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Meeting Minutes Draft/Transmittal

DOUBLE-SHELL TANK SYSTEM
Unit Managers Meeting
2440 Stevens Center Place, Room 1600
Richland, Washington

June 15, 1994
9:30 a.m. to 11:30 a.m.

The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above dated Unit Managers Meeting (UMM).

E. E. Clark
E. E. Clark, Unit Manager, RL

Date: 7/24/94

G. R. Konzek
G. R. Konzek, Lead Engineer, MWTf Project, RL

Date: 7/20/94

Not Present
D. L. Duncan, RCRA Program Manager, EPA Region 10

Date: _____

F. Ma
F. Ma, Unit Manager, Washington State Department of Ecology

Date: 7/21/94

Double-Shell Tank System, WHC Concurrence

L. A. Garner
L. A. Garner, Contractor Representative, WHC

Date: 8/4/94

Purpose: Discuss Permitting Process

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

- Attachment 1 — Agenda
- Attachment 2 — Summary of Discussion and Commitments/Agreements
- Attachment 3 — Attendance List
- Attachment 4 — Action Item Summary
- Attachment 5 — Provide Additional Double-Shell Tank Capacity Milestone M-42-00
- Attachment 6 — Replacement of Cross-Site Transfer System Project 93-D-182 (W-058)
- Attachment 7 — Double-Shell Tank Waste Analysis Plan
- Attachment 8 — Double-Shell Tank System Proposed Schedule



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DOUBLE-SHELL TANK SYSTEM
Unit Managers Meeting Agenda
2440 Stevens Center Place, Room 1600
Richland, Washington

June 15, 1994
9:30 a.m. - 11:30 a.m.

1. APPROVAL OF PREVIOUS MEETING MINUTES

- May 18, 1994

2. PROJECT STATUS

- Multi-Function Waste Tank Facility (Milestone M-42) — Glenn Konzek, RL
- Replacement of the Cross-Site Transfer System, Project W-028/058 (Milestone M-43-07) — Gae Neath, RL

3. DOUBLE-SHELL TANK SYSTEM RCRA TOPICS

- Annotated Outline for the DST System Waste Analysis Plan (WAP)
- Proposed schedule for Part B permit application

4. ACTION ITEMS

- Past Actions
12-07-93:1

RL will provide Ecology information in an effort to initiate a project-wide nondisclosure agreement.
ACTION: G. Konzek (RL)

OPEN

- New Actions

5. SCHEDULE OF NEXT MEETING

- Proposed topics
 - Tentative dates (?)
-

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**DOUBLE-SHELL TANK SYSTEM
Unit Managers Meeting
2440 Stevens Center Place, Room 1600
Richland, Washington**

**June 15, 1994
9:30 a.m. to 11:30 a.m.**

Summary of Discussion and Commitments/Agreements

1. APPROVAL OF PREVIOUS MEETING MINUTES

- The May 18, 1994 Unit Manager Meeting minutes were approved and signed.

2. MULTI-FUNCTION WASTE TANK FACILITY

- Mr. G. Konzek (RL) provided an update on the status of the Multi-Function Waste Tank Facility (MWTF) (Attachment 5). Mr. Konzek stated that he would fax Mr. S. McKinney a copy of the Level 2 and 3 schedules, and a copy of WHC's letter responding to DOE-RL's request for reevaluation regarding the schedule if rebaselining efforts would be necessary. Mr. Konzek asked Mr. McKinney at what point the design media should be transmitted to Ecology for review. Mr. McKinney suggested transmitting the information so that Ecology's review would be concurrent with WHC's review.

Mr. Konzek noted that the Title 1 summary report was issued, and a Revision 1 to the Title 1 summary report has been completed. Mr. Konzek stated that he would transmit a copy of Rev 1 and a report on the ventilation scheme to Mr. McKinney.

Mr. F. Ma (Ecology) asked if the October 28, 1994 starting date for construction is a firm date. Mr. Konzek responded that the date may change. Mr. Ma inquired about the possibility of any issues resulting from the EIS causing further delay to the October 1994 start of construction. Mr. Konzek indicated that the public review period could have an impact.

At this time Mr. McKinney, who was in attendance via telecon, left the meeting.

- Ms. G. Neath (RL) provided a status of the replacement of the cross-site transfer system (Attachment 6). Ms. Neath reported that target milestone M-43-07-T1 to complete design in August 1995, and milestones M-43-07-A, B & C for start of construction, completion of construction and operation are all on schedule. Ms. Neath noted that a revised long-lead procurement waiver was submitted June 6, 1994, as a result of combining the environmental assessment due April 1994 with the new tank environmental impact statement due September 1994. Ms. Neath noted that Kaiser estimated the schedule would be impacted if a decision regarding the long-lead waiver is not made by July 1994.

