00	M-43 Cross-Site Transfer Lines	J. Couey
1:00	1:10	DST Permitting Briefing	K. Elsethagen
1:10	2:00	Operations Briefing	D. Alison
2:00	2:10	Signing of Meeting Minutes	
2:10		Adjournment	

SINGLE-SHELL TANKS/DOUBLE-SHELL TANKS
UNIT MANAGERS MEETING
2704HV/G-206
AUGUST 8, 1995

Name	Organization	MISN	Phone
WENDELL WRZESINSKI	DOE - RL		376-6751
T.R. LICHTKERN	DOE-RL		372-6609
M.P. Campbell	WHC-EC TWRS		373-1131
Tom Rainey	WHC-TFTP		373-3531
DB Engelman	WHC-TWRS		373-3452
MW Stevenson	WHC-TAAI	B2-35	376-9668
Luis Soler	GSSC-EAP	B1-42	946-3680
DALE JACKSON	DOE-RL/TEP	A5-15	376-4851
Stan Barry	GSSC-TOP	S7-73	376-0889
Steve Lijek	GSSC-PRZ	R3-77	373-7946
Greg Morgan	DOE-RL-TWRS	S7-54	373-2346
Marcus Glasper	DOE-RL/TOP	S7-54	372-2038
Judy Burton	WHC-TWRS	SB-05	373-2869
Jack Donnelly	Ecology		736-3013
Norm Hepner	Ecology		736-3018
Laura Cosick	Ecology		736-3038
Alex Stone	Ecology		736-3018
Alison D. Huckaby	Ecology		736-3034
MARY ANN McLAUGHLIN	WHC/TPA	B2-35	376-4084
CAROLYN HARRIS	RL-TWRS	S7-51	372-2731
GARY DUKELOW	WHL/SB	S7-15	373-4479
DENNIS IRBY	RL-TSD	S7-59	376-5652
Mary Jarvis (Safety talk only)	RL-TSD	S7-54	376-4550
Stanley Branch	RL-TSD	S7-54	376-9450
Gary Rosenwald	RL-TSD	S7-54	376-5349
David Forehand (char. only)	WHC-TWRS/char	S7-21	373-6595
LARRY PENNINGTON	WHC	S7-21	376-1863

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

W.R. Wrzesinski, DOE-RL

August 8, 1995

- 1) SST Retrieval to be managed by Tom Hoertkorn
- 2) M-45-03A Initiate Sluicing Retrieval of C-106 (October 1997)
 - Schedule and cost rebaseline complete
 - Key Decision 3 (Approval for Construction)
Project received approval from TWRS Program Manager
To present to Site Evaluation Board prior to presenting to RL Manager on August 14, 1995
 - Non-Rad NOC for Phase II Air Permitting; July 28, 1995 transmittal
 - Chiller Award August 1, 1995; November 28, 1995 expected delivery
- 3) MYPP Review with regulators prior to August 17, 1995
 - Waste Retrieval Statement of Work per July guidance meetings
- 4) Closure Work Plan
 - Briefing of document provided by Ed Fredenburg

Single-Shell Tanks

Interim Stabilization/Isolation

Single-Shell Tank Unit Managers Meeting

August 8, 1995

D. B. ENGELMAN

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PUMPING STATUS

Interim Stabilization

- 241-C-102 pumped 6.9K gal.; total pumped 38.0K gal.
- 241-C-107 pumped 4.2K gal.; total pumped 28.2K gal.
- 241-BY-109 pumped 4.9K gal.; total pumped 43.7K gal.

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ACCOMPLISHMENTS

- **241-BX-106 (M-41-12)**
 - **Pumping started 07/09/95 (53 days ahead of schedule).**
 - **14K gallons pumped.**
 - **Pumping complete 07/14/95.**
 - **Declared Interim Stabilized (Part of M-41-12-T01).**
 - **This completes pumping the tank with the highest risk of leaking.**

- **241-BY-103, -105, -106 (M-41-12)**
 - **Pumps installed BY-103 and BY-106**

CURRENT ACTIVITIES

- **Pumping 241-BY-109
(M-41-01-T2)**
- **Performing stabilization evaluation--241-C-102 and -107
(M-41-01-T2)**
- **Continuing procurement of HLLW Cask
(M-41-03B)**
- **Preparing to pump 7 Non-Watch List tanks in 241-S Farm
(M-41-09)**
- **Preparing to pump 3 tanks in 241-BY Farms
(M-41-12)**
- **Starting preparations to pump 2 tanks in 241-A and
AX Farms
(M-41-10)**

