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		Date May 1995
Project Title/Work Order DOUBLE-SHELL TANK WASTE SYSTEM ASSESSMENT STATUS & SCHEDULE		EDT No. 612144
		ECN No. N/A

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ENGINEERING DATA TRANSMITTAL

Page 1 of 1
1. EDT No 612144

2. To: (Receiving Organization) Environmental Clean-Up & Compliance Project	3. From: (Originating Organization) Life Extension Engineering	4. Related EDT No.: N/A
5. Proj./Prog./Dept./Div.: 74400/11185	6. Cog. Engr.: E. J. Walter	7. Purchase Order No.: N/A
8. Originator Remarks: For review and approval.		9. Equip./Component No.: N/A
		10. System/Bldg./Facility: N/A
11. Receiver Remarks:		12. Major Assm. Dwg. No.: N/A
		13. Permit/Permit Application No.: N/A
		14. Required Response Date: 05/30/95

15. DATA TRANSMITTED					(F)	(G)	(H)	(I)
(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	Impact Level	Reason for Transmittal	Originator Disposition	Receiver Disposition
1	WHC-SD-WM-ETP-153		0	DOUBLE-SHELL TANK WASTE SYSTEM ASSESSMENT STATUS & SCHEDULE	N/A	1	1	

16. KEY			
Impact Level (F)	Reason for Transmittal (G)		Disposition (H) & (I)
1, 2, 3, or 4 (see MRP 5.43)	1. Approval 2. Release 3. Information	4. Review 5. Post-Review 6. Dist. (Receipt Acknow. Required)	1. Approved 2. Approved w/comment 3. Disapproved w/comment 4. Reviewed no/comment 5. Reviewed w/comment 6. Receipt acknowledged

(G)	(H)	17. SIGNATURE/DISTRIBUTION (See Impact Level for required signatures)								(G)	(H)
Reason	Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN	(J) Name	(K) Signature	(L) Date	(M) MSIN	Reason	Disp.
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18. Signature of EDT Originator E. J. Walter 4/9/95	19. Authorized Representative for Receiving Organization C. J. Geier R.D. Gustafson for 6/8/95	20. Cognizant/Project Engineer's Manager K. V. Scott 6-12-95	21. DOE APPROVAL (if required) Ltr. No. <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/comments <input type="checkbox"/> Disapproved w/comments
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RELEASE AUTHORIZATION

Document Number: WHC-SD-WM-ETP-153, Rev. 0

Document Title: Double-Shell Tank Waste System Assessment Status & Schedule

Release Date: ^{6/13}
3/24/95

This document was reviewed following the procedures described in WHC-CM-3-4 and is:

APPROVED FOR PUBLIC RELEASE

WHC Information Release Administration Specialist:

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SUPPORTING DOCUMENT

1. Total Pages 20

2. Title

DOUBLE-SHELL TANK WASTE SYSTEM ASSESSMENT STATUS & SCHEDULE

3. Number

WHC-SD-WM-ETP-153

4. Rev No.

0

5. Key Words

DST System, Integrity Assessment, Waste Transfer, WAC

6. Authors

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Organization/Charge Code: 74400/N1185

7. Abstract

This document describes the double-shell waste tank system to enable performance of integrity assessment activities. Also included are the status of on going assessment activities and a projected schedule of future assessment activities.

8. RELEASE STAMP

OFFICIAL RELEASE
BY WHC
DATE JUN 14 1995
35 Station 21

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DOUBLE-SHELL TANK WASTE SYSTEM ASSESSMENT STATUS & SCHEDULE

1.0 INTRODUCTION

The integrated program for completing the integrity assessments of the dangerous waste tank systems managed by the Tank Waste Remediation System (TWRS) Division of Westinghouse Hanford Company is presented in the Tank Waste Remediation System Tank System Integrity Assessments Program Plan, WHC-SD-AP-017, Rev. 1. The program plan identified the assessment requirements and the general scope to which these requirements applied. Some of these assessment requirements have been met and others are either in process of completion or scheduled to be worked.

