

# START

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Meeting Minutes Transmittal/Approval  
Unit Managers Meeting: SST Operable Unit  
M-0276 Building, Room 131A  
200 East Area Hanford Site, Washington

January 6, 1994

From/ Appvl: Wendell Wrzesinski Date: 2/8/94  
Wendell Wrzesinski, SST Unit Manager, DOE-RL

Appvl: Scott C. McKinney Date: 2/8/94  
Scott McKinney, SST Unit Manager,  
WA Department of Ecology

Appvl: David R. Faulk for Date: 8 Feb 94  
Dennis Faulk, SST Unit Manager,  
EPA Region X

Appvl: David Pabst Date: 1/29/94  
David Pabst, WHC, Contractor 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 - Tank Farms Environmental Compliance Officer
- Handout 2 - Single-Shell Tank Interim Stabilization/Isolation
- Handout 3 - Letters, Completion of Proposed Tri-Party Agreement Milestones  
M-41-05 and M-41-02-T1
- Handout 4 - Complete Closure of all Single-Shell Tank Farms
- Handout 5 - Single-Shell Tank Characterization



9413200.1308

SINGLE-SHELL TANKS  
 UNIT MANAGERS  
 JANUARY 6, 1994

<u>NAME</u>	<u>ORG</u>	<u>MSIN</u>	<u>PHONE</u>
DAVID PABST	WHC	B2-35	376-9048
Dennis Faulk *	EPA	B5-01	376-8631
THOMAS RAINY	WHC	R4-02	373-3531
Marc Stevenson	WHC	B2-35	376-9668
Sharon Jones	WHC	R2-54	372-1952
LIBA GARR	WHC	R2-54	373-1505
Scott McKinney *	Ecology		(206) 407-7146
JASBIR BAJWA	WHC	H4-62	372-1478
Luis Soler	Dames & Moore	B1-42	946-3680
JIM BISHOP	DOE	R3-72	372-1856
WENDELL WRZESINSKI	DDE	R3-74	376-6751
Paul Hernandez *	DOE	A5-18	376-2209
DAVID SCHLICK	MACTEC		376 1197
Don ENGELMAN	WHC	R2-18	373-3452
ELLEN MATTIN	DOE	R3-72	376-2385

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

January 6, 1994

Opening Remarks: (D. Pabst, WHC). The meeting was opened and introductions were made. Minutes were signed for the October 28, 1993, interim stabilization unit managers meetings.

Ecology Organization: (S. McKinney, Ecology). A review of the reorganization underway within the Washington State Department of Ecology was provided. Although the organizational responsibilities within the Lacey office are basically defined, the Kennewick office still poses some questions, and therefore was not discussed.

The Lacey office will be divided into two primary organizations - one headed by Jeff Breckel and the other by Joe Stohr. Titles for these organizations will be provided later. Joe Stohr will have 5 people reporting to him: Toby Michelena, without staff, will provide TWR engineering support to the TPA Project Manager; Jerry Baglie and Mike Garner will provide low level waste policy support (primarily for US Ecology); Joy Denkers will provide data management support; and, Joe Witzak is the unit supervisor for Regulatory and Technical Support (RATS).

Under Witzak will be Scott McKinney for SSTs and DSTs, Megan Lerchen for characterization, Bob Cortz for low level waste, Bob King for pretreatment, and John Grantham for high level waste.

Moving to the Kennewick office will be responsibility for safety, stabilization and upgrades. Characterization and tank farm closure will stay in Lacey.

Of note is that Mike Gordon will be leaving Ecology.

EPA Organization: (D. Faulk, EPA). Dennis Faulk is the lead for TWR in EPA, supported by Dave Einar for technical issues.

WHC TWR Compliance Organization: (L. Garner, WHC). Refer to handout number 1. Ultimately this organization will be about 50 to 60 people. The Backlog Waste program is temporary, and will phase out as the backlog waste issues decline.

Interim Stabilization: (T. Rainey, WHC). Refer to handout number 2.

Seven additional nuclear process operators were trained and certified in Routines - Liquid Level Monitoring after the M-41-05 letter was transmitted. A copy of the "APPROVAL OF SAFETY ANALYSIS REPORT ADDENDUM FOR THE OVERGROUND TRANSFER OF SINGLE-SHELL TANK WASTE (WHC-SD-WM-SAR-034, REV. 0-A)" was provided. Refer to handout number 3 for letters of transmittal.

The pumping of assumed leaking tank 241-BX-111 has pumped more liquid than was calculated for the tank to contain. This in itself is not unusual, but requires a longer pumping duration than estimated. Problems with the pump in tank 241-BX-110 were also discussed.

In response to a question from Ecology on what progress was being made in preparing S-Farm, WHC responded that no actual work was being done in the farm, due primarily to the stand-down. However, this has allowed an opportunity to look at what was needed, and to plan to fix the equipment problems as soon as work resumes. It was noted that if only a few more waste transfer lines fail, substantial rework and replacement will be required. It is already known that some lines between valve pits will need to be replaced.

