ENGINEERING CHANGE NOTICE

Page 1 of 2

1. ECN 668005

Proj. ECN

2. ECN Category (mark one)	3. Originator's Name, Organization, MSIN, and Telephone No.	4. USQ Required?	5. Date
Supplemental ☐ Direct Revision ☒ Change ECN ☐ Temporary ☐ Standby ☐ Supersedure ☐ Cancel/Void ☐	B. M. Hanlon, Inventory & Flowsheet Eng. R3-72, 373-2053	☐ Yes ☒ No	04/25/01
	6. Project Title/No./Work Order No. Waste Tank Summary Report for Month Ending March 31, 2001	7. Bldg./Sys./Fac. No. N/A	8. Approval Designator N/A
	9. Document Numbers Changed by this ECN (includes sheet no. and rev.) HNF-EP-0182, Rev. 155	10. Related ECN No(s). N/A	11. Related PO No. N/A

12a. Modification Work	12b. Work Package No.	12c. Modification Work Completed	12d. Restored to Original Condition (Temp. or Standby ECNs only)
☐ Yes (fill out Blk. 12b) ☒ No (NA Blks. 12b, 12c, 12d)	N/A	N/A Design Authority/Cog. Engineer Signature & Date	N/A Design Authority/Cog. Engineer Signature & Date

13a. Description of Change

13b. Design Baseline Document? ☐ Yes ☒ No

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14a. Justification (mark one)	14b. Justification Details
Criteria Change ☐ Design Improvement ☐ Environmental ☐ Facility Deactivation ☐ As-Found ☐ Facilitate Const. ☐ Const. Error/Omission ☐ Design Error/Omission ☐	This ECN is being generated to update waste tank farm summary information.

15. Distribution (include name, MSIN, and no. of copies)

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1. ECN (use no. from pg. 1): 668005

16. Design Verification Required	17. Cost Impact		18. Schedule Impact (days)
	ENGINEERING	CONSTRUCTION	
☐ Yes	Additional ☐ $ _____	Additional ☐ $ _____	Improvement ☐ _____
☒ No	Savings ☐ $ _____	Savings ☐ $ _____	Delay ☐ _____

19. Change Impact Review: Indicate the related documents (other than the engineering documents identified on Side 1) that will be affected by the change described in Block 13. Enter the affected document number in Block 20.

SDD/DD	☐	Seismic/Stress Analysis	☐	Tank Calibration Manual	☐
Functional Design Criteria	☐	Stress/Design Report	☐	Health Physics Procedure	☐
Operating Specification	☐	Interface Control Drawing	☐	Spares Multiple Unit Listing	☐
Criticality Specification	☐	Calibration Procedure	☐	Test Procedures/Specification	☐
Conceptual Design Report	☐	Installation Procedure	☐	Component Index	☐
Equipment Spec.	☐	Maintenance Procedure	☐	ASME Coded Item	☐
Const. Spec.	☐	Engineering Procedure	☐	Human Factor Consideration	☐
Procurement Spec.	☐	Operating Instruction	☐	Computer Software	☐
Vendor Information	☐	Operating Procedure	☐	Electric Circuit Schedule	☐
OM Manual	☐	Operational Safety Requirement	☐	ICRS Procedure	☐
FSAR/SAR	☐	IEFD Drawing	☐	Process Control Manual/Plan	☐
Safety Equipment List	☐	Cell Arrangement Drawing	☐	Process Flow Chart	☐
Radiation Work Permit	☐	Essential Material Specification	☐	Purchase Requisition	☐
Environmental Impact Statement	☐	Fac. Proc. Samp. Schedule	☐	Tickler File	☐
Environmental Report	☐	Inspection Plan	☐	_____	☐
Environmental Permit	☐	Inventory Adjustment Request	☐	_____	☐

20. Other Affected Documents: (NOTE: Documents listed below will not be revised by this ECN.) Signatures below indicate that the signing organization has been notified of other affected documents listed below.

Document Number/Revision	Document Number/Revision	Document Number/Revision
N/A		

21. Approvals

	Signature	Date		Signature	Date
Design Authority			Design Agent		
Cog. Eng.	B.M. Hanlon *BM Hanlon*	4/25/01	PE		
Cog. Mgr.	N.W. Kirch *NW Kirch*	4/30/01	QA		
QA			Safety		
Safety			Design		
Environ.			Environ.		
Other			Other		

DEPARTMENT OF ENERGY

Signature or a Control Number that tracks the Approval Signature

ADDITIONAL

HNF-EP-0182, Rev. 156

WASTE TANK SUMMARY REPORT FOR MONTH ENDING MARCH 31, 2001

BM HANLON
CH2M HILL Hanford Group, Inc.
Richland, WA 99352
U.S. Department of Energy Contract DE-AC27-99RL14047

EDT/ECN: ECN-668005 UC:
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Abstract: See page iii of document

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HNF-EP-0182, Rev. 156

Waste Tank Summary Report for Month Ending March 31, 2001

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

CH2MHILL
Hanford Group, Inc.
Richland, Washington

Contractor for the U.S. Department of Energy
Office of River Protection under Contract DE-AC06-99RL14047

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Waste Tank Summary Report for Month Ending March 31, 2001

B. M. Hanlon
CH2M HILL Hanford Group, Inc.

Date Published
May 2001

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

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Office of River Protection under Contract DE-AC06-99RL14047

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(2) Title: WASTE TANK SUMMARY REPORT FOR MONTH ENDING MARCH 31, 2001

Change Control Record

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A-7320-005 (10/97)

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WASTE TANK SUMMARY REPORT

B. M. Hanlon

ABSTRACT

(i) *This report is the official inventory for radioactive waste stored in underground tanks in the 200 Areas at the Hanford Site. Data that depict the status of stored radioactive waste and tank vessel integrity are contained within the report. This report provides data on each of the existing 177 large underground waste storage tanks and 63 smaller miscellaneous underground storage tanks and special surveillance facilities, and supplemental information regarding tank surveillance anomalies and ongoing investigations. This report is intended to meet the requirement of U. S. Department of Energy-Richland Operations Office Order 435.1 (DOE-RL, July 1999, Radioactive Waste Management, U. S. Department of Energy-Richland Operations Office, Richland, Washington) requiring the reporting of waste inventories and space utilization for Hanford Tank Farm tanks.*

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TABLE OF CONTENTS

Page

SUMMARY 1
I. WASTE TANK STATUS 1
II. WASTE TANK INVESTIGATIONS 1
III. SURVEILLANCE AND WASTE TANK STATUS HIGHLIGHTS 2

Appendixes:

A. MONTHLY SUMMARY A-1
Tables:
1 Monthly Summary A-2
2 Tank Use Summary A-3
3 Pumping Record, and Liquid Status and Pumpable Liquid Remaining in Tanks A-4
4 Inventory Summary by Tank Farm A-5
5 Inventory and Status by Tank - Double-Shell Tanks A-6
6 Inventory and Status by Tank - Single-Shell Tanks A-8

B. PERFORMANCE SUMMARY B-1
Table:
1 Summary of Waste Transactions in the Double-Shell Tanks B-2
2 Comparison of Projected Versus Actual Waste Volumes for Hanford Facilities B-3

C. DOUBLE-SHELL TANK WASTE TYPE AND SPACE ALLOCATION C-1
Tables:
1 Double-Shell Tank Waste Inventory C-2
2 Double-Shell Tank Available Space C-3
Figures:
1 Total Double-Shell Tank Inventory C-4

D. WASTE TANK SURVEILLANCE MONITORING TABLES D-1
Tables:
1 Temperature Monitoring in Watch List Tanks D-2
2 Temperature Monitoring in Non-Watch List Tanks D-4
3 Additions/Deletions to Watch List Tanks by Year D-5
4 Single-Shell Tank Monitoring Compliance Status D-6
5 Double-Shell Tanks Monitoring Compliance Status D-12
6 ENRAF Surface Level Gauge Installation and Data Input Methods D-14
7 Tank Monitor and Control System (TMACS) D-15

E. MISCELLANEOUS UNDERGROUND STORAGE TANKS AND SPECIAL SURVEILLANCE FACILITIES E-1
Tables:
1 Misc. Underground Storage Tanks and Special Surveillance Facilities (Active) E-2
2 East Area Underground Storage Tanks and Special Surveillance Facilities (Inactive) E-3
3 West Area Underground Storage Tanks and Special Surveillance Facilities (Inactive) E-4

F. LEAK VOLUME ESTIMATES F-1
Table:
1 Single-Shell Tank Leak Volume Estimates F-2

G. SINGLE-SHELL TANKS INTERIM STABILIZATION, AND CONTROLLED, CLEAN, AND STABLE (CCS) STATUS G-1

Tables:

1 Single-Shell Tanks Interim Stabilization Status G-2
2 Single-Shell Tank Interim Stabilization Milestones G-4
3 Single-Shell Tanks Stabilization Status Summary G-6

H. TANK AND EQUIPMENT CODE AND STATUS DEFINITIONS H-1

1 Tank and Equipment Code/Status Definitions H-2

I. TANK FARM CONFIGURATION, STATUS AND FACILITY CHARTS I-1

Figures:

1 High-Level Waste Tank Configuration I-2
2 Double-Shell Tank Instrumentation Configuration I-3
3 Single-Shell Tank Instrumentation Configuration I-4
4 Tank Farm Facilities Chart - East Area I-5
5 Tank Farm Facilities Chart - West Area I-6

METRIC CONVERSION CHART		
1 inch	=	2.54 centimeters
1 foot	=	30.48 centimeters
1 gallon	=	3.80 liters
1 ton	=	0.90 metric tons

$$°F = \left(\frac{9}{5}°C\right) + 32$$

1 Btu/h = 2.930711 E-01 watts
(International Table)

WASTE TANK SUMMARY REPORT
For Month Ending March 31, 2001

Note: Changes from the previous month are in bold print.

I. WASTE TANK STATUS

Category	Quantity	Date of Last Change
Double-Shell Tanks[b]	28 double-shell	10/86
Single-Shell Tanks	149 single-shell	1966
Assumed Leaker Tanks	67 single-shell	07/93
Sound Tanks	28 double-shell 82 single-shell	1986 07/93
Interim Stabilized Tanks[a]	**128 single-shell**	**03/01**
Not Interim Stabilized[c]	**21 single-shell**	**03/01**
Intrusion Prevention Completed	108 single-shell	09/96
Controlled, Clean, and Stable[f]	36 single-shell	09/96
Watch List Tanks[d,e] Total	19 single-shell 5 double-shell 24 tanks	09/00 01/01

[a] Of the 128 tanks classified as Interim Stabilized, 65 are listed as Assumed Leakers. (See Table G-1)

[b] Five double-shell tanks (SY-101 was removed from the list in January 2001) are currently included on the Hydrogen Watch List and are thus prohibited from receiving waste in accordance with "Safety Measures for Waste Tanks at Hanford Nuclear Reservation," Section 3137 of the *National Defense Authorization Act for Fiscal Year 1991*, November 5, 1990, Public Law 101-510.

[c] Two of these tanks are Assumed Leakers (BY-105, BY-106). (See Table F-1)

[d] See Appendix D for more information on Watch List Tanks.

[e] Dates for the Watch List tanks are "officially added to or removed from the Watch List" dates. Eighteen tanks were removed from the Organic Watch List in December 1998; the last two tanks (C-102 and C-103) were removed from the Organic Watch List in August 2000. In December 1999, tank C-106 was removed from the High Heat Load Watch List. In January 2001, DST tank SY-101 was removed from the Hydrogen Watch List. Only the Hydrogen Watch List remains, which contains 19 SSTs and 5 DSTs.

[f] The TY tank farm was officially declared Controlled, Clean, and Stable (CCS) in March 1996. The TX tank farm and BX tank farms were declared CCS in September 1996.

II. WASTE TANK INVESTIGATIONS

This section includes all single- or double-shell tanks or catch tanks which are showing surface level or interstitial liquid level (ILL) decreases, or drywell radiation level increases in excess of established criteria.

A. Assumed Leakers or Assumed Re-leakers: (See Appendix H for definition of "Re-leaker")

This section includes all single- or double-shell tanks or catch tanks for which an off-normal or unusual occurrence report has been issued, or for which a waste tank investigation is in progress, for assumed leaks or re-leaks. Tanks/catch tanks will remain on this list until either a) completion of Interim Stabilization, b) the updated occurrence report indicates that the tank/catch tank is not an assumed leaker, or c) the investigation is completed.

Catch Tank 241-AX-152 - This catch tank was declared an "assumed leaker" on March 23, 2001 by the Plant Review Committee, after an evaluation by the Leak Assessment Team. The water used as test solution was pumped to a double-shell tank on March 1, 2001, after the tank was identified as a potential leaking tank. (Also see item #7, Occurrence Report RP-CHG-Tankfarm-2001-0014).

B. Tanks with increases indicating possible intrusions:

This section includes all single-shell tanks and related receiver tanks for which the surveillance data show that the surface level or ILL has met or exceeded the increase criteria, or are still being investigated.