2.0 OBJECTIVE

The objective of this document is:

- 1) To define the boundary of the double-shell tank (DST) system and the boundaries of the DST system components (or system parts) for the purpose of performing integrity assessment activities;
- 2) To identify the planned activities to meet the assessment requirements for each component;
- 3) Provide the status of the assessment activities; and
- 4) Project a five year assessment activity schedule.

3.0 SCOPE

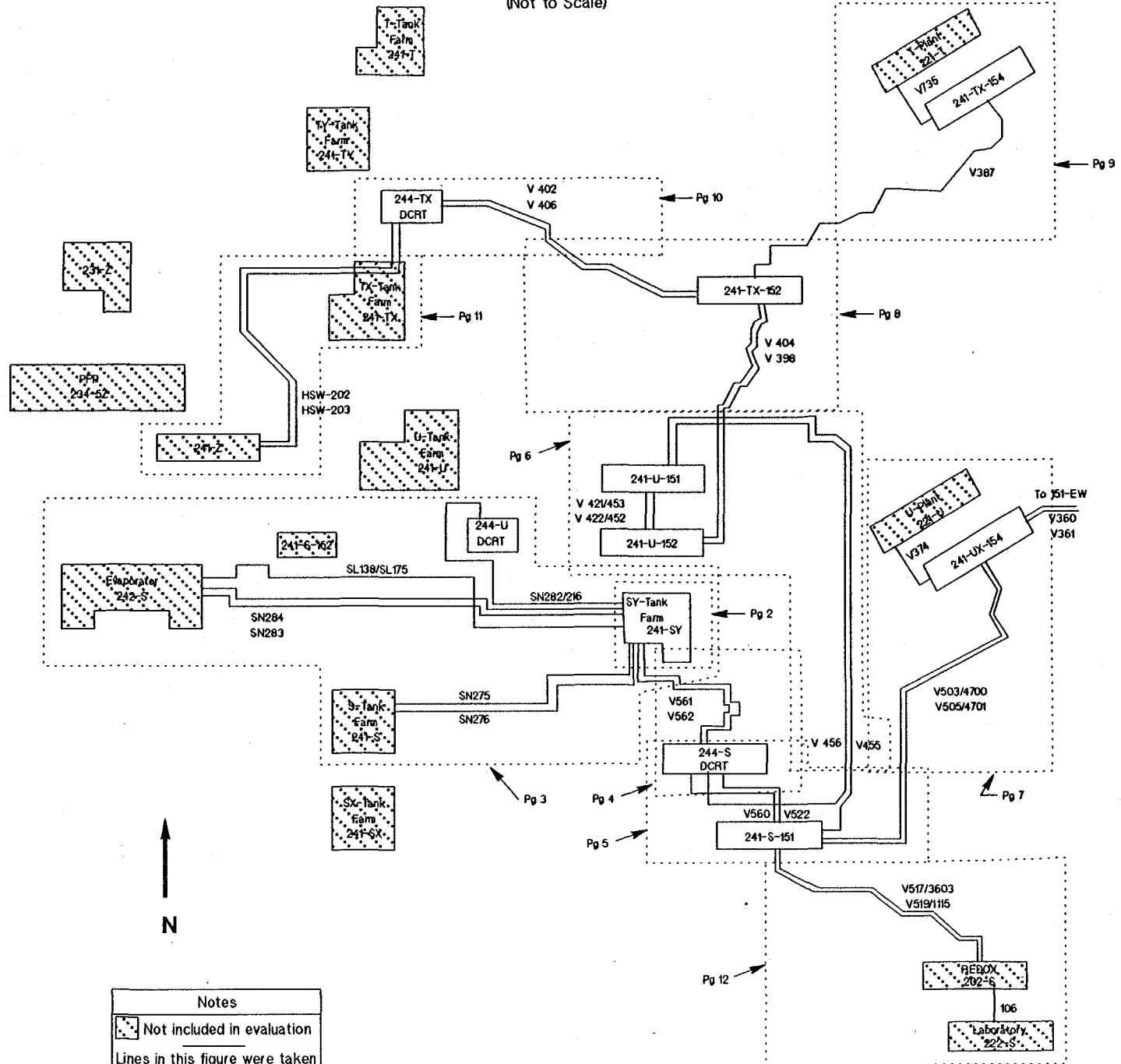
The general scope of the DST system is described in Figures 1 and 2. A more detailed scope of the components comprising the DST system may be found in Section 4.0.