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SPECIAL TOPICS**Cost/Schedule Assessment**

<u>Note:</u> Dollars in Thousands	Cumulative to Date	At Completion
Budgeted Cost of Work Performed (BCWP)	\$8,839.0	
Budgeted Cost of Work Scheduled (BCWS)	9,427.0	10,599.0
Actual Cost of Work Performed (ACWP)	8,959.4	
Variances		
Schedule	-588.0	
Cost	-120.4	
Funding Spending Limit		9,368.0 \$11,170.0

- Cost Accounts 1N1E51, 1N1E52, 1N1E53, 1N1E54, and 1N1E55

ISSUES/CONCERNS

CONCERN

- Tanks 241-BY-103, -BY-106, -BY-109, and -C-107 being treated as flammable gas watchlist tanks.

Should not cause delays in completion of M-41-01-T02 and M-41-12.

ACTIONS

- Perform operations in tanks as if flammable gas watchlist tanks.

Install flammable gas monitors.

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ISSUES/CONCERNS

CONCERN

- **Tank 241-BY-105 existing saltwell screen blocked. Portland cement on surface.**

Milestone may be in jeopardy due to uncertainties.

ACTIONS

- **Try to install screen and pump. Fabricating high pressure lance on saltwell screen.**

ISSUES/CONCERNS**MILESTONE M-41-01-T02
Complete Interim Stabilization by 11/30/95**

TANK NUMBER	ISSUE
241-BY-102	N/A (Interim stabilization complete)
241-BY-109	Treated as if flammable gas WLT
241-C-102	N/A (Pumping may be complete)
241-C-107	Treated as if flammable gas WLT (Pumping may be complete)
241-C-110	N/A (Interim stabilization complete)

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ISSUES/CONCERNS**MILESTONE M-41-12
Start Interim Stabilization by 08/31/95**

TANK NUMBER	ISSUE
241-BX-106	N/A (Interim stabilization complete)
241-BY-103	Treated as if flammable gas WLT [No impact to milestone (pumping)]
241-BY-105	Portland cement
241-BY-106	Treated as if flammable gas WLT Treated as if organic WLT (No impact to milestone)

**TRI-PARTY AGREEMENT MILESTONES
WASTE TANK SAFETY PROGRAM**

STATUS REPORT AS OF: 07/31/95

FY 1994 TPA milestones -- 9 of 9 scheduled (100%) were completed on or ahead of schedule.
 FY 1995 TPA Milestones -- 3 of 3 milestones have been completed ahead of schedule.
 2 remaining milestones; both are on/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 † Improving Schedule
 ● On Schedule ‡ Deteriorating Schedule
 ⊖ Behind 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	Completed 04/13/95 ⊕	Completion of this TPA milestone was documented by WHC in a letter to RL dated April 13, 1995.
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.	05/15/95	Completed 04/28/95 ⊕	Completion of this TPA milestone was documented by WHC in a letter to RL dated April 28, 1995. A change request has been sent to Ecology, deleting milestones M-40-T02 and M-40-04.

Status: ⊕ Ahead of Schedule † Improving Schedule
 ● On Schedule ‡ Deteriorating Schedule
 ⊖ Behind Schedule

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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	Completed 06/29/95 ●	Completion of this TPA milestone was documented by WHC in a letter to RL dated June 29, 1995.
M-40-02	Upgrade Temperature Monitoring Capabilities in Ferrocyanide Tanks.	09/95	●	TC tree installations were completed for 108-BY, 101-TY and 111-C in July; they will be connected to TMACS in August. TMACS connections have been completed for 241-TY-101, 241-TX-118 and 241-BY-107, with OTPs to follow. Two additional TC trees are to be installed in August to complete the installations.
M-40-05	Complete Safety Alternative Test in High-Heat Tank 241-C-106. (SI-2x38 - 06/95)	09/95	⊕	A letter report was sent to DOE on May 31, 1995, which included the following: (1) a letter report documenting completion of the process contingency cooling test (and results); and (2) completion of the alternative contingency system design study and contingency action plan. These studies will provide the basis for completing this milestone. The report for providing the information necessary to develop a safe operating envelope for 106-C is on schedule to be submitted to DOE by August 15. The report will include a recommendation for the minimum tank operating levels.