Candidate Intrusion List: Increase criteria in the following tanks indicate possible intrusions.

Tank 241-B-202
Tank 241-BX-101
Tank 241-BX-103
Tank 241-BY-103

The surveillance data was last reviewed on the tanks listed as having probable liquid intrusions: Memo 74B20-99-045, dated November 22, 1999.

III. SURVEILLANCE AND WASTE TANK STATUS HIGHLIGHTS

1. Single-Shell Tank Interim Stabilization - (See Appendix G, page G-4 for further information)

Tank 241-U-105 - This tank was Interim Stabilized on March 29, 2001, due to major equipment failure. Total Waste: 353.0 Kgallons; Supernate: none; DIL and DLR: 44.0 Kgallons; PLR: 39.7 Kgallons; Saltcake: 321.0 Kgallons; Sludge: 32.0 Kgallons. Total Pumped 87.5 Kgallons.

Tank 241-U-106 - This tank was Interim Stabilized on March 9, 2001. Total Waste: 171.9 Kgallons; Supernate: 1.7 Kgallons; DIL and DLR: 35.8 Kgallons; PLR: 30.2 Kgallons; Saltcake: 170.2 Kgal; no Sludge. Total Pumped: 39.1 Kgal.

2. Single-Shell Tanks Saltwell Jet Pumping (See Table A-6 footnotes for further information)

Tank 241-A-101 - Pumping began May 6, 2000. No pumping since August 2000; a total of 14.1 Kgallons has been pumped from this tank since start of pumping in May 2000.

Tank 241-AX-101 - Pumping began July 29, 2000. **No pumping since August 2000; pumping began again on March 22, 2001. In March 2001, a total of 9.8 Kgallons was pumped from this tank; a total of 18.2 Kgallons has been pumped since the start of pumping in July 2000.**

Tank 241-S-102 - Pumping problems forced many shutdowns. The pump was replaced and pumping resumed on February 19, 2000. Problems with the new pump forced a shutdown on March 23, 2000. Pumping was interrupted in early June 2000; due to the flushing involved in trying to return to pumping, June pumping resulted in a net addition to the tank. No pumping since June 2000; a total of 56.8 Kgallons has been pumped from this tank since start of pumping in March 1999.

Tank 241-S-109 - Pumping began September 23, 2000. The pumping rate dropped below 0.05 GPM and the pump was shut down on January 27, 2001. The tank is now being evaluated to determine if it can be Interim Stabilized. A total of 145.2 Kgallons has been pumped from this tank (111.0 Kgallons were pumped in 1979 [primary stabilization], and partial isolation in 1982).

Tank 241-SX-101 - Pumping began November 22, 2000. In December 2000, a total of 6.9 Kgallons was pumped; a total of 19.2 Kgallons has been pumped from this tank. The pump failed on December 9, 2000. No pumping since December 2000.

Tank 241-SX-103 - Pumping began October 26, 2000. **In March 2001, a total of 3.1 Kgallons was pumped; a total of 113.1 Kgallons has been pumped from this tank since start of pumping in October 2000.**

Tank 241-SX-105 - Pumping began August 8, 2000. **In March 2001, there was no net removal of tank waste; a total of 151.1 Kgallons has been pumped since start of pumping in August 2000.**

Tank 241-U-102 - Pumping began January 20, 2000. **During March 2001, a total of 1.8 Kgallons was pumped; a total of 75.8 Kgallons has been pumped from this tank since start of pumping in January 2000.**

Tank 241-U-109 - Pumping began March 11, 2000. **The saltwell pump was replaced following pump failure in December 2000, and pumping was restarted March 30, 2001. In March 2001, there was no net waste removal from this tank; a total of 65.9 Kgallons has been pumped from this tank since start of pumping in March 2000.**

3. 242-A Evaporator Campaign 01-1

More than 800,000 gallons of double-shell tank waste was processed through the 242-A Evaporation facility resulting in the elimination of approximately 640,000 gallons of waste. Campaign 01-1 was completed March 26, 2001. This campaign brings the total to more than 12 million gallons of waste water removed from the tank farms since the restart of the Evaporator in 1994. This evaporation from the double-shell tanks means that more space is made available for the storage of liquid removed from the single-shell tanks. The next 242-Evaporator campaign is scheduled for FY2002.

4. Tank BX-102 Vadose Zone Project Activities Completed

The SST Vadose Zone Project drilling and testing activities near Tank BX-102 were completed in March 2001. A borehole (299-E33-45) was drilled through the postulated uranium plume resulting from the 1951 Tank BX-102 overfill event to confirm the presence of uranium, define its present depth, and survey other contaminants of interest such as Tc-99. Thirty-five split-spoon samples were collected for laboratory analyses. This borehole was decommissioned after collection and analysis of groundwater samples.

5. RP-CHG-TANKFARM-2001-0004, Occurrence Report, "Corrosion Observed in DST Tank 241-AY-101 During Video Inspection of the Annulus Section," Off-Normal Occurrence, **Latest Update: March 26, 2001.**

Corrosion of the primary and secondary liners of DST AY-101 was observed during video inspections of the tank annulus region in 1999 and 2000. Follow-up video inspections that were completed on January 29, 2001, show more extensive corrosion in localized regions of the primary and secondary liners when viewed from the annulus region.

In addition, ultrasonic testing data collected during March 2001 and evaluated on March 22, 2001, shows localized thinning of approximately 19.4 percent, versus a reporting limit of 20 percent, of a small area on the inside of the primary liner at the previous waste-air interface approximately 343 inches above the bottom of the tank. Thus, corrosion has occurred on both the outside and the inside of the primary liner, and on the inside of the secondary liner. There are no visual or radiological indications of waste leakage from the tank.

An operational restriction has been imposed to limit the waste level in this tank to less than 80 inches until further evaluation can be performed.

An Update or Final report will be submitted no later than May 31, 2001.

6. RP-CHG-TANKFARM-2001-0006, Occurrence Report, "Flammable Gas Level Exceeds Lower Flammability Limit (LFL) at 241-C-101 Riser 1," Off-Normal Occurrence, **Latest Update: March 23, 2001.**

While performing the required initial flammable gas monitoring at C-101 Riser 1, the flammable gas level was found to be greater than 25% LFL. **Upon opening Riser #1, the flammable and toxic gas monitoring detected levels in excess of 100% LFL. The riser was immediately secured in a safe condition. This work activity was in preparation for installation of a buoyancy type (ENRAF) tank liquid-level measuring device.**

All work was stopped per the work instruction. Additional flammable gas monitoring samples taken at the C-101 Breather Filter and Manual Tape access points indicated 0% LFL. A grab sample was taken for additional analysis. Entry restrictions were put in place.

An alternate riser was identified that provided direct access to the dome space and dome space monitoring was performed, resulting in 5% LFL in the tank dome space, which is consistent with previous sampling in this tank.

Cause: The engineering drawings identified Riser #1 as a spare and available for use. The work crews discovered the presence of an unknown object in the riser. The configuration is indicative of a possible temperature probe well. The ENRAF liquid level gauge will be installed in a different riser.

No further action is required.

7. **RP-CHG-TANKFARM-2001-0014, Occurrence Report, "Catch Tank AX-152 was Identified as a Potential Leaking Tank," Off-Normal Occurrence, Notification Date: March 5, 2001, Latest Update: March 23, 2001.**

Based on an engineering evaluation, this catch tank was identified as a potential leaking tank. On March 23, 2001, the Plant Review Committee determined, based on information and a recommendation by the Leak Assessment Team, to declare catch tank AX-152 an "assumed leaker." The water used as a test solution was pumped to a double-shell tank on March 1, 2001, as an immediate action.

8. **RP-CHG-TANKFARM-2001-0016, Occurrence Report, "Tank 241-C-107 Dome Surface Indication," Off-Normal Occurrence, Notification Date: March 12, 2001.**

During sampling of Single-Shell Tank 241-C-107 by the Characterization Project on March 6, 2001, a video camera was in use to film the dome area of the tank. An indication was observed in the dome or the dome coating that must be further evaluated to determine if it could be a crack.

An investigation of the anomaly inside the top of tank C-107 was completed, and it was concluded the anomaly is not a crack but a shadow cast by features on the surface of the

tank's dome, or ceiling which was caused by a ridge of irregular concrete which protruded between the construction forms when the tank was being built in 1943.

This Occurrence Report will be cancelled.

APPENDIX A

MONTHLY SUMMARY

TABLE A-1. MONTHLY SUMMARY
TANK STATUS
March 31, 2001

	200 EAST AREA	200 WEST AREA	TOTAL
IN SERVICE	25	03	28 (1)
OUT OF SERVICE	66	83	149
SOUND	59	51	110
ASSUMED LEAKER	32	35	67
INTERIM STABILIZED	60	68	128
ISOLATED			
PARTIAL INTERIM	11	30	41
INTRUSION PREVENTION COMPLETE	55	53	108
CONTROLLED, CLEAN, AND STABLE	12	24	36

WASTE VOLUMES (Kgallons)

		200 EAST AREA	200 WEST AREA	TOTAL	SST TANKS	DST TANKS	TOTAL
SUPERNATANT							
AW	Aging waste	1770	0	1770	0	1770	1770
CC	Complexant concentrate waste	3169	1263	4432	0	4432	4432
CP	Concentrated phosphate waste	1088	0	1088	0	1088	1088
DC	Dilute complexed waste	1714	850	2564	1	2563	2564
DN	Dilute non-complexed waste	894	0	894	0	894	894
PD	PUREX/TRUsolids	648	0	648	0	648	648
NCPLX	Non-complexed waste	164	151	315	315	0	315
DSSF	Double-shell slurry feed	5847	168	6015	1039	4976	6015
TOTAL SUPERNATANT		15294	2432	17726	1355	16371	17726
SOLIDS							
Sludge (includes liquids)		6459	5648	12107	11059	1048	12107
Saltcake (includes liquids)		8106	15910	24016	20808	3208	24016
TOTAL SOLIDS		14565	21558	36123	31867	4256	36123
TOTAL WASTE		29859	23990	53849	33222	20627	53849
AVAILABLE SPACE IN TANKS		9882	787	10669	0	10669	10669
DRAINABLE INTERSTITIAL LIQUID (2)		1425	2035	3460	3460	(2)	3460
DRAINABLE LIQUID REMAINING (2)		2462	2353	4815	4815	(2)	4815

(1) Includes five double-shell tanks on Hydrogen Watch List not currently allowed to receive waste, AN-103, AN-104, AN-105, AW-101, and SY-103. SY-101 was removed from the Hydrogen Watch List in January 2001and will return to service later in the year.

(2) Drainable Interstitial Liquid and Drainable Liquid Remaining for single-shell tanks only; not applicable for double-shell tanks

TABLE A-2. TANK USE SUMMARY

March 31, 2001

TANK FARMS	TANKS AVAILABLE TO RECEIVE WASTE TRANSERS	SOUND	ASSUMED LEAKER	ISOLATED TANKS: PARTIAL INTERIM ISOLATED	ISOLATED TANKS: INTRUSION PREVENTION COMPLETED	ISOLATED TANKS: CONTROLLED CLEAN, AND STABLE	INTERIM STABILIZED TANKS
EAST							
A	0	3	3	2	4	0	5
AN	7 (1)	7	0	0	0	0	0
AP	8	8	0	0	0	0	0
AW	6 (1)	6	0	0	0	0	0
AX	0	2	2	1	3	0	3
AY	2	2	0	0	0	0	0
AZ	2	2	0	0	0	0	0
B	0	6	10	0	16	0	16
BX	0	7	5	0	12	12	12
BY	0	7	5	5	7	0	10
C	0	9	7	3	13	0	14
Total	25	59	32	11	55	12	80
WEST							
S	0	11	1	10	2	0	6
SX	0	5	10	6	9	0	11
SY	3 (1)	3	0	0	0	0	0
T	0	9	7	5	11	0	16
TX	0	10	8	0	18	18	18
TY	0	1	5	0	6	6	6
U	0	12	4	9	7	0	11
Total	3	51	35	30	53	24	88
TOTAL	28	110	67	41	108	36	128

(1) Five Double-Shell Tanks on the Hydrogen Watch List are not currently receiving waste transfers (AN-103, 104, 105, AW-101, and SY-103). SY-101 was removed from the Hydrogen Watch List in January 2001 and will return to service later in the year.