4.0 DESCRIPTION

This section divides the system into components (or parts), then defines the components, thereby, establishing manageable units of assessment activities.

Figure 2. Transfer Piping Plan 200W Area

(Not to Scale)



Notes

Not included in evaluation

Lines in this figure were taken from the routing board

4.1 DSTS

The DSTs are defined as the primary and secondary tanks (including nozzles to the first mechanical joint away from the tank (the drain piping to the tank from a pump pit or other pits above the tank is a part of the DST), the supporting structure, the leak detection system, and the primary ventilation system seal pots, along with piping from the liquid collection point to the seal pot. The 241-A-417 & 241-AZ-154 condensate collectors, from the point of collection to the return point in the system, are also in the DST system scope.

The seal pots and piping servicing the secondary ventilation systems are not in scope.

4.2 242A

The scope of the 242A Evaporator is described in WHC-SD-WM-ER-124.

4.3 DCRTS

The scope of the following DCRTs is described in WHC-SD-WM-PLN-068.

244A
244BX
244S
244TX
244U

4.4 A350 LIFT STATION, 204AR, & 244CR VAULT

241-A-350 Lift Station - The scope includes the catch tank, waste transfer piping and pump between the pit and the tank, jumpers used in the pit and the secondary containment. The secondary containment consists of the pit structure and the caisson lined structure below the pit, which contains the tank. See H-2-70538 for details.

204AR Unloading Facility - The scope includes Tank Tk-1, the waste transfer pumps and piping between the off-loading tank, Tk-1, and the 241-A-A Valve Pit and the secondary containment for this equipment. The secondary containment consists of the facility structure and piping designed to contain the leakage from the waste transfer piping and Tk-1. See H-2-70703, H-2-70704, and H-2-70706 for further details.

244CR Vault - The scope includes Tank Tk-CR-003, the jumper to the supply line, SN-275, and the pump and discharge line to V-244 #3. The secondary containment consists of the vault structure housing Tk-CR-003, which includes a sump. See H-2-40180, H-2-41496, and reference drawings for further detail.

4.5 CATCH TANKS

The scope includes the catch tank and the discharge line from the catch tank to first mechanical joint on the discharge side of the pump. The drain line(s) from the spillage or leakage collection point to the catch tank, pits, and structures or equipment serving as secondary containment are also in scope.

241-S-304 - This catch tank collects drainage from the 241-S-151 Diversion Box. This installation is generally described on H-2-85031.

241-U-301 - This catch tank collects drainage from the 241-U-151 and the 241-U-152 Diversion Boxes. This installation is described on H-2-71653.

241-TX-302C - This catch tank collects drainage from the 241-TX-154 Diversion Box. This installation is described on H-2-71660.

241-UX-302 - Drainage is collected from the 241-UX-154 Diversion Box. The installation is described on H-2-71665.

241-EW-151 - Drainage at the cross site transfer line vent station is collected. See sheet 63 of dwg. H-2-2338 and reference drawings for the installation description.

241-ER-311 - Drainage is collected from the 241-ER-151 Diversion Box. The installation is described on H-2-71670.

241-A-302A - Drainage is collected from the 241-A-151 Diversion Box. The installation is described on H-2-71644.

241-AZ-151 - Drainage is collected from the 241-AZ-152 Diversion Box and other sources. See drawings H-2-68368, H-2-68335, and reference drawings for a description of the installation.

241-AX-152 - Drainage is collected from 241-AX-155. This installation also serves as a diversion box. See drawings H-2-44681, H-2-64400 and reference drawings for function and description.