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

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No.	Title	Due	Status	Remarks
M-40-03	Perform Vapor Characterization for all Ferrocyanide Watch List Tanks. (SI-2o37 - 06/95)	11/95	⊕	All eleven ferrocyanide tanks scheduled for characterization in FY 1995 have been sampled and analyzed. Tank characterization report chapters on 18 ferrocyanide tanks were transmitted to DOE on May 31, 1995. Resolution of quality assurance issues remain.
M-40-08	Perform Vapor Characterization for all Organic Watch List Tanks. (SI-2o37 - 06/95)	11/95	⊕	All original nine (Group A) organic watchlist tanks have been sampled and analyzed in FY 1995. In addition, 9 of 11 Group B organic watchlist tanks have been sampled to date.
M-40-04-T02	Remove Organic Layer Directly to Double Shell Tank System.	7/96	Deleted 06/28/95	Change request M-40-95-01 was approved, which deleted this milestone.
M-40-04	Complete Removal of Floating Organic Layer from Tank 241-C-103.	12/96	Deleted 06/28/95	Change request M-40-95-01 was approved, which deleted this milestone.
M-40-10	Complete Vapor Space Monitoring of all Flammable Gas Generating Tanks.	01/97	⊕	All monitors have been initially placed into operation, however, debugging is ongoing. Some grab samples have been taken to correlate with the instrument readings. A and AX Farm units have not yet been calibrated.

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

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No.	Title	Due	Status	Remarks
M-40-09	Close all Unreviewed Safety Questions (USQ) for Double-Shell & Single-Shell Tanks.	09/98	⊕	One USQ (flammable gas tanks) is outstanding. A letter was submitted to DOE on June 12, 1995, providing documentation for closure of the 101-SY USQ. It includes the updated interim safety basis and the LANL document that summarizes the safety issues associated with tank 101-SY, and the safety assessment performed for the installation, operation and removal of the mixer pump. DOE-RL comments were incorporated into the Unreviewed Safety Question Safety Review Form for closure of the Flammable Gas USQ on 101-SY and transmitted to RL on July 31.
M-40-12	Resolve Nuclear Criticality Safety Issue.	09/99	●	A strategy is in work for resolving this safety issue. The appropriate portion of the draft ASA has been revised. The procedure for waste transfers are reviewed for safety implications as transfers are proposed. Analyses of core samples for total alpha continue. In addition, representative tanks are being selected for additional analyses for plutonium and heavy metals.
M-40-00	Mitigate/Resolve Tank Safety Issues for High Priority Watch List Tanks.	09/01	●	Schedules are being developed to provide a recommendation to DOE in FY 96 for resolution of the Ferrocyanide safety issue.

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

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**SAFETY ENGINEERING
WASTE TANK SAFETY PROGRAM
COST/SCHEDULE ASSESSMENT FOR TPA MILESTONE
FOR REPORTING PERIOD, JULY 1995**

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TPA Milestone M-40-02
Upgrade Temperature Monitoring Capabilities in Ferrocyanide Tanks

Cost/Schedule Assessment

Note: Dollars in Thousands	Current Period July 1995	Cumulative to Date FY 1995	At Completion FY 1995
Budget Cost Work Performed (BCWP)	265.2	1911.9	
Budget Cost Work Scheduled (BCWS)	200.6	1822.7	2171.4
Actual Cost Work Performed (ACWP)	207.4	1110.8	
Variances:			
Cost	57.8	801.1	
Schedule	64.6	89.2	

Note: Performance information is related to WHC ONLY. No other contractor information is included

Variance Explanations:

Cost:

The cost variance is due to efficiencies in preparation for, and installation of thermocouple trees which has resulted in lower than estimated costs. It is expected that the final cost will be significantly under budget.

Schedule:

The installations are approximately 1 month ahead of schedule which has resulted in a positive schedule variance.

