START

SEP 27 1993 (14)

Sta. 7

ENGINEERING DATA TRANSMITTAL

0036058

379

1. EDT № 141141

2. To: (Receiving Organization) Distribution	3. From: (Originating Organization) Control Systems Engineering	4. Related EDT No.: N/A
5. Proj./Prog./Dept./Div.: TWRS N1B6V	6. Cog. Engr.: T. T. Tran	7. Purchase Order No.: N/A
8. Originator Remarks: Release of documentation on the status of Single Shell and Double Shell Tank Thermocouples. It will be periodically updated as upgrades to instrumentation progresses.		9. Equip./Component No.: N/A
		10. System/Bldg./Facility: Tank Farms
11. Receiver Remarks:		12. Major Assm. Dwg. No.:
		13. Permit/Permit Application No.:
		14. Required Response Date: N/A

15. DATA TRANSMITTED

(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	(F) Impact Level	(G) Reason for Transmittal	(H) Originator Disposition	(I) Receiver Disposition
1	WHC-SD-WM-TI-553		0	Thermocouple Status Single Shell & Double Shell Waste Tanks.	4	2	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

17. SIGNATURE/DISTRIBUTION (See Impact Level for required signatures)

(G) Reason	(H) Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN	(J) Name	(K) Signature	(L) Date	(M) MSIN	(G) Reason	(H) Disp.
2	1	Cog.Eng. T. T. Tran	Thanhmai T. Tran	9/24/93	L7-04						
2	1	Cog. Mgr. K. L. Bennett	K L Bennett	9/24/93	L7-04						
		QA									
		Safety									
		Env.									
2	1	C. P. Schroeder	C P Schroeder	9/24/93	L7-06						

MAY 1994 RECEIVED EFIC

18.	19.	20.	21. DOE APPROVAL (if required)
Thanhmai T. Tran 9/24/93 Signature of EDT Originator Date	C P Schroeder 9/24/93 Authorized Representative for Receiving Organization Date	K L Bennett 9/24/93 Cognizant/Project Engineer's Manager Date	Ltr. No. [] Approved [] Approved w/comments [] Disapproved w/comments

BD-7400-172-2 (07/91) GEF097

BD-7400-172-1 (07/91)

INSTRUCTIONS FOR COMPLETION OF THE ENGINEERING DATA TRANSMITTAL

(USE BLACK INK OR TYPE)

BLOCK	TITLE	
(1)*	EDT	• Pre-assigned EDT number.
(2)	To: (Receiving Organization)	• Enter the individual's name, title of the organization, or entity (e.g., Distribution) that the EDT is being transmitted to.
(3)	From: (Originating Organization)	• Enter the title of the organization originating and transmitting the EDT.
(4)	Related EDT No.	• Enter EDT numbers which relate to the data being transmitted.
(5)*	Proj./Prog./Dept./Div.	• Enter the Project/Program/Department/Division title or Project/Program acronym or Project Number, Work Order Number or Organization Code.
(6)*	Cognizant Engineer	• Enter the name of the individual identified as being responsible for coordinating disposition of the EDT.
(7)	Purchase Order No.	• Enter related Purchase Order (P.O.) Number, if available.
(8)*	Originator Remarks	• Enter special or additional comments concerning transmittal, or "Key" retrieval words may be entered.
(9)	Equipment/Component No.	• Enter equipment/component number of affected item, if appropriate.
(10)	System/Bldg./Facility	• Enter appropriate system, building or facility number, if appropriate.
(11)	Receiver Remarks	• Enter special or additional comments concerning transmittal.
(12)	Major Assm. Dwg. No.	• Enter applicable drawing number of major assembly, if appropriate.
(13)	Permit/Permit Application No.	• Enter applicable permit or permit application number, if appropriate.
(14)	Required Response Date	• Enter the date a response is required from individuals identified in Block 17 (Signature/Distribution).
(15)*	Data Transmitted	
	(A)* Item Number	• Enter sequential number, beginning with 1, of the information listed on EDT.
	(B)* Document/Drawing No.	• Enter the unique identification number assigned to the document or drawing being transmitted.
	(C)* Sheet No.	• Enter the sheet number of the information being transmitted. If no sheet number, leave blank.
	(D)* Rev. No.	• Enter the revision number of the information being transmitted. If no revision number, leave blank.
	(E) Title or Description of Data Transmitted	• Enter the title of the document or drawing or a brief description of the subject if no title is identified.
	(F)* Impact Level	• Enter the appropriate Impact Level (Block 15). Also, indicate the appropriate approvals for each item listed, i.e., SQ, ESQ, etc. Use NA for non-engineering documents.
	(G) Reason for Transmittal	• Enter the appropriate code to identify the purpose of the data transmittal (see Block 16).
	(H) Originator Disposition	• Enter the appropriate disposition code (see Block 16).
	(I) Receiver Disposition	• Enter the appropriate disposition code (see Block 16).
(16)	Key	• Number codes used in completion of Blocks 15 (G), (H), and (I), and 17 (G), (H) (Signature/Distribution).
(17)	Signature/Distribution	
	(G) Reason	• Enter the code of the reeson for transmittal (Block 16).
	(H) Disposition	• Enter the code for the disposition (Block 16).
	(J) Name	• Enter the signature of the individual completing the Disposition 17 (H) and the Transmittal.
	(K)* Signature	• Obtain appropriate signature(s).
	(L)* Date	• Enter date signature is obtained.
	(M)* MSIN	• Enter MSIN. Note: If Distribution Sheet is used, show entire distribution (including that indicated on Page 1 of the EDT) on the Distribution Sheet.
(18)	Signature of EDT Originator	• Enter the signature and date of the individual originating the EDT (entered prior to transmittal to Receiving Organization). If the EDT originator is the cognizant engineer, sign both Blocks 17 and 18.
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(21)*	DOE Approval	• Enter DOE approval (if required) by letter number and indicate DOE action.

*Asterisk denote the required minimum items check by Configuration Documentation prior to release; these are the minimum release requirements.

Date Received: 930927	INFORMATION RELEASE REQUEST	Reference: WHC-CM-3-4

Complete for all Types of Release

Purpose

- [] Speech or Presentation
  - [] Full Paper
  - [] Summary
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- [] Software/Database
- [] Controlled Document
- [] Other

ID Number (include revision, volume, etc.)
WHC-SD-WM-TI-553, Revision 0

List attachments.
N/A

Date Release Required
9/24/93

Title Thermocouple Status Single Shell & Double Shell Waste Tanks.

Unclassified Category UC-

Impact Level 4

New or novel (patentable) subject matter? [X] No [] Yes
If "Yes", has disclosure been submitted by WHC or other company?
[] No [] Yes Disclosure No(s).

Information received from others in confidence, such as proprietary data, trade secrets, and/or inventions?
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Will proceedings be published? [] Yes [] No
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Review Required per WHC-CM-3-4	Yes	No	Reviewer - Signature Indicates Approval: Name (printed) / Signature / Date
Classification/Unclassified Controlled Nuclear Information	[]	[X]	
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Applied Technology/Export Controlled Information or International Program	[]	[X]	
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RL Program/Project	[]	[X]	
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Other Program/Project	[]	[X]	

Information conforms to all applicable requirements. The above information is certified to be correct.

	Yes	No
References Available to Intended Audience	[X]	[]
Transmit to DOE-HQ/Office of Scientific and Technical Information	[]	[X]

Author/Requestor (Printed/Signature) Date
ThanhMai T. Tran Thanhmai T. Tran 9/22/93

Intended Audience
[] Internal [X] Sponsor [] External

Responsible Manager (Printed/Signature) Date
K. L. Bennett K L Bennett 9/24/93

INFORMATION RELEASE ADMINISTRATION APPROVAL STAMP

Stamp is required before release. Release is contingent upon resolution of mandatory comments.

Date Cancelled | Date Disapproved

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SUPPORTING DOCUMENT

1. Total Pages 377

2. Title

Thermocouple Status Single Shell & Double Shell Waste Tanks.

3. Number

WHC-SD-WM-TI-553

4. Rev No.

0

5. Key Words

Thermocouple
Temperature
Liquid Observation Well
Riser Elevation
Waste Level
Single Shell
Double Shell
Watch List Tank

6. Author

Name: ThanhMai T. Tran

Thanhmai t. tran
Signature

Organization/Charge Code W23860/N1B6V

7. Abstract

This document contains a compilation of information for the 177 underground waste storage tanks. It is provided for information only and has not been validated. However, it does include the source reference documents which may have been field verified. It is recommended that the source document be consulted and/or field verified before using the data contained herein for a design basis.