TABLE A-3. PUMPING RECORD, LIQUID STATUS AND PUMPABLE LIQUID REMAINING IN TANK FARMS

March 31, 2001

	Waste Volumes (Kgallons)						
TANK FARMS	PUMPED THIS MONTH	PUMPED FY TO DATE	CUMULATIVE TOTAL PUMPED 1979 TO DATE	SUPERNATANT LIQUID	DRAINABLE INTERSTITIAL LIQUID	DRAINABLE LIQUID REMAINING	PUMPABLE SST LIQUID REMAINING
EAST							
A	0.0	0.0	164.6	503	161	665	622
AN	N/A	N/A	N/A	3769	N/A	N/A	N/A
AP	N/A	N/A	N/A	6276	N/A	N/A	N/A
AW	N/A	N/A	N/A	1864	N/A	N/A	N/A
AX	9.8	9.8	31.1	368	105	473	447
AY	N/A	N/A	N/A	579	N/A	N/A	N/A
AZ	N/A	N/A	N/A	1770	N/A	N/A	N/A
B	0.0	0.0	0.0	15	262	277	203
BX	N/A	0.0	200.2	24	127	N/A	N/A
BY	0.0	0.0	1567.8	0	581	581	498
C	0.0	0.0	103.0	126	189	315	207
Total	9.8	9.8	2066.7	15294	1425	2311	1977
WEST							
S	0.0	21.7	1075.1	76	636	712	578
SX	3.1	204.6	662.2	134	323	457	384
SY	N/A	N/A	N/A	2113	N/A	N/A	N/A
T	0.0	0.0	245.7	29	218	246	168
TX	N/A	0.0	1205.7	9	297	N/A	N/A
TY	N/A	0.0	29.9	0	53	N/A	N/A
U	1.8	33.1	367.2	71	508	579	493
Total	4.9	259.4	3585.8	2432	2035	1994	1623
TOTAL	14.7	269.2	5652.5	17726	3460	4305	3600

N/A = Not applicable for Double-Shell Tank Farms, and Single-Shell Tank Farms which have been declared Controlled, Clean and Stable (BX, TX, TY).

TABLE A-4. INVENTORY SUMMARY BY TANK FARM

March 31, 2001

			SUPERNATANT LIQUID VOLUMES (Kgallo									SOLIDS VOLUME		
TANK FARM	TOTAL WASTE	AVAIL SPACE	AW	CC	CP	DC	DN	PD	NCPLX	DSSF	TOTAL	SLUDGE	SALT CAKE	TOTAL
EAST														
A	1479	0	0	0	0	0	0	0	0	503	503	574	402	976
AN	5517	2463	0	1780	0	0	247	0	0	1742	3769	0	1748	1748
AP	6365	2755	0	1389	1088	1604	37	0	0	2158	6276	0	89	89
AW	3357	3483	0	0	0	0	140	648	0	1076	1864	571	922	1493
AX	816	0	0	0	0	0	0	0	0	368	368	26	422	448
AY	828	1132	0	0	0	109	470	0	0	0	579	249	0	249
AZ	1927	49	1770	0	0	0	0	0	0	0	1770	157	0	157
B	1909	0	0	0	0	0	0	0	15	0	15	1211	683	1894
BX	1490	0	0	0	0	0	0	0	24	0	24	1259	207	1466
BY	4387	0	0	0	0	0	0	0	0	0	0	754	3633	4387
C	1784	0	0	0	0	1	0	0	125	0	126	1658	0	1658
Total	29859	8882	1770	3169	1088	1714	894	648	184	5847	15294	6459	8106	14565
WEST														
S	5056	0	0	0	0	0	0	0	75	1	76	1184	3796	4980
SX	3731	0	0	0	0	0	0	0	0	134	134	927	2673	3600
SY	2633	787	0	1263	0	850	0	0	0	0	2113	71	449	520
T	1877	0	0	0	0	0	0	0	29	0	29	1703	145	1848
TX	6810	0	0	0	0	0	0	0	9	0	9	697	6104	6801
TY	639	0	0	0	0	0	0	0	0	0	0	529	110	639
U	3244	0	0	0	0	0	0	0	38	33	71	537	2633	3170
Total	23890	787	0	1263	0	850	0	0	151	168	2432	5649	15910	21559
TOTAL	53749	10669	1770	4432	1088	2564	894	648	335	6015	17726	12107	24016	36123

TABLE A-5. INVENTORY AND STATUS BY TANK - DOUBLE-SHELL TANKS

March 31, 2001

TANK STATUS								SOLIDS VOLUME					PHOTOS/VIDEOS		
TANK	WASTE MATL	TANK STATUS	TANK USE	EQUIVA-LENT WASTE INCHES	TOTAL WASTE (Kgal)	AVAIL. SPACE (1) (Kgal)	SUPER-NATANT LIQUID (Kgal)	SLUDGE (includes liquid) (Kgal)	SLUDGE LIQUID (15% porosity) (Kgal)	SALTCAKE (includes liquid) (Kgal)	SALTCAKE LIQUID (25% porosity) (Kgal)	SOLIDS VOLUME UPDATE	LAST IN-TANK PHOTO	LAST IN-TANK VIDEO	SEE FOOTNOTE FOR THESE CHANGES
							AN TANK FARM STATUS								
AN-101	DN	SOUND	DRCVR	89.8	247	893	247	0	0	0	0	06/30/99			
AN-102	CC	SOUND	CWHT	383.6	1055	85	966	0	0	89	22	06/30/99			
AN-103	DSS	SOUND	CWHT	348.0	957	183	500	0	0	457	114	06/30/99	10/29/87		
AN-104	DSSF	SOUND	CWHT	382.5	1052	88	603	0	0	449	112	06/30/99	06/19/88		
AN-105	DSSF	SOUND	CWHT	410.2	1128	12	639	0	0	489	122	06/30/99	01/26/88		
AN-106	CC	SOUND	CWHT	13.8	38	1102	21	0	0	17	4	06/30/99			
AN-107	CC	SOUND	CWHT	378.2	1040	100	793	0	0	247	62	06/30/99	09/01/88		
7 DOUBLE-SHELL TANKS				TOTALS	5517	2463	3769	0	0	1748	436				
							AP TANK FARM STATUS								
AP-101	DSSF	SOUND	DRCVR	404.7	1113	27	1113	0	0	0	0	05/01/89			
AP-102	CP	SOUND	DRCVR	395.6	1088	52	1088	0	0	0	0	07/11/89			
AP-103	CC	SOUND	DRCVR	102.2	281	859	281	0	0	0	0	05/31/96			
AP-104	CC	SOUND	DRCVR	402.9	1108	32	1108	0	0	0	0	10/13/88			
AP-105	DSSF	SOUND	CWHT	412.4	1134	6	1045	0	0	89	22	06/30/99		09/27/95	
AP-106	DC	SOUND	DRCVR	226.2	622	518	622	0	0	0	0	10/13/88			
AP-107	DC	SOUND	DRCVR	357.1	982	158	982	0	0	0	0	10/13/88			
AP-108	DN	SOUND	DRCVR	13.5	37	1103	37	0	0	0	0	10/13/88			
8 DOUBLE-SHELL TANKS				TOTALS	6365	2755	6276	0	0	89	22				
							AW TANK FARM STATUS								
AW-101	DSSF	SOUND	CWHT	409.5	1126	14	751	0	0	375	94	10/31/00	03/17/88		
AW-102	DN	SOUND	EVFD	30.9	85	1055	55	0	0	30	8	01/31/01	02/02/83		
AW-103	PD	SOUND	DRCVR	305.5	840	300	477	316	79	47	12	06/30/99			
AW-104	DN	SOUND	DRCVR	114.9	316	824	85	0	0	231	58	06/30/99	02/02/83		
AW-105	PD	SOUND	DRCVR	154.9	426	714	171	255	38	0	0	06/30/99			
AW-106	DSSF	SOUND	SRCVR	205.1	564	576	325	0	0	239	60	06/30/99	02/02/83		
6 DOUBLE-SHELL TANKS				TOTALS	3357	3483	1864	571	117	922	232				

TABLE A-5. INVENTORY AND STATUS BY TANK - DOUBLE-SHELL TANKS

March 31, 2001

TANK STATUS													PHOTOS/VIDEOS		
TANK	WASTE MATL	TANK STATUS	TANK USE	EQUIVA-LENT WASTE INCHES	TOTAL WASTE (Kgal)	AVAIL. SPACE (1) (Kgal)	SUPER-NATANT LIQUID (Kgal)	SLUDGE (includes liquid) (Kgal)	SLUDGE LIQUID (15% porosity) (Kgal)	SALTCAKE (includes liquid) (Kgal)	SALTCAKE LIQUID (25% porosity) (Kgal)	SOLIDS VOLUME UPDATE	LAST IN-TANK PHOTO	LAST IN-TANK VIDEO	SEE FOOTNOTE FOR THESE CHANGES
							AY TANK FARM STATUS								
AY-101	DC	SOUND	DRCVR	67.3	185	795	109	76	11	0	0	06/30/99	12/28/82		
AY-102	DN	SOUND	DRCVR	233.8	643	337	470	173	28	0	0	10/31/00	04/28/81		
2 DOUBLE-SHELL TANKS				TOTALS	828	1132	579	249	39	0	0				
							AZ TANK FARM STATUS								
AZ-101	AW	SOUND	CWHT	338.5	931	49	879	52	8	0	0	06/30/98	08/18/83		
AZ-102	AW	SOUND	DRCVR	362.2	996	0	891	105	16	0	0	06/30/99	10/24/84		
2 DOUBLE-SHELL TANKS				TOTALS	1927	49	1770	157	24	0	0				
							SY TANK FARM STATUS								
SY-101	CC	SOUND	CWHT	352.7	970	170	887	0	0	83	21	06/30/99	04/12/89		
SY-102	DC	SOUND	DRCVR	334.9	921	219	850	71	11	0	0	06/30/99	04/29/81		
SY-103	CC	SOUND	CWHT	269.8	742	398	376	0	0	366	92	06/30/99	10/01/85		
3 DOUBLE-SHELL TANKS				TOTALS	2633	787	2113	71	11	449	113				
GRAND TOTAL					20627	10669	16371	1048	191	3208	803				

Note: +/- 1 Kgal differences are the result of computer rounding

Available Space Calculations Used in this Document		
Tank Farms	(Most Conservative)	
AN, AP, AW, SY	1,140,000 gal (414.5 in.)	1,140 Kgal
AY, AZ (Aging Waste)	980,000 gal (356.4 in.)	980 Kgal

NOTE: Supernate + Sludge (includes liquid) + Saltcake (includes liquid) = Total Waste

(1) Available Space volumes include restricted space, - see Appendix C tables for allocation of these restrictions.

TABLE A-6. INVENTORY AND STATUS BY TANK - SINGLE-SHELL TANKS

March 31, 2001

These volumes are the result of engineering calculations and may not agree with surface level measurements

TANK STATUS					LIQUID VOLUME						SOLIDS VOLUME			PHOTOS/VIDEOS		
TANK	WASTE MAT'L.	TANK INTEGRITY	STABIL/ ISOLATION STATUS	TOTAL WASTE (Kgal)	SUPER-NATE LIQUID (Kgal)	DRAIN-ABLE INTER-STIT. (Kgal)	PUMPED THIS MONTH (Kgal)	TOTAL PUMPED (Kgal)	DRAIN-ABLE LIQUID REMAIN (Kgal)	PUMP-ABLE LIQUID REMAIN (Kgal)	SLUDGE (Kgal)	SALT CAKE (Kgal)	SOLIDS VOLUME UPDATE	LAST IN-TANK PHOTO	LAST IN-TANK VIDEO	SEE FOOTNOTES FOR THESE CHANGES
								A TANK FARM STATUS								
A-101	DSSF	SOUND	/PI	877	494	95	0.0	14.1	590	574	3	380	09/30/99	08/21/85		(g)
A-102	DSSF	SOUND	IS/PI	41	4	8	0.0	39.5	12	4	15	22	07/27/89	07/20/89		
A-103	DSSF	ASMD LKR	IS/IP	371	5	45	0.0	111.0	50	43	366	0	06/03/88	12/28/88		
A-104	NCPLX	ASMD LKR	IS/IP	28	0	4	0.0	0.0	4	0	28	0	01/27/78	06/25/86		
A-105	NCPLX	ASMD LKR	IS/IP	37	0	0	0.0	0.0	0	0	37	0	10/31/00	08/20/86		
A-106	CP	SOUND	IS/IP	125	0	9	0.0	0.0	9	1	125	0	09/07/82	08/19/86		
6 SINGLE-SHELL TANKS			TOTALS	1479	503	161	0.0	164.6	665	622	574	402				
								AX TANK FARM STATUS								
AX-101	DSSF	SOUND	/PI	666	368	74	9.8	18.1	442	436	3	295	09/30/99	08/18/87		(h)
AX-102	CC	ASMD LKR	IS/IP	30	0	7	0.0	13.0	7	0	7	23	06/30/99	06/05/89		
AX-103	CC	SOUND	IS/IP	112	0	23	0.0	0.0	23	11	8	104	06/30/99	08/13/87		
AX-104	NCPLX	ASMD LKR	IS/IP	8	0	1	0.0	0.0	1	0	8	0	06/30/99	08/18/87		
4 SINGLE-SHELL TANKS			TOTALS:	816	368	105	9.8	31.1	473	447	26	422				
								B TANK FARM STATUS								
B-101	NCPLX	ASMD LKR	IS/IP	113	0	24	0.0	0.0	24	17	0	113	06/30/99	05/19/83		
B-102	NCPLX	SOUND	IS/IP	32	4	7	0.0	0.0	11	4	0	28	06/30/99	08/22/85		
B-103	NCPLX	ASMD LKR	IS/IP	59	0	11	0.0	0.0	11	3	0	59	06/30/99	10/13/88		
B-104	NCPLX	SOUND	IS/IP	371	1	45	0.0	0.0	46	42	309	61	06/30/99	10/13/88		
B-105	NCPLX	ASMD LKR	IS/IP	158	0	20	0.0	0.0	20	16	28	130	06/30/99	05/19/88		
B-106	NCPLX	SOUND	IS/IP	117	1	25	0.0	0.0	26	19	0	116	02/29/00	02/28/85		
B-107	NCPLX	ASMD LKR	IS/IP	165	1	22	0.0	0.0	23	19	93	71	06/30/99	02/28/85		
B-108	NCPLX	SOUND	IS/IP	94	0	15	0.0	0.0	15	11	53	41	06/30/99	05/10/85		
B-109	NCPLX	SOUND	IS/IP	127	0	21	0.0	0.0	21	17	63	64	06/30/99	04/02/85		
B-110	NCPLX	ASMD LKR	IS/IP	246	1	27	0.0	0.0	28	20	245	0	02/28/85	03/17/88		
B-111	NCPLX	ASMD LKR	IS/IP	237	1	23	0.0	0.0	24	29	236	0	06/28/85	06/26/85		
B-112	NCPLX	ASMD LKR	IS/IP	33	3	4	0.0	0.0	7	3	30	0	05/31/85	05/29/85		
B-201	NCPLX	ASMD LKR	IS/IP	29	1	4	0.0	0.0	5	1	28	0	04/28/82	11/12/86	06/23/95	
B-202	NCPLX	SOUND	IS/IP	27	0	4	0.0	0.0	4	0	27	0	05/31/85	05/29/85	06/15/95	
B-203	NCPLX	ASMD LKR	IS/IP	51	1	5	0.0	0.0	6	1	50	0	05/31/84	11/13/86		
B-204	NCPLX	ASMD LKR	IS/IP	50	1	5	0.0	0.0	6	1	49	0	05/31/84	10/22/87		
16 SINGLE-SHELL TANKS			TOTALS	1909	15	262	0.0	0.0	277	203	1211	683				