Complete Closure of Single-Shell Tanks: (W. Wrzesinski, RL). Refer to handout number 4. A draft letter requesting concurrence on documentation requirements needed to satisfy the technology demonstration phase of the closure milestone was discussed. This was formerly milestone M-06-00.

Work towards retrieving waste from tank 241-C-106 is on schedule, with the NEPA FONSI due by the end of January 1994. Permit requirements for retrieval of this tank were also discussed.

AI-01/06/94-1. Discuss modifications required to 241-AY-102 to accommodate retrieval of 241-C-106 and the permitting strategy to provide no updates to the Part B permit for DSTs at the next unit manager meeting.

Actionee: W. Wrzesinski

Due Date: February 8, 1994

Characterization: (P. Hernandez, RL). Handout number 5 was reviewed. The vapor sampling of tank 241-C-103 was discussed. Ecology and EPA requested a copy of the data. This will be provided as soon as possible.

Initial procurement actions have been initiated to obtain two additional rotary mode sampling trucks. They are scheduled to be operational in the beginning of fiscal year 1995. This will make a total of four sampling trucks available at the site - three rotary mode, and one push mode.

Ecology's comments on the three tank characterization reports are needed by January 12, 1994. These reports were submitted as proposed milestone M-44-03 in October 1993.

Future Single-Shell Tank Unit Manager Meetings: (D. Pabst, WHC). The plans for future unit manager meetings was discussed. It was determined that the following programs would be discussed at these meetings.

- Safety
- Upgrades
- Interim Stabilization
- Characterization
- Retrieval
- Closure

The use of handouts, as currently structured, is encouraged. Discussion should be limited to exceptions and problem areas. Technical issues are to be stressed over fiscal. Schedule questions and issues are always pertinent.

The schedule for the next six months of meetings is:

February 8, 1994  
March 8, 1994  
April 12, 1994  
May 10, 1994  
June 7, 1994

The meeting adjourned at 4:00 p.m.

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Meeting Minutes  
Unit Managers Meeting: SST Operable Unit  
M-0276 Building, Room 131A  
200 East Area Hanford Site, Washington

January 6, 1994

Attachment 2

AGENDA

9413200.1313

**AGENDA**  
**TRI-PARTY AGREEMENT**  
**SINGLE-SHELL TANKS**  
**UNIT MANAGER MEETING**

January 6, 1994, 1:00 p.m. to 4:00 p.m.  
Room 131A, Building M0276, 200-East Area, Hanford Site, Washington

<u>Time</u>	<u>Topic</u>	<u>Presenter</u>
1:00	Introductions, Opening Remarks	Yerxa / Pabst
1:15	New Ecology and EPA Organizations and Structures	McKinney / Einan
1:30	New Westinghouse TWR Compliance Organization	Garner
2:00	Interim Stabilization	Bishop/Rainey
2:30	Retrieval Program	Wrzesniski / Fort
3:00	Characterization	Hernandez / Defigh-Price
3:30	Future Unit Manager Meeting Structure and Content	McKinney / Einan / Yerxa / Pabst
4:00	Adjourn	

9413200.1314

Meeting Minutes  
Unit Managers Meeting: SST Operable Unit  
M-0276 Building, Room 131A  
200 East Area Hanford Site, Washington