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9. Impact Level 4

10. RELEASE STAMP

OFFICIAL RELEASE BY WHC (14)
DATE SEP 27 1993
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THERMOCOUPLE STATUS

SINGLE SHELL & DOUBLE SHELL WASTE TANKS

WHC-SD-WM-TI-553, REV. 0

PREPARED BY

T.T. Tran

Electrical Engineering, Instrumentation and Controls

September 24, 1993

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THERMOCOUPLE STATUS

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1.0 INTRODUCTION

This document contains a tabulation of thermocouple information for each of the 177 underground waste storage tanks at the Hanford Site. It is provided for information only and has not been validated. However, it does include the source reference documents which may have been field verified. It is recommended that the source document be consulted and/or field verified before using the data contained herein for a design basis. The information contained in the tabulation is:

(1) thermocouple tree location in the tank (riser number) and the riser elevation;

(2) liquid observation well (LOW) location in the tank (riser number) and the riser elevation;

(3) inside tank bottom elevation (with respect to mean sea level) and waste level for each tank;

(4) approximate date of installation of thermocouple tree or probe;

(5) thermocouple type;

(6) individual thermocouple condition (e.g. failed, marginal, acceptable or good);

(7) number of thermocouples on each thermocouple tree and individual thermocouple elevation relative to tank center bottom;

(8) frequency of temperature monitoring and data acquisition condition code;

(9) category of tank;

(10) Highest waste temperature reading and date that the temperature was taken;

(11) field verification testing date; and

(12) reference drawings for thermocouple tree or probes.

This report contains the best information that is available at the time of issue and will be revised as field checks are completed as described above.

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2.0 DATA SHEET EXPLANATION

The elevation of each thermocouple on the TC tree (which is relative to tank center bottom) is determined based on TC probe assembly and installation drawings, but field verification is needed for actual elevation. An example of calculating the thermocouple elevation is shown on next page.

A condition code is provided for each thermocouple that has been field checked. The condition code is left blank on those tanks where the thermocouple field checks have not been completed. The documentation format for the thermocouple status in double shell tanks (DST) is different from the single shell tanks (SST) format. This is due to the number of thermocouples that are installed in DST and their locations. DST not only have TCs located in the primary tank but also have TCs in other places, e.g. outside the primary tank, in the insulating concrete, in the structural concrete, or in concrete dome.

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EXAMPLE OF THERMOCOUPLE ELEVATION CALCULATION:

Calculation to determine elevation of the first thermocouple (TC #1) relative to the tank bottom center. This example is based on the thermocouple tree in Riser 1 of Tank 102-U.

Known information:

Riser Elevation:	665.94 Ft
Tank bottom elevation at center :	627.00 Ft
Thermocouple Probe Standard:	H-2-34304
Instrumentation Temperature Monitor System Arrangement Plan & Detail:	H-2-37332

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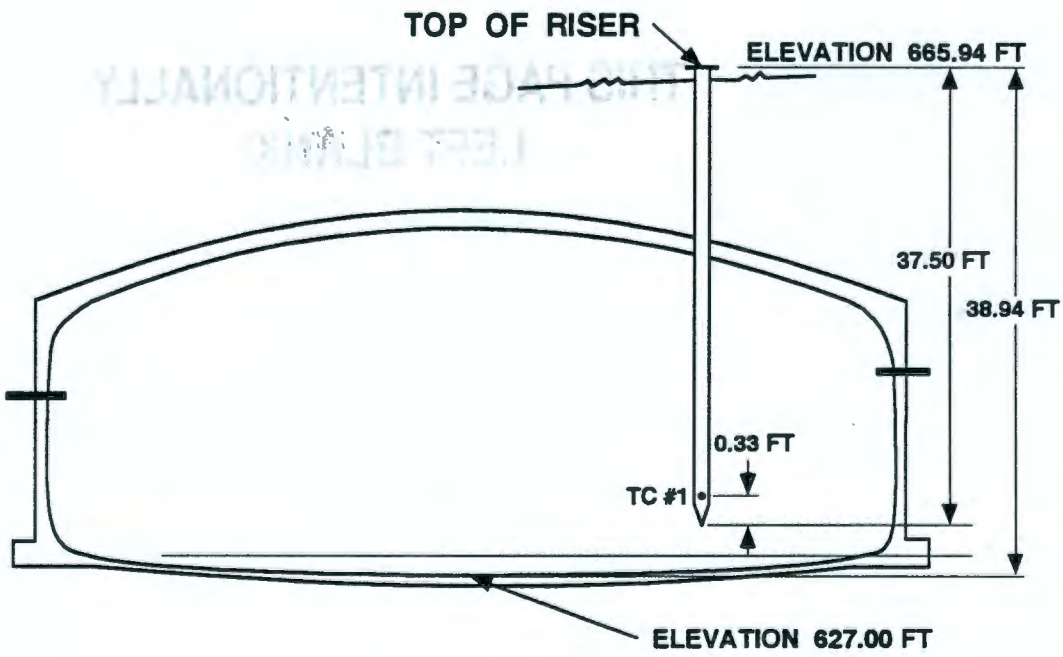

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Information to find:

Elevation of the first thermocouple (TC #1) relative to the tank center bottom.

Calculation:

The distance from the Riser 1 flange to tank bottom center is:

```
  665.94 Ft
- 627.00 Ft
   38.94 Ft
```

From drawing H-2-37332, the length of thermocouple tree below the riser flange (dimension L) is 37.5 Ft.

> NOTE: The design of this thermocouple tree allows its effective length to be 37.5' - 1.0' to 37.5 + 2.0'. Since this thermocouple tree has not been field checked, exact TC placement is not known exactly. The calculation *assumes that the effective length* of the TC tree below the flange is the nominal length 37.5 Ft.

The distance from the tip of thermocouple tree to tank center bottom is:

```
  38.94 Ft
- 37.50 Ft
   1.44 Ft
```

Since TC #1 is located 4" (0.33 Ft) from the tip of thermocouple tree (see drawing H-2-34304), the elevation of TC #1 relative to tank center bottom is:

```
  1.44 Ft
+ 0.33 Ft
  1.77 Ft
```

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3.0 ABBREVIATIONS

ACQ : Acquisition

CASS : Computer Automated Surveillance System

COND : Condition

DACS : Data Acquistion and Control System

DST : Double Shell Tank

ELEV : Elevation

LOW : Liquid Observation Well

MIT : Multifunctional Instrument Tree

RTD : Resistance Temperature Detector

SST :Single Shell Tank

TBD : To be determine

TC : Thermocouple

TEMP : Temperature

TMACS : Tank Monitor and Control System

WC : Weather covered with urethane foam

S : South, Southern

N : North, Northern

W : West, Western

E : East, Eastern

SE : South East

SW : South West

NE : North East

NW : North West

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4.0 KEY & DESCRIPTION

Riser: Pipe leading into tank dome

Radius: Distance from tank center to riser center

Elevation: Surveyed at riser flange

Good: Indicated temperature compares favorably to the temperature measured by another thermocouple in an Liquid Observation Well.

Acceptable: Thermocouples with measured resistance value within normal limits and an indicated temperature within expected range.

Marginal: Thermocouple with higher than normal (0.5 ohms to 20 ohms depending on length) loop resistance, higher than normal resistance in one lead to ground, or having some other abnormality, e.g. inconsistent resistance measurements.

Failed: Thermocouples with either open circuits or loop resistance greater than 100 ohms.

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THERMOCOUPLE STATUS

A-FARM

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THERMOCOUPLE STATUS
TANK 101-A

	RISER 2	RISER 10	RISER 12	COMMENTS
RISER ELEVATION (FT)	690.42	690.56	690.21	WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	636.73	636.73	636.73	R-2: Early TC, lead covered, not usable
WASTE LEVEL (FT)	28.9	28.9	28.9	R-10: Install Spacer & Blind Flange, TC probably is not usable.
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1			@ 0.33 *	R-12: Terminal box on this riser has similar design as the terminal box shown on drawing H-2-34304 (field observation by W.E. Willingham 9/4/92). TCs will be tested during 4th QTR FY93. Bussell
2			@ 2.33 *	
3			@ 4.33 *	
4			@ 6.33 *	
5			@ 8.33 *	
6			@ 10.33 *	
7			@ 12.33 *	
8			@ 14.33 *	
9			@ 16.33 *	
10			@ 18.33 *	
11			@ 20.33 *	
12			@ 22.33 *	
13			@ 24.33 *	
14			@ 26.33 *	
15			@ 28.33 *	
16			@ 30.33	
17			@ 34.33	
18			@ 38.33	
(TREE,PROBE, LOW,MIT ; TYPE TC)	EARLY TC See comment	TC tree See comment	TREE J H-2-69170 H-2-34304, ASSY 1	
HIGH WASTE TEMP (°F) DATE READ			153° TC #9 7/17/92	
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING			WEEKLY	
DATA ACQ. CODE/COND			MANUAL	
CATEGORY OF TANK	HYDROGEN SST	HYDROGEN SST	HYDROGEN SST	
TANK DWG #	H-2-37850 H-2-73388	H-2-37850 H-2-73388	H-2-37850 H-2-73388	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE
   = Good
   = Acceptable
   .. = Marginal
   F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 101-A