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TPA Milestone M-40-05

Complete Safety Alternative Test in High-Heat Tank 241-C-106

Cost/Schedule Assessment

Note: Dollars in Thousands	Current Period July 1995	Cumulative to Date FY 1995	At Completion FY 1995
Budget Cost Work Performed (BCWP)	34.9	399.1	
Budget Cost Work Scheduled (BCWS)	43.6	397.3	693.8
Actual Cost Work Performed (ACWP)	45.3	576.2	
Variances:			
Cost	-10.4	-177.1	
Schedule	-8.7	1.8	

Note: Performance information is related to WHC ONLY. No other contractor information is included

Variance Explanations:

Cost:

The work to complete the TPA milestone is nearly complete and costs are expected to be near budget. The cost variance of \$-177.1 is due to an error in the scheduling system (a logic tie for an activity completed in early FY95 was removed and the activity, along with its associated BCWS and BCWP, slipped back into FY 94). Both the BCWS and BCWP should be \$218.K higher resulting in a minor cost variance of \$40.6K.

Schedule:

N/A

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**DOUBLE AND SINGLE-SHELL
TANK CHARACTERIZATION**

MILESTONE M-44-00

U.S. Department of Energy / Richland Operations Office

Paul Hernandez - U.S. DOE

Unit Managers Meeting

**August 8, 1995
Richland, Washington**

9613390.0601

DOUBLE AND SINGLE-SHELL TANK CHARACTERIZATION

MILESTONE M-44-00

TOPICS

- **Accomplishments**
- **Planned Activities**
- **Issues/Problems**
- **Weekly Sampling Activities**

ACCOMPLISHMENTS

- Tank Characterization Plans (TCPs), first issue or recent revisions, for the following tanks were issued in June and July:

Tank	Revision	Release Date
241-BY-110	Rev. 0C (Rotary)	06/05/95
Vapor Sampling and Analysis Plan	Rev. 0C (Vapor)	06/07/95
Vapor Sampling and Analysis Plan	Rev. 0D (Vapor)	06/12/95
241-S-107	Rev. 0A (Push)	06/21/95
241-B-204	Rev. 0 (Push)	06/22/95
241-BY-110	Rev. 0D (Rotary)	06/29/95
241-T-106 Auger Sampling and Analysis Plan	Rev. 0 (Auger)	06/29/95
241-T-106	Rev. 0 (Auger)	06/29/95

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Tank	Revision	Release Date
Compatibility Grab Sampling and Analysis Plan	Rev. 0 (Grab)	06/29/95
Vapor Sampling and Analysis Plan	Rev. 0E (Vapor)	06/29/95
241-T-108	Rev. 0 (Auger)	07/13/95
241-BY-108	Rev. 0D (Rotary)	07/19/95

Accomplishments (Continued)

- **The following tanks data were loaded into the electronic Tank Characterization Database (TCD) during June and July: 241-AX-102 (90 Day Auger), 241-C-202 (45 Day Auger), 241-C-203 (45 Day Auger), 241-C-111 (216 Day Core), 241-SX-113 (45 Day Auger), 241-TY-104 (216 Day Auger), and 241-B-103 (45 Day Auger).**
- **Rotary Mode Core Sample Trucks #3 and #4 were delivered to RL June 30. RL Independent Readiness Assessment was completed on July 13. Trucks are now deployed in Rotary Mode.**
- **Two additional experienced field drilling personnel were obtained to permit three shift drilling coverage. One is on medical disability. Attempting to locate a replacement.**

Accomplishments (Continued)

- **Characterization Strategy White Paper was submitted to RL on June 30. This was accompanied by Characterization Process, initial Characterization Basis, and status report on the Accelerated Safety Analysis documents.**
- **The Disposal Strategy and Disposal Data Quality Objectives were also issued on June 30.**
- **A response to RL on Characterization financial status was also issued on June 30.**

CHARACTERIZATION SAMPLING

June and July, 1995

Mode	JUNE				JULY			
	Tanks		Samples		Tanks		Samples	
	Plnd	Comp	Plnd	Comp	Plnd	Comp	Plnd	Comp
Rotary	1	0	1	0	0	0	1	2*
Push	2	2	4	5	0	1	0	2
Auger	2	2	2	3	0	1	0	3
Grab	8	3	8	3	2	0	2	0
Vapor	4	4	4	4	4	5	4	5

* One core from BY-110 and BY-108

Note: "Plnd" is from Schedule 4.3

Tanks Sampled During Months of June and July 1995

Push	B-101	Auger	A-102
	B-104		B-103
	B-106		T-108
Rotary	BY-108	Vapor	A-101
	BY-110		AX-101
			AX-102
Grab	S-102		AX-103
	U-105		S-112
	U-109		SX-101
			SX-102
			SX-104
			SX-105