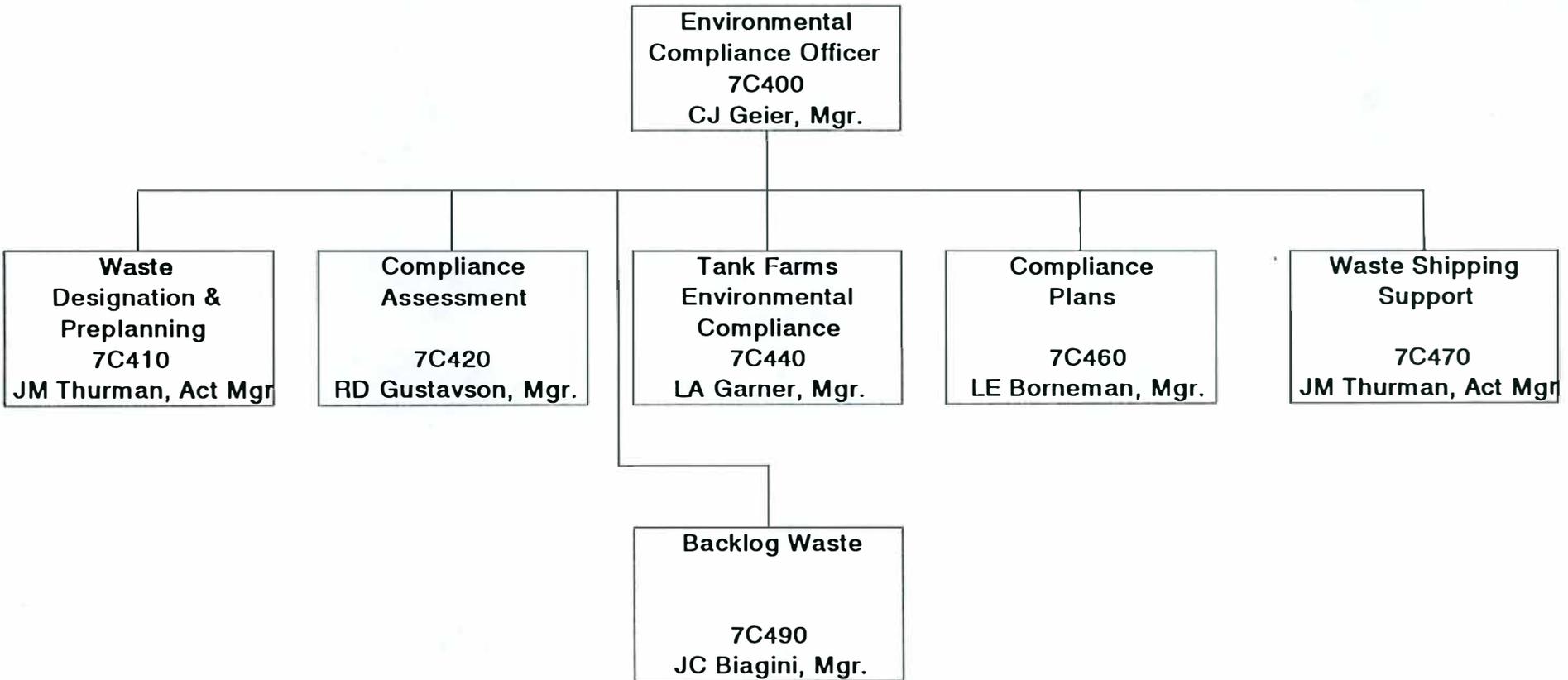
January 6, 1994

Attachment 3

ATTENDANCE LIST

9413200.1315

# TANK FARMS ENVIRONMENTAL COMPLIANCE OFFICER



# **Tank Farms Environmental Compliance Officer**

## **Waste Designation and Preplanning**

- **Waste Characterization**
- **Waste Minimization**
- **Forecasting**
- **Special Disposal Projects**

## **Compliance Assessment (Environmental Engineering)**

- **Environmental Monitoring Systems**
- **Soil Stabilization**
- **Waste Analysis Plans**

## **Tank Farms Environmental Compliance**

- **Environmental Compliance Officers**
- **Permitting**
- **Regulatory Reporting**
- **Compliance Agreements**

# **Tank Farms Environmental Compliance Officer**

## **Compliance Plans**

- **Environmental, Safety, Health, Quality Assurance Integration & Policy for TWRS**
- **TWRS Environmental Impact Statements**

## **Waste Shipping Support**

- **Waste Designation**
- **Shipping Documentation**

## **Backlog Waste**

- **Characterization of Tank Farms Backlog Waste**
- **Processing of Tank Farms Backlog Waste**
- **Documentation of Tank Farms Backlog Waste**

## **Fiscal Year 1994 Priorities**

- **Characterize and Process Backlog Waste**
- **Establish Environmental Compliance Officers for Waste Tank Operations Facilities**
- **Initiate Self-Assessment Program**
- **Negotiate RCRA Compliance Agreement**
- **Ship all New Generated Hazardous and Mixed Waste Before 60 Days**
- **Qualification of Environmental Compliance, Safety, and Quality Assurance Programs for TWRS**
- **Complete NESHAPS Compliance Assessment**

# **Single-Shell Tanks Interim Stabilization/Isolation**

**T. E. Rainey**  
**Single-Shell Tank Unit Managers Meeting**  
**January 6, 1994**

**DECEMBER, 1993**

**SST INTERIM STABILIZATION/ISOLATION**

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**ACCOMPLISHMENTS**

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- **Completed Milestone M-05-17B (M-41-05)**  
Complete portions of the Nuclear Operator systems class and OJT that relate to Operator Routines and Liquid Level Monitoring.  
  
79 NPO's trained, only 40 required to be qualified.  
  
Only fully certified operators allowed to perform duties of the Routines-Liquid Level Monitoring certification area.
- **Completed Milestone M-41-02-T1**  
Complete and submit to Ecology and EPA a safety analysis report to allow alternate methods for transfer of radioactive waste within single-shell tank farms.
- **Emergency pumping 241-BX-111 has transferred 56,596 gallons as of 1/2/94. Jet pumping of 241-BX-110 has transferred 4,337 gallons as of 1/2/94.**
- **Negotiated agreement for M-41 milestones based on impacts of Administrative Hold.**

**DECEMBER, 1993**

**SST INTERIM STABILIZATION/ISOLATION**

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**PLANNED ACTIVITIES**

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**WORKING PROPOSED TPA MILESTONES**