TABLE A-6. INVENTORY AND STATUS BY TANK - SINGLE-SHELL TANKS

March 31, 2001

These volumes are the result of engineering calculations and may not agree with surface level measurements.

TANK STATUS					LIQUID VOLUME						SOLIDS VOLUME			PHOTOS/VIDEOS		
TANK	WASTE MAT'L.	TANK INTEGRITY	STABIL/ ISOLATION STATUS	TOTAL WASTE (Kgal)	SUPER-NATE (Kgal)	DRAIN-ABLE INTER-STIT. (Kgal)	PUMPED THIS MONTH (Kgal)	TOTAL PUMPED (Kgal)	DRAIN-ABLE LIQUID REMAIN (Kgal)	PUMP-ABLE LIQUID REMAIN (Kgal)	SLUDGE (Kgal)	SALT CAKE (Kgal)	SOLIDS VOLUME UPDATE	LAST IN-TANK PHOTO	LAST IN-TANK VIDEO	SEE FOOTNOTES FOR THESE CHANGES
								BX TANK FARM STATUS								
BX-101	NCPLX	ASMD LKR	IS/IP/CCS	43	1	4	0.0	0.0	5	1	42	0	04/28/82	11/24/88	11/10/94	
BX-102	NCPLX	ASMD LKR	IS/IP/CCS	96	0	0	0.0	0.0	0	0	96	0	04/28/82	09/18/85		
BX-103	NCPLX	SOUND	IS/IP/CCS	71	9	4	0.0	0.0	13	9	62	0	11/29/83	10/31/86	10/27/94	
BX-104	NCPLX	SOUND	IS/IP/CCS	93	3	4	0.0	17.4	7	3	90	0	02/29/00	09/21/89		
BX-105	NCPLX	SOUND	IS/IP/CCS	51	5	4	0.0	15.0	9	5	46	0	06/30/99	10/23/86		
BX-106	NCPLX	SOUND	IS/IP/CCS	38	0	4	0.0	14.0	4	0	38	0	08/01/95	05/19/88	07/17/95	
BX-107	NCPLX	SOUND	IS/IP/CCS	345	1	36	0.0	23.1	37	33	344	0	09/18/90	09/11/90		
BX-108	NCPLX	ASMD LKR	IS/IP/CCS	26	0	4	0.0	0.0	4	0	26	0	07/31/79	05/05/94		
BX-109	NCPLX	SOUND	IS/IP/CCS	193	0	25	0.0	8.2	25	20	193	0	09/17/90	09/11/90		
BX-110	NCPLX	ASMD LKR	IS/IP/CCS	207	3	28	0.0	1.5	31	26	133	71	06/30/99	07/15/94	10/13/94	
BX-111	NCPLX	ASMD LKR	IS/IP/CCS	162	1	5	0.0	116.9	6	2	25	136	06/30/99	05/19/94	02/28/95	
BX-112	NCPLX	SOUND	IS/IP/CCS	165	1	9	0.0	4.1	10	7	164	0	09/17/90	09/11/90		
12 SINGLE-SHELL TANKS			TOTALS:	1490	24	127	0.0	200.2	151	106	1259	207				
								BY TANK FARM STATUS								
BY-101	NCPLX	SOUND	IS/IP	387	0	28	0.0	35.8	28	24	109	278	05/30/84	09/19/89		
BY-102	NCPLX	SOUND	IS/PI	277	0	40	0.0	159.0	40	33	0	277	05/01/95	09/11/87	04/11/95	
BY-103	NCPLX	ASMD LKR	IS/PI	400	0	58	0.0	95.9	58	53	9	391	06/30/99	09/07/89	02/24/97	
BY-104	NCPLX	SOUND	IS/IP	326	0	40	0.0	329.5	40	36	150	176	06/30/99	04/27/83		
BY-105	NCPLX	ASMD LKR	/PI	503	0	121	0.0	0.0	121	111	48	455	08/31/99	07/01/86		
BY-106	NCPLX	ASMD LKR	/PI	562	0	132	0.0	63.7	132	119	84	478	12/31/98	11/04/82		
BY-107	NCPLX	ASMD LKR	IS/IP	266	0	39	0.0	56.4	39	35	40	226	06/30/99	10/15/86		
BY-108	NCPLX	ASMD LKR	IS/IP	228	0	33	0.0	27.5	33	26	154	74	04/28/82	10/15/86		
BY-109	NCPLX	SOUND	IS/PI	290	0	31	0.0	157.1	31	26	57	233	07/08/87	06/18/97		
BY-110	NCPLX	SOUND	IS/IP	398	0	21	0.0	213.3	21	17	103	295	09/10/79	07/26/84		
BY-111	NCPLX	SOUND	IS/IP	459	0	14	0.0	313.2	14	6	0	459	06/30/99	10/31/86		
BY-112	NCPLX	SOUND	IS/IP	291	0	24	0.0	116.4	24	12	0	291	06/30/99	04/14/88		
12 SINGLE-SHELL TANKS			TOTALS:	4387	0	581	0.0	1567.8	581	498	754	3633				

TABLE A-6. INVENTORY AND STATUS BY TANK - SINGLE-SHELL TANKS

March 31, 2001

These volumes are the result of engineering calculations and may not agree with surface level measurements

TANK STATUS					LIQUID VOLUME						SOLIDS VOLUME					
TANK	WASTE MAT'L.	TANK INTEGRITY	STABIL/ ISOLATION STATUS	TOTAL WASTE (Kgal)	SUPER-NATE (Kgal)	DRAIN-ABLE INTER-STIT. (Kgal)	PUMPED THIS MONTH (Kgal)	TOTAL PUMPED (Kgal)	DRAIN-ABLE LIQUID REMAIN (Kgal)	PUMP-ABLE LIQUID REMAIN (Kgal)	SLUDGE (Kgal)	SALT CAKE (Kgal)	SOLIDS VOLUME UPDATE	LAST IN-TANK PHOTO	LAST IN-TANK VIDEO	SEE FOOTNOTES FOR THESE CHANGES
								C TANK FARM STATUS								
C-101	NCPLX	ASMD LKR	IS/IP	88	0	4	0.0	0.0	4	0	88	0	11/29/83	11/17/87		
C-102	DC	SOUND	IS/IP	316	0	62	0.0	46.7	62	55	316	0	09/30/95	05/18/76	08/24/95	
C-103	NCPLX	SOUND	/PI	198	79	18	0.0	0.0	97	83	119	0	12/31/98	07/28/87		
C-104	CC	SOUND	IS/IP	263	0	0	0.0	0.0	0	0	263	0	02/01/00	07/25/90		
C-105	NCPLX	SOUND	IS/PI	132	0	20	0.0	0.0	20	0	132	0	02/29/00	08/05/94	08/30/95	
C-106	NCPLX	SOUND	/PI	48	42	0	0.0	0.0	42	9	6	0	10/31/99	08/05/94	08/08/94	
C-107	DC	SOUND	IS/IP	257	0	30	0.0	40.8	30	25	257	0	06/30/99	00/00/00		
C-108	NCPLX	SOUND	IS/IP	66	0	4	0.0	0.0	4	0	66	0	02/24/84	12/05/74	11/17/94	
C-109	NCPLX	SOUND	IS/IP	66	4	4	0.0	0.0	8	4	62	0	11/29/83	01/30/76		
C-110	DC	ASMD LKR	IS/IP	178	1	37	0.0	15.5	38	30	177	0	06/14/95	08/12/86	05/23/95	
C-111	NCPLX	ASMD LKR	IS/IP	57	0	4	0.0	0.0	4	0	57	0	04/28/82	02/25/70	02/02/95	
C-112	NCPLX	SOUND	IS/IP	104	0	6	0.0	0.0	6	1	104	0	09/18/90	09/18/90		
C-201	NCPLX	ASMD LKR	IS/IP	2	0	0	0.0	0.0	0	0	2	0	03/31/82	12/02/86		
C-202	EMPTY	ASMD LKR	IS/IP	1	0	0	0.0	0.0	0	0	1	0	01/19/79	12/09/86		
C-203	NCPLX	ASMD LKR	IS/IP	5	0	0	0.0	0.0	0	0	5	0	04/28/82	12/09/86		
C-204	NCPLX	ASMD LKR	IS/IP	3	0	0	0.0	0.0	0	0	3	0	04/28/82	12/09/86		
16 SINGLE-SHELL TANKS			TOTALS:	1784	126	189	0.0	103.0	315	207	1658	0				
								S TANK FARM STATUS								
S-101	NCPLX	SOUND	/PI	427	12	83	0.0	0.0	95	80	211	204	12/31/98	03/18/88		
S-102	DSSF	SOUND	/PI	492	0	93	0.0	56.8	93	89	105	387	05/31/00	03/18/88		(c)
S-103	DSSF	SOUND	IS/PI	237	1	45	0.0	23.9	46	39	9	227	04/30/00	06/01/89	01/28/00	
S-104	NCPLX	ASMD LKR	IS/IP	294	1	34	0.0	0.0	35	31	293	0	12/20/84	12/12/84		
S-105	NCPLX	SOUND	IS/IP	456	0	42	0.0	114.3	42	33	2	454	09/26/88	04/12/89		
S-106	NCPLX	SOUND	IS/PI	455	0	26	0.0	203.6	26	2	0	455	02/28/01	03/17/89	01/28/00	(a)
S-107	NCPLX	SOUND	/PI	376	14	61	0.0	0.0	75	61	293	69	06/30/99	03/12/87		
S-108	NCPLX	SOUND	IS/PI	432	0	0	0.0	199.8	0	0	5	427	10/01/99	03/12/87	12/03/96	
S-109	NCPLX	SOUND	/PI	473	0	59	0.0	145.2	59	49	13	460	12/31/00	12/31/98		(j)
S-110	NCPLX	SOUND	IS/PI	390	0	30	0.0	203.1	30	27	131	259	05/14/92	03/12/87	12/11/96	
S-111	NCPLX	SOUND	/PI	501	48	82	0.0	3.3	130	97	116	337	09/30/99	06/10/89		
S-112	NCPLX	SOUND	/PI	523	0	81	0.0	125.1	81	70	6	517	12/31/98	03/24/87		
12 SINGLE-SHELL TANKS			TOTALS:	5056	76	636	0.0	1075.1	712	578	1184	3796				

TABLE A-6. INVENTORY AND STATUS BY TANK - SINGLE-SHELL TANKS

March 31, 2001

These volumes are the result of engineering calculations and may not agree with surface level measurements