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3. DOUBLE-SHELL TANK SYSTEM RCRA TOPICS

- Mr. C. Mulkey (WHC) distributed a draft waste analysis plan (WAP) (Attachment 7), and provided a brief explanation. Ms. S. Thompson (WHC) noted that the draft WAP was a synopsis of discussions with Ms. M. Lerchen (Ecology), and further discussions would take place during the data quality objective working meetings.

Mr. T. Tebb (Ecology) stated that Ecology has been undergoing reorganization, and that he would be representing the tank waste remediation system (TWRS) coordinator for the field.

- Ms. Thompson distributed a proposed schedule for the Part B permit application (Attachment 8). Ms. Thompson stated that the proposed schedule was extracted from the Hanford Facility permit schedule, and the dates were then backed up. Ms. Thompson noted that the proposed schedule does not allot for incorporation of the cross-site transfer line information or the new tanks into the Part B permit application. WHC is proposing to incorporate those systems into the permit after Title 2 design is completed in an effort to avoid rewriting the permit chapters. Mr. Tebb agreed with the approach, and requested WHC provide a schedule with the new systems incorporated. Ms. L. Garner (WHC) suggested that a schedule for incorporating the new projects be provided at the next Unit Managers Meeting.

4. ACTION ITEMS

- Action item 12-07-93:1, RL will provide Ecology information in an effort to initiate a project-wide nondisclosure agreement. This action item remained open.

5. SCHEDULE OF NEXT MEETING

- The next meeting was scheduled for July 20, 1994. A status on the multi-function waste tank facility, an update on the cross-site transfer line, and a discussion of the draft WAP will be included on the agenda at the next unit managers meeting. Also, a new schedule for the Part B permit application will be provided.

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Attachment 3

DOUBLE-SHELL TANK SYSTEM
Unit Managers Meeting
2440 Stevens Center Place, Room 1600
Richland, Washington

June 15, 1994
9:30 a.m. to 11:30 a.m.

Attendance List

NAME	ORGANIZATION	PHONE #	MSIN
Clifford E. Clark	DOE-RL	(509) 376-9333	A5-15
Lisa A. Garner	WHC	(509) 373-1505	R2-86
Gerry Hendricks	GSSC	(509) 946-3687	B1-42
Joseph M. Jones	WHC	(509) 373-3492	R1-51
Carl Van Katwijk	WHC	(509) 376-9385	B4-52
Brian A. Kendall	WHC	(509) 372-0593	B4-08
Kathy E. Knox	WHC	(509) 372-3596	H6-24
Glenn R. Konzek	RL	(509) 376-8399	R3-73
Steve J. Lijek	GSSC	(509) 376-2512	S7-70
Fenggang Ma	Ecology	(509) 736-3035	B5-18
Scott E. McKinney	Ecology Teleconference	(206) 407-7146	Lacey
Mary Ann McLaughlin	WHC	(509) 376-4084	B2-35
Charles Mulkey	WHC	(509) 373-5609	R1-51
Gae M. Neath	DOE-RL	(509) 376-7828	S7-52
Tom Snider	WHC	(509) 372-2959	S6-30
G. Thomas Tebb	Ecology	(509) 736-3020	N1-05
Suzette A. Thompson	WHC	(509) 372-0958	H6-24

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Attachment 4

DOUBLE-SHELL TANK SYSTEM
Unit Managers Meeting
2440 Stevens Center Place, Room 1600
Richland, Washington

June 15, 1994
9:30 a.m. to 11:30 a.m.

Action Item Summary

<u>Past Item #</u>	<u>Description</u>
12-07-93:1	RL will provide Ecology information in an effort to initiate a project-wide nondisclosure agreement. ACTION: G. Konzek (RL) OPEN

9473277-0530

Attachment 5

**DOUBLE-SHELL TANK SYSTEM
Unit Managers Meeting
2440 Stevens Center Place, Room 1600
Richland, Washington**

**June 15, 1994
9:30 a.m. to 11:30 a.m.**

**Replacement of Cross-Site Transfer System
Project 93-D-182 (W-058)**

9473277-0539

**REPLACEMENT OF THE
CROSS-SITE TRANSFER SYSTEM**

PROJECT 93-D-182 (W-058)

**G. M. NEATH
RL, TANK WASTE PROJECTS**

June 15, 1994

TPA Milestone M-43-07
Replacement of the Cross-Site Transfer System

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.**

TPA Milestone M-43-07
Replacement of the Cross-Site Transfer System

Accomplishments (Last six months)

- **Received Key Decision 2 approval, February 1994.**
- **Preliminary Safety Analysis Report (PSAR) has been approved by WHC, January 1994.**
- **Issued Preliminary Design Fire Hazards Analysis Report, May 1994.**
- **Submitted Revised Long-Lead Procurement Waiver, June 1994.**

