START

9513335.0635

0040475 16

Meeting Minutes Transmittal/Approval
Unit Managers Meeting: Single-Shell Tanks
Federal Office Building/Videoconference Room
Richland, Washington

June 15, 1994

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

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

Appvl: Dave R. Einan — Date: 16 Feb 95
Dave Einan, SST Unit Manager, EPA Region X

Appvl: Mardine Campbell for — Date: 2/14/95
Lisa Garner, 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
Attachment #3, Attendance List

Handout 1 - Double and Single-Shell Tank Characterization M-44-00
Handout 2 - Ferrocyanide Safety Program -Thermocouple Tree Installation
Handout 3 - Removal of Floating Organic Layer from Tank 241-C-103
Handout 4 - Waste Tank Safety Program Status Report 5/31/94
Handout 5 - Single-Shell Tank Interim Stabilization/Isolation M-41-00

MAR 1995
RECEIVED
EDMC

Attachment 1

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

June 15, 1994

M-44 TANK CHARACTERIZATION (D. Schlick) [Handout #1]:

ACTION: George Stanton to provide revised sampling schedule to S. McKinney.

The impact to M-44-06 was discussed. Presently, the actual impacts are unknown.

The satisfactory demonstration of the rotary mode core sampler means the unit could be field operation by August 3, 1994.

New trucks are due early in calendar year 1995.

M-40 SAFETY (G. Dukelow, D. Turner) [Handouts #2, 3, 4]:

G. Dukelow asked for status of Ecology's comments on the M40-02A criteria document. Scott committed to a review by June 30, 1994.

D. Turner requested deferral of the June 30, 1995 milestone. Closure of the USQ on C-103 has changed the project. A TPA change request will be prepared and forward in two-three weeks.

ACTION: Steve Moore and Scott McKinney will discuss C-103 actions. Both would like to avoid unnecessary expenditures.

M-41 INTERIM STABILIZATION (D. Engelman, T. Rainey) [Handout #5]:

D. Engelman and T. Rainey statused interim stabilization.

There were no milestone change requests or commitments.

M-45 RETRIEVAL/CLOSURE (W. Wrzesinski) [Handout #6]:

Action: W. Wrzesinski to provide more information on project W-320 next month.

A copy of the SST Closure Work Plan Outline will be sent to S. McKinney.

Attachment 2

AGENDA
TRI-PARTY AGREEMENT
SINGLE-SHELL TANKS
UNIT MANAGERS MEETING

June 15, 1994, 12:30 to 3:00
Federal Building, Videoconferencing Room

Time	Topic	Presenter
12:30-1:00	Tank Waste Characterization (M-44)	Clark
1:00-1:30	Safety	Christensen
1:30-2:30	Interim Stabilization (M-41)	Bishop
2:30-3:00	Retrieval/Closure (M-45)	Wrzesinski

Attachment 3

UMM Attendees 6/15/94

G. THOMAS TEBB	Ecology	736-3020
Alisa D. Huckaby	Ecology	736-3034
Dale A. Guthrie	WHC/RCRA Closures	376-7542
DAVE TURNER	WHC-WTSP	373-2238
Steve Lijek	GSSC/TWRS/TOP	376-2512
GARY DUKELOW	WHC/WTSP	373-4479
Shirley Long	WHC/Char.	376-5418
DAVE SCHLICK	GSSC/CHAR	376 1187
MARY ANN McLAUGHLIN	WHC/TPAI	376-4084
Dave Einan	EPA	509.376.3883
MARDINE CAMPBELL		
Steve Moore	Ecology	736-3023
THOMAS RANEY	WHC/TWR/SST Prog	509 373-3531
Roger Christensen	DOE/RL	509) 376-8992
Marc ~~[illegible]~~	WHC	(509) 376-9668
Don Engelman	WHC	3-3452
Tom Rainey	HWC	3-3531
WENDELL WRZESINSKI	DOE-RL	(509) 376-6751
Doug Morgan	GSSC/TWRS-Retrieval	(509) 376-0949

Handout 1 #1

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

June 15, 1994
Richland, Washington

9513335.0637

DOUBLE AND SINGLE-SHELL TANK CHARACTERIZATION

MILESTONE M-44-00

TOPICS

- Accomplishments
- FY 1994 Milestone Status
- Special Topics
- Discussion

ACCOMPLISHMENTS

- *Draft Tank Waste Analysis Plan (M-44-01A) was delivered to DOE-RL on March 23, 1994.
- *AN-107 was sludge sampled, C-103 was vapor sampled, SY-103 was auger sampled, and AY-102 was grab sampled.
- *Heated vapor probes were installed in tanks BY-104, BY-105, and BY-106
- *Eleven (11) Data Quality Objective reports have been issued to date.
- Push Mode samples were attempted from Tank 241-C-111. Sampling was unsuccessful due to poor sample recovery.
- Supernate samples were taken from Tanks SY-102 and T-111.
- Vapor samples were taken from Tanks: C-103, C-104, BY-107, and BY-108.