	RISER 19	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	690.56			WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	636.73			
WASTE LEVEL (FT)	28.9			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	LOW H-2-93715			
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	HYDROGEN SST			
TANK DWG #	H-2-37850 H-2-73388			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 102-A

	RISER 7	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	689.23			
TANK BOTTOM ELEV. (FT)	635.73			
WASTE LEVEL (FT)	1.2			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ TBD			
2	@			
3	@			
4	@			
5	@			
6	@			
7	@			
8	@			
9	@			
10	@			
11	@			
12	@			
13	@			
14	@			
15	@			
16	@			
17	@			
18	@			
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-69170 H-2-34304, ASSY 1			
HIGH WASTE TEMP (°F) DATE READ	92° TC #1 7/2/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK	IS/PI SST			IS: Interim Stabilized PI: Partially Interim Isolated
TANK DWG #	H-2-37[illegible]0 H-2-[illegible]			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

TBD: To be determined by field check

9413276.0886

THERMOCOUPLE STATUS
TANK 103-A

	RISER 15	RISER 19	RISER 2	COMMENTS
RISER ELEVATION (FT)	688.07	688.74	688.15	R-15: Has only 16 readings (temp. log book)
TANK BOTTOM ELEV. (FT)	634.73	634.73	634.73	
WASTE LEVEL (FT)	11.2	11.2 *	11.2	R-2: Has not been determined that Riser 2 has a TC in it. An initial review of the in-tank photos in 1991 do not indicate a TC present, but H-2-73392 indicates a thermocouple in this riser. Need review of in-tank photos. (Comments from Allen Alstad cc:mail date 3/2/93)
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ TBD			
2	@			
3	@			
4	@			
5	@			
6	@			
7	@			
8	@			
9	@			
10	@			
11	@			
12	@			
13	@			
14	@			
15	@			
16	@			
17	@			
18	@			
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-69170 H-2-34304, ASSY 1	LOW H-2-93715	THERMOCOUPLE see comment	
HIGH WASTE TEMP (°F) DATE READ	119° TC #1 7/2/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK	Assumed Leaker IS/II			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37850 H-2-73392	H-2-37850 H-2-73392		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

TBD: To be determined by field check

THERMOCOUPLE STATUS
TANK 104-A

	RISER 12	RISER 18	RISER	COMMENTS
RISER ELEVATION (FT)	689.29	?		According to Allen Alstad in a cc: mail dated 3/2/93: R-12 & R-18 each contains a single TC and we do not know the elevation of R-18. It is not shown on any reference drawings. A surveyor would be required to furnish this information.
TANK BOTTOM ELEV. (FT)	635.73	635.73		
WASTE LEVEL (FT)	0.9	0.9		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	SINGLE TC H-2-69170 ? H-2-70150 ? See comment	SINGLE TC H-2-69170 ? H-2-70150 ? See comment		Do not know thermocouple elevations and installation drawing number as of 9/14/93. Needs field verification.
HIGH WASTE TEMP (°F) DATE READ	192° 9/2/93	192° 8/23/93		
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	WEEKLY	WEEKLY		
DATA ACQ. CODE/COND	MANUAL	MANUAL		
CATEGORY OF TANK	HI HEAT LOAD SST	HI HEAT LOAD SST		
TANK DWG #	H-2-37850 H-2-73386	H-2-37850 H-2-73386		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0889

THERMOCOUPLE STATUS
TANK 105-A

	RISER 9	RISER 15	RISER 16	COMMENTS
RISER ELEVATION (FT)	689.18	687.45	687.37	105-A Laterals: Temperature are taken in 34 TCs located beneath 105-A. Highest temp. is 240 °F as of 9/2/93 (See H-2-33973 for TCs elevations).
TANK BOTTOM ELEV. (FT)	634.73	634.73	634.73	
WASTE LEVEL (FT)	0.6	0.6	0.6	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	SINGLE TC H-2-74691 See comment	SINGLE TC H-2-64535 ? See comment	SINGLE TC H-2-64535 ? See comment	R-9,R-15, R-16,R-17,R-19,R-22 : Each contains a single TC (field observation by WEW 9/4/92) Do not know thermocouple elevation and installation drawing at this time. Needs field verification.
HIGH WASTE TEMP (°F) DATE READ	150° 9/2/93	147° 9/2/93	154° 9/2/93	
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	WEEKLY	WEEKLY	WEEKLY	
DATA ACQ. CODE/COND	MANUAL	MANUAL	MANUAL	
CATEGORY OF TANK	HIGH HEAT SST	HIGH HEAT SST	HIGH HEAT SST	
TANK DWG #	H-2-37850 H-2-73387	H-2-73387	H-2-73387	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 105-A

	RISER 17	RISER 19	RISER 22	COMMENTS
RISER ELEVATION (FT)	687.66	687.95	687.73	
TANK BOTTOM ELEV. (FT)	634.73	634.73	634.73	
WASTE LEVEL (FT)	0.6	0.6	0.6	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	SINGLE TC H-2-64535 ? See comment	SINGLE TC H-2-64535 ? See comment	SINGLE TC H-2-64535 ? See comment	Do not know TC installation drawing. Needs field verification.
HIGH WASTE TEMP (°F) DATE READ	152° TC #1 9/2/93	152° TC #1 9/2/93	88° TC #1 9/2/93	
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	WEEKLY	WEEKLY	WEEKLY	
DATA ACQ. CODE/COND	MANUAL	MANUAL	MANUAL	
CATEGORY OF TANK	HI HEAT LOAD SST	HI HEAT LOAD SST	HI HEAT LOAD SST	
TANK DWG #	H-2-37850 H-2-73387	H-2-37850 H-2-73387	H-2-37850 H-2-73387	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0890

THERMOCOUPLE STATUS
TANK 106-A

	RISER 14	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	687.79			R-14: Has only 16 readings (based on temp. log book).
TANK BOTTOM ELEV. (FT)	633.73			
WASTE LEVEL (FT)	3.8			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 0.89 *			
2	@ 2.89 *			
3	@ 4.89			
4	@ 6.89			
5	@ 8.89			
6	@ 10.89			
7	@ 12.89			
8	@ 14.89			
9	@ 16.89			
10	@ 18.89			
11	@ 20.89			
12	@ 22.89			
13	@ 24.89			
14	@ 26.89			
15	@ 28.89			
16	@ 30.89			
17	@ 34.89			
18	@ 38.89			
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-69170 H-2-34304, ASSY 1			
HIGH WASTE TEMP (°F) DATE READ	59° TC #9 - #10 7/3/92			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	SEMIANNUALLY			
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37850 H-2-73394			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0892

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THERMOCOUPLE STATUS

AX-FARM

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THERMOCOUPLE STATUS
TANK 101-AX

	RISER 7A	RISER 7B	RISER 7C	COMMENTS
RISER ELEVATION (FT)	681.71	681.71	681.75	WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	628.42	628.42	628.42	
WASTE LEVEL (FT)	22.7	22.7	22.7	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C NO. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	PROFILE TEMP.	PROFILE TEMP.	PROFILE TEMP.	R-7A To R-7D: Weather Covered by B-181 (4/29/82). Temperature in these risers are not accessible.
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	HYDROGEN SST	HYDROGEN SST	HYDROGEN SST	Potential Flammable Gases (Hydrogen) (WHC-EP-416)
TANK DWG #	H-2-37854 H-2-73376	H-2-37854 H-2-73376	H-2-37854 H-2-73376	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0893

THERMOCOUPLE STATUS
TANK 101-AX

	RISER 7D	RISER 9A	RISER 9B	COMMENTS
RISER ELEVATION (FT)	681.71	681.60	681.64	WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	628.42	628.42	628.42	R-9B: Assume that the tip of TC tree is located 2" from the tank center bottom. TC #1 is located 4" from the tip of TC tree (based on H-2-34304), the elevation of TC #1 relative to tank center bottom is: 2" + 4" = 6" or 0.5 Ft
WASTE LEVEL (FT)	22.7	22.7	22.7	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1			@ 0.5 *	
2			@ 2.5 *	
3			@ 4.5 *	
4			@ 6.5 *	
5			@ 8.5 *	
6			@ 10.5 *	
7			@ 12.5 *	
8			@ 14.5 *	
9			@ 16.5 *	
10			@ 18.5 *	
11			@ 20.5 *	
12			@ 22.5 *	
13			@ 24.5	
14			@ 26.5	
15			@ 28.5	
16			@ 30.5	
17			@ 34.5	
18			@ 38.5	
(TREE,PROBE, LOW,MIT ; TYPE TC)	PROFILE TEMP.	LOW H-2-93715	TREE J H-2-69170 H-2-34304, ASSY 1	R-7A To R-7D: Weather Covered by B-181 (4/29/82)
HIGH WASTE TEMP (°F) DATE READ			138° TC #1-#6 8/26/93	
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING			WEEKLY	
DATA ACQ. CODE/COND			CASS	
CATEGORY OF TANK	HYDROGEN SST	HYDROGEN SST	HYDROGEN SST	Potential Flammable Gases (Hydrogen) (WHC-EP-0416)
TANK DWG #	H-2-37854 H-2-73376	H-2-37854 H-2-73376	H-2-37854 H-2-73376	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 101-AX