TPA Milestone M-43-07

Replacement of the Cross-Site Transfer System

Planned Actions (Next six months)

- **Obtain National Environment Policy Act (NEPA) documentation approval, September 1994.**
- **Continue Title II Design**

TPA Milestone M-43-07
Replacement of the Cross-Site Transfer System

Special Topics

- **Concerns**
 - **Schedule delays of the NEPA activities could impact TPA Milestones.**

TPA Milestone M-43-07
Replacement of the Cross-Site Transfer System

Special Topics (Continued)

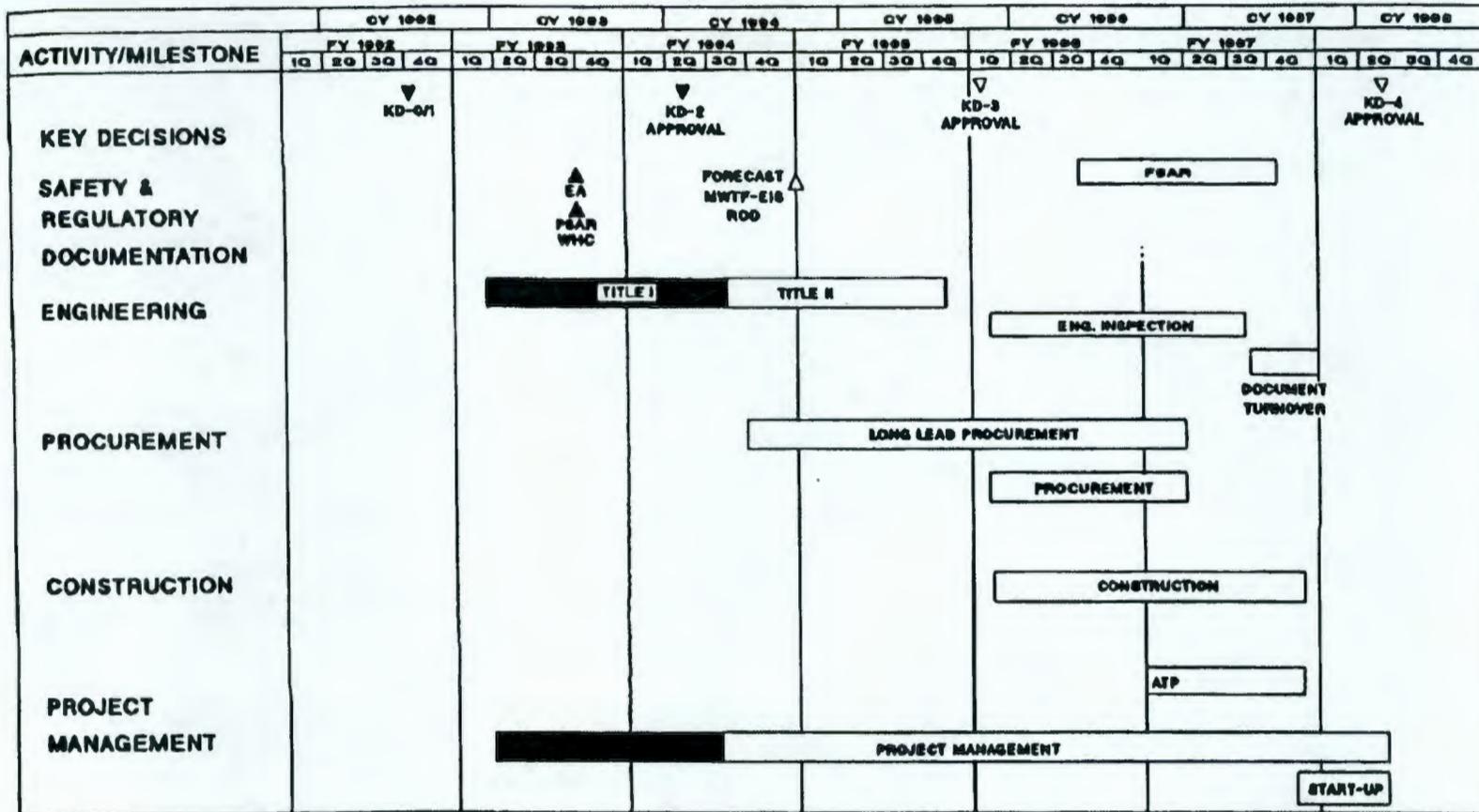
● **Cost/Schedule Assessment**

	Current Period May 1994	Cumulative to Date	At Completion
Budget Cost Work performed (BCWP)	315.3	2,889.9	52,700.0
Budget Cost Work Scheduled (BCWS)	514.4	4,495.6	52,700.0
Actual Cost Work Performed (ACWP)	241.8	2,827.9	52,700.0
Variances:			
Costs	73.5	62.0	0.0
Schedule	-195.1	-1,605.7	0.0

Variance Explanation: Title II Design mobilization cost was less than planned, and Key Decision 2 approval delayed Title II Design start from September 1993 to March 1994.