9513335.0638

ACCOMPLISHMENTS (Cont'd)

- *Loaded previous Characterization data from 18 Single-Shell Tanks and Double Shell Tanks into Tank Characterization Database (C-109, C-112, B-201, S-104, T-104, T-111, T-107, BX-107, C-110, T-105, T-102, B-111, AW-105, SY-101, AP-103, AW-106, B-202, and AW-102).

- *Prepared Tank Characterization Plans for sampling Waste Tanks: 241-C-106, 241-C-108, 241-C-111, 241-S-110, 241-AN-107, 241-SY-103, 241-BX-101, 241-AY-102, 241-BY-105, and 241-BY-106.

FY 1994 Milestone Status

- M-44-07 Complete all FY 1992 and 1993 core sample analyses and complete validation of the resulting data.
  - Completed - ahead of schedule - on November 18, 1993
- M-44-04 Input Data from 3 HLW Tanks into Tank Characterization Database by January 31, 1994
  - Completed - ahead of schedule - on January 13, 1994
- M-44-01A Issue Draft of FY95 Tanks Waste Analysis Plan to Ecology and EPA
  - Completed - ahead of schedule - on May 23, 1994
- M-44-05 Issue 20 Tank Characterization Reports.
  - On schedule for completion on September 15, 1994

9513335.0639

FY 1994 Milestone Status (Cont'd)

- M-44-06 Input Data from 20 HLW Tanks into Tank Characterization Database
  - On schedule for completion on September 30, 1994

NOTE: The old M-10 milestone for restart of Rotary Mode Sampling by March 30, 1994 was missed. Current best estimate is now August 3, 1994.

SPECIAL TOPICS

- Status of Rotary-Mode Core Sampling Equipment

PROBLEMS

Getting truck completely repaired, inadequate performance of grapple system, requirement of redesign and replacement of major components. Schedule delays for new equipment development for additional requirements such as truck mounted fresh air breathing provisions and truck mounted communication provisions.

CORRECTIVE ACTIONS

The Rotary Mode truck has been repaired. Four days of training is scheduled as a pre-requisite for performing a demonstration to the Readiness Review Board (RRB) scheduled for June 15. After completing the demonstration the RRB may continue, then DOE-RL will perform its Readiness Review. Once approved by DOE, the truck will be deployed to the field ASAP.

9513335.0640

SPECIAL TOPICS

- Status of Push-Mode Core Sampling Events

PROBLEMS

Initial sampling events of two tanks in C Farm resulted in poor recovery.

CORRECTIVE ACTIONS

Temporarily delaying further push mode sampling. Test plan being prepared using Rotary truck (in push mode) and Push Mode truck with simulants (rotary truck) and real waste (push mode truck) to test alternate procedures and bits.

Issue letter to DOE-RL with action plan by June 15, which will look at different bit construction, push rates, etc. Then real waste will be used to work through the issue.

Recovery problems generally with first segment only. Currently developing/testing auger system that can go 20 inches (vs. 6-9" depth now) as alternate method of getting top segment.

DISCUSSION

- Riser Availability

Problems:

Many SSTs only have 1-3 available risers. Competing for instrument installation through these risers may leave none for Characterization (e.g. Thermocouple trees, LOWs).