4.6 PITS AND PIT EQUIPMENT

The scope, for the purpose of this plan, includes the valve pits, pump pits, sluice pits, diversion boxes, and such structures that serve as secondary containment for "in scope" waste transfer piping having jumpers, valves, pumps or other non-permanent mechanical joints. The equipment, in the pits, intended to contain waste is also in scope.

A list of these pits is provided in Table 4.1 to avoid confusing these pits with those located in facilities or out of scope areas.

Table 4.1. Waste Transfer Pits.

Pit Identification	Pit Description	Reference Drawing	Remarks
West Area			
241-EW-151	Vent. Sta. Div. Box	H-2-43148	
241-S-151	Diversion Box	H-2-71664	
241-SY-A	Valve Pit	H-2-37780	
241-SY-B	Valve Pit	H-2-37780	
241-SY-01A	Pump Pit	H-2-37801	
241-SY-02A	Pump Pit	H-2-37802	
241-SY-02D	Drain Pit	H-2-37802	
241-SY-02E	Feed Pump Pit	H-2-37802	
241-SY-03A	Pump Pit	H-2-37803	
241-TX-152	Diversion Box	H-2-71485	
241-TX-154	Diversion Box	H-2-71660	
241-U-151	Diversion Box	H-2-44511(62)	
241-U-152	Diversion Box	H-2-44511(62)	
241-UX-154	Diversion Box	H-2-71665	
East Area			
241-A-A	Valve Pit	H-2-69188	
241-A-B	Valve Pit	H-2-69188	
241-AN-A	Valve Pit	H-2-71989	
241-AN-B	Valve Pit	H-2-71989	
241-AN-01A	Central Pump Pit	H-2-71991	
241-AN-01E	Supernatant Receiver Pit	H-2-73843	
241-AN-02A	Central Pump Pit	H-2-71992	
241-AN-03A	Central Pump Pit	H-2-71993	
241-AN-04A	Central Pump Pit	H-2-71994	
241-AN-05A	Central Pump Pit	H-2-71995	
241-AN-06A	Central Pump Pit	H-2-71996	
241-AN-07A	Central Pump Pit	H-2-72039	
241-AP	Valve Pit	H-2-90551	
241-AP-01A	Central Pump Pit	H-2-90553	
241-AP-02A	Central Pump Pit	H-2-90554	
241-AP-02D	Pump Pit	H-2-90554	
241-AP-03A	Central Pump Pit	H-2-90555	
241-AP-03D	Drain Pit	H-2-90555	
241-AP-04A	Central Pump Pit	H-2-90556	
241-AP-05A	Central Pump Pit	H-2-90557	
241-AP-06A	Central Pump Pit	H-2-90558	
241-AP-07A	Central Pump Pit	H-2-90559	
241-AP-08A	Central Pump Pit	H-2-90560	
241-AW-A	Valve Pit	H-2-70401	
241-AW-B	Valve Pit	H-2-70401	
241-AW-01A	Central Pump Pit	H-2-70403	
241-AW-02A	Central Pump Pit	H-2-70404	
241-AW-02D	Drain Pit	H-2-70404	
241-AW-02E	Feed Pump Pit	H-2-70404	
241-AW-03A	Central Pump Pit	H-2-70405	

4.7 WASTE TRANSFER PIPING

The scope includes all DST system waste transfer piping that is functional and intended for use. It includes the piping from connector nozzle to connector nozzle, but, no jumpers. Drain lines for the respective line encasements are also included.

4.8 UPGRADES PROJECTS/FACILITIES/SYSTEMS

The scope includes all new DST dangerous waste systems (equipment used to transfer or store waste) in the 200 Area outside the process facilities. Each project should be treated and assessed as an individual effort.

5.0 ASSESSMENT ACTIVITIES

The assessment activities, as shown below, have been categorized as "design assessments," which are normally non-recurring, or "corrosion assessments," which are normally recurring. The purpose of this categorization is to enable planning, organizing, scheduling, performance, and documenting the results of these activities. This document is not intended to change or replace any of the integrity assessment plans issued for the DST system.