**Prepare to pump tanks 241-BY-102 and 109 (M-41-01-T3)**

**Prepare to pump tanks 241-C-102, 107, and 110 (M-41-01-T1)**

**Tank C-102 to be treated as organic Watch List tank.  
Impact is being determined.**

**Continue restoration of 244-U double-contained receiver tank (M-41-02-T2)**

**Complete safety study analysis on interim stabilization of remaining Watch List tanks (M-41-07)**

**Prepare to pump 7 non-watch list tanks in 241-S farm (M-41-10)**

**DECEMBER, 1993**

**SST INTERIM STABILIZATION/ISOLATION**

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**PLANNED ACTIVITIES (Con't.)**

**Complete Milestone M-05-17A (M-41-06)**

**Provide the draft curriculum for the upgraded Maintenance Training Program and implementation schedule**

**Issue Request for Proposal for mobile high-level liquid waste transfer cask (M-41-03.A)**

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**DECEMBER, 1993**

**SST INTERIM STABILIZATION/ISOLATION**

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**ISSUES/CONCERNS**

**CORRECTIVE/ACTION**

Criticality USQ has stopped single-shell tank transfers. Resolution of USQ in jeopardy due to delays at DOE-HQ.

Resolve USQ resolution for remaining tanks by June 1994 (Proposed Milestone M-40-13).

Tank 241-C-102 being treated as organic Watch List tank.

Determine how this effects preparations for pumping.

Tank 241-T-111 being treated as flammable gas Watch List tank.

Resolve issues along with other flammable gas Watch List tanks. Emergency pumping would not be affected.

Tank 241-U-107 added to flammable gas Watch List.

Resolve issues along with other flammable gas Watch List tanks.

United States Government

Department of Energy

# memorandum

DATE: DEC 23 1993  
REPLY TO: EM-36  
ATTN OF:

SUBJECT: Approval of Safety Analysis Report Addendum for the Overground Transfer of Single-Shell Tank Waste (WHC-SD-WM-SAR-034, Rev. 0-A)

TO: Manager, DOE Richland Operations Office

This memorandum documents the approval of the attached Safety Analysis Report Addendum for the Overground Transfer of Single-Shell Tank Waste (WHC-SD-WM-SAR-034, Rev. 0-A). With this approval, you are authorized to submit this report addendum to the Washington State Department of Ecology (Ecology) and the U.S. Environmental Protection Agency (EPA) in accordance with Tri-Party Agreement (TPA) Milestone M-41-02-T1.

In addition to the use of temporary overground transfer systems for emergency pumping and single-shell tank stabilization, the Richland Operations Office should aggressively pursue the acquisition and use of mobile high-level liquid waste transport casks. The request for proposal for the mobile cask capability is the next key TPA milestone (M-41-03.A) due in February 1994.

If you have any questions regarding this approval, please contact Andrew Griffith of my staff at (301) 903-7120.

  
Thomas P. Grumbly  
Assistant Secretary for Environmental  
Restoration and Waste Management

Attachment

cc w/o attachment:  
RL, J. Anttonen, RL  
RL, A. Sidpara, RL

9413200.1325



Department of Energy

Richland Field Office

P.O. Box 550

Richland, Washington 99352

DEC 30 1993

94-TPA-039

Mr. Roger F. Stanley,  
Tri-Party Agreement Implementation  
State of Washington  
Department of Ecology  
P.O. box 47600  
Olympia, Washington 98504-7600

Mr. Doug R. Sherwood  
Hanford Project Manager  
U.S. Environmental Protection Agency  
712 Swift Boulevard, Suite 5  
Richland, Washington 99352

Dear Messrs. Stanley and Sherwood:

COMPLETION OF PROPOSED HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER  
(TRI-PARTY AGREEMENT) MILESTONE M-41-02-T1

The recently renegotiated Tri-Party Agreement that is currently undergoing final review and approval contained a number of new proposed milestones for the single-shell tank interim stabilization program at Hanford. Agreement in principle was reached among the three parties on these new milestones in June 1993. Since then, in order to demonstrate its good faith compliance with these new requirements, the U.S. Department of Energy, Richland Operations Office (RL) has acted as if these milestones were fully enforceable, and has implemented programs to achieve the schedules required by the milestones. One milestone, M-41-02-T1 states:

Complete and submit to Ecology and EPA a safety analysis report to allow alternate methods for transfer of radioactive waste within single-shell tanks, by December 31, 1993.

Enclosed with this letter is a copy of a safety analysis report addendum to allow use of short, temporary, shielded, above-ground transfer piping to transfer liquids from single-shell tanks that do not have intact, buried transfer piping. This Addendum has been approved by the Assistant Secretary for Environmental Restoration and Waste Management.

RL is proceeding with the design and fabrication of short lengths of piping for above-ground transfer of liquids. This work is on-schedule to be completed in September, 1994.

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Messrs. Stanley & Sherwood  
94-TPA-039

-2-

DEC 30 1993

RL believes the actions required to successfully fulfill the requirements of proposed milestone M-41-02-T1 have been completed.

If you have any questions, please contact me on (509) 376-6798.