TANK STATUS					LIQUID VOLUME						SOLIDS VOLUME					
TANK	WASTE MAT'L.	TANK INTEGRITY	STABIL/ ISOLATION STATUS	TOTAL WASTE (Kgal)	SUPER-NATE (Kgal)	DRAIN-ABLE INTER-STIT. (Kgal)	PUMPED THIS MONTH (Kgal)	TOTAL PUMPED (Kgal)	DRAIN-ABLE LIQUID REMAIN (Kgal)	PUMP-ABLE LIQUID REMAIN (Kgal)	SLUDGE (Kgal)	SALT CAKE (Kgal)	SOLIDS VOLUME UPDATE	LAST IN-TANK PHOTO	LAST IN-TANK VIDEO	SEE FOOTNOTES FOR THESE CHANGES
								SX TANK FARM STATUS								
SX-101	DC	SOUND	/PI	429	0	93	0.0	19.2	93	80	0	429	12/31/00	03/10/89		(l)
SX-102	DSSF	SOUND	/PI	514	134	95	0.0	0.0	229	216	0	380	04/30/00	01/07/88		
SX-103	NCPLX	SOUND	/PI	521	0	34	3.1	113.1	34	19	115	406	03/31/01	12/17/87		(k)
SX-104	DSSF	ASMD LKR	IS/PI	446	0	48	0.0	231.3	48	44	136	310	04/30/00	09/06/88	02/04/98	
SX-105	DSSF	SOUND	/PI	486	0	2	0.0	151.1	2	-10	65	421	01/31/01	06/15/88		(f)
SX-106	NCPLX	SOUND	IS/PI	397	0	37	0.0	147.5	37	31	0	397	05/31/99	06/01/89		
SX-107	NCPLX	ASMD LKR	IS/IP	102	0	0	0.0	0.0	0	0	85	17	10/31/00	03/06/87		
SX-108	NCPLX	ASMD LKR	IS/IP	87	0	0	0.0	0.0	0	0	87	0	12/31/93	03/06/87		
SX-109	NCPLX	ASMD LKR	IS/IP	249	0	0	0.0	0.0	0	0	60	189	10/31/00	05/21/86		
SX-110	NCPLX	ASMD LKR	IS/IP	62	0	0	0.0	0.0	0	0	62	0	10/06/76	02/20/87		
SX-111	NCPLX	ASMD LKR	IS/IP	122	0	8	0.0	0.0	8	3	122	0	06/30/99	06/09/94		
SX-112	NCPLX	ASMD LKR	IS/IP	108	0	6	0.0	0.0	6	1	108	0	06/30/99	03/10/87		
SX-113	NCPLX	ASMD LKR	IS/IP	31	0	0	0.0	0.0	0	0	31	0	06/30/99	03/18/88		
SX-114	NCPLX	ASMD LKR	IS/IP	165	0	0	0.0	0.0	0	0	44	121	10/31/00	02/26/87		
SX-115	NCPLX	ASMD LKR	IS/IP	12	0	0	0.0	0.0	0	0	12	0	04/28/82	03/31/88		
15 SINGLE-SHELL TANKS			TOTALS:	3731	134	323	3.1	662.2	457	384	927	2670				
								T TANK FARM STATUS								
T-101	NCPLX	ASMD LKR	IS/PI	102	1	20	0.0	25.3	21	16	37	64	06/30/99	04/07/93		
T-102	NCPLX	SOUND	IS/IP	32	13	3	0.0	0.0	16	11	19	0	08/31/84	08/28/89		
T-103	NCPLX	ASMD LKR	IS/IP	27	4	3	0.0	0.0	7	3	23	0	11/29/83	07/03/84		
T-104	NCPLX	SOUND	IS/PI	317	0	31	0.0	149.5	31	27	317	0	12/31/99	06/29/89	10/07/99	
T-105	NCPLX	SOUND	IS/IP	98	0	5	0.0	0.0	5	0	98	0	05/29/87	05/14/87		
T-106	NCPLX	ASMD LKR	IS/IP	21	2	0	0.0	0.0	2	2	19	0	04/28/82	06/29/89		
T-107	NCPLX	ASMD LKR	IS/PI	173	0	34	0.0	11.0	34	20	173	0	05/31/96	07/12/84	05/09/96	
T-108	NCPLX	ASMD LKR	IS/IP	44	0	5	0.0	0.0	5	0	21	23	06/30/99	07/17/84		

TABLE A-6. INVENTORY AND STATUS BY TANK - SINGLE-SHELL TANKS

March 31, 2001

These volumes are the result of engineering calculations and may not agree with surface level measurements

TANK STATUS					LIQUID VOLUME						SOLIDS VOLUME					
TANK	WASTE MAT'L.	TANK INTEGRITY	STABIL/ ISOLATION STATUS	TOTAL WASTE (Kgal)	SUPER-NATE (Kgal)	DRAIN-ABLE INTER-STIT. (Kgal)	PUMPED THIS MONTH (Kgal)	TOTAL PUMPED (Kgal)	DRAIN-ABLE LIQUID REMAIN (Kgal)	PUMP-ABLE LIQUID REMAIN (Kgal)	SLUDGE (Kgal)	SALT CAKE (Kgal)	SOLIDS VOLUME UPDATE	LAST IN-TANK PHOTO	LAST IN-TANK VIDEO	SEE FOOTNOTES FOR THESE CHANGES
T-109	NCPLX	ASMD LKR	IS/IP	58	0	10	0.0	0.0	10	3	0	58	06/30/99	02/25/93		
T-110	NCPLX	SOUND	IS/PI	369	1	48	0.0	50.3	48	43	368	0	01/31/00	07/12/84	10/07/99	
T-111	NCPLX	ASMD LKR	IS/PI	446	0	38	0.0	9.6	38	35	446	0	04/18/94	04/13/94	02/13/95	
T-112	NCPLX	SOUND	IS/IP	67	7	4	0.0	0.0	11	7	60	0	04/28/82	08/01/84		
T-201	NCPLX	SOUND	IS/IP	29	1	4	0.0	0.0	5	1	28	0	05/31/78	04/15/86		
T-202	NCPLX	SOUND	IS/IP	21	0	3	0.0	0.0	3	0	21	0	07/12/81	07/06/89		
T-203	NCPLX	SOUND	IS/IP	35	0	5	0.0	0.0	5	0	35	0	01/31/78	08/03/89		
T-204	NCPLX	SOUND	IS/IP	38	0	5	0.0	0.0	5	0	38	0	07/22/81	08/03/89		
16 SINGLE-SHELL TANKS			TOTALS:	1877	29	218	0.0	245.7	246	168	1703	145				
							TX TANK FARM STATUS									
TX-101	NCPLX	SOUND	IS/IP/CCS	87	3	8	0.0	0.0	11	7	74	10	06/30/99	10/24/85		
TX-102	NCPLX	SOUND	IS/IP/CCS	217	0	27	0.0	94.4	27	16	0	217	08/31/84	10/31/85		
TX-103	NCPLX	SOUND	IS/IP/CCS	157	0	18	0.0	68.3	18	11	0	157	06/30/99	10/31/85		
TX-104	NCPLX	SOUND	IS/IP/CCS	65	5	9	0.0	3.6	14	9	23	37	06/30/99	10/16/84		
TX-105	NCPLX	ASMD LKR	IS/IP/CCS	609	0	25	0.0	121.5	25	14	0	609	08/22/77	10/24/89		
TX-106	NCPLX	SOUND	IS/IP/CCS	341	0	37	0.0	134.6	37	30	0	341	06/30/99	10/31/85		
TX-107	NCPLX	ASMD LKR	IS/IP/CCS	36	1	6	0.0	0.0	7	1	8	27	06/30/99	10/31/85		
TX-108	NCPLX	SOUND	IS/IP/CCS	134	0	8	0.0	13.7	8	1	6	128	06/30/99	09/12/89		
TX-109	NCPLX	SOUND	IS/IP/CCS	384	0	6	0.0	72.3	6	2	384	0	06/30/99	10/24/89		
TX-110	NCPLX	ASMD LKR	IS/IP/CCS	462	0	14	0.0	115.1	14	10	37	425	06/30/99	10/24/89		
TX-111	NCPLX	SOUND	IS/IP/CCS	370	0	10	0.0	98.4	10	6	43	327	06/30/99	09/12/89		
TX-112	NCPLX	SOUND	IS/IP/CCS	649	0	26	0.0	94.0	26	21	0	649	05/30/83	11/19/87		
TX-113	NCPLX	ASMD LKR	IS/IP/CCS	653	0	30	0.0	19.2	30	0	0	653	10/31/00	04/11/83	09/23/94	
TX-114	NCPLX	ASMD LKR	IS/IP/CCS	535	0	17	0.0	104.3	17	11	4	531	06/30/99	04/11/83	02/17/95	
TX-115	NCPLX	ASMD LKR	IS/IP/CCS	568	0	25	0.0	99.1	25	15	0	568	06/30/99	06/15/86		
TX-116	NCPLX	ASMD LKR	IS/IP/CCS	631	0	21	0.0	23.6	21	17	68	563	06/30/99	10/17/89		
TX-117	NCPLX	ASMD LKR	IS/IP/CCS	626	0	10	0.0	54.3	10	5	29	597	06/30/99	04/11/83		
TX-118	NCPLX	SOUND	IS/IP/CCS	286	0	0	0.0	89.1	0	0	21	265	02/01/00	12/19/79		
18 SINGLE-SHELL TANKS			TOTALS:	6810	9	297	0.0	1205.7	306	176	697	6104				

TABLE A-6. INVENTORY AND STATUS BY TANK - SINGLE-SHELL TANKS

March 31, 2001

These volumes are the result of engineering calculations and may not agree with surface level measurements

TANK STATUS					LIQUID VOLUME						SOLIDS VOLUME			PHOTOS/VIDEOS		
TANK	WASTE MAT'L.	TANK INTEGRITY	STABIL/ ISOLATION STATUS	TOTAL WASTE (Kgal)	SUPER-NATE LIQUID (Kgal)	DRAIN-ABLE INTER-STIT. (Kgal)	PUMPED THIS MONTH (Kgal)	TOTAL PUMPED (Kgal)	DRAIN-ABLE LIQUID REMAIN (Kgal)	PUMP-ABLE LIQUID REMAIN (Kgal)	SLUDGE (Kgal)	SALT CAKE (Kgal)	SOLIDS VOLUME UPDATE	LAST IN-TANK PHOTO	LAST IN-TANK VIDEO	SEE FOOTNOTES FOR THESE CHANGES
								TY TANK FARM STATUS								
TY-101	NCPLX	ASMD LKR	IS/IP/CCS	118	0	2	0.0	8.2	2	0	72	46	06/30/99	08/22/89		
TY-102	NCPLX	SOUND	IS/IP/CCS	64	0	12	0.0	6.6	12	5	0	64	06/28/82	07/07/87		
TY-103	NCPLX	ASMD LKR	IS/IP/CCS	162	0	20	0.0	11.5	20	16	162	0	07/09/82	08/22/89		
TY-104	NCPLX	ASMD LKR	IS/IP/CCS	43	0	4	0.0	0.0	4	0	43	0	06/27/90	11/03/87		
TY-105	NCPLX	ASMD LKR	IS/IP/CCS	231	0	12	0.0	3.6	12	10	231	0	04/28/82	09/07/89		
TY-106	NCPLX	ASMD LKR	IS/IP/CCS	21	0	3	0.0	0.0	3	0	21	0	06/30/99	08/22/89		
6 SINGLE-SHELL TANKS			TOTALS:	639	0	53	0.0	29.9	53	31	529	110				
								U TANK FARM STATUS								
U-101	NCPLX	ASMD LKR	IS/IP	25	3	3	0.0	0.0	6	2	22	0	04/28/82	06/19/79		
U-102	NCPLX	SOUND	/PI	299	0	27	1.8	75.8	27	17	43	256	03/31/01	06/08/89		(e)
U-103	NCPLX	SOUND	IS/PI	418	1	33	0.0	98.9	34	28	13	404	05/31/00	09/13/88		
U-104	NCPLX	ASMD LKR	IS/IP	122	0	0	0.0	0.0	0	0	79	43	06/30/99	08/10/89		
U-105	NCPLX	SOUND	IS/PI	353	0	44	0.0	87.5	44	32	32	321	03/31/01	07/07/88		(b)
U-106	NCPLX	SOUND	IS/PI	172	2	36	0.0	39.1	38	30	0	170	03/31/01	07/07/88		(i)
U-107	DSSF	SOUND	/PI	408	33	92	0.0	0.0	125	115	15	360	12/31/98	10/27/88		
U-108	NCPLX	SOUND	/PI	468	24	108	0.0	0.0	132	124	29	415	12/31/98	09/12/84		
U-109	NCPLX	SOUND	/PI	399	0	61	0.0	65.9	61	52	35	364	12/31/00	07/07/88		(d)
U-110	NCPLX	ASMD LKR	IS/PI	186	0	18	0.0	0.0	18	14	186	0	12/30/84	12/11/84		
U-111	DSSF	SOUND	/PI	329	0	80	0.0	0.0	80	71	26	303	12/31/98	06/23/88		
U-112	NCPLX	ASMD LKR	IS/IP	49	4	4	0.0	0.0	8	4	45	0	02/10/84	06/03/89		
U-201	NCPLX	SOUND	IS/IP	5	1	1	0.0	0.0	2	1	4	0	08/15/79	08/08/89		
U-202	NCPLX	SOUND	IS/IP	5	1	1	0.0	0.0	2	1	4	0	08/15/79	08/08/89		
U-203	NCPLX	SOUND	IS/IP	3	1	0	0.0	0.0	1	1	2	0	08/15/79	06/13/89		
U-204	NCPLX	SOUND	IS/IP	3	1	0	0.0	0.0	1	1	2	0	08/15/79	06/13/89		
16 SINGLE-SHELL TANKS			TOTALS:	3244	71	508	1.8	367.2	579	493	537	2636				
GRAND TOTAL				33222	1355	3460	14.7	5652.5	4815	3913	11059	20808				

TABLE A-6. INVENTORY AND STATUS BY TANK - SINGLE-SHELL TANKS

March 31, 2001

THESE VOLUMES ARE THE RESULT OF ENGINEERING CALCULATIONS AND MAY NOT AGREE WITH SURFACE LEVEL MEASUREMENTS

FOOTNOTES:

Total Waste is calculated as the sum of Sludge and Saltcake plus Supernate. The category "Interim Isolated (II) was changed to Intrusion Prevention (IP) in June 1993.