Design Assessment - For a design assessment the following shall be considered, as a minimum:

- Design Standards - identify and evaluate the adequacy of the criteria to which the system was constructed and maintained,

Note: The installation of new tank systems must receive inspection from independent qualified personnel to verify a proper installation.

- Waste Characteristics - identify the waste and evaluate the adequacy of design to handle the waste,
- Corrosion Protection Measures - identify and evaluate the design and the operational practices for corrosion protection,

Corrosion Assessment - identify the materials, identify the waste (past and projected), identify the existing condition of the material based upon leak testing, visual (direct visual, remote, CCTV, or camera) examination, and repairs. Other examinations, such as ultrasonic testing, may also be performed.

- Age - document, estimate, or otherwise determine the approximate age of the system.

A design assessment is required before placing a new dangerous waste tank system or component into service. A design assessment and corrosion assessment are required to qualify an existing dangerous waste tank system or component for continuing service. The initial integrity assessment of a

system or component prescribes the appropriate subsequent assessment activities and their schedule.

The equipment in each of the following sub-sections or paragraphs will, normally, be assessed separately.

5.1 DSTS

A design assessment and a corrosion assessment of the DSTs, as described below, are required.

Design Assessment - As noted in 5.0.

Corrosion Assessment - identify the materials, identify the waste (past and projected), identify the existing condition of the material based upon a visual examination and ultrasonic testing.

- Age - document, estimate, or otherwise determine the approximate age of the system.

The visual examination of the surface of the primary and secondary tank material is performed via remote CCTV by accessing the annulus through tank risers.

An ultrasonic examination will determine degradation of material thickness in selected areas.

5.2 242A

The original integrity assessment report for this facility has been prepared and issued as WHC-SD-WM-ER-124, Rev. 0. The next integrity assessment will require performance of those activities identified in section 6.0 of WHC-SD-WM-ER-124. Generally, these include:

- 1) Visual examination,
- 2) Leak testing,
- 3) Ultrasonic testing,
- 4) Review of significant changes in codes, standards, or regulations,
- 5) Review of off normal operational events.

5.3 DCRTS

The Integrity Assessment Plan for the Double-Contained Receiver Tanks and Designated Ancillary Equipment, WHC-SD-WM-WP-068, provides guidance for the performance of integrity assessments of these facilities as individual systems.

5.4 A350 LIFT STATION, 204 AR, & 244CR VAULT

For each of these facilities the following shall be considered, as a minimum:

Design Assessment - As noted in 5.0.

Corrosion Assessment - identify the materials, identify the waste (past and projected), identify the existing condition of the material based upon leak testing, visual examination, and repairs.

- Age - document, estimate, or otherwise determine the approximate age of the system.

5.5 CATCH TANKS

For each catch tank the following shall be considered, as a minimum:

Design Assessment - As noted in 5.0.

Corrosion Assessment - identify the materials, identify the waste (past and projected), identify the existing condition of the material based upon leak testing, remote visual examination, and repairs.

- Age - document, estimate, or otherwise determine the approximate age of the system.

Note: The liquid level in the catch tank will be monitored for evidence of leakage in lieu of the conventional leak test. The drain lines to the catch tanks will not be leak tested because there is no practical means of performing a leak test.

5.6 PITS AND PIT EQUIPMENT

For the pits and pit equipment assessment the following shall be considered, as a minimum:

Design Assessment - As noted in 5.0.

Corrosion Assessment - identify the materials, identify the waste (past and projected), identify the existing condition of the material based upon leak testing, visual examination, and repairs.

- Age - document, estimate, or otherwise determine the approximate age of the system.

Normally, the leak testing of pit equipment is performed prior to installation of the equipment in the pit. Leak testing of equipment in the pit may be observed as an in-service leak test or as a leak test in conjunction with waste transfer line leak testing.

The results of the CCTV viewings will be examined for indications of degradation of secondary containment capability of the pits and the condition of the ancillary equipment inside the pits.

5.7 WASTE TRANSFER PIPING

The waste transfer piping will be assessed separately and the following shall be considered, as a minimum:

Design Assessment - As noted in 5.0.