Sincerely,

Steven H. Wisness  
Hanford Project Manager

EAP:JKY

Enclosure

cc w/encl:

B. A. Austin, WHC

bcc: EAP OFF FILE

TPA RDG FILE

CCC FILE CODE 40.18.41

G.E. BISHOP, TOP

A.B. SIDPARA, TOP

Record Note: Notifies regulators of the completion of proposed Milestone M-41-02-T01.

RECEIVED

DEC 30 1993

DOE-RL/CCC

40.18.41

OFFICE >	TOP	TOP	EAP			
SURNAME >	BISHOP	SIDPARA	WISNESS <i>JEK</i>			
DATE >	<i>12/30/93</i>	<i>12/30/93</i>	<i>12/30/93</i>			

(Please Return To Joyce Josephson, 6-1906, FED/609 EAP)



12S 33484 RL

9413200.1327

33432



Department of Energy

Richland Field Office

P.O. Box 550

Richland, Washington 99352

94-TPA-033

DEC 29 1993

Mr. Roger F. Stanley  
Tri-Party Agreement Implementation  
State of Washington  
Department of Ecology  
P.O. Box 47600  
Olympia, Washington 98504-7600

Mr. Doug R. Sherwood  
Hanford Project Manager  
U.S. Environmental Protection Agency  
Richland, Washington 99352

Dear Messrs. Stanley and Sherwood:

ROUTINES-LIQUID LEVEL MONITORING SYSTEMS TRAINING FOR NUCLEAR PROCESS OPERATOR, MILESTONE M-05-17B (PROPOSED MILESTONE M-41-05)

Completion of Hanford Federal Facility Agreement and Consent Order interim milestone M-05-17B. This milestone reads as follows:

"The USDOE shall complete the portions of the Nuclear Operator systems class and on-the-job training that relate to the Operator Routines and Liquid Level Monitoring. Documentation of completion of Operator training shall be provided by submittal of a letter from USDOE to EPA and Ecology."

As of December 21, 1993, Westinghouse Hanford Company (WHC) has trained and certified 72 Nuclear Process Operators in Routines-Liquid Level Monitoring. Based on a four-shift rotational schedule, only 40 operators are required to be qualified within the Routines-Liquid Level Monitoring certification to fully support the WHC Tank Farm Operations. Beginning on January 1, 1994, the WHC has committed that no operators will be allowed to perform Routines-Liquid Level Monitoring duties unless they have successfully completed the revised training program. The excess certified operators are available to fill any contingency that may arise.

The WHC will continue to complete the final certification of previously qualified operators. Only after these operators become fully certified will they be allowed to perform duties of the Routines-Liquid Level Monitoring certification area. Current estimates indicate that the recertification of the remaining 24 designated operators will be completed no later than January 31, 1994.

Training curriculum materials used to conduct the upgraded classroom and on-the-job training are available for review. The training and qualification records of each individual Nuclear Process Operator reflect the level of certification and can be reviewed following appropriate clearances.

9413200.1328

Messrs. Stanely & Sherwood -2-  
94-TPA-033

DEC 29 1993

Training for nuclear operators to satisfy the requirements of this milestone have been underway for some time. Mr. Scott McKinney of your staff has been apprised of the progress on this milestone. The status of this training was also discussed with you at the Milestone Review meeting held in Richland in November 1993. The U.S. Department of Energy, Richland Operations Office believes the actions required to successfully fulfill the requirements of milestone M-05-17B (proposed milestone M-41-05) have been completed.

If you have any questions, please contact me on (509) 376-6798.

Sincerely,

Steven H. Wisness  
Hanford Project Manager

EAP:JKY

cc: B. A. Austin, WHC

bcc: EAP OFF FILE  
TPA RDG FILE  
CCC FILE CODE 40.18.5

G.E. Bishop, TOB

RECEIVED  
DEC 30 1993  
DOE-RL/CCC

OFFICE >	EAP	TWS	EAP			
SURNAME >	YERXA <i>JKY</i>	<del>Stanely</del> <i>Sidpant</i>	WISNESS <i>JKY</i>			
DATE >	12-28-93	12-29-93 <i>Att for</i>	12/29/93			

(Please Return To Joyce Josephson, 6-1906, FED/609 EAP)



12S 33412 RL

9413200-1329

**Complete Closure of All Single Shell Tank Farms**

**Milestone M-45-00  
(M-06, M-07, M-08, M-09)**

**W.R. Wrzesinski, DOE**

**January 6, 1993**

**M-45-01      Develop single-shell tank (SST) retrieval  
technology**

**September 1994**

- Completion of the M-45-01 milestone (M-06) based upon:
  - 1) Test and Evaluation Reports on 1991 and 1992 public demonstrations of retrieval technology
  - 2) Report on Air Conveyance and Air/water Jet Tests for Sludge Removal  
Bentonite/Kaolin Simulants  
Pneumatic Conveyance
  - 3) Report on "Confined Sluicing" Jet Pump/Water Conveyance Tests  
Saltcake/Sludge Testing at U. of Missouri-Rolla  
K-Mag/Kaolin Simulants  
Water Jet Conveyance
  - 4) Summary Report on Waste Dislodging/Conveyance Testing  
Hydraulic Cutters  
Abrasive Water Jet  
Water Cannon
  
- Draft Correspondence Prepared Requesting Ecology, EPA Concurrence on Documentation Requirements in Completing M-45-01 (M-06).