Corrective Actions:

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

9513335.0641

Handout 2 #2

HANFORD SITE

FERROCYANIDE SAFETY PROGRAM

THERMOCOUPLE TREE INSTALLATION

presented to

SINGLE SHELL TANK

UNIT MANAGER'S MEETING

by

G. T. DUKELOW

WESTINGHOUSE HANFORD COMPANY

JUNE 15, 1994

THERMOCOUPLE TREE MILESTONES

- M-40-02B Install Six of Twelve New Thermocouple Trees in Ferrocyanide Tanks — Sept 1994

  M-40-02 Upgrade temperature monitoring capabilities in Ferrocyanide tanks. — Apr. 1995

- Risers have been tentatively identified for TC tree installation but require confirmation by visual inspection and use of a go/no-go gauge

- Risers also need to be used for characterization, before TC tree installation

- Characterization will not be accomplished in time to meet either of the 2 TPA milestones

- Best estimate for characterization schedule to establish TC tree installation schedule

- TPA change request to be submitted in August

9513335.0642

TANK TEMPERATURE MEASUREMENT

- Existing TC trees are being connected to Tank Monitor and Control System (TMACS); all tanks complete except T-107 (Sept 1994)
- TC tree temperature measurements are adequate for required surveillance until new TC trees are installed

#3

REMOVAL OF FLOATING ORGANIC LAYER FROM TANK 241-C-103

Interim milestone M-40-04:

- Complete removal of floating organic layer from tank 241-C-103
- Completion date--June 30, 1995

9513335.0643

REMOVAL OF FLOATING ORGANIC LAYER FROM TANK 241-C-103

Technical complexity:

- Difficulty of separating organic/aqueous within the tank
- Difficulty of completing organic/aqueous separation above ground while minimizing radiation exposure
- Required safety class and hazard rating categories more demanding than anticipated