TPA Milestone M-43-07 Replacement of the Cross-Site Transfer System

Replacement of Cross Site Transfer System Project Summary Schedule



NOTES:
 1. CDR Approved March 1991
 2. PSE Issued January 1991
 3. KD 2 Approved February 1994

SAFETY/REGULATORY DOCUMENTS
 PSE = PRELIMINARY SAFETY EVALUATION
 PSAR = PRELIMINARY SAFETY ANALYSIS REPORT
 FSAR = FINAL SAFETY ANALYSIS REPORT
 EA = ENVIRONMENTAL ASSESSMENT

KEY DECISIONS:
 0: Approve Mission Need
 1: Approve New Start
 2: Start Detailed Design
 3: Start Procurement
 4: Start Construction
 5: Start Operations

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Attachment 6

**DOUBLE-SHELL TANK SYSTEM
Unit Managers Meeting
2440 Stevens Center Place, Room 1600
Richland, Washington**

**June 15, 1994
9:30 a.m. to 11:30 a.m.**

**Provide Additional Double-Shell Tank Capacity
Milestone M-42-00**

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**PROVIDE ADDITIONAL DOUBLE-SHELL
TANK CAPACITY**

MILESTONE M-42-00

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

June 15, 1994

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

Open Commitments

- **RL will provide Ecology information in an effort to initiate a project-wide nondisclosure agreement.**

ACTION: G. Konzek (RL)

- **RL will provide Ecology a Level 0 summary schedule with trending information.**

ACTION: G. Konzek (RL)

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

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**

- **M-42-01-T2** **Initiate construction of the MWTF 200W Area tanks. 09/94**

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

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**

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

Accomplishments (Last three months)

- **Issued Title I Summary Report**
- **Received approval for Key Decision 2**
- **Received approval on Level 0 Baseline Change Proposal (BCP) for project rescoping & acceleration.**
- **Approved Functional Design Criteria (FDC), Revision 1**
- **Preliminary Safety Analysis Report (PSAR) has been issued by WHC.**
- **Issued Preliminary Design Fire Hazards Analysis Report**

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

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

- **Obtain approval for Key Decision 3A**
- **Obtain National Environment Policy Act (NEPA) documentation approval**
- **Continue Title II Design**
- **Revise Project Plan based upon BCP & Title I approvals**

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

Special Topics**● Concerns**

- **The EIS activities are slipping causing concern of impacts to TPA Milestone M-42-02-T1**
- **PSAR review is ongoing, however progressing slow**
- **Delegation of authority for local approval of Key Decisions is progressing slow (may make it more challenging MWTF's KD 3A).**

TPA Milestone M-42-00**Provide additional double-shell tank capacity****Special Topics (Continued)**

Cost/Schedule Assessment	Current Period April 25 - May 29	Cumulative to Date
Budget Cost Work Performed (BCWP)	1,837.1	26,960.9
Budget Cost Work Scheduled (BCWS)	1,710.1	27,318.8
Actual Cost Work Performed (ACWP)	2,016.3	28,506.4
Variances:		
Schedule	127.1	(357.9)
Cost	(179.1)	(1,545.5)

As of end of May 29

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

Variance Explanation:

Cost

- No approved EIS budget
- PSAR costs were higher than anticipated
- PM moving cost