**M-45-03-T1****Complete SST waste retrieval demonstration****September 2003****M-45-03A****Initiate sluicing retrieval of C-106****October 1997****Schedule and Status**

Functional Design Criteria for tank C-106 was completed

Started Definitive Design

Issued Action Description Memo, first step in the NEPA process

Tank 241-C-106 Environmental Assessment is complete through DOE/RL review, transmittal letter to State and Tribes being prepared. NEPA process scheduled for completion (FUNSI received) 1/31/94

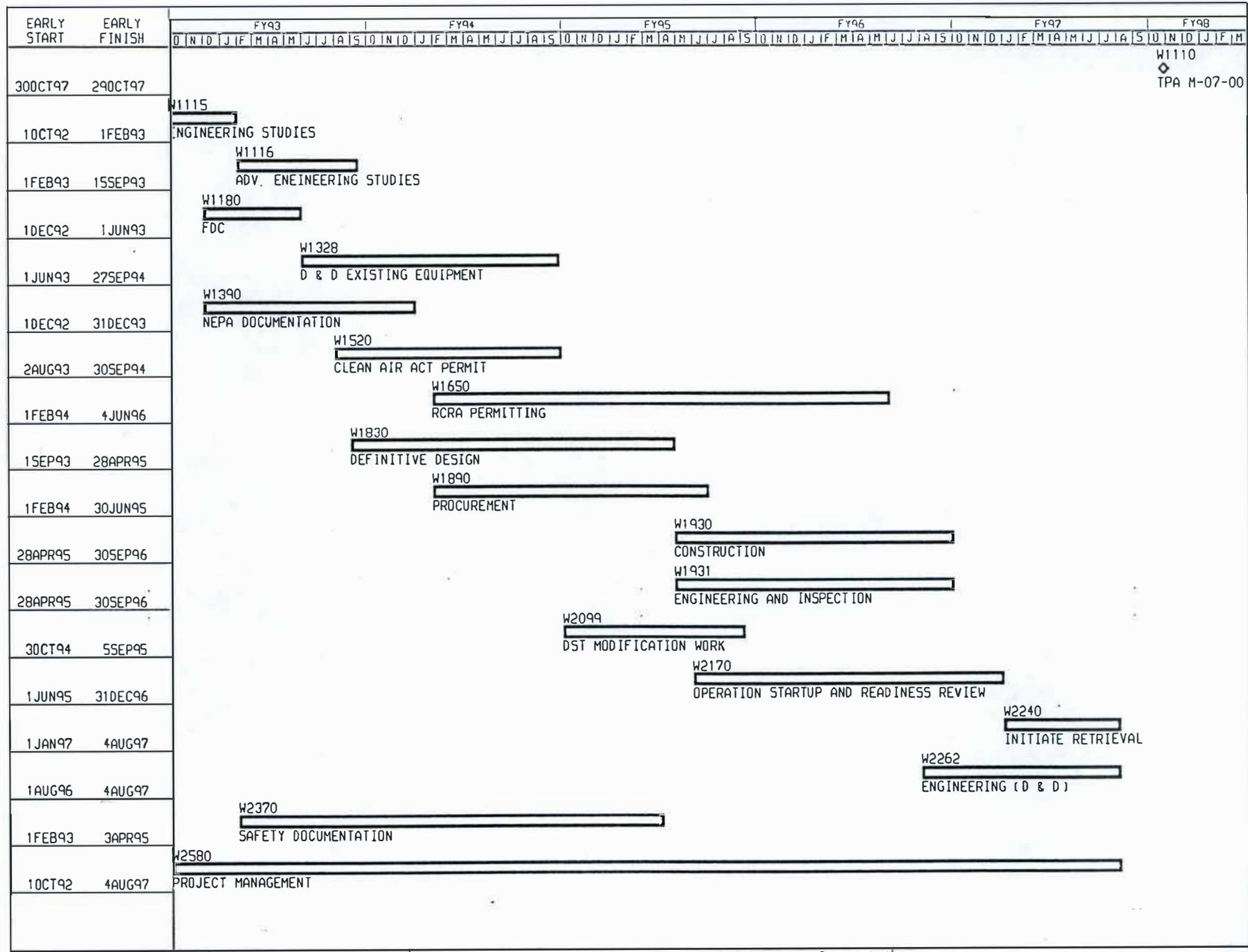
Regulatory Permitting Plan complete

- Met with Ecology and Department of Health on November 2, 1993.

Agreements reached on Phased Clean Air Act permitting strategy and desired regulatory agency reviews.