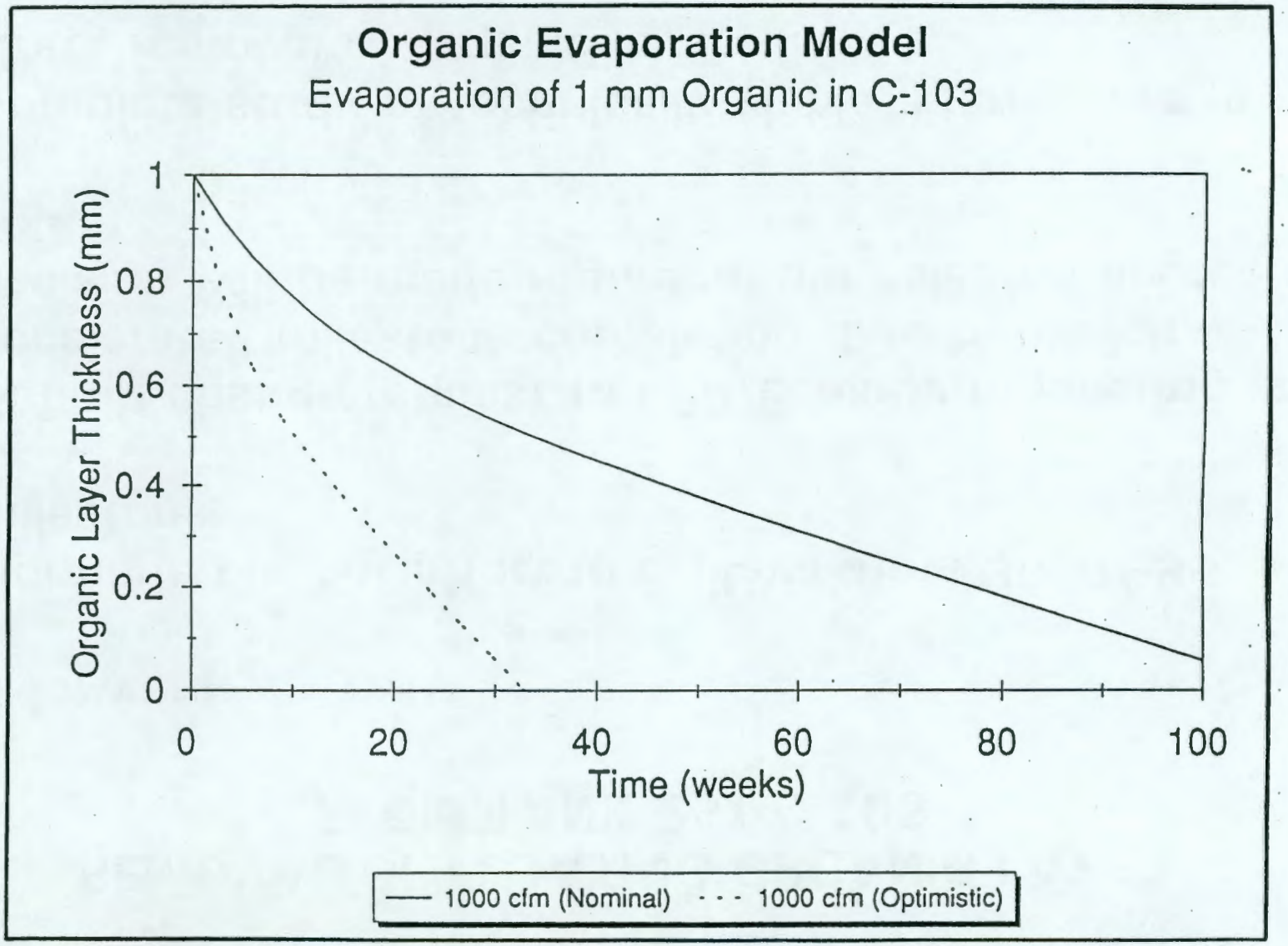
REMOVAL OF FLOATING ORGANIC LAYER FROM TANK 241-C-103

Path forward:

- Continue current effort to achieve June 30, 1995, milestone
- Submit change request to EPA/Ecology requesting an accelerated milestone completion date by which a decision will be made regarding our selected course of action
- Complete study of technically viable alternatives to direct removal of organic layer
- Make decision--continue with current strategy versus technically viable alternative
- Proceed with selected option

9513335.0644

REMOVAL OF FLOATING ORGANIC LAYER FROM TANK 241-C-103



REMOVAL OF FLOATING ORGANIC LAYER FROM TANK 241-C-103

Example:

- Interim stabilization of tank with floating organic layer in place

Key issues:

- Presence of organic in DST/Evaporator System
- Organic adsorption in waste solids

9513335.0645

REMOVAL OF FLOATING ORGANIC LAYER FROM TANK 241-C-103

Organic adsorption in waste solids:

- Sludge simulant
  - Adsorption of TBP/NPH in aqueous wetted solids
  - Ignitability of TBP/NPH (if adsorbed)
- Tank 241-C-103 waste
  - Adsorption of material from floating organic layer in sludge solids
  - Requires retrieval of sludge solids (no archive sample available)

REMOVAL OF FLOATING ORGANIC LAYER FROM TANK 241-C-103

Organic adsorption in waste solids (continued):

- Tank 241-C-102
  - Current status approximates configuration of tank 241-C-103 in interim stabilized condition
  - Retrieve auger core sample of surface solids to confirm laboratory studies

9513335.0646

TRI-PARTY AGREEMENT MILESTONES

WASTE TANK SAFETY PROGRAM

STATUS REPORT AS OF: 05/31/94

No.	Title	Due	Remarks
M-40-01	Complete Tank 241-SY-101 Low Speed Mixer Pump Test. (Interim to SI-2g23 - 09/94)	03/1994	**Complete - 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)	03/1994	**Complete - 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)	03/1994	**Complete - 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)	05/1994	**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)	06/1994	**Complete - 03/17/94.** Completion of this TPA milestone was documented by WHC in a letter to RL dated April 6, 1994.
M-40-06	Complete Vapor Sampling Characterization of Tank 241-C-103 (Phase 2) (SI-2m18 - 06/94)	08/1994	Ahead of schedule. Sample Job #7B was completed on 05/25/94. The draft report has been submitted to RL for review and comment. The Vapor Conference #5 (peer review) has been postponed from June to mid July due to lack of availability of members. This will not impact the schedule.

No.	Title	Due	Remarks
M-40-13	Design and Fabricate a Spare Mixer Pump for Tank 241-SY-101.	09/1994	On schedule. Fabrication is underway on the spare mixer pump. An order has been placed for the trailer and hydraulic system for removal of the current test pump in the event of a pump failure.
M-40-15	Install Gas Monitoring Equipment in the Remaining Five Potentially Flammable DSTs. (Interim to SI-2h36 - 04/95)	09/1994	On schedule. The gas monitoring system installation in tank 103-SY has been completed. Installation for DST 101-AW and the three DSTs in AN farm is scheduled to start in June. A formal MACTEC evaluation of this TPA milestone for the DOE reported that work status was considered satisfactory (no cost or schedule problems).
M-40-02A	Develop Criteria for Upgrading Temperature Monitoring Capabilities in Ferrocyanide. (Interim to SI-2t27 - 12/94)	09/1994	On schedule. A draft document "Criteria for Upgrading Temperature Monitoring in Ferrocyanide Tanks," was completed and transmitted to RL in March 1994. Comments were requested by 05/30/94. No comments have been received from either WDOE or EPA. Further delays in receiving comments may make it difficult to incorporate changes before the milestone due date.