	RISER 11A	RISER 11B	RISER 11C	COMMENTS
RISER ELEVATION (FT)	?	?	?	WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	628.42	628.42	628.42	Riser 11A through 11C are not inside the tank. Do not know if the TC are accessible. The riser elevations are not shown on any of the reference drawings. (Comment from Allen Alstad, cc:mail date 3/2/93)
WASTE LEVEL (FT)	22.7	22.7	22.7	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	STRUCTURAL TEMP. See comment	STRUCTURAL TEMP. See comment	STRUCTURAL TEMP. See comment	R-11A To R-11C: TCs terminate in dome of concrete
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	HYDROGEN SST	HYDROGEN SST	HYDROGEN SST	Potential Flammable Gases (Hydrogen) (WHC-EP-416)
TANK DWG #	H-2-37854 H-2-73376	H-2-37854 H-2-73376	H-2-37854 H-2-73376	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0895

THERMOCOUPLE STATUS
TANK 101-AX

	RISER 13A	RISER 13B	RISER 13C	COMMENTS
RISER ELEVATION (FT)	681.51	681.54	681.52	WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	628.42	628.42	628.42	
WASTE LEVEL (FT)	22.7	22.7	22.7	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	PROFILE TEMP. See comment	PROFILE TEMP. See comment	PROFILE TEMP. See comment	R-13A To R-13C: Weather Covered. Profile temp. are not accessible
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	HYDROGEN SST	HYDROGEN SST	HYDROGEN SST	Potential Flammable Gases (Hydrogen) (WHC-EP-416)
TANK DWG #	H-2-37854 H-2-73376	H-2-37854 H-2-73376	H-2-37854 H-2-73376	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0896

THERMOCOUPLE STATUS
TANK 102-AX

	RISER 7A	RISER 7B	RISER 7C	COMMENTS
RISER ELEVATION (FT)	682.69	682.66	682.68	According to Allen Alstad in a cc:mail dated 3/2/93: the profile temperatures in Riser 7A through Riser 7D are weather covered and are not accessible.
TANK BOTTOM ELEV. (FT)	628.42	628.42	628.42	
WASTE LEVEL (FT)	1.2	1.2	1.2	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	PROFILE TEMP. See comment	PROFILE TEMP. See comment	PROFILE TEMP. See comment	
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST	Assumed Leaker	Assumed Leaker	IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37854 H-2-73378	H-2-37854 H-2-73378	H-2-37854 H-2-73378	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0897

THERMOCOUPLE STATUS
TANK 102-AX

	RISER 7D	RISER 9C	RISER	COMMENTS
RISER ELEVATION (FT)	682.68	682.68		
TANK BOTTOM ELEV. (FT)	628.42	628.42		
WASTE LEVEL (FT)	1.2	1.2		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1		@ 1.09 *		
2		@ 3.09		
3		@ 5.09		
4		@ 7.09		
5		@ 9.09		
6		@ 11.09		
7		@ 13.09		
8		@ 15.09		
9		@ 17.09		
10		@ 19.09		
11		@ 21.09		
12		@ 23.09		
13		@ 25.09		
14		@ 27.09		
15		@ 29.09		
16		@ 31.09		
17		@ 35.09		
18		@ 39.09		
(TREE,PROBE, LOW,MIT ; TYPE TC)	PROFILE TEMP.	TREE J H-2-69170 H-2-34304, ASSY 1		
HIGH WASTE TEMP (°F) DATE READ		77 ° TC #5 11/20/91		
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING		SEMIANNUALLY		
DATA ACQ. CODE/COND		MANUAL		
CATEGORY OF TANK	Assumed Leaker IS/II SST	Assumed Leaker		IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37854 H-2-73378	H-2-37854 H-2-73378		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 102-AX

	RISER 11A	RISER 11B	RISER 11C	COMMENTS
RISER ELEVATION (FT)	?	?	?	According to Allen Alstad in a cc:mail dated 3/2/93: Riser 11A through 11C are not inside the tank. Do not know if the TCs are accessible. The riser elevation are not shown on any reference drawings.
TANK BOTTOM ELEV. (FT)	628.42	628.42	628.42	
WASTE LEVEL (FT)	1.2	1.2	1.2	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C NO. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	THERMOCOUPLE B-181-87 See comment	THERMOCOUPLE PER B-181-87 See comment	THERMOCOUPLE PER B-181-87 See comment	R-11A To R-11C: Structural temp. TCs terminate in dome of concrete
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37854 H-2-73378	H-2-37854 H-2-73378	H-2-37854 H-2-73378	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0899

THERMOCOUPLE STATUS
TANK 102-AX

	RISER 13A	RISER 13B	RISER 13C	COMMENTS
RISER ELEVATION (FT)	682.56	682.57	682.56	
TANK BOTTOM ELEV. (FT)	628.42	628.42	628.42	
WASTE LEVEL (FT)	1.2	1.2	1.2	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TEMP. ELEMENT See comment	TEMP. ELEMENT See comment	TEMP. ELEMENT See comment	R-13A & R-13C: Weather Covered. Temp. elements are not accessible
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37854 H-2-73378	H-2-37854 H-2-73378	H-2-37854 H-2-73378	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 103-AX

	RISER 7A	RISER 7B	RISER 7C	COMMENTS
RISER ELEVATION (FT)	681.67	681.63	681.66	WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	628.42	628.42	628.42	
WASTE LEVEL (FT)	3.4	3.4	3.4	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TEMP See comment	TEMP See comment	TEMP See comment	Riser 7A through 7D are weather covered. The temperatures are not accessible.
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	HYDROGEN SST	HYDROGEN SST	HYDROGEN SST	Potential Flammable Gases (Hydrogen)(WHC-EP-0416)
TANK DWG #	H-2-37854 H-2-73380	H-2-37854 H-2-73380	H-2-37854 H-2-73380	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 103-AX

	RISER 7D	RISER 9A	RISER 9B	COMMENTS
RISER ELEVATION (FT)	681.67	681.64	681.63	WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	628.42	628.42	628.42	
WASTE LEVEL (FT)	3.4	3.4	3.4	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	PROFILE TEMP	TEMP. ? H-2-93715	PROBE H-2-69170 ? See comment	Do not know the thermocouple assembly/installation drawings. Needs field verification.
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	HYDROGEN SST	HYDROGEN SST	HYDROGEN SST	Potential Flammable Gases (Hydrogen)(WHC-EP-0416)
TANK DWG #	H-2-37854 H-2-73380	H-2-37854 H-2-73380	H-2-37854 H-2-73380	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 103-AX

	RISER 11A	RISER 11B	RISER 11C	COMMENTS
RISER ELEVATION (FT)	?	?	681.0	WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	628.42	628.42	628.42	Riser 11A through 11C are not inside the tank. Do not know if the TC are accessible. The riser elevations are not shown on any of reference drawings. (Comment from Allen Alstad, cc:mail date 3/2/93)
WASTE LEVEL (FT)	3.4	3.4	3.4	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	THERMOCOUPLE See comment	THERMOCOUPLE See comment	THERMOCOUPLE See comment	R-11A To R-11C: Structural Temp. TCs terminate in dome of concrete
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	HYDROGEN SST	HYDROGEN SST	HYDROGEN SST	Potential Flammable Gases (Hydrogen) (WHC-EP-0416)
TANK DWG #	H-2-37854 H-2-73380	H-2-37854 H-2-73380	H-2-37854 H-2-73380	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 103-AX

	RISER 13A	RISER 13B	RISER 13C	COMMENTS
RISER ELEVATION (FT)	681.52	681.49	681.52	WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	628.42	628.42	628.42	
WASTE LEVEL (FT)	3.4	3.4	3.4	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1			@ 0.17 *	
2			@ 2.17 *	
3			@ 4.17	
4			@ 6.17	
5			@ 8.17	
6			@ 30.42	
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TEMP. See comment	TEMP. B-181-87 See comment	TREE J H-2-90344 H-2-90342, ASSY. 5	R-13A & R-13B: Weather Covered. Temperature in these risers are not accessible.
HIGH WASTE TEMP (°F) DATE READ			114 ° TC #1 8/26/93	
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING			WEEKLY	
DATA ACQ. CODE/COND			?	
CATEGORY OF TANK	HYDROGEN SST	HYDROGEN SST	HYDROGEN SST	Potential Flammable Gases (Hydrogen) (WHC-EP-0416)
TANK DWG #	H-2-37854 H-2-73380	H-2-37854 H-2-73380	H-2-37854 H-2-73380	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 104-AX