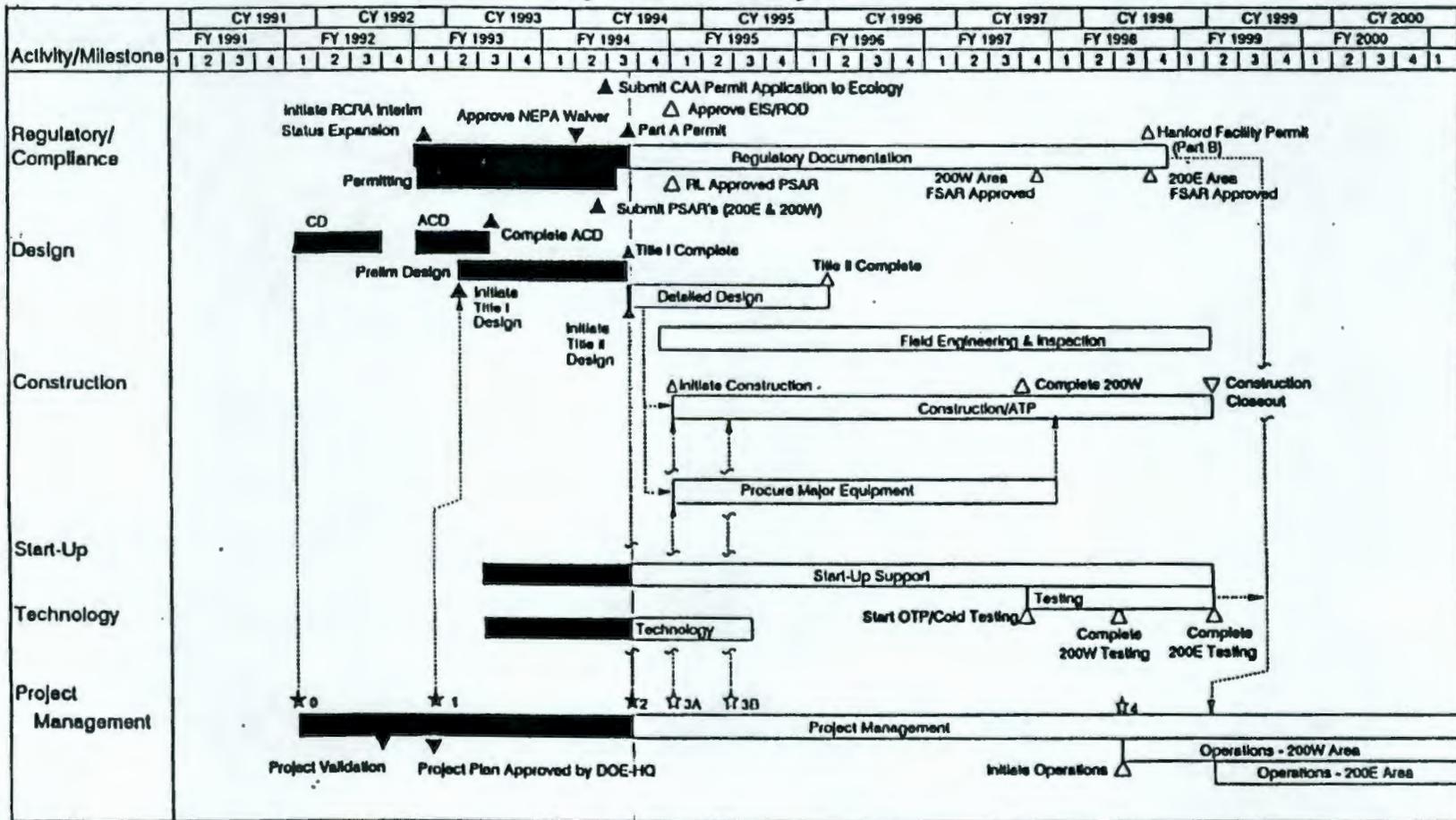
Schedule

- **Technology:** Portions of Design required rework due to changes in heat removal system & refining of structural model based on final soils evaluation Report; and also resources were shifted to more critical areas (K Basin), however work will finish this FY without impact to design.
- **Regulatory Compliance:** Behind due to air permitting receiving flow diagrams late, however a recovery schedule is being developed.

TPA Milestone M-42-00

Provide additional double-shell tank capacity

Hanford Multi-Function Waste Tank Facility Project Summary Schedule



LEGEND: ☆ Key Decisions △ DOE-RL Controlled Milestone ▽ DOE-HQ Controlled Milestones

ACRONYMS:

- | | |
|----------------------------------|---|
| ACD - Advanced Conceptual Design | FSAR - Final Safety Analysis Report |
| ATP - Acceptance Test Procedure | OTP - Operations Test Procedure |
| CD - Conceptual Design | PSAR - Preliminary Safety Analysis Report |
| EA - Environmental Assessment | RCRA - Resource Conservation and Recovery Act |

- | | | |
|----------------|-----------------------------------|---------|
| ☆ Key Decision | 0. Approve Mission Need | |
| | 1. Approval of New Start | 1/29/83 |
| | 2. Start Detailed Design | 5/17/84 |
| | 3A. Start Procurement | 9/30/84 |
| | and Construction (Selected Pkgs) | |
| | 3B. Start Procurement | 1/16/85 |
| | and Construction (Remaining Pkgs) | |
| | 4. Start Operations | 2/28/86 |