Stabilization information from WHC-SD-RE-TI-178 SST STABILIZATION RECORD, latest revision, or SST Stabilization or Cognizant Engineer

Porosity values are 25% for saltcake and 15% for sludge, per HNF-2978, Rev. 1, "Updated Pumpable Liquid Volume Estimates and Jet Pump Durations for Interim Stabilization of Remaining Single-Shell Tanks," September 1999, with the exception of those tanks which have been interim stabilized and the porosities recalculated.

(a) S-106 This tank was declared Interim Stabilized on February 1, 2001. DOE concurred on February 12, 2001.

(b) U-105 This tank was declared Interim Stabilized on March 29, 2001, due to major equipment failure.

Total Waste: 353.0 Kgal
Supernate: 0.0 Kgal
Drainable Interstitial Liquid: 44.0 Kgal
Pumped this Month: 0.0 Kgal
Total Pumped: 87.5 Kgal
Drainable Liquid Remaining: 44.0 Kgal
Pumpable Liquid Remaining: 39.7 Kgal
Sludge: 32.0 Kgal
Saltcake: 321.0 Kgal

(c) S-102 Following information from Cognizant Engineer:

Pumping commenced March 18, 1999. Many pumping problems occurred over the following months, and the pump has been replaced several times. Pumping was interrupted again in June 2000. No pumping since June 2000.

(d) U-109 Following information from Cognizant Engineer

Pumping began March 11, 2000. Saltcake volume is adjusted to correspond to current waste removal. Remaining volumes based on HNF-2978, Rev. 2.
Pumping was shut down on December 3, 2000, due to jet pump failure. Attempts to restart the pump have been unsuccessful; the pump was replaced and restarted March 30, 2001.

During March 2001, a total of 1,025 gal of fluid was removed and a total of 1,079 gal of water was added for pump priming/equipment flushes.
There was no net waste removal in March and 54 gal of flush water must still be removed. In addition, 284 gal of water was used as dilution and 1,010 gal of water was used for transfer line flushes.

TABLE A-6. INVENTORY AND STATUS BY TANK - SINGLE-SHELL TANKS

March 31, 2001

THESE VOLUMES ARE THE RESULT OF ENGINEERING CALCULATIONS AND MAY NOT AGREE WITH SURFACE LEVEL MEASUREMENT

FOOTNOTES:

(e) U-102 Following information from Cognizant Engineer

Pumping began in this tank on January 20, 2000. Saltcake volume is adjusted to correspond to current waste removal.
Remaining volumes are based on HNF-2978, Rev. 2.

Total Waste: 299.2 Kgal
Supernate: 0.0 Kgal
Drainable Interstitial Liquid: 27.2 Kgal
Pumped this Month: 1.8 Kgal
Total Pumped: 75.8 Kgal
Drainable Liquid Remaining: 27.1 Kgal
Pumpable Liquid Remaining: 17.2 Kgal
Sludge: 43.0 Kgal
Saltcake: 256.2 Kgal

During March 2001, a total of 2,548 gal of fluid was removed with 707 gal of water added by pump priming/equipment flushes, for a net removal of 1,841 gal of waste. In addition, 3,314 gal of water were used as dilution and 4,837 gal of water were used for transfer line flushes.

(f) SX-105 Following information from Cognizant Engineer:

Saltwell pumping began August 8, 2000.
Remaining volumes are based on HNF-2978, Rev. 2.

Tank Waste: 485.9 Kgal
Supernate: 0.0 Kgal
Drainable Interstial Liquid: 1.9 Kgal
Pumped this month: 0.0 Kgal
Total Pumped: 15.1 Kgal
Drainable Liquid Remaining: 1.9 Kgal
Pumpable Liquid Remaining: -10.1 Kgal (*)
Sludge: 65.0 Kgal
Saltcake: 420.9 Kgal

In March 2001, a total of 67 gal of fluid was removed with 421 gal of water added by pump priming and system flushes. There was no net waste removal; 354 gal of flush waster must be removed next month. In addition, 16 gal of dilution water and 405 gal of water for transfer lines flushes were used.
(*) Minus 1,097 gal estimate for PLR because there is more pumpable liquid in the tank than originally estimated. This is due to the fact that approximately 118,000 gal of supernate was in the tank at the start of pumping.

TABLE A-6. INVENTORY AND STATUS BY TANK - SINGLE-SHELL TANKS

March 31, 2001

THESE VOLUMES ARE THE RESULT OF ENGINEERING CALCULATIONS AND MAY NOT AGREE WITH SURFACE LEVEL MEASUREMENT

FOOTNOTES:

(g) A-101 Following information from Cognizant Engineer

Pumping began on May 6, 2000. No pumping since August 2000.
Remaining volumes are based on the original estimated volumes in HNF-2978, Rev. 1.

(h) AX-101 Following informtion from Cognizant Engineer

Pumping began July 29, 2000; shutdown in August 2000, and resumed March 22, 2001.
Remaining volumes are based on the original estimated volumes in HNF-2978, Rev. 1.

Total Waste: 665.8 Kgal
Supernate: 367.8 Kgal
Drainable Interstitial: 73.7 Kgal
Pumped this month: 9.8 Kgal
Total Pumped: 18.2 Kgal
Drainable Liquid Remaing: 442.0 Kgal
Pumpable Liquid Remaining: 425.8 Kgal
Sludge: 3.0 Kgal
Saltcake: 295.0 Kgal

In March, 2001, a total of 10,346 gal of fluid was removed with 546 gal of water added for pump priming/equipment, for a net removal of 9.800 gal of waste.
In addition, 9,753 gal of water was used as dilution and 1,656 gal of water was used for transfer line flushes.

(i) U-106 This tank was declared Interim Stabilization on March 9, 20001.

Total Waste: 171. 9 Kgal
Supernate: 1.7 Kgal
Drainable Interstitial: 35.8 Kgal
Pumped this month: 0.0 Kgal
Total Pumped: 39.1 Kgal
Drainable Liquid Remaing: 35.8 Kgal
Pumpable Liquid Remaining: 30.2 Kgal
Sludge: 0.0 Kgal
Saltcake: 170.2 Kgal

TABLE A-6. INVENTORY AND STATUS BY TANK - SINGLE-SHELL TANKS

March 31, 2001

THESE VOLUMES ARE THE RESULT OF ENGINEERING CALCULATIONS AND MAY NOT AGREE WITH SURFACE LEVEL MEASUREMENTS

FOOTNOTES:

(j) S-109 Following information from Cognizant Engineer:

Pumping began September 23, 2000.
Remaining volumes are based on HNF-2978, Rev. 2.
The pumping rate dropped below .05 gpm and the pump was shut down on January 27, 2001. The tank is now being evaluated to determine if it can be interim stabilized.

(k) SX-103 Following information from Cognizant Engineer:

Pumping began October 26, 2000.
Remaining volumes are based on HNF-2978, Rev. 2.

Total Waste: 520.9 Kgal
Supernate: 0.0 Kgal
Drainable Interstitial Liquid: 33.9 Kgal
Pumped this month: 3.1 Kgal
Total Pumped: 113.1 Kgal
Drainable Liquid Remaining: 33.9 Kgal
Pumpable Liquid Remaining: 18.9 Kal
Sludge: 115.0 Kgal
Saltcake: 405.9 Kgal

In March 2001, a total of 3,398 gal of fluid was removed with a total of 292 gal of water added by pump priming/equipment flushes, for a net removal of 3,106 gal of waste.
In addition, 4,430 gal of water were used as dilution and 787 gal of water were used for transfer line flushes.

(l) SX-101 Following information from Cognizant Engineer:

Pumping began November 22, 2000. No pumping since December 2000.
Remaining volumes are based on HNF-2978, Rev 2. Saltcake volume is adjusted to correspond to current waste removal.

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APPENDIX B

PERFORMANCE SUMMARY

TABLE B-1. SUMMARY OF WASTE TRANSACTIONS IN THE DOUBLE-SHELL TANK (DST) SYSTEM

March 31, 2001

All volumes in Kilo-Gallons

- The DST system received waste additions from SST pumping, campaign 01-01,152-AX & 151-AZ in March.
- There was a net change of -580,000 gallons in the DST system for March.
- The total DST inventory as of March 31, 2001 was 20.627 million gallons.
- There were ~22 Kgals of Saltwell Liquid (SWL) (10 SWL + 12 H2O) pumped to the East Area DSTs (101-AN) in March.
- There were ~22 Kgals of SWL (5 Kgals SWL + 17 Kgals H2O) pumped to the West Area DSTs (102-SY) in March.
- The SWL numbers are preliminary and are subject to change once cognizant engineers do a validation, the volumes reported contain actual waste volume plus any water added for dilution and transfer line flushes.
- The Cold Run (training and testing) for evaporator 242A campaign 01-01 contributed ~19,000 gallons of water to the tank farms prior to the campaign Hot Run, which commenced on March 13th and was completed on March 27th.
- As supplied by evaporator engineering, the Waste Volume Reduction (WVR) for campaign 01-01 was ~682,000 gallons (pre evaporator flush and pot dump) and/or ~645,000 gallons (post flush and pot dump). ~37,000 gallons of water was added to the Tank Farms after completion of campaign 01-01 (evaporator flush and pot dump).
- Single-Shell Tank 105-U was declared Interim Stabilized in March; although all stabilization criteria had not been met the tank was declared stabilized due to "major equipment failure". Final adjusted waste volumes for this tank are 282,000 gallons saltcake (SC) + 27,000 gallons sludge (SL) + 44,000 gallons interstitial liquid (IL) = 353,000 gallons
- Also, Single-Shell Tank 106-U was declared Interim Stabilized in March. Final adjusted waste volume for Tank 106-U are: 134,000 gallons saltcake (SC) + 36,000 gallons interstitial liquid (IL) + 2,000 supernatant (DN) = 172,000 gallons.

FACILITY GENERATIONS		OTHER GAINS ASSOCIATED WITH		OTHER LOSSES ASSOCIATED WITH	
SWL (West)	+22 Kgal (2SY)	SLURRY	+3 Kgal	SLURRY	-2 Kgal
SWL (East)	+22 Kgal (1AN)	CONDENSATE	+9 Kgal	CONDENSATE	-4 Kgal
Evap. Training & Flush	+56 Kgal (2AW, 6AW)	INSTRUMENTATION	+0 Kgal	INSTRUMENTATION	-0 Kgal
TOTAL: +100 Kgal		UNKNOWN	+1 Kgal	UNKNOWN	-5 Kgal
		TOTAL= +13 Kgal		TOTAL= -11 Kgal	

	ACTUAL DST WASTE RECEIPTS	PROJECTED DST WASTE RECEIPTS (1)	MISC. DST CHANGES (+/-)	PROJECTED WVR (1)	NET DST CHANGE	TOTAL DST VOLUME
OCT00	222	155	-24	0	198	20653
NOV00	261	262	-14	0	247	20900
DEC00	139	300	-1	0	138	21038
JAN01	113	397	-25	0	88	21126
FEB01	100	303	-19	0	81	21207
MAR01	100	-283	2	-684	-580	20627
APR01		321		0		
MAY01		302		0		
JUN01		334		0		
JUL01		296		0		
AUG01		289		0		
SEP01		282		0		

(1): The "PROJECTED DST WASTE RECEIPTS" and "WVR" numbers were updated in November 2000, the projected volumes will be updated as new and/or more accurate information is obtained. The projected volumes reported are the most current available, as supplied by cognizant engineers.