	RISER 7A	RISER 7B	RISER 9C	COMMENTS
RISER ELEVATION (FT)	682.79	682.64	682.66	
TANK BOTTOM ELEV. (FT)	628.42	628.42	628.42	
WASTE LEVEL (FT)	0.2	0.2	0.2	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C NO. 1			@ 1.07	
2			@ 3.07	
3			@ 5.07	
4			@ 7.07	
5			@ 9.07	
6			@ 11.07	
7			@ 13.07	
8			@ 15.07	
9			@ 17.07	
10			@ 19.07	
11			@ 21.07	
12			@ 23.07	
13			@ 25.07	
14			@ 27.07	
15			@ 29.07	
16			@ 31.07	
17			@ 35.07	
18			@ 39.07	
(TREE,PROBE, LOW,MIT ; TYPE TC)	PROFILE TEMP.	PROFILE TEMP.	TREE J H-2-69170 H-2-34304, ASSY 1	
HIGH WASTE TEMP (°F) DATE READ			97° TC #1 7/2/93	
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING			SEMIANNUALLY	
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37854 H-2-73382	H-2-37854 H-2-73382	H-2-37854 H-2-73382	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

= Good
= Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

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THERMOCOUPLE STATUS
TANK 104-AX

	RISER 11A	RISER 11B	RISER 11C	COMMENTS
RISER ELEVATION (FT)	?	?	?	Riser 11A through 11C are not inside the tank. Do not know if the TC are accessible. The riser elevations are not shown on any of the reference drawings. (Comment from Allen Alstad, cc:mail date 3/2/93)
TANK BOTTOM ELEV. (FT)	628.42	628.42	628.42	
WASTE LEVEL (FT)	0.2	0.2	0.2	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C NO. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	STRUCTURAL TEMP. See comment	STRUCTURAL TEMP. See comment	STRUCTURAL TEMP. See comment	R-11A To R-11C: TCs terminate in dome of concrete; Below Grade
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker			
TANK DWG #	H-2-37854 H-2-73382	H-2-37854 H-2-73382	H-2-37854 H-2-73382	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 104-AX

	RISER 13A	RISER 13B	RISER 13C	COMMENTS
RISER ELEVATION (FT)	682.49	682.49	682.54	
TANK BOTTOM ELEV. (FT)	628.42	628.42	628.42	
WASTE LEVEL (FT)	0.2	0.2	0.2	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TEMPERATURE B-181-87 See comment	TEMPERATURE B-181-87 See comment	TEMPERATURE B-181-87 See comment	R-13A, R-13B, R-13C: Weather Covered Temp. in these risers are not accessible.
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37854 H-2-73382	H-2-37854 H-2-73382	H-2-37854 H-2-73382	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

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THERMOCOUPLE STATUS

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THERMOCOUPLE STATUS
TANK 101-B

	RISER 9	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	?			Has 11 readings (based on temp.log book). The elevation of Riser 9 is not shown on any reference drawing.
TANK BOTTOM ELEV. (FT)	615.00			
WASTE LEVEL (FT)	4.0			Assume that the tip of TC tree is located 1 Ft from the tank center bottom. TC #1 is located 4" above the tip of TC tree (based on H-2-34304), the elevation of TC #1 relative to tank center bottom is: 1 Ft + 0.33 Ft = 1.33 Ft
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 1.33 *			
2	@ 3.33 *			
3	@ 5.33			
4	@ 7.33			
5	@ 9.33			
6	@ 11.33			
7	@ 13.33			
8	@ 15.33			
9	@ 17.33			
10	@ 21.33			
11	@ 25.33			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-34304 see comment			TC tree assembly design similar to drawing H-2-34304 (field observation by WEW 9/17/92)
HIGH WASTE TEMP (°F) DATE READ	108° TC#1 7/1/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	SEMIANNUALLY			
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37851 H-2-73276			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 102-B

	RISER 4	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	654.81			
TANK BOTTOM ELEV. (FT)	614.00			
WASTE LEVEL (FT)	1.6			*
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 2.64			
2	@ 4.64			
3	@ 6.64			
4	@ 8.64			
5	@ 10.64			
6	@ 12.64			
7	@ 14.64			
8	@ 16.64			
9	@ 18.64			
10	@ 20.64			
11	@ 22.64			
12	@ 24.64			
13	@ 28.64			
14	@ 32.64			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-36301 H-2-34304, ASSY 1			
HIGH WASTE TEMP (°F) DATE READ	78° TC #4 7/1/93			TC #1 is out of service (as of 7/1/93 Temp. log book)
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	SEMIANNUALLY			
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK	LOW HEAT LOAD SST IS/II			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37851 H-2-73280			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 103-B

	RISER 4	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	653.80			WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	613.00			
WASTE LEVEL (FT)	2.4			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C NO. 1	@ 2.63			
2	@ 4.63			
3	@ 6.63			
4	@ 8.63			
5	@ 10.63			
6	@ 12.63			
7	@ 14.63			
8	@ 16.63			
9	@ 18.63			
10	@ 20.63			
11	@ 22.63			
12	@ 24.63			
13	@ 28.63			
14	@ 32.63			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-36301 H-2-34304, ASSY 1			
HIGH WASTE TEMP (°F) DATE READ	62° TC #1 8/26/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	WEEKLY			
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK	ORGANIC SALTS SST Assumed Leaker			
TANK DWG #	H-2-37851 H-2-73281			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0911

THERMOCOUPLE STATUS
TANK 104-B

	RISER 5	RISER 6	RISER	COMMENTS
RISER ELEVATION (FT)	654.19	654.28		Has 11 readings (based on temp. log book)
TANK BOTTOM ELEV. (FT)	615.00	615.00		
WASTE LEVEL (FT)	11.9	11.9		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@			Do not know TC elevations. Needs field verification.
2	@			
3	@			
4	@			
5	@			
6	@			
7	@			
8	@			
9	@			
10	@			
11	@			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-34304 see comment	LOW H-2-93715		TC tree assembly design similar to drawing H-2-34304 (field observation by WEW 9/17/92)
HIGH WASTE TEMP (°F) DATE READ	66° TC #1 7/1/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	SEMIANNUALLY			
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK	LOW HEAT LOAD SST IS/II			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37851 H-2-73282	H-2-37851 H-2-73282		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 105-B

	RISER 5	RISER 15	RISER	COMMENTS
RISER ELEVATION (FT)	653.16	652.68		R-15: Has 12 readings on 7/5/89 (based on temp. log book)
TANK BOTTOM ELEV. (FT)	614.00	614.00		
WASTE LEVEL (FT)	9.9	9.9		Do not know TC elevations. Needs field verification.
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1		@		
2		@		
3		@		
4		@		
5		@		
6		@		
7		@		
8		@		
9		@		
10		@		
11		@		
12		@		
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	LOW H-2-93715	TREE J H-2-34304 See comment		TC tree assembly design similar to drawing H-2-34304 (field observation by WEW 9/17/92)
HIGH WASTE TEMP (°F) DATE READ		66° TC #1,#2 7/1/93		
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING		SEMIANNUALLY		
DATA ACQ. CODE/COND		MANUAL		
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37851 H-2-73283	H-2-37851 H-2-73283		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0913

THERMOCOUPLE STATUS
TANK 106-B

	RISER 4	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	652.69			Has only 12 readings (based on temp. log book)
TANK BOTTOM ELEV. (FT)	613.00			
WASTE LEVEL (FT)	4.2			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 1.52 *			
2	@ 3.52 *			
3	@ 5.52			
4	@ 7.52			
5	@ 9.52			
6	@ 11.52			
7	@ 13.52			
8	@ 15.52			
9	@ 17.52			
10	@ 19.52			
11	@ 21.52			
12	@ 23.52			
13	@ 27.52			
14	@ 31.52			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-36301 H-2-34304, ASSY 1			
HIGH WASTE TEMP (°F) DATE READ	62° TC #3 - #12 7/1/93 See comment			Based on Temp. log book: TC #1 & TC #2 are out of service.
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	SEMIANNUALLY			
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37851 H-2-73284			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 107-B

	RISER 3	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	654.67			Has 12 readings (based on temp. log book)
TANK BOTTOM ELEV. (FT)	615.00			
WASTE LEVEL (FT)	5.6			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@			Do not know TC elevations. Needs field verification
2	@			
3	@			
4	@			
5	@			
6	@			
7	@			
8	@			
9	@			
10	@			
11	@			
12	@			
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-34304 see comment			TC tree assembly design similar to drawing H-2-34304 (field observation by WEW 9/17/92)
HIGH WASTE TEMP (°F) DATE READ	62° TC #4 - #11 7/1/93			TC #1,2,3: Out of service since 7/5/89.
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker SST IS/II			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37851 H-2-73278			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
= Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0915