Characterization Program Tank Sampling Status Summary

October 1, 1994 to July 28, 1995

	Tanks Scheduled/Completed	Samples Scheduled/Completed
Auger	18/21	36/40
Push	10/13	21/27
Rotary	6/0.5	12/2
Vapor	36/34	36/34
Grab	28/27	28/27

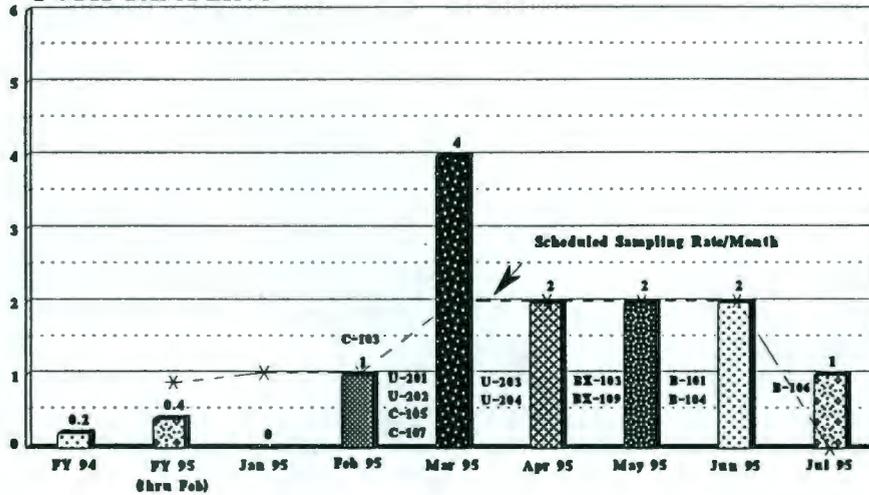
Notes:

Tank samples are counted as follows: Rotary, Push, and Auger 1 sample per riser/
average 2 risers per tank.
Grab and Vapor 1 sample per tank

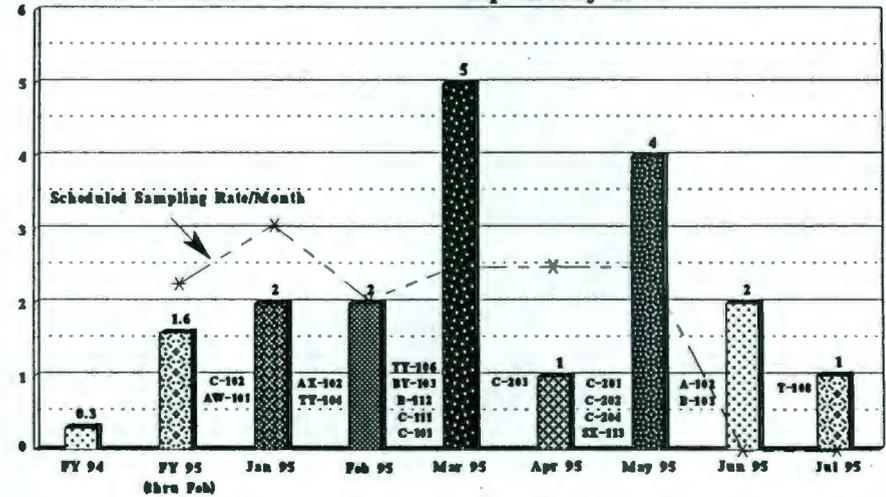
Improvements in Field Sampling Rates Tanks Sampled/Month

Sampling activities suspended
April/May 1995.