Corrosion Assessment - identify the materials, identify the waste (past and projected), identify the existing condition of the material based upon leak testing, visual examination, and repairs.

- Age - document, estimate, or otherwise determine the approximate age of the system.

The results of the leak tests will be recorded and evaluated to establish a predictable performance of the transfer piping. An annual report of the leak test results evaluation should be prepared and issued.

The leak testing for integrity assessment should be coordinated with the leak testing in preparation for waste transfers to enable more efficient use of equipment and personnel.

5.8 UPGRADES PROJECTS/FACILITIES/SYSTEMS

An independent integrity assessment report is planned for each upgrades project/facility/system.

For each upgrades project/facility/system the following shall be considered, as a minimum:

Design Assessment - As noted in 5.0.

6.0 IMPLEMENTATION

The purpose of this section is to present the approach for the implementation of assessment activities. In order that the performance of the activities be accomplished as projected, it is necessary that adequate support (funding and personnel) is available. The following approach/assumptions should be used to establish the organizational awareness and support for achieving the objectives herein.

Approach/Assumptions

1. Life Extension Engineering should provide the resources for performing all design assessments. This includes obtaining the services of the Independent, Qualified Registered Engineer.

2. Field activities that provide necessary input to the corrosion assessment, such as ultrasonic testing, leak testing, and visual examinations, require support from an array of organizations. Prior to the beginning of each fiscal year a resource (funding and personnel) estimate should be prepared by Life Extension Engineering and submitted to each assessment activity support organization for review and comment.
3. The resource (funding and personnel) activities must be integrated into the schedule of the organizations supporting or participating in the performance of the activities. The resource and scheduling approvals, which may occur simultaneously, should precede the fiscal year of performance.

7.0 ASSESSMENT STATUS AND SCHEDULE

Table 7.1 provides a listing of the assessment activities completed, assessment activities in process and assessment activities projected over the next five years. This table does not establish commitments or milestones, but is intended for use as guidance in organizing and planning and recording assessment activity status.

8.0 REPORTING

On an annual basis the results of the assessment activities may be integrated and made available for organizations supporting or participating in the performance of future activities.

**DST Waste System
Assessment Status & Projected Schedules**

Components & Assessment Activity	Status	Projected Schedule				
	1995	1996	1997	1998	1999	2000
Double Shell Tanks - IAR						
Design Assessment						
Design standards	Partial *		X			
Waste characteristics			X			
Corrosion protec. measures			X			
Corrosion Assessment						
Age		X				
AN Tank Farm						
- Visual Exam Report (WHC-SD-WM-RPT-061)	Complete					
- UT Eval./Report		X**				
AP Tank Farm						
- Visual Exam Report (WHC-SD-WM-RPT-077)	Complete					
AW Tank Farm						
- Visual Exam Report (WHC-SD-WM-RPT-034)	Complete					
- UT Eval./Report		X**				
AY Tank Farm						
- Visual Exam Report (WHC-SD-WM-RPT-078)	Complete					
- UT Eval./Report		X**				
AZ Tank Farm						
- Visual Exam Report (WHC-SD-WM-RPT-078)	Complete					
- UT Eval./Report			X**			
SY Tank Farm						
- Visual Exam. Report (WHC-SD-WM-RPT-076)	Complete					

*WHC-SD-WM-ER-126 & WHC-SD-WM-ES-215

**Total of 6 tanks for 1st round

Table 7.1. DST Waste System Assessment Status & Projected Schedule.

**DST Waste System
Assessment Status & Projected Schedules**

Components & Assessment Activity	Status	Projected Schedule				
	1995	1996	1997	1998	1999	2000
242A IAR (initial) (WHC-SD-WM-ER-124, Rev. 0 & 1) IAR (next) 1. Visual Exam. 2. Leak Test 3. Ultrasonic Test 4. Review Changes 5. Re Off Normal Event	Complete				X X X X X	
DCRT's Design Assessment Design Standards Waste Characteristics Corrosion Protection Measures Corrosion Assessment Age 244A IAR 244BX IAR 244S IAR 244TX IAR 244U IAR (initial) (WHC-SD-WM-RPT-092) IAR (Next) 1. Visual Exam * 2. Leak Test 3. Review Changes 4. Upset Opn. Review		X X X X X X X	X X X X X X X	X X X X X X X	X X X X X X X	

14

* Next Assessment Activity in 2004.