- RCRA SST Part A Dangerous Waste Permit Application (incorporating modification to process description for retrieval operations) submitted to WDOE on 12/26/93.

- Delegation of Approval Authority to RL for NEPA approval received in December. End of January schedule date for EA/FONSI approval.



Plot Date 5NOV93  
 Data Date 10CT92  
 Project Start 10CT92  
 Project Finish 29OCT97

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

TPSS

Sheet 1 of 1

W-320 TOTAL PROJECT SUMMARY SCHEDULE

Date	Revision	Checked	Approved

**M-45-03-T2****Initiate final retrieval demonstration of C-106****June 2002**

- Justification of Mission Need (JMN) Prepared for Submittal
  - Supports Key Decision 0 Allowing for Conceptual Design Initiation
- Engineering Study with Bounding Costs and Schedule Issued
- Technology Development Workscope Activities Ongoing

**M-45-06 Complete closure of all single-shell tank farms September 2024**

- Provided Ecology/EPA with Documentation on Closure as a Result of TPA Negotiation Discussions

Regulatory Analysis for Closure of a Treatment and Storage Tank as a Landfill

Risk-Based Preliminary Assessment Supporting Closure of the Hanford Site Single-Shell Tanks as Landfills

<b>M-45-07</b>	<b>Complete Evaluation and Demonstration Testing of Sub-scale Barriers</b>	<b>September 1997</b>
<b>M-45-07A</b>	<b>Complete Evaluation of Sub-surface Barrier Feasibility</b>	<b>September 1994</b>

Schedule and Status

Complete Evaluation of Sub-surface Barrier Feasibility

- Develop overall logic scheme - completed
- Qualitative Risk Assessment - Draft completed
- Mission & Functional Analysis - Initiated
- Regulatory assessments and permitting strategy - Started

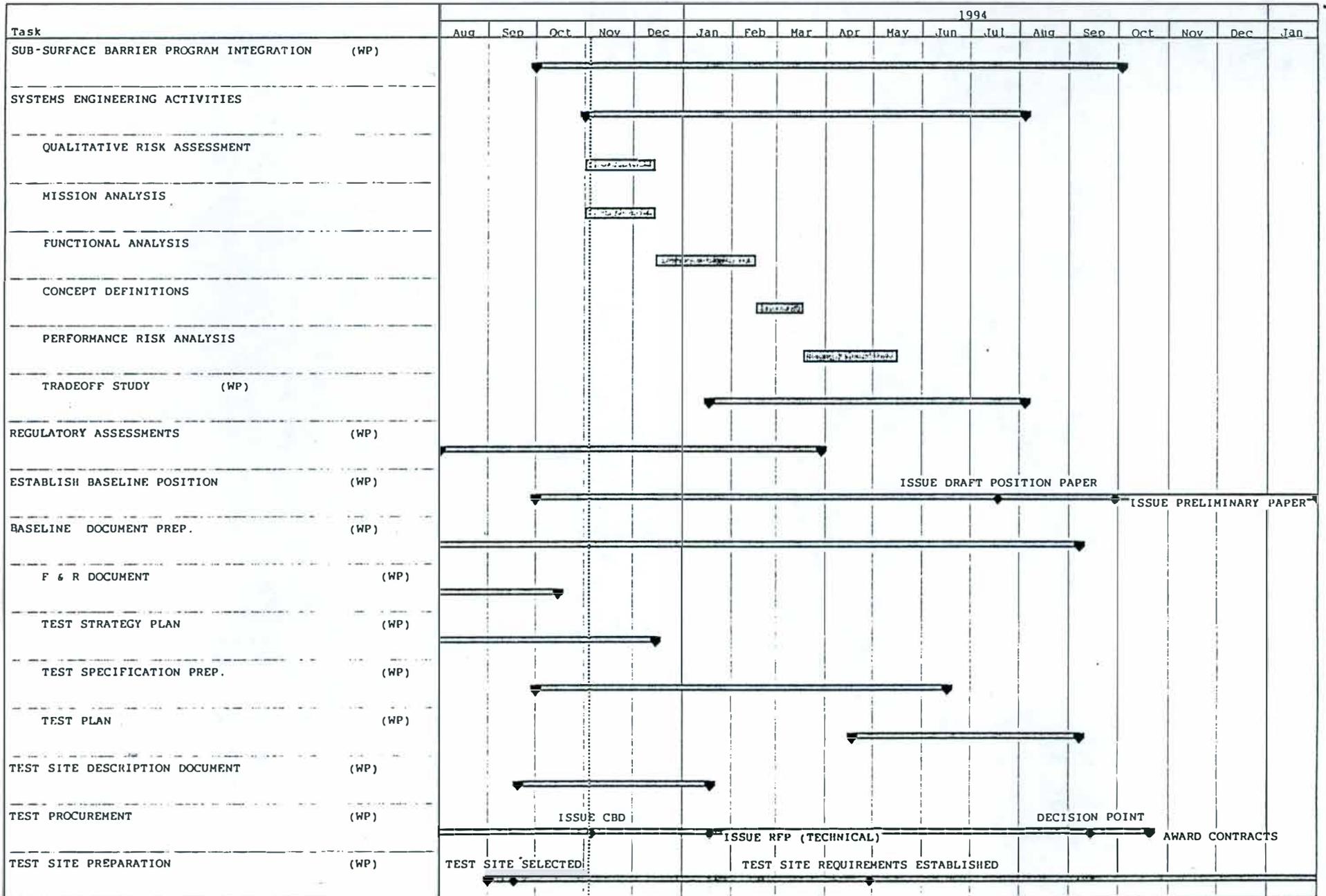
Baseline documents for Sub-surface Barrier demonstration testing