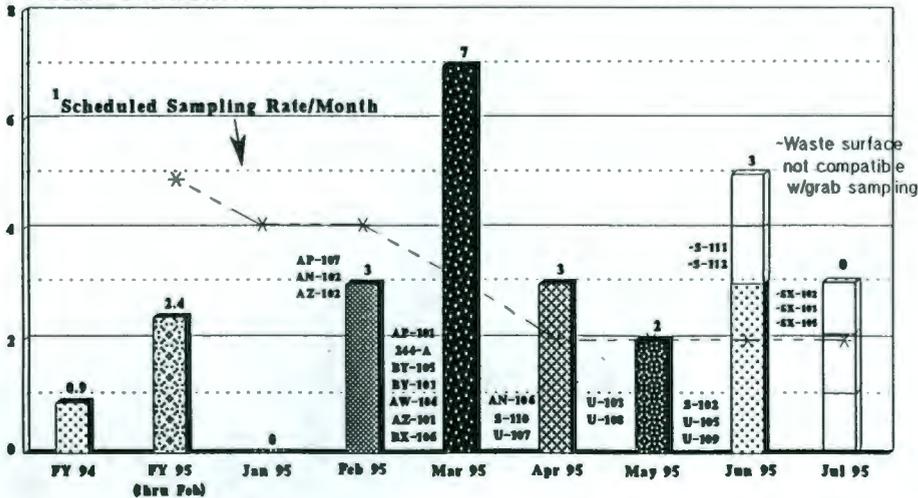
PUSH SAMPLING



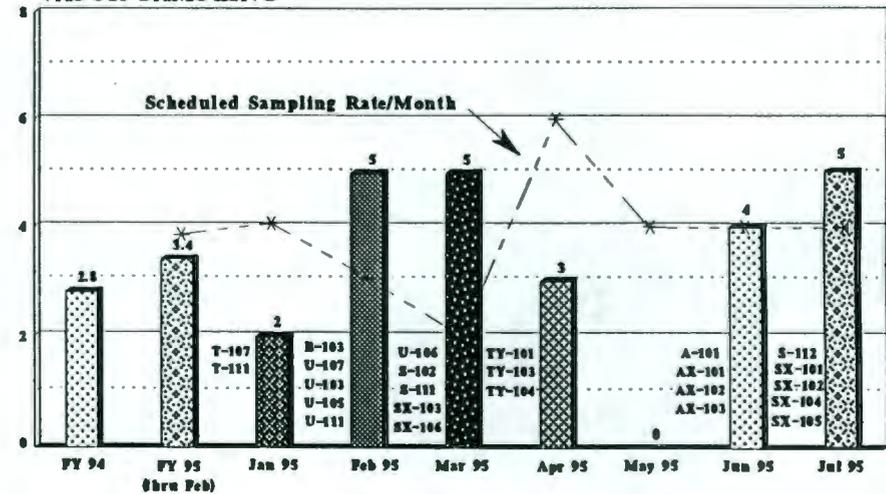
AUGER SAMPLING



GRAB SAMPLING



VAPOR SAMPLING



Characterization Project Operations

7/31/95

9613398-0606

Planned Activities

for

August 1995

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ACTIVITY ID	LEVELED ES	LEVELED EF	1995																														
			AUG																														
			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	
RS20-4	10JUL95A	24AUG95	BY-110 Rotary Samples 4 Segments 6 (Eberlein)																														
RS25-4	24JUL95A	1SEP95	BY-108 Rotary Samples 3 Segments 5 (Eberlein)																														
AS24-4	25JUL95A	31JUL95	T-106 AUGER SAMPLING Sample 2 Segments 1																														
VS70-4	26JUL95A	2AUG95	SX-109 VAPOR SAMPLING (3)																														
TC16-4	2AUG95	2AUG95	TY-103 RISER #15 THERMOCOUPLE INSTALLATION																														
TC43-4	3AUG95	3AUG95	BY-103 RISER #5 THERMOCOUPLE INSTALLATION																														
GS24-4	7AUG95	8AUG95	AN-106 GRAB SAMPLE Samples 3																														
PS13-4	7AUG95	1SEP95	S-107 Push Sample 3 Segments 8																														
VS15-4	7AUG95	8AUG95	U-203 VAPOR SAMPLE (3)																														
GS13-4	9AUG95	11AUG95	AN-105 GRAB SAMPLE Samples 3																														
VS16-4	9AUG95	10AUG95	U-204 VAPOR SAMPLE (3)																														
VS04-4	11AUG95	15AUG95	U-106 VAPOR SAMPLING (3)																														
AS34-4	14AUG95	18AUG95	T-109 AUGER SAMPLING Sample 2 Segments 1																														
VS71-4	18AUG95	21AUG95	U-109 VAPOR SAMPLING (3)																														
GS04-4	21AUG95	23AUG95	AN-101 GRAB SAMPLE PACKAGE Samples 3																														
VS11-4	22AUG95	24AUG95	T-110 VAPOR SAMPLING (3)																														
GS41-4	24AUG95	25AUG95	AY-102 GRAB SAMPLE Samples 3																														
RS29-4	25AUG95	29SEP95	BY-103 Rotary Samples 2 Segments 8 (Eberlein)																														
GS44-4	28AUG95	30AUG95	AY-101 GRAB SAMPLE PACKAGE Samples 3																														
GS77-4	31AUG95	1SEP95	AZ-101 GRAB SAMPLE Samples 3																														
			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	
			AUG 1995																														