**DST Waste System
Assessment Status & Projected Schedules**

Components & Assessment Activity	Status	Projected Schedule				
	1995	1996	1997	1998	1999	2000
<u>A-350 Lift Station</u>						
Design Assessment		X				
Design Standards		X				
Waste Characteristics		X				
Corrosion Protection Measures		X				
Corrosion Assessment		X				
Age		X				
<u>204AR</u>						
Design Assessment			X			
Design Standards			X			
Waste Characteristics			X			
Corrosion Protection Measures			X			
Corrosion Assessment			X			
Age			X			
<u>244CR Vault</u>						
Design Assessment				X		
Design Standards				X		
Waste Characteristics				X		
Corrosion Protection Measures				X		
Corrosion Assessment				X		
Age				X		
<u>Catch Tanks</u>						
<u>241-S-304</u>						
Design Assessment		X				
Design Standards		X				
Waste Characteristics		X				
Corrosion Protection Measures		X				
Corrosion Assessment		X				
Age		X				

**DST Waste System
Assessment Status & Projected Schedules**

Components & Assessment Activity	Status	Projected Schedule				
	1995	1996	1997	1998	1999	2000
Catch Tanks (cont.)						
241-U-301						
Design Assessment			X			
Design Standards			X			
Waste Characteristics			X			
Corrosion Protection Measures			X			
Corrosion Assessment			X			
Age			X			
241-TX-302C						
Design Assessment				X		
Design Standards				X		
Waste Characteristics				X		
Corrosion Protection Measures				X		
Corrosion Assessment				X		
Age				X		
241-UX-302						
Design Assessment					X	
Design Standards					X	
Waste Characteristics					X	
Corrosion Protection Measures					X	
Corrosion Assessment					X	
Age					X	
241-ER-311						
Design Assessment						X
Design Standards						X
Waste Characteristics						X
Corrosion Protection Measures						X
Corrosion Assessment						X
Age						X

**DST Waste System
Assessment Status & Projected Schedules**

Components & Assessment Activity	Status	Projected Schedule				
	1995	1996	1997	1998	1999	2000
Catch Tanks (cont.)						
241-A-302A - IAR						
Design Assessment						X
Design Standards						X
Waste Characteristics						X
Corrosion Protection Measures						X
Corrosion Assessment						X
Age						X
241-AZ-151						
Design Assessment		X				
Design Standards		X				
Waste Characteristics		X				
Corrosion Protection Measures		X				
Corrosion Assessment		X				
Age		X				
241-AX-152						
Design Assessment			X			
Design Standards			X			
Waste Characteristics			X			
Corrosion Protection Measures			X			
Corrosion Assessment			X			
Age			X			
Pits & Pit Equipment - IAR						
Design Assessment		X				
Design Standards		X				
Waste Characteristics		X				
Corrosion Protection Measures		X				
Corrosion Assessment		X				
Age		X				
Visual Exam. Report	X	X	X	X	X	X
Equipment Leak Test Report	X	X	X	X	X	X

**DST Waste System
Assessment Status & Projected Schedules**

Components & Assessment Activity	Status	Projected Schedule				
	1995	1996	1997	1998	1999	2000
Waste Transfer Piping - IAR						
Design Assessment		X				
Design Standards		X				
Waste Characteristics		X				
Corrosion Protection Measures		X				
Corrosion Assessment		X				
Age		X				
Leak Test Report	X	X	X	X	X	X
Upgrades (Projects/Facilities/ Systems) *						
Design Assessment						
Design Standards						
Waste Characteristics						
Corrosion Protection Measures						

* Note: No upgrades identified at this time.