Campaign 94-1 (04/15/94 - 06/13/94)	-2417
Campaign 94-2 (09/22/94 - 11/18/94)	-2787
Campaign 95-1 (06/09/95 - 07/26/95)	-2161
Campaign 96-1 (05/07/96 - 05/25/96)	-1117
Campaign 97-1 (03/24/97 - 04/02/97)	-351
Campaign 97-2 (09/16/97 - 09/30/97)	-653
Campaign 99-1 (07/24/99 - 08/15/99)	-818
Campaign 00-1 (04/20/00 - 05/05/00)	-682
Campaign 01-1 (03/13/01 - 03/27/01)	-682
Total Waste Reduction (WVR) since restart on 4/15/94	-11668

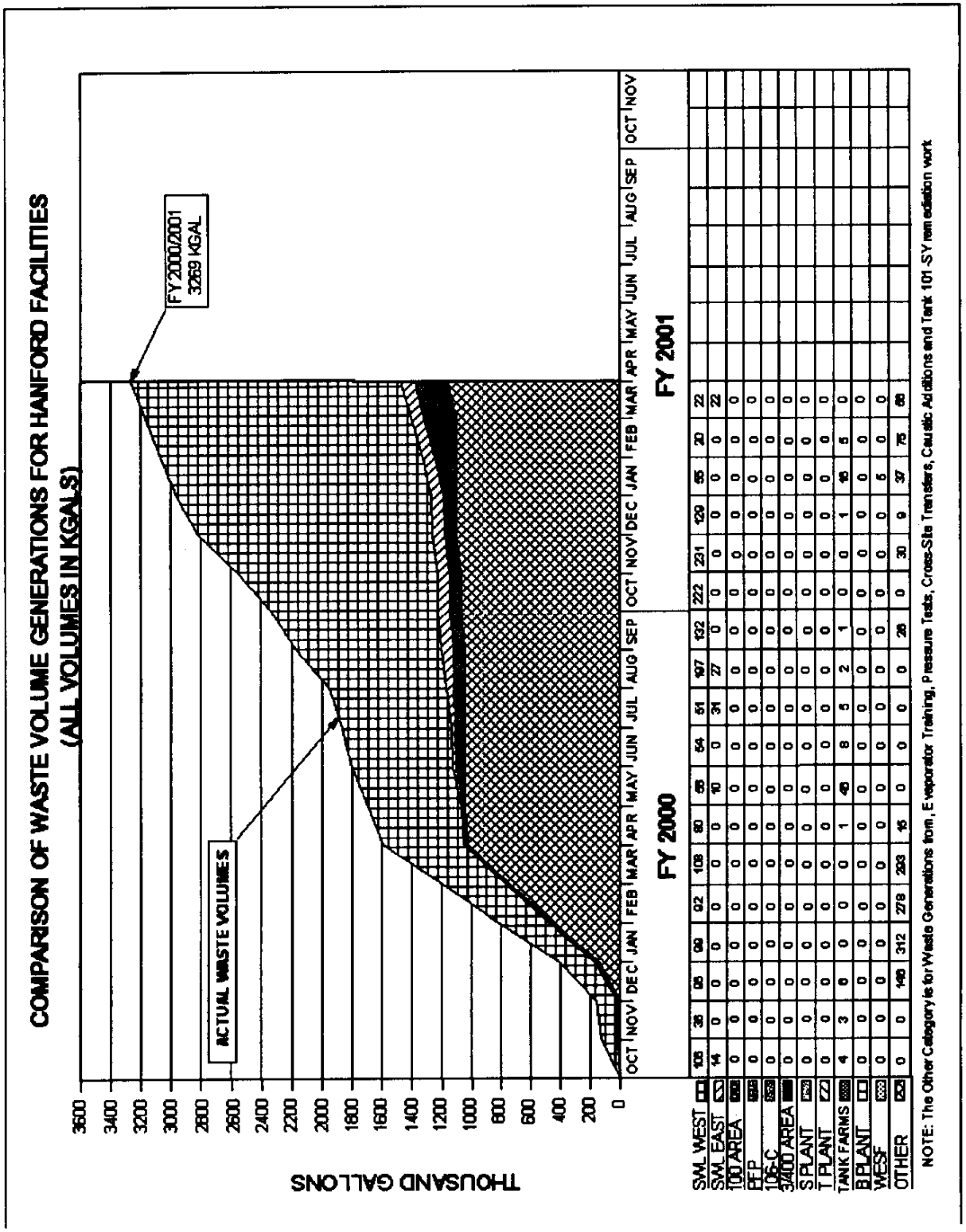

Figure B-1. Comparison of Projected Versus Actual Waste Volumes for Hanford Facilities

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APPENDIX C

DOUBLE-SHELL TANK WASTE TYPE AND SPACE ALLOCATION

Table C-1. Double-Shell Tank Waste Inventory - March 31, 2001

TOTAL AVAILABLE DST SPACE	
NON-AGING =	27360
AGING =	3920
TOTAL=	31280

MONTHLY INVENTORY CHANGE	
02/00 TOTAL	21207
03/01 TOTAL	20627
CHANGE=	-580

TANK NAME	WASTE TYPE	TOTAL INVENTORY (1)	TOTAL SUPERNATE	TOTAL SOLIDS (3)	SALTCAKE (2)	SALTCAKE LIQUID	SLUDGE (2)	SLUDGE LIQUID	REMAINING UNUSED TANK SPACE
241-AN-101	DN	247	247	0	0	0	0	0	893
241-AN-102	CC	1055	966	89	89	22	0	0	85
241-AN-103	DSS	957	500	457	457	114	0	0	183
241-AN-104	DSSF	1052	603	449	449	112	0	0	88
241-AN-105	DSSF	1128	639	489	489	122	0	0	12
241-AN-106	CC	38	21	17	17	4	0	0	1102
241-AN-107	CC	1040	793	247	247	62	0	0	100
241-AP-101	DSSF	1113	1113	0	0	0	0	0	27
241-AP-102	CP	1088	1088	0	0	0	0	0	52
241-AP-103	CC	281	281	0	0	0	0	0	859
241-AP-104	CC	1108	1108	0	0	0	0	0	32
241-AP-105	DSSF	1134	1045	89	89	22	0	0	6
241-AP-106	DC	622	622	0	0	0	0	0	518
241-AP-107	DC	982	982	0	0	0	0	0	158
241-AP-108	DN	37	37	0	0	0	0	0	1103
241-AW-101	DSSF	1126	751	375	375	94	0	0	14
241-AW-102	DN	86	56	30	30	8	0	0	1055
241-AW-103	DSSF/NCRW	840	477	363	47	12	316	79	300
241-AW-104	DN	316	85	231	231	58	0	0	824
241-AW-105	NCRW	426	171	255	0	0	255	36	714
241-AW-106	DSSF	564	326	239	239	60	0	0	676
241-AY-101	DC	186	109	76	0	0	76	11	796
241-AY-102	DN	643	470	173	0	0	173	26	337
241-AZ-101	NCAW	931	879	52	0	0	52	8	49
241-AZ-102	NCAW	986	881	105	0	0	105	16	0
241-SY-101	CC	970	887	83	83	21	0	0	170
241-SY-102	DC	921	850	71	0	0	71	11	219
241-SY-103	CC	742	376	366	366	92	0	0	396
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NOTE: All Volumes in Kilo-Gallons (Kgals)

(1) Total Inventory = (Total Supernate + Total Solids)

(2) Saltcake includes Saltcake Liquids; Sludge includes Sludge Liquid

(3) Total Solids = (Saltcake + Sludge)

Tank Space Usage

TANK SPACE CHANGE	
02/01 TANK SPACE	10988
03/01 TANK SPACE	10988
CHANGE=	0

OPERATIONAL SPACE	
AN-101=	893
AP-108=	1103
AW-102=	1055
AW-105=	714
AW-106=	676
SY-102=	219
TOTAL=	[illegible]

RESTRICTED SPACE	
AN-102=	85
AN-107=	100
AP-102=	52
AZ-101=	49
AZ-102=	0
SY-101=	170
TOTAL=	[illegible]

WATCH LIST SPACE	
AN-103=	183
AN-104=	88
AN-106=	12
AW-101=	14
SY-103=	396
TOTAL=	[illegible]

NON-ALLOCATED SPACE	
AN-108=	1102
AP-101=	27
AP-103=	859
AP-104=	32
AP-106=	6
AP-108=	518
AP-107=	158
AW-103=	300
AW-104=	824
AY-101=	796
AY-102=	337
TOTAL=	[illegible]
EMERGENCY SPACE	-1140
LAW or HLW RETURN	-1140
REMAINING SPACE	[illegible]

Inventory Calculation by Waste Type:

DILUTE SUPERNATE (DN)	
AN-101=	247
AP-108=	37
AW-102=	56
AW-104=	85
AW-105=	171
AY-102=	470
TOTAL DN=	1066
TOTAL SOLIDS=	[illegible]

SLURRY SUPERNATE (DSS/DSSF)	
AN-103=	500
AN-104=	603
AN-105=	639
AP-101=	1113
AP-106=	1045
AW-101=	751
AW-103=	477
AW-106=	326
TOTAL DSS/DSSF	5453
TOTAL SOLIDS=	2461

COMPLEXED SUPERNATE (DC/CC)	
AN-102=	966
AN-106=	21
AN-107=	793
AP-103=	281
AP-104=	1108
AP-106=	622
AP-107=	982
AY-101=	109
SY-101=	887
SY-102=	850
SY-103=	376
TOTAL DC/CC=	[illegible]
TOTAL SOLIDS	[illegible]

AGING SUPERNATE (AW)	
AZ-101=	879
AZ-102=	891
TOTAL AW=	1770
TOTAL SOLIDS	157

PHOSPHATE SUPERNATE (CP)	
TOTAL CP=	1088

DST SLUDGE / SALTCAKE LIQUID			
AN-102=	22	AW-104=	58
AN-103=	114	AW-105=	36
AN-104=	112	AW-106=	60
AN-105=	122	AY-101=	11
AN-106=	4	AY-102=	26
AN-107=	62	AZ-101=	8
AP-108=	22	AZ-102=	16
AW-101=	94	SY-101=	21
AW-102=	8	SY-102=	11
AW-103=	91	SY-103=	92
TOTAL SLUDGE / SALTCAKE LIQUID=			991

GRAND TOTALS	
DILUTE SUPERNATE (DN/DC) =	3619
SLURRY (DSS/DSSF)=	5453
CONCENTRATED COMPLEXED (CC)=	4541
CONCENTRATED PHOSPHATE (CP)=	1088
AGING SUPERNATE (AW)=	1770
DST SOLIDS (NO LIQUID)=	3265
DST SLUDGE / SALTCAKE LIQUID=	991
TOTAL=	20627

Table C-2. Double-Shell Tank Waste Inventory - March 31, 2001

TOTAL AVAILABLE TANK SPACE AS OF MARCH 31, 2001 =			10669 KGALS
WATCH LIST TANK SPACE:	**TANK**	**WASTE TYPE**	**AVAILABLE SPACE**
Unusable DST Headspace - Due to Special Restrictions Placed on the Tanks, as Stated in the "Wyden Bill"	AN-103	DSS	183 KGALS
	AN-104	DSSF	88 KGALS
	AN-105	DSSF	12 KGALS
	AW-101	DSSF	14 KGALS
	SY-103	CC	398 KGALS
		TOTAL=	695 KGALS
		AVAILABLE TANK SPACE=	10669 KGALS
		MINUS WATCH LIST SPACE=	-695 KGALS
TOTAL AVAILABLE SPACE AFTER WATCH LIST SPACE DEDUCTIONS=			9974 KGALS
RESTRICTED TANK SPACE:	**TANK**	**WASTE TYPE**	**AVAILABLE SPACE**
DST Headspace Available to Store Only Specific Waste Typ	AN-102	CC	85 KGALS
	AN-107	CC	100 KGALS
	AP-102	CP	52 KGALS
	AZ-101	AW	49 KGALS
	AZ-102	AW	0 KGALS
	SY-101	CC	170 KGALS
		TOTAL=	456 KGALS
AVAILABLE SPACE AFTER WATCH LIST SPACE DEDUCTIONS=			9974 KGALS
		MINUS RESTRICED SPACE=	-456 KGALS
TOTAL AVAILABLE SPACE AFTER RESTRICTED SPACE DEDUCTIONS=			9518 KGALS
OPERATIONAL TANK SPACE	**TANK**	**WASTE TYPE**	**AVAILABLE SPACE**
DST Headspace Available For Facility Generated Waste and 242-A Evaporator Operations	AN-101	DN	893 KGALS
	AP-108	DN	1103 KGALS
	AW-102	DN	1055 KGALS
	AW-105	NCRW	714 KGALS
	AW-106	DSSF	576 KGALS
	SY-102	DC	219 KGALS
		TOTAL=	4560 KGALS
AVAILABLE SPACE AFTER RESTRICTED SPACE DEDUCTIONS=			9518 KGALS
		MINUS OPERATIONAL SPACE=	-4560 KGALS
TOTAL AVAILABLE SPACE AFTER OPERATIONAL SPACE DEDUCTIONS=			4958 KGALS
NON-ALLOCATED TANK SPACE	**TANK**	**WASTE TYPE**	**AVAILABLE SPACE**
Non-Allocated DST Headspace	AN-106	CC	1102 KGALS
	AP-101	DSSF	27 KGALS
	AP-103	CC	859 KGALS
	AP-104	CC	32 KGALS
	AP-105	DSSF	6 KGALS
	AP-106	DC	518 KGALS
	AP-107	DC	158 KGALS
	AW-103	DSSF/NCRW	300 KGALS
	AW-104	DN	824 KGALS
	AY-101	DC	795 KGALS
	AY-102	DN	337 KGALS
TOTAL NON-ALLOCATED TANK SPACE=			4958 KGALS
EMERGENCY TANK SPACE			-1140 KGALS
LAW or HLW RETURN SPACE:			-1140 KGALS
TOTAL TANK SPACE AVAILABLE AFTER ALL DEDUCTIONS=			2678 KGALS