- Functions & Requirement - Completed, approved & issued
- Test Strategy - Preliminary & final draft completed
- Specifications and performance criteria - Initiated
- Test Site Description - Site selected, permits started

Barrier Demonstration Testing Activities

- Issue Commerce Business Daily notice for interested parties- completed
- Procurement specification document - initiated

# SUBSURFACE BARRIERS



# SUBSURFACE BARRIERS

Task	1994												Jan					
	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul		Aug	Sep	Oct	Nov	Dec
ENG. TESTS (WP)																		
SUPPORT FOR BARRIER MATERIAL EVALUATION																		
SUPPORT BARRIER INST./MONITORING TESTING																		
SUPPORT FOR DRILLING TECH. FEASIBILITY EVAL.																		
CLOSE COUPLED BARRIER TESTS (WP)																		

# **SINGLE-SHELL TANK CHARACTERIZATION**

## **MILESTONE M-10-00**

**Paul Hernandez - USDOE/RL**

**Cherri DeFigh-Price - WHC**

**Waste Characterization Program**

**January 6, 1994**

## Milestone Description

o M-10-00/M-44-00

The programmatic and regulatory description of Characterization deliverables is currently transitioning from a "Number of Cores per Single Shell Tank" orientation to one of a "Tank Characterization Report" for all tanks. Briefly, the re-orientation of the Program will require the characterization of all waste phases (solids, liquids, and gases) of the Hanford Single Shell (SST) and Double Shell Tanks (DST). The design of the characterization process is directed toward support of the full retrieval of all tank waste.

As a first step in re-orienting the direction of the Program, three of the new Tank Characterization Reports were completed and forwarded to the Regulators for initial evaluation and review on October 29, 1993. This action completed Milestone M-44-03 as scheduled in the pending TPA Change Control Request.

# Accomplishments

- Completed Milestone M-10-07, "Retrieve 7 Core Samples from 3 SSTs and 5 Liquid Grab Samples from 5 DSTs," on Schedule - September 30, 1993.
- Completed Proposed Milestone M-44-03, "Submit 3 Tank Characterization Reports for Initial Evaluation and Approval," on Schedule - October 29, 1993. Ecology response needed by January 12, 1994.
- Completed resource loading of a FY 1994 Integrated Sampling Schedule which covers Push Mode, Rotary Mode, Auger, and Liquid Grab Sampling as well as the precursory Vapor Sampling of the tank atmospheres. (on schedule - 103-C Vapor/grab sample in November/December)
- The specifications and design for the PAS-1 Sample Shipping Cask have been completed.
- Completed the Ferrocyanide Data Quality Objective (DQO) process and issued document - December 30, 1993.
- Issued DQO guidance document on schedule - December 30, 1993.
- Initiated procurement of additional Core Sampling Trucks and support equipment - December 1993.

## Planned Actions

- **Complete input of Characterization information for 3 HLW tanks to electronic database(s) (TPA M-44-04) - January 31, 1994. (completed 12/30/93)**
- **Resume push mode core sampling capability in both single shell and double shell tanks - February 1, 1994.**
- **Restore Rotary mode Sampling capability to the Hanford Site. (TPA M-10-13) - March 31, 1994.**
- **Complete Historical Tank Content Estimates (HTCE) for 112 waste tanks - March 31, 1994. Note: The 112 tanks represent 2 full quadrants of a geographical distribution of tanks based on process/historical commonalities.**

# MILESTONE ASSESSMENT

## ● Schedule Performance

- **M-10-07 Retrieve 7 Core Samples from 3 SSTs and 5 Liquid Grab Samples from 5 DSTs - Completed September 30, 1993.**
- **M-44-03 Submit 3 Tank Characterization Reports for Initial Evaluation and Approval - Completed October 29, 1993.**
- **M-44-07 Complete all FY 1992 and 1993 core sample analyses and complete validation of the resulting data - Completed November 18, 1993.**
- **M-44-04 Complete input of Characterization Information for 3 HLW tanks to electronic database(s) - Completed December 30, 1993.**
- **M-10-13 Restore Rotary Mode Core Sampling capability to the Hanford Site - Presently on schedule - March 31, 1994.**

## **DISCUSSION TOPICS**

- **Comments on TCR's**
- **Update on DNFSB 93-05 response.**

Distribution

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