Status as of: 5/28/84

Attachment 7

**DOUBLE-SHELL TANK SYSTEM
Unit Managers Meeting
2440 Stevens Center Place, Room 1600
Richland, Washington**

**June 15, 1994
9:30 a.m. to 11:30 a.m.**

Double-Shell Tank Waste Analysis Plan

9473277-0558

**Double-Shell Tank
Waste Analysis Plan
6/14/94**

The following is a description of the contents of the Double-Shell Tank (DST) System Waste Analysis Plan (WAP). The DST System WAP will be used to obtain data needed for the safe storage and handling of the waste contained in and received by the DST System. The plan will address data needs from all phases of the stored waste (gas, liquid, and solid). The organization and content of the DST System WAP will be based on regulatory requirements contained in WAC 173-303-300, 40 CFR 264.13, 40 CFR 265.13, 40 CFR 265.200 and will follow the Environmental Protection Agency (EPA) Draft Waste Analysis Plan Guidance Manual. Some of the requirements mentioned in Tri-Party Agreement (TPA) milestone M-44 will be included in addition to the above regulatory requirements. Each of the major sections of the DST System WAP is referenced to specific regulatory citations, EPA guidance manual section, and/or other requirements. The introduction and reference sections are added for user information.

The Data Quality Objective (DQO) process is being used to determine the actual data requirements to be contained in the DST System WAP. The content of Sections II, III, IV and V will be based on information from various DQOs. The content of the remaining sections will be similar to that contained in the current DST System WAP, but with updated information.

Note: Information requirements in the actual DST System WAP will be based on results from the pertinent DQOs and will be similar but not identical to those contained in this outline. Information contained in the tables in this outline is for format illustration purposes only and not for actual use.

Introduction:

This section will state the purpose of the DST System WAP and describe its relationship with the Tank Waste Analysis Plan and Tank Characterization Plan.

I. Facility Description: (Section 2.1)

- A. Description of the DST System:** Describes the design parameters, waste management procedures, and waste management processes. This section will be similar in content to the current DST System WAP, but will include updated information.

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- B. Identification of the Types and Quantities of Hazardous Waste: Describes the types and EPA/Ecology classification of waste to be managed in the DST System. Includes waste codes, treatability groups, and a description of processes that produced the waste. Waste that cannot be accepted will be identified with the rationale for exclusion. This section will be arranged in a chart, similar to Table 1.

TABLE 1: Waste Received by the DST System

Facility	Identity of Waste	Process Generating Waste	Rationale for Waste Designation	EPA Waste Code	LDR Waste
T Plant	Liquid mixed waste from 2706-T	Equipment decontamination	Mixture with listed waste	D001-D011, D018, D019, WPO2	Yes
SST	Waste transfer from 242A-Evaporator	Concentration of waste through the removal of volatiles.	Previously assigned waste codes	D001-D009, WPO2, PO63	Yes
DST	Waste transfer from 102-SY	Transfer from SST	Previously assigned waste codes	D002, D009, D0028, WC01	Yes
340 Facility	Liquid from the Radioactive Liquid Waste System	Removal of waste in the Radioactive Liquid Waste System	Mixture with listed waste	D002, D009, D0028, WC01	Yes

- C. Description of Waste Management Units: Contains descriptions of the changes that will occur to the waste while stored in the DSTs. The changes will be minimal, since the DSTs store waste prior to shipment to treatment and disposal facilities. The changes described will include the addition of water to high heat tanks and pH adjustments by the addition of caustic.
- D. Waste Acceptance Criteria: Contains information that must be furnished prior to waste acceptance into the DST System and prior to transfers within the DST System. This information will be used to assure the safe handling of the waste, evaluate the waste for conformance to specific parameter limits and for any other operational consideration. The limits (such as pH and EPA waste codes) will be indicated in chart form. The parameter limits and information requirements are subject to change as regulations, operating conditions, new DQOs or other restrictions warrant. Deviation from these

requirements will only be allowed if the conditions and procedures included in "Special Procedural Requirements" (section VI) are followed.

Waste acceptance information required for units, other than the SST System and DST System are indicated in Table 2. Information needed prior to shipment of waste from SSTs or DSTs into a DST are included in Table 3. Applicable limits will be added to these tables or incorporated into a separate table.

Table 2: Information Required Prior To Waste Acceptance Approval For Transfers From Sources Other Than Double Shell Tanks and Single Shell Tanks

INFORMATION	JUSTIFICATION
List of all waste codes	WAC 173-303-070 WAC 173-303-380 (2)(a) WHC-CM-7-5 (7.6.2.2)
Organic content of the waste (% TOC and presence of a free hydrocarbon layer)	WAC 173-303-300 (2)
Statement on whether or not the waste has changed since it was last shipped.	WAC 173-303-300 (4)(a)
Description of waste as it will appear on the manifest or shipping paper.	WAC 173-303-300 (4)(b)
Detailed chemical and physical analysis of the waste. Copies of lab results should also be submitted. Analyses must include Inductively Coupled Plasma (ICP), Ba, Cd, Cr, Pb, Ag, As, Hg, Se, NO ₂ ⁻ , NO ₃ ⁻ , OH ⁻ , TOC, volatile organic analysis (VOA), Pu, and differential Scanning Calorimeter.	WAC 173-303-300 (2)
Quantity of waste and when shipment is expected.	WAC 173-303-380 (1)(a)
Certification as to the applicability of any Land Disposal Restrictions (LDR)	40 CFR 268.7 (a)(2) WAC 173-303-140
Material Balance	WAC 173-303-380 (2)(b)
Authorized signature for shipment	WHC-CM-7-5 (7.8.2.1 (8,c)
Compatibility	WAC 173-303-300 (2)
Heat generation	WAC 173-303-300 (2)
Generators WAP on file with DST Environmental Engineering	WAC 173-303-300 (5)(e)