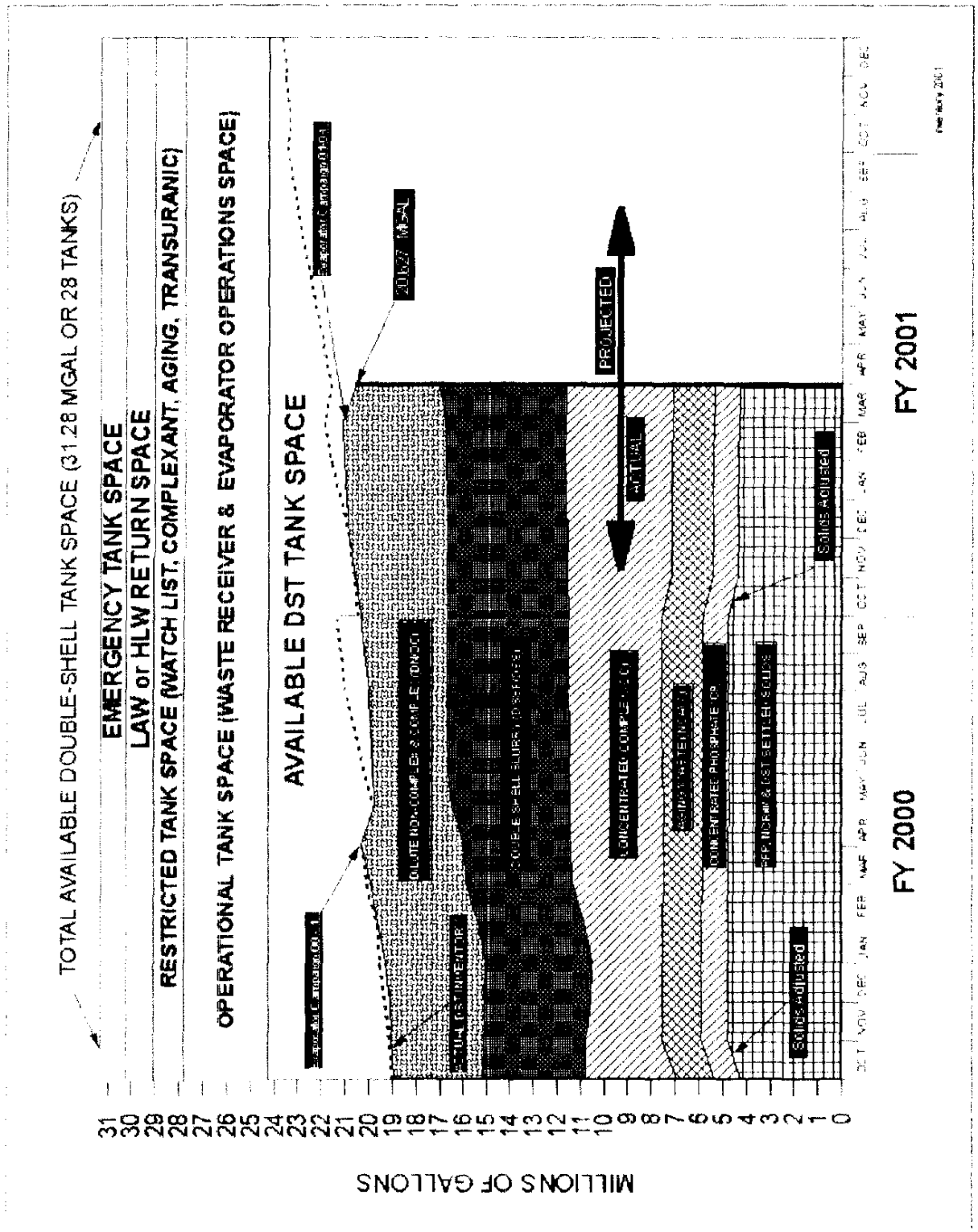

Figure C-1 Total Double-Shell Tank Inventory

APPENDIX D

WASTE TANK SURVEILLANCE MONITORING TABLES

TABLE D-1. TEMPERATURE MONITORING IN WATCH LIST TANKS (Sheet 1 of 2)

March 31, 2001

These tanks have been identified as Watch List Tanks in accordance with Public Law 101-510, Section 3137, "*Safety Measures for Waste Tanks at Hanford Nuclear Reservation,*" (1990), because they "... may have a serious potential for release of high-level waste due to uncontrolled increases in temperature or presssure."

All Watch List tanks are reviewed for increasing temperature trends. Temperatures in these tanks are monitored by the Tank Monitor And Control System (TMACS), unless indicated otherwise.

Temperatures are taken in the waste unless in-waste thermocouples are out of service. Temperatures below are the highest temperatures recorded in these tanks during this month.

Temperatures in Degrees F.

HYDROGEN (FLAMMABLE GAS)					
Single-Shell Tanks			Double-Shell Tanks		
Tank No.	Temp.	Officially Added to Watch List	Tank No.	Temp.	Officially Added to Watch List
A-101	144	1/91	AN-103	102	1/91
AX-101	128	1/91	AN-104	104	1/91
AX-103	105	1/91	AN-105	101	1/91
S-102	100	1/91	AW-101	98	6/93
S-111	89	1/91	SY-103	94	1/91
S-112	83	1/91	5 DSTs		
SX-101	127	1/91			
SX-102	139	1/91			
SX-103	153	1/91			
SX-104	137	1/91			
SX-105	157	1/91			
SX-106	97	1/91			
SX-109 (1)	132	1/91		19 Single-Shell Tanks	
T-110	63	1/91		5 Double-Shell Tanks	
U-103	86	1/91		24 Tanks on Watch List	
U-105	87	1/91			
U-107	78	12/93			
U-108	86	1/92			
U-109	84	1/91			
19 SSTs					

All tanks were removed from the Ferrocyanide Watch List and 18 tanks from the Organics Watch List.
Tank C-106 was removed from the High Heat Load Watch List on December 16, 1999.
The remaining two tanks (C-102 and C-103) were removed from the Organics Watch List in August 2000.
DST SY-101 was removed from the Hydrogen Watch list on January 11, 2001.

TABLE D-1. TEMPERATURE MONITORING IN WATCH LIST TANKS
(sheet 2 of 2)

Notes:

Unreviewed Safety Question (USQ):
When a USQ is declared, special controls are required, and work in the tanks is limited. There are currently no USQs on any tanks.

Hydrogen/Flammable Gas:
These tanks are suspected of having a significant potential for hydrogen/flammable gas generation, entrapment, and episodic release. The USQ associated with these tanks was closed in September 1998. Twenty-four tanks (19 SST and 5 DST) remain on the Hydrogen Watch List.

High Heat:
These tanks contain heat generating strontium-rich sludge and require drainable liquid to be maintained in the tank to promote cooling. There are currently nine tanks on the High Heat Load List but no tanks on the High Heat Load Watch List.

Active ventilation:
There are 15 single-shell tanks on active ventilation (seven are on the Watch List as indicated by an asterisk):

C-105	SX-107
C-106 (2)	SX-108
SX-101 *	SX-109 * (1)
SX-102 *	SX-110
SX-103 *	SX-111
SX-104 *	SX-112
SX-105 *	SX-114
SX-106 *	

Footnotes:

(1) Tank SX-109 is on the Hydrogen Watch List as it has the potential for flammable gas accumulation only because other SX tanks vent through it.

(2) Tank C-106 was removed from the High Heat Load Watch List on December 16, 1999.

TABLE D-2. TEMPERATURE MONITORING IN NON-WATCH LIST TANKS

March 31, 2001

SINGLE-SHELL TANKS WITH HIGH HEAT LOADS (>26,000 Btu/hr)

Nine tanks have high heat loads for which temperature surveillance requirements are established by HNF-SD-WM-TSR-006, Rev 1, *Tank Waste Remediation System Technical Safety Requirements,* December 1999. In an analysis, WHC-SD-WM-SARR-010, Rev 1, *Heat Removal Characteristics of Waste Storage Tanks,* Kummerer, 1995, it was estimated that nine tanks have heat sources >26,000 Btu/hr, which is the new parameter for determining high heat load tanks. See also document HNF-SD-WM-BIO-001, Rev 1, *Tank Waste Remediation System Basis for Interim Operation,* Noorani, 1998.

Temperatures in these tanks did not exceed the Technical Safety Requirements (TSR) for this month, and are monitored by the Tank Monitoring and Control System (TMACS), unless indicated otherwise. All high heat load tanks are on active ventilation.

Tank No.	Temperature (F.)	
C-106 (1)	61	(Riser #8)
SX-103	153	
SX-107	162	
SX-108	179	
SX-109 (2)	132	
SX-110	161	
SX-111	179	
SX-112	144	
SX-114	172	
9 Tanks		

Notes:

(1) C-106 was removed from the High Heat Load Watch List on December 16, 1999. The final thermal analysis report, RPP-6463, Rev. 0, "Thermal Analysis for Tanks 241-AY-102 and C-106," was issued August 9, 2000. The report concluded that the best estimate heat load for C-106 is between 7,000 and 11,000 Btu/hr. Although it no longer meets the criteria for a high heat load tank, an AB amendment is required to revise the temperature control limits and monitoring frequency. The AB Amendment request is pending review by ORP, and is expected to be approved in April 2001.

(2) SX-109 is on the Hydrogen Watch List as it has the potential for flammable gas accumulation only because the other SX tanks vent through it.

SINGLE-SHELL TANKS WITH LOW HEAT LOADS (<26,000 Btu/hr)

There are 114 low heat load non-watch list tanks. Temperatures in tanks connected to TMACS are monitored by TMACS; temperatures in those tanks not yet connected to TMACS are manually taken semiannually in January and July. Temperatures obtained semiannually have been within historical ranges for the applicable tank.

No temperatures have been obtained for several years in the tanks listed below. Most of these tanks have no thermocouple tree.

Tank Numbers		
BX-104	SX-115	TX-110
BY-102	T-102	TX-114
BY-109	T-105	TX-116
C-204	TX-101	TX-117
		U-104

TABLE D-3. ADDITIONS/DELETIONS TO WATCH LISTS BY YEAR

March 31, 2001

Added/Deleted dates may differ from dates that tanks were officially added to the Watch Lists. (See Table D-1).

	Ferrocyanide	Hydrogen	Organics	High Heat	Total Tanks SST	Total Tanks DST	Total Tanks Total
1/91 Original List -Response to Public Law 101-6	23	23	8	1	47	5	52
Added 2/91 (revision to Original List)	1 T-107				1		1
Total - December 31, 1991	24	23	8	1	48	5	53
Added 8/92		1 AW-101				1	1
Total - December 31, 1992	24	24	8	1	48	6	54
Added 3/93			1 U-111		1		
Deleted 7/93	-4 (BX-110) (BX-111) (BY-101) (T-101)				-4		
Added 12/93		1 (U-107)			0		
Total - December 31, 1993	20	25	9	1	45	6	51
Added 2/94			1 T-111		1		
Added 5/94			10 A-101 AX-102 C-102 S-111 SX-103 TY-104 U-103 U-105 U-203 U-204		4		
Deleted 11/94	-2 (BX-102) (BX-106)				-2		
Total - December 31, 1995	18	25	20	1	48	6	54
Deleted 6/96	-4 (C-108) (C-109) (C-111) (C-112)				-4		
Deleted 9/96	-14 (BY 103) (BY-104) (BY-105) (BY 106) (BY 107) (BY 108) (BY 110) (BY 111) (BY 112) (T-107) (TX 118) (TY 101) (TY 103) (TY 104)				-12		
Deleted 12/98			-18 (A-101) (AX-102) (B-103) (S-102) (S-111) (SX-103) (SX-106) (T-111) (TX-105) (TX-118) (TY-104) (U-103) (U-105) (U-106) (U-107) (U-111) (U-203) (U-204)		-10		
Total - December 31, 1998	0	25	2	1	22	6	28
Deleted 12/99				-1 (C-106)	-1		
Deleted 08/00			-1 (C-102)		-1		
			-1 (C-103)		-1		
Deleted 01/01		-1 (SY-101)				-1	
Total - March 31, 2001	0	24	0	0	19	5	24