THERMOCOUPLE STATUS
TANK 108-B

	RISER 5	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	653.10			Has only 12 readings (based on temp. log book)
TANK BOTTOM ELEV. (FT)	614.00			
WASTE LEVEL (FT)	3.5			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 0.93 *			
2	@ 2.93 *			
3	@ 4.93			
4	@ 6.93			
5	@ 8.93			
6	@ 10.93			
7	@ 12.93			
8	@ 14.93			
9	@ 16.93			
10	@ 18.93			
11	@ 20.93			
12	@ 22.93			
13	@ 26.93			
14	@ 30.93			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-36301 H-2-34304, ASSY 1			
HIGH WASTE TEMP (°F) DATE READ	62° TC #1 7/1/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	SEMIANNUALLY			
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37851 H-2-73285			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 109-B

	RISER 1	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	652.54			R-1: Has only 12 readings (based on temp. log book)
TANK BOTTOM ELEV. (FT)	613.00			
WASTE LEVEL (FT)	4.5			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C NO. 1	@ 1.37 *			
2	@ 3.37 *			
3	@ 5.37 *			
4	@ 7.37			
5	@ 9.37			
6	@ 11.37			
7	@ 13.37			
8	@ 15.37			
9	@ 17.37			
10	@ 19.37			
11	@ 21.37			
12	@ 23.37			
13	@ 27.37			
14	@ 31.37			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-36301 H-2-34304, ASSY 1			
HIGH WASTE TEMP (°F) DATE READ	61° TC #1, #2 7/1/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	SEMIANNUALLY			
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37851 H-2-73286			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0917

THERMOCOUPLE STATUS
TANK 110-B

	RISER 8	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	654.16			Has 11 readings (based on temp. log book)
TANK BOTTOM ELEV. (FT)	615.00			
WASTE LEVEL (FT)	8.1			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C # 1	@			Do not know TC elevations. Needs field verification.
2	@			
3	@			
4	@			
5	@			
6	@			
7	@			
8	@			
9	@			
10	@			
11	@			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-34304 see comment			TC tree assembly design similar to drawing H-2-34304 (field observation by WEW 9/17/92)
HIGH WASTE TEMP (°F) DATE READ	68° TC #5 - #10 7/1/93 See comment			TC #1 - #4: Out of service since 1991 (Based on Temp. log book)
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	SEMIANNUALLY			
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37851 H-2-73279			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 111-B

	RISER 8	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	653.20			R-8: Has 12 readings (based on temp. log book)
TANK BOTTOM ELEV. (FT)	614.0			
WASTE LEVEL (FT)	7.8			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	a			Do not know TC elevations. Needs field verification.
2	a			
3	a			
4	a			
5	a			
6	a			
7	a			
8	a			
9	a			
10	a			
11	a			
12	a			
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-34304 see comment			TC tree assembly design similar to drawing H-2-34304 (field observation by WEW 9/17/92)
HIGH WASTE TEMP (°F) DATE READ	86° TC #4- #12 7/1/93 See comment			Based on Temp. log book, there is no temp. reading at TC #1 & TC #2 as of 7/1/93.
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	SEMIANNUALLY			
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37851 H-2-73287			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
= Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0919

THERMOCOUPLE STATUS
TANK 112-B

	RISER 1	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	652.65			Has only 12 readings (based on temp. log book)
TANK BOTTOM ELEV. (FT)	613.00			
WASTE LEVEL (FT)	1.6			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C NO. 1	@ 1.48 *			
2	@ 3.48			
3	@ 5.48			
4	@ 7.48			
5	@ 9.48			
6	@ 11.48			
7	@ 13.48			
8	@ 15.48			
9	@ 17.48			
10	@ 19.48			
11	@ 21.48			
12	@ 23.48			
13	@ 27.48			
14	@ 31.48			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-36301 H-2-34304, ASSY 1			
HIGH WASTE TEMP (°F) DATE READ	63° TC #1 7/1/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	SEMIANNUALLY			
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37851 H-2-73288			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 201-B

	RISER 1	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	651.94			R-1: Has 12 readings (based on temp. log book)
TANK BOTTOM ELEV. (FT)	?			
WASTE LEVEL (FT)	12.6			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@			Do not know TC elevations. Needs field verification.
2	@			
3	@			
4	@			
5	@			
6	@			
7	@			
8	@			
9	@			
10	@			
11	@			
12	@			
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-34304 see comment			TC tree assembly design similar to drawing H-2-34304 (field observation by WEW 9/17/92)
HIGH WASTE TEMP (°F) DATE READ	60° TC #1, #2 7/1/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	SEMIANNUALLY			
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-73275			
FIELD VERIFIED REQUIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0921

THERMOCOUPLE STATUS
TANK 202-B

	RISER 1	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	651.93			Has 12 readings, TC #12 out of service 1/1/92 (based on temp. log book).
TANK BOTTOM ELEV. (FT)	?			
WASTE LEVEL (FT)	11.7			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C NO. 1	@			Do not know TC elevations. Needs field verification.
2	@			
3	@			
4	@			
5	@			
6	@			
7	@			
8	@			
9	@			
10	@			
11	@			
12	@			
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-34304 see comment			TC tree assembly design similar to drawing H-2-34304 (field observation by WEW 9/17/92)
HIGH WASTE TEMP (°F) DATE READ	61° TC #1, #2 7/1/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	SEMIANNUALLY			
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK	LOW HEAT LOAD SST IS/II			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-73289			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 203-B

	RISER 1	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	651.94			Has 12 readings, TC #12 out of service 1/1/92 (based on temp. log book)
TANK BOTTOM ELEV. (FT)	?			
WASTE LEVEL (FT)	21.9			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@			Do not know TC elevations. Needs field verification.
2	@			
3	@			
4	@			
5	@			
6	@			
7	@			
8	@			
9	@			
10	@			
11	@			
12	@			
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-34304 see comment			TC tree assembly design similar to drawing H-2-34304 (field observation by WEW 9/17/92)
HIGH WASTE TEMP (°F) DATE READ	62° TC #1 - #3 7/1/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	SEMIANNUALLY			
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-73290			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 204-B

	RISER 1	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	651.95			Has 11 readings (based on temp. log book)
TANK BOTTOM ELEV. (FT)	?			
WASTE LEVEL (FT)	21.5			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@			Do not know TC elevations. Needs field verification.
2	@			
3	@			
4	@			
5	@			
6	@			
7	@			
8	@			
9	@			
10	@			
11	@			
12	?			
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-34304 see comment			TC tree assembly design similar to drawing H-2-34304 (field observation by WEW 9/17/92)
HIGH WASTE TEMP (°F) DATE READ	62° TC #1 - #3 7/1/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	SEMIANNUALLY			
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-73291			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0925

THERMOCOUPLE STATUS

BX-FARM

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THERMOCOUPLE STATUS
TANK 101-BX

	RISER 2	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	657.35			R-2: has 12 readings (based on temp. log book). However, field test data provided by CC Scaief on tests performed 2/2/93 produced 14 readings. Field test documentation also notes that Selector Switch is bad.
TANK BOTTOM ELEV. (FT)	616.00			
WASTE LEVEL (FT)	1.9			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	M @			
2	A @			Tank 241-BX: 101, 103, 104, 107, 109. TC elevations are not available. A drawing showing TC placement has not been identified as of 9/15/93.
3	F @			
4	A @			
5	A @			
6	A @			
7	A @			
8	A @			
9	F @			
10	F @			
11	F @			
12	A @			
13	F @			
14	F @			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-34304 see comment			TC tree assembly design similar to drawing H-2-34304 (field observation by WEW 9/17/92)
HIGH WASTE TEMP (°F) DATE READ	65° TC #1 8/5/93			
FIELD TEST TEMP (°F) DATE READ	69.5° TC #4 2/2/93			
FREQ. OF MONITORING	SEMIANNUAL			
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37852 H-2-73309			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0926

THERMOCOUPLE STATUS
TANK 102-BX

	RISER 1	RISER 8	RISER	COMMENTS
RISER ELEVATION (FT)	656.52	656.05		WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	615.00	615.00		R-1: Contains a single RTD on other 3- wire temperature measuring element (field verified by James Bussell)
WASTE LEVEL (FT)	3.4	3.4		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1		A @ 2.3 *		
2		A @ 4.3		
3		A @ 6.3		
4		A @ 8.3		
5		A @ 10.3		
6		A @ 12.3		
7		A @ 14.3		
8		A @ 16.3		
9		A @ 18.3		
10		A @ 22.3		
11		A @ 26.3		
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	SINGLE PROBE RTD H-2-41762	TREE J H-2-34304		
HIGH WASTE TEMP (°F) DATE READ		65° TC #1 8/26/93		
FIELD TEST TEMP (°F) DATE READ		64° TC #1 3/19/91		
FREQ. OF MONITORING		WEEKLY		
DATA ACQ. CODE/COND				
CATEGORY OF TANK	FeCN SST	FeCN SST		
TANK DWG #	H-2-73852 H-2-72743	H-2-37852 H-2-73310		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 103-BX