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TABLE 3: Information Required Prior For Waste Acceptance Approval For Transfers From Double Shell Tanks and Single Shell Tanks

INFORMATION	JUSTIFICATION
List of all waste codes	WAC 173-303-070 WAC 173-303-380 (2)(a) WHC-CM-7-5 (7.6.2.2)
Organic content of the waste (% TOC and presence of a free hydrocarbon layer)	WAC 173-303-300 (2)
Description of waste as it will appear on any shipping papers.	WAC 173-303-300 (4)(b)
Chemical and physical analysis of the waste in detail sufficient to address all operational parameters including compatibility issues.	WAC 173-303-300 (2) and
Quantity of waste and when shipment is expected.	WAC 173-303-380 (1)(a)
Statement as to the applicability of any Land Disposal Restrictions (LDR)	40 CFR 268.7 (a)(2) WAC 173-303-140
Material Balance	WAC 173-303-380 (2)(b)
Authorized signature for shipment	WHC-CM-7-5 (7.8.2.1,(8) (c)) WAC 173-303-180 (3)
Compatibility	WAC 173-303-300 (2)
Heat generation	WAC 173-303-300 (2)

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Analysis Parameters: (WAC 173-303-300 (5)(a) and EPA manual section of 2.2)

A. Criteria and Rationale for Analysis Parameter Selection: Includes a description of the parameters identified for testing, analysis, or monitoring as determined through the DQO process. The rationale for selecting the parameters as determined during the DQO process will also be included. Required analyses will be limited to:

1. Fingerprinting waste received to verify the appropriate waste was received (as determined by the DQO). It will not be the intent of the fingerprinting to confirm generator waste designations unless required by the DQO.

2. Obtaining other information necessary for the safe storage and/or handling of the waste which has been identified by the DQO.

Most of the analytical requirements will be based upon existing safety issue-based DQOs. Additional waste analysis data requirements identified by the DST System WAP DQO will also be incorporated into the DST System WAP. Analytical requirements are expected to change with the issuance of new regulations and the issuance and modification of DQOs. Table 4 presents a partial list of DQOs which will be reviewed. Testing requirements contained from DQOs that are reviewed and which pertain to DSTs will be summarized in a table similar to Table 5

TABLE 4: DQOs to be Reviewed for DST System WAP Data Requirements

ABBREVIATED TITLE OF DQO	DOCUMENT NUMBER
Tank Safety Screening	WHC-SD-WM-SP-004
Rotary Core Vapor Sampling	WHC-SD-WM-SP-003
DST Core Flammable Gas	WHC-SD-WM-DQO-004
Waste Compatibility	WHC-SD-WM-DQO-001
Generic In-Tank Health and Safety Vapor Issue Resolution	WHC-SD-WM-DQO-002
Crust Burn Associated with Flammable Gas Tanks	WHC-SD-WM-DQO-003

Table 5: DQO Testing Requirements

Title of DQO	Required Analysis	Test Methods
Rotary Sampling Core Vapor Sampling	Inorganic gases	NIOSH 6010, OSHA ID- 182/188/190/200, EPA
Tank Safety Screening	Fuel Energy Total Alpha % Moisture % Lower flammability limit	None specified
Crust Burn for Rotary Core Drilling	Differential Scanning Calorimeter If DSC over 140, then radionuclides are also needed	None specified

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- B. Special Parameter Selection: Describes procedures for addressing special analytical needs. Includes procedures for accepting new waste streams, addressing missing data, and/or for adding or deleting analysis on a case by case basis. These data requirements will be determined in the DQO.

III. **Selection of Sampling Procedures:** (WAC 173-303-300(5)(b)(c), Section 2.3)

- A. Sampling Methods and Equipment: Includes a description of the sampling methods and equipment to be used, referring to Hanford approved sampling procedures. Due to concerns relating to radiation exposure, these methods may deviate from those published in SW-846.
- B. Sampling Preservation and Storage: Samples will be preserved and stored as required by the selected sampling and analytical procedures.
- C. Sampling QA/QC Procedures: Identifies the QA/QC procedures that will be used for obtaining samples. This section will name a document that will contain the QA/QC procedures to be followed. The exact content will be determined in the DQO.
- D. Health & Safety Protocols for Sampling: Requires that only properly trained personnel may be used to obtain samples. Requires the use of all appropriate protective equipment.