Plot Date 1AUG95
 Date Data 28.AUG.95
 Project Start 30CT93
 Project Finish 20APR98

Activity Ref/Entry Dates
 Division Activity
 Program No.
 Activity/Planning Activity

Doc

WESTINGHOUSE HANFORD COMPANY
 TANK FARM OPS 1AUGUST95-31AUGUST95
 CURRENT SCHEDULE (AUGUST)

Sheet 1 of 1

Jim Chaffin 2-1799 G. Stenton, Prg. Mgr 3-5590

Date	Revision	Checked	Approved

(c) Primavera Systems, Inc.

PLANNED ACTIVITIES (Continued)

FY 1995 Milestone Status

- **M-44-01B** Draft Tank Waste Analysis Plan submitted to Ecology/EPA, on May 30, 1995.
 - **Complete**
- **M-44-02B** Submit Tank Waste Analysis Plan Annual to Ecology/EPA, due August 31, 1995.
 - **On schedule**
- **M-44-08** Submit 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**

SNAPSHOT SCHEDULE

**Sampling Activities for the weeks of
July 30 and August 6, 1995**

9613390.0608

Characterization Project Operations

Completed Activities 7/31 -- 8/04

Rotary

- RMCS #2 - Completed 2nd core on 1st riser, BY-100, moving to second riser Complete
- RMCS #3 - Remain at OTP site In progress
- RMCS #4 - Completed 2nd core on first riser, BY-108, 1st segment in 2nd riser In progress

Auger

- T-106 2nd core preparations In progress

Push

- Complete scheduled maintenance Weld repairs to complete task

Completed Activities 7/31 -- 8/04 - cont.

Vapor

- SX-109 Complete
- U-203/U-204 Preps Complete

Note: No grab samples scheduled for this week.

Thermocouple Tree & TMACS Installations

- TY-103 Riser Prep Complete
- TY-103 TC tree installation Complete
- BY-103 TC tree installation Complete
- C-111 TMACS hook-up Complete

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Characterization Project Operations

Planned Activities 8/07 -- 8/11

Rotary

RMCS #2 - Complete 1st core, 2nd riser

RMCS #3 - Training/new bit testing

RMCS #4 - BY-108 Complete 2nd core, 2nd riser

Auger

- **T-106 2nd core preparations/cleanup C Farm**

Push

- **Complete maintenance setup on S-107**

Characterization Project Operations

Planned Activities 8/07 -- 8/11 - cont.

Vapor

- Vapor sample U-203/U-204
- Setup on U-108

Note: no Grab samples scheduled for this week.

Thermocouple Tree & TMACS Installations

- Complete TY-103 TMACS hookup
- Start BY-103 TMACS hookup

9613390.0610

ISSUES\PROBLEMS

- **325 Laboratory Restart**
 - **Funding: 325 Laboratory is funded through end of FY 1995.**
 - **The 325 Lab future mission is being evaluated.**
 - **PNL and WHC have prepared a transition plan to restructure Hanford radio-analytical laboratory services.**
- **Vapor analyses quality concerns at Oak Ridge National Laboratory were discovered. WHC has satisfied themselves that the data is good to use. RL is reviewing this issue.**

TPA Milestone M-44-08, "Issue 30 Tank Characterization Reports (TCRs) in accordance with the approved Tank Characterization Plans. Complete input of characterization information for 30 High Level Waste Tanks (HLW) to electronic database."