9513335.0647

No.	Title	Due	Remarks
M-40-02B	Install Six of Twelve New Thermocouple Trees. (Interim to SI-2t27 - 12/94)	09/1994	On Hold. All thermocouple tree (TC) installations for SSTs are on hold pending the completion of a new characterization sample schedule (06/30/94). For each tank it is desirable that all needed sampling be completed before risers are dedicated to TC installations. This would impact the current schedule. A TPA change control form will be submitted for consideration when a new TC installation schedule can be developed.
M-40-02	Upgrade Temperature Monitoring Capabilities in Ferrocyanide Tanks. (SI-2t27 - 12/94)	04/1995	On Hold. (See M-40-02B)
M-40-04	Complete Removal of Floating Organic Layer from Tank 241-C-103. (SI-2u33 - 03/95)	06/95	Ahead of schedule. The Preliminary Design Report was issued 05/09/94. Findings from vapor and flammability studies of 103-C have lowered the concern about the presence of the organic layer in the tank. Studies to assess the risk-benefit of alternative less costly approaches for dealing with the organic layer in 103-C are being undertaken.
M-40-07	Commence Operation of a Vapor Treatment System in Tank 241-C-103. (Interim SI-2n19 - 06/94)	06/1995	On schedule. The Layer Modeling Study, the Mitigation Exposure Study, and the Engineering Evaluation of Alternatives will be completed by the end of June. Peer review by the Vapor Sample Conference #5 is scheduled to be completed by July 1994.

No.	Title	Due	Remarks
M-40-05	Complete Safety Alternative Test in High-Heat Tank 241-C-106. (SI-2x38 - 06/95)	09/1995	Ahead of schedule. The process test is continuing (no cooling water will be added during the test). An in tank video was taken on 04/25/94 and 05/27/94. A liquid surface was observed in both cases.
M-40-03	Perform Vapor Characterization for all Ferrocyanide Watch List Tanks. (SI-2o37 - 06/95)	11/1995	Ahead of schedule. Six of 22 suspect ferrocyanide tanks have had initial in situ vapor samples performed.
M-40-08	Perform Vapor Characterization for all Organic Watch List Tanks. (SI-2o37 - 06/95)	11/1995	Ahead of schedule. One of 14 suspect organic tanks has had all sampling completed. Ten Organic SSTs have been added to the Watch List. A TPA change control form will be prepared to add these tanks to the TPA milestone.
M-40-10	Complete Vapor Space Monitoring of all Flammable Gas Generating Tanks.	01/1997	On schedule. (See M-40-15)
M-40-09	Close all Unreviewed Safety Questions (USQ) for Double-Shell & Single-Shell Tanks.	09/1998	On schedule. One USQ (flammable gas tanks) is outstanding and is scheduled for closure in March 1995.
M-40-12	Resolve Nuclear Criticality Safety Issue.	09/1999	On schedule.
M-40-00	Mitigate/Resolve Tank Safety Issues for High Priority Watch List Tanks.	09/2001	On schedule.

9513335.0648

Handout 5 #5

Single-Shell Tanks
Interim Stabilization/Isolation

T. E. Rainey
Single-Shell Tank Unit Managers Meeting

June 15, 1994

ACCOMPLISHMENTS

- Milestone M-41-16A, Start Emergency Pumping T-111

  Milestone Completed

  Pumping continues: about 5000 gallons as of June 13.

- Milestone M-41-01-T03, Start Pumping 2 Tanks in BY Farm

  Milestone Completed

  DCRT full first week of June. Pumping to resume after DCRT transfer

9513335.0649

ACCOMPLISHMENTS CONT.

- Milestone M-41-06, provide Draft Maintenance Training Program

  Milestone complete.

- Milestone M-41-03B, Procure HLLW Cask

  Proposal received from vendor
  Technical review complete
  Waiting for best-and-final proposal

CURRENT ACTIVITIES

Emergency pumping tank 241-T-111 (M-41-16A-T01)

Pumping 241-BY-102 and 109 (M-41-01-T3)

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

Continuing restoration of 244-U double-contained receiver tank (M-41-02-T04)

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

Preparing to pump 7 non-watch list tanks in 241-S farm (M-41-09-T1)

Preparing schedule for pumping Non-Watch List and Organic Tanks in 241-U Farm (M-41-08 & M-41-13)

Completing fabrication drawings for emergency overground piping system (M-41-02-T02)

9513335.0650

THIS PAGE INTENTIONALLY
LEFT BLANK