	RISER 1	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	655.50			R-1: 11 readings are available (based on field test info received from CC Scaief - field tests were performed on 2/2/93 by Wikstrand)
TANK BOTTOM ELEV. (FT)	614.00			
WASTE LEVEL (FT)	2.6			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	A @			Tank 241-BX: 101, 103, 104, 107, 109. TC elevations are not available. A drawing showing TC placement has not been identified as of 9/15/93.
2	A @			
3	A @			
4	A @			
5	A @			
6	A @			
7	A @			
8	A @			
9	A @			
10	A @			
11	A @			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-34304 see comment			- TC tree assembly design similar to drawing H-2-34304 (field observation by WEW 9/17/92. - Temp. readings, out of service 1/2/92 (Temp. Log Book)
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ	68.2° TC #1 2/2/93			
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37852 H-2-73314			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0928

THERMOCOUPLE STATUS
TANK 104-BX

	RISER 2	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	655.81			R-2: Has not been determined that Riser 2 has a TC tree in it. Did not see a TC tree when in-tank photos were inspected, but H-2-73315 indicates a temp. probe in this riser. Need to review in-tank photo. (Comment from Allen Alstad, cc:mail date 3/2/93)
TANK BOTTOM ELEV. (FT)	616.00			
WASTE LEVEL (FT)	*3.6			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C NO. 1				
2				
3				Tank 241-BX: 101, 103, 104, 107, 109. TC elevations are not available. A drawing showing TC placement has not been identified as of 9/20/93.
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TC H-2- ?			No Temp. readings, out of service 1/2/92 (Temp. log book)
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37852 H-2-73315			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 105-BX

	RISER 7	RISER 15	RISER	COMMENTS
RISER ELEVATION (FT)	656.04			R-7: Has 14 TCs in this tree, only 12 readings (based on temp. log book)
TANK BOTTOM ELEV. (FT)	615.00			
WASTE LEVEL (FT)	2.2			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	A @			
2	A @			
3	A @			
4	A @			
5	A @			
6	A @			
7	A @			
8	A @			
9	A @			
10	A @			
11	A @			
12	A @			
13	@			
14	@			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-35968 H-2-34304, ASSY 1			
HIGH WASTE TEMP (°F) DATE READ	63° TC #1, #2 7/31/93			
FIELD TEST TEMP (°F) DATE READ	67.1° TC #1 2/2/93			
FREQ. OF MONITORING				
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37852 H-2-73316			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0930

THERMOCOUPLE STATUS
TANK 106-BX

	RISER 1	RISER 7	RISER	COMMENTS
RISER ELEVATION (FT)	655.45	655.09		WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	614.00	614.00		R-1: New TC tree was installed on July 1993. The TC distances have not been checked (Information from Geoffrey Barnes on 9/27/93)
WASTE LEVEL (FT)	2.0	2.0		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	G @ 1.17 *	M @ 1.3 *		
2	G @ 1.58 *	F @ 3.3		
3	G @ 2.00 *	M @ 5.3		
4	G @ 2.42	M @ 7.3		
5	G @ 2.83	M @ 9.3		
6	G @ 16.00	M @ 11.3		
7		M @ 13.3		
8		M @ 15.3		
9		M @ 17.3		
10		M @ 19.3		
11		M @ 21.3		
12		M @ 23.3		
13		M @ 27.3		
14		A @ 31.3		
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE H-2-89458, SHT 3 H-2-83312	TREE J H-2-35968 H-2-34304, ASSY 1		
HIGH WASTE TEMP (°F) DATE READ		64° TC #1 8/26/93		
FIELD TEST TEMP (°F) DATE READ		63° TC #1 3/20/91		
FREQ. OF MONITORING		WEEKLY		
DATA ACQ. CODE/COND				
CATEGORY OF TANK	FeCN SST	FeCN SST		
TANK DWG #	H-2-37852 H-2-73317	H-2-37852 H-2-73317		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 107-BX

	RISER 4	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	657.43			R-4: has 14 readings available (based on field test info received from CC Scaief - field tests were performed on 2/3/93 by Wikstrand)
TANK BOTTOM ELEV. (FT)	616.00			
WASTE LEVEL (FT)	8.0			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	F @			Tank 241-BX: 101, 103, 104, 107, 109. TC elevations are not available. A drawing showing TC placement has not been identified as of 9/15/93.
2	A @			
3	F @			
4	F @			
5	F @			
6	F @			
7	A @			
8	A @			
9	A @			
10	A @			
11	A @			
12	A @			
13	A @			
14	A @			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2- ?			No Temp. readings, out of service 1/2/92 (Temp. log book). However, see comment above regarding R-4.
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ	67.1° TC# 2 2/3/93			
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/PI SST			IS: Interim Stabilized PI: Partially Interim Isolated
TANK DWG #	H-2-37852 H-2-73318			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0932

THERMOCOUPLE STATUS
TANK 108-BX

	RISER 5	RISER 8	RISER	COMMENTS
RISER ELEVATION (FT)	656.06	656.09		R-5: Tree contains 14 TCs but has only 12 readings based on temp. log book. However, based on field test info received from CC Scaief on 3/15/93 from tests performed 2/3/93 14 readings were available.
TANK BOTTOM ELEV. (FT)	615.00	615.00		
WASTE LEVEL (FT)	1.4	1.4 *		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	A @			
2	A @			Has not been determined that Riser 8 has a temperature probe in it. Need to review in-tank photos. (Comment from Allen Alstad, cc:mail date 3/2/93)
3	A @			
4	A @			
5	A @			
6	A @			
7	A @			
8	A @			
9	A @			
10	A @			
11	A @			
12	A @			
13	A @			
14	A @			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-36031 H-2-34304, ASSY 1	TEMPERATURE ? see comment		
HIGH WASTE TEMP (°F) DATE READ	62° TC #1 7/31/93			
FIELD TEST TEMP (°F) DATE READ	64.9° TC# 1 2/3/93			
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37852 H-2-73311	H-2-73311		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 109-BX

	RISER 3	RISER 5	RISER	COMMENTS
RISER ELEVATION (FT)	655.54	655.00		R-3: has 11 readings (based on field test info received from CC Scaief - field tests were performed on 2/3/93 by Wikstrand)
TANK BOTTOM ELEV. (FT)	614.00	614.00		
WASTE LEVEL (FT)	6.5	6.5		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	F @	F @		R-5: has 11 readings (based on field test info received from CC Scaief - field tests were performed on 2/8/93 by Wikstrand)
2	F @	M @		
3	F @	A @		
4	F @	A @		Tank 241-BX: 101, 103, 104, 107, 109. TC elevations are not available. A drawing showing TC placement has not been identified as of 9/15/93.
5	A @	A @		
6	A @	A @		
7	A @	A @		
8	A @	A @		
9	A @	A @		
10	A @	A @		
11	A @	A @		
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2- ?	TREE J H-2- ?		
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ	69° TC# 8 2/3/93	74.5° TC# 1 2/8/93		
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/PI SST			IS: Interim Stabilized PI: Partially Interim Isolated
TANK DWG #	H-2-37852 H-2-73319	H-2-37852 H-2-73319		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0934

THERMOCOUPLE STATUS
TANK 110-BX

	RISER 1	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	657.50			Removed from WATCH LIST TANK on July 9, 1993
TANK BOTTOM ELEV. (FT)	616.00			
WASTE LEVEL (FT)	6.7			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C NO. 1	A @ 1.3 *			
2	A @ 3.3 *			
3	A @ 5.3 *			
4	A @ 7.3			
5	A @ 9.3			
6	A @ 11.3			
7	A @ 13.3			
8	A @ 15.3			
9	A @ 17.3			
10	A @ 19.3			
11	A @ 21.3			
12	A @ 23.3			
13	A @ 27.3			
14	A @ 31.3			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-35968 H-2-34304, ASSY 1			
HIGH WASTE TEMP (°F) DATE READ	71° TC #1- #3 8/26/93			
FIELD TEST TEMP (°F) DATE READ	66° TC #1 3/20/91			
FREQ. OF MONITORING	WEEKLY			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	FeCN SST Assumed Leaker			
TANK DWG #	H-2-37852 H-2-73312			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 111-BX