IV. **Laboratory Selection:** (WAC 173-303-300(5)(b)(c), Section 2.4)

- A. Laboratory Selection: Provides the rationale and requirements for laboratory selection. Requirements will include 1) adequately trained personnel, 2) adequate QA/QC procedures, and 3) ability to safely handle the waste samples. Due to the radioactive nature of the waste, there are only a few laboratories that can conduct the analyses. Rationale for laboratory selection will be addressed in the DST System WAP DQO.
- B. Analytical Methods: Describes the methods that will be used for analysis. The analytical methods will be selected from those approved for use at Hanford. The rationale for the selection of methods will be addressed during the DQO process. The selected Hanford approved methods may deviate from methods contained in SW-846 and ASTM to address Hanford-specific problems, such as radiation exposure.

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V. Waste Re-evaluation: (WAC 173-303-300 (5)(d), Section 2.5)

Provides the rationale to be used for the re-evaluation of waste streams. This section includes a set of frequencies for waste review and a description of new waste created during waste handling. It is anticipated that the waste will be reviewed at least every two years, or when it is anticipated that the waste composition has materially changed. The specific period for reviewing continuing waste streams will be resolved during the DQO process.

VI. Special Procedural Requirements: (Section 2.6)

Contains a description of any special procedures to be followed for special waste to ensure compliance with the regulations. Describes procedures to be followed in the event of unusual circumstances. The content and scope of this section will be discussed during the DQO.

VII. Reference:

Provides a list of documents that are referenced by the DST System WAP or used in support of the DST System WAP.

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Attachment 8

**DOUBLE-SHELL TANK SYSTEM
Unit Managers Meeting
2440 Stevens Center Place, Room 1600
Richland, Washington**

**June 15, 1994
9:30 a.m. to 11:30 a.m.**

**Double-Shell Tank System
Proposed Schedule**

9403277.0566

9443277-0568

Double-Shell Tank (DST) System

Proposed Schedule

#	Name	Start	Finish	1991	1992	1993	1994	1995	1996	1997	1998	1999
	Hanford Facility Permit Mod. D	8/1/97	7/1/98								 335d	
1	Draft Permit Modification Preparation	8/1/97	1/27/98								 180d	
2	Public Review/Comment	1/28/98	3/28/98								 60d	
3	Comment Incorporation	3/29/98	5/27/98								 60d	
4	30-Day Waiting Period/Appeal Submittal	5/28/98	6/26/98								 30d	

Distribution

L. D. Arnold	WHC	ADM-SPI	B2-35
D. C. Board	WHC	ESQ-QA	S1-57
R. C. Bowman	WHC	RR-RS	H6-24
R. M. Carosino	RL	OCC	A4-52
C. E. Clark	RL	EAP-RPS	A5-15
R. A. Dodd	WHC	TWRS Plant	R1-51
D. L. Duncan	EPA		HW-106
D. Dunning	Oregon DOE		
D. G. Farwick	WHC	ESQ-QA	H4-16
R. L. Fritz	WHC	TWR-CP	B4-08
C. J. Geier	WHC	TWRS Plant	R2-50
L. A. Garner	WHC	TWRS Plant	R2-86
R. D. Gustavson	WHC	TWRS Plant	R1-51
A. Hon	RL	TOP/TST	R3-72
M. N. Islam	WHC	ESQ-SFT	R3-08
B. A. Kendall	WHC	TWR-CP	B4-08
G. R. Konzek	RL	TWP-MRF	R3-73
S. J. Lijek	MACTEC	GSSC	R3-77
F. Ma	Ecology		N1-05
P. J. Mackey	WHC	GCO-EC	B3-15
M. A. McLaughlin	WHC	ADM/SPI	B2-35
S. E. McKinney	Ecology		Lacey
G. M. Neath	RL	TWP-CSTS	S7-52
S. M. Price	WHC	RR-RS	H6-23
C. O. Rudd	RL	TOP/TST	R3-72
T. J. Snider	WHC	TWRS Plant	R2-86
C. M. Smith	WHC	RR-RS	H6-30
S. A. Thompson	WHC	RR-RS	H6-24
H. T. Tilden II	PNL	LAB SAF	P7-79
RCRA Files/GHL	WHC	RR-RS	H6-23

ADMINISTRATIVE RECORD: Double-Shell Tank System, S-2-3, WHC EPIC, H6-08

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Please send comments on distribution list to S. A. Thompson, H6-24, 372-0958.

9443277-0569