Cost/Schedule Assessment (does not include Change Request TWR-95-101, not yet approved by RL)

Note: Dollars in Thousands	Current Period June 1995	Cumulative to Date	At Completion
Budget Cost Work Performed (BCWP)	1,360.3	39,212.3	76,017
Budget Cost Work Scheduled (BCWS)	6,583.2	51,632.3	76,017
Actual Cost Work Performed (ACWP)	3,845.7	48,937.4	74,300
Variances:			
Costs	-2,485.4	-9,725.1	1,717
Schedule	-5,222.9	-12,420.0	0

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**PROVIDE ADDITIONAL DOUBLE-SHELL
TANK CAPACITY**

MILESTONE M-42-00

**J. E. Couey
RL, MULTI-FUNCTION WASTE TANK FACILITY
PROJECT OFFICE**

August 8, 1995

9613390.0612

Accomplishments (last three months)

- **Final TPA change request sent to Ecology and EPA in late June 1995. Ecology responded in early July 1995 that change request will undergo public review before approval; tentative approval date of 23 September 1995.**
- **Baseline change proposal sent to HQ in early July 1995; in active review at HQ.**
- **Demobilization complete (except for minor close out paperwork).**

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Planned Actions (next three months)

- Obtain Ecology and EPA approval of TPA change request.
- Obtain HQ approval of baseline change proposal.

REPLACEMENT OF CROSS-SITE TRANSFER SYSTEM

MILESTONE M-43-07

**J. E. Couey
RL, CROSS SITE TRANSFER SYSTEM
PROJECT OFFICE**

August 8, 1995

9613390.0615

Accomplishments (Last three months)

- **Change request canceling Replacement of Aging Waste Transfer Lines project approved in late July 1995.**
- **Change request rebaselining project approved in late July 1995; with TPC below \$50M, project will be managed as a Line Item (no key decision process).**
- **Tier II review of PSAR completed in late July 1995; comments now being dispositioned.**
- **C-1 package approved by RL and WHC; C-2 package in approval cycle now.**

9613390:0616

- **Preliminary draft SIS-FEIS issued for review in late July 1995.**
- **Management assessment for construction readiness initiated in late July 1995.**

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Planned Actions (Next three months)

- **Award design only long lead procurement for pump in mid August 1995.**
- **Issue C-1 package for bid in early August 1995.**
- **Complete review of preliminary draft SIS-FEIS by mid August 1995.**
- **Issue C-3 package for approval by mid August 1995.**
- **Initiate Tier III review of PSAR by mid August 1995.**
- **Initiate independent cost estimate validation by late August 1995.**

9613390.0618

- **Initiate independent design review by early September 1995.**

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Special Topics

- **Define completion of definitive design (M-43-07-T01) as approval of C-3 package by RL and WHC (does not include independent design review process required prior to initiation of construction).**
- **Start of construction (M-43-07A) is defined as award of fixed price construction contract for C-1 package or start of physical work on force account C-2 package.**
- **Acceleration of SIS-EIS ROD to 10 November 1995 due to concurrent review cycles.**
- **Phased construction contract for C-1 package to authorize design/submittal and "potholing" prior to SIS-EIS ROD and PSAR SER.**

9613390-0620

DST PERMITTING UPDATE

**K. A. Elsethagen
WHC, TWRS ENVIRONMENTAL COMPLIANCE**

August 8, 1995

9613390:0621

Accomplishments

- **The Draft DST Waste Analysis Plan was issued to Ecology and EPA for final comment on June 26, 1995. Comments were received from Ecology on July 17, 1995.**
- **Chapters 7 "Contingency Plan", 8 "Personnel Training", and 13 "Other Relevant Laws" were submitted for internal review during the month of July. Comments for chapters 7 and 13 have been received and incorporated.**

Planned Actions

- Chapters 7 and 13 are on schedule to be submitted for review to Ecology and EPA on August 8, 1995.
- Chapter 8 is currently out for internal review, and is on schedule to be submitted to Ecology and EPA on August 23, 1995.

9613390.0622

Special Topics

- **Submittal of Chapter 3 "Waste Characteristics" for internal and external review is currently behind schedule. Workshops with Ecology on the DST WAP and Chapter 3 are continuing.**

Distribution for UMM Minutes:

G. E. Bishop	S7-54
F. T. Calapristi	B2-35
M. P. Campbell	R1-52
J. E. Couey	S7-52
L. J. Cusack	B5-18
D. B. Engelman	R1-49
EDMC	H6-08
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D. E. Jackson	A5-15
T. J. Kelley	S7-30
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Original (Administrative Record) goes to:
Gayle Landeen
H6-23

10/03/95