	RISER 1	RISER 5	RISER	COMMENTS
RISER ELEVATION (FT)	656.56	656.08		Removed from the WATCH LIST TANK on July 9, 1993
TANK BOTTOM ELEV. (FT)	615.00	615.00		
WASTE LEVEL (FT)	7.6	7.6		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	A @ 1.2 *			
2	G @ 3.2 *			
3	G @ 5.2 *			
4	G @ 7.2 *			
5	G @ 9.2			
6	G @ 11.2			
7	G @ 13.2			
8	G @ 15.2			
9	G @ 17.2			
10	G @ 19.2			
11	G @ 21.2			
12	G @ 23.2			
13	G @ 27.2			
14	G @ 31.2			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-35968 H-2-34304, ASSY 1	LOW H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	66° TC #1 - #4 8/26/93			
FIELD TEST TEMP (°F) DATE READ	70° TC #1 3/25/91			
FREQ. OF MONITORING	WEEKLY			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	FeCN SST Assumed Leaker	FeCN SST Assumed Leaker		
TANK DWG #	H-2-37852 H-2-73313	H-2-37852 H-2-73313		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0936

THERMOCOUPLE STATUS
TANK 112-BX

	RISER 1	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	655.58			R-1: Tree contains 14 TCs. Has only 12 readings (temp. log book 4/14/91). However, based on field test info received from CC Scaief on 3/15/93 from tests performed 2/3/93 by Wikstrand, there are 14 readings.
TANK BOTTOM ELEV. (FT)	614.00			
WASTE LEVEL (FT)	5.6			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C NO. 1	A @			
2	A @			
3	A @			
4	A @			
5	A @			
6	A @			
7	A @			
8	A @			
9	A @			
10	A @			
11	A @			
12	A @			
13	A @			
14	A @			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-36301 H-2-34304, ASSY 1			
HIGH WASTE TEMP (°F) DATE READ	62° TC #1 7/31/93			
FIELD TEST TEMP (°F) DATE READ	68° TC# 1 2/8/93			
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/PI SST			IS: Interim Stabilized PI: Partially Interim Isolated
TANK DWG #	H-2-37852 H-2-73320			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0938

THERMOCOUPLE STATUS

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THERMOCOUPLE STATUS
TANK 101-BY

	RISER 1	RISER 9A	RISER 5	COMMENTS
RISER ELEVATION (FT)	649.88	650.88	650.98	Tank 101-BY is removed from the WATCH LIST TANK on July 9, 1993
TANK BOTTOM ELEV.(FT)	602.65	602.65	602.65	
WASTE LEVEL (FT)	12.04	12.04	12.04	R-5: New TC tree was installed on 7/19/93. The TC distances have not been checked (Information from Geoffrey Barnes 9/17/93)
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	G @ 0.5 *		G @ 0.02 *	
2	G @ 2.5 *		G @ 1.10 *	
3	G @ 4.5 *		G @ 2.77 *	
4	M @ 6.5 *		G @ 5.77 *	
5	G @ 8.5 *		G @ 8.77 *	
6	G @ 10.5 *		G @ 14.94	
7	G @ 12.5			
8	G @ 14.5			
9	G @ 16.5			
10	G @ 18.5			
11	G @ 20.5			
12	G @ 22.5			
13	G @ 26.5			
14	G @ 30.5			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-35968 H-2-34304, SHT 1	LOW K H-2-93715	TREE K H-2-81770	
HIGH WASTE TEMP (°F) DATE READ	74° TC #1, #2 8/26/93			
FIELD TEST TEMP (°F) DATE READ	74° TC #1 3/15/91	75° POS. #1 4/1/91		R-9A: Pos #1 is located 2.3 FT above tank center bottom.
FREQ. OF MONITORING	Weekly			
DATA ACQ. CODE/COND	TMACS			
CATEGORY OF TANK	FeCN SST	FeCN SST		
TANK DWG #	H-2-37853 H-2-73251	H-2-37853 H-2-73251		
FIELD VERIFY AND REPAIRED	YES	YES		

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0939

THERMOCOUPLE STATUS
TANK 102-BY

	RISER 1	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	648.94			No thermocouple in this tank
TANK BOTTOM ELEV. (FT)	601.65			
WASTE LEVEL (FT)	11.0			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	LOW K H-2-93715			
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	PI SST			PI: Partially Interim Isolated
TANK DWG #	H-2-1746 H-2-73244			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 103-BY

	RISER 1	RISER 4	RISER 10A	COMMENTS
RISER ELEVATION (FT)	647.83	648.40	648.35	WATCH LIST TANK
TANK BOTTOM ELEV.(FT)	600.65	600.65	600.65	R-4: new TC tree will be installed.
WASTE LEVEL (FT)	12.73	12.73	12.73	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	G @ 0.3 *			
2	G @ 2.3 *			
3	G @ 4.3 *			
4	G @ 6.3 *			
5	G @ 8.3 *			
6	G @ 10.3 *			
7	G @ 12.3 *			
8	G @ 14.3			
9	G @ 16.3			
10	G @ 18.3			
11	G @ 20.3			
12	G @ 22.3			
13	G @ 26.3			
14	G @ 30.3			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-35239 H-2-34304	TREE K H-2-83312 H-2-89458	LOW K H-2-93715	R-10A: reading are no longer taken in the LOW (information from Betty Hanlon 12/92).
HIGH WASTE TEMP (°F) DATE READ	81° TC #1-3 8/30/93			
FIELD TEST TEMP (°F) DATE READ	82° TC #1 3/26/91		80° POS. #2 4/2/91	R-10A: Pos #2 is located 3.8 FT above tank center bottom.
FREQ. OF MONITORING	WEEKLY		WEEKLY	
DATA ACQ. CODE/COND	TMACS			
CATEGORY OF TANK	FeCN SST	FeCN SST	FeCN SST	
TANK DWG #	H-2-37853 H-2-73246	H-2-1746 H-2-73246	H-2-37853 H-2-73246	
FIELD VERIFY AND REPAIRED	YES	YES		

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0944

THERMOCOUPLE STATUS
TANK 104-BY

	RISER 1 Tree 1	RISER 10C	RISER 10B Tree 2	COMMENTS
RISER ELEVATION (FT)	650.81	?	650.34	WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	602.65	602.65	602.65	
WASTE LEVEL (FT)	10.9	10.9	10.9	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	A @ 0.4 *		@ 1.28 *	
2	A @ 2.3 *		@ 3.28 *	
3	A @ 4.3 *		@ 5.28 *	
4	A @ 6.6 *		@ 8.28 *	
5	A @ 8.5 *		@ 11.28	
6	A @ 24.2		@ 25.28	
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-90340 H-2-90344 H-2-90342, ASSY. 4	LOW K H-2-93715	TREE K H-2-90342 H-2-89458, SHT 3	
HIGH WASTE TEMP (°F) DATE READ	128° TC #2 8/30/93		114° TC #1 8/30/93	
FIELD TEST TEMP (°F) DATE READ	132° TC #2 3/5/91	111 POS. #1-2 4/1/91		R-10C: Pos #1 is located 1.6 FT & Pos #2 is located 2.0 FT above tank center bottom.
FREQ. OF MONITORING	WEEKLY			
DATA ACQ. CODE/COND	TMACS	NO	TMACS	
CATEGORY OF TANK	FeCN SST	FeCN SST	FeCN SST	
TANK DWG #	H-2-37853 H-2-73252	H-2-37853 H-2-73252	H-2-37853 H-2-73252	
FIELD VERIFIED REPAIRED	YES	YES		

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 105-BY

	RISER 1 Tree 2	RISER 10C Tree 1	RISER 10B	COMMENTS
RISER ELEVATION (FT)	649.46	649.44	649.44	WATCH LIST TANK
TANK BOTTOM ELEV.(FT)	601.65	601.65	601.65	
WASTE LEVEL (FT)	15.2	15.2	15.2	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	G @ 0.3 *	G @ 0.9 *		
2	G @ 2.3 *	G @ 2.6 *		
3	G @ 4.3 *	G @ 4.7 *		
4	G @ 6.3 *	G @ 6.7 *		
5	G @ 8.3 *	G @ 8.7 *		
6	G @ 10.3 *	G @ 24.7		
7	G @ 12.3 *			
8	G @ 14.3 *			
9	G @ 16.3			
10	F @ 18.3			
11	F @ 20.3			
12	G @ 22.3			
13	G @ 26.3			
14	G @ 30.3			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-35239 H-2-34304, ASSY 1	TREE J H-2-90340 H-2-90342, ASSY 4 H-2-90344	LOW K H-2-93715	
HIGH WASTE TEMP (°F) DATE READ	120° TC #1 8/30/93	114° TC #1 8/30/93		
FIELD TEST TEMP (°F) DATE READ	120° TC #1 3/29/91	115° TC #1 8/29/91	107° Pos #2 4/1/91	R-10A: Pos #2 is located 2.6 FT above tank center bottom.
FREQ. OF MONITORING	Weekly	Weekly		
DATA ACQ. CODE/COND	TMACS	TMACS		
CATEGORY OF TANK	FeCN SST	FeCN SST	FeCN SST	
TANK DWG #	H-2-37853 H-2-73247	H-2-37853 H-2-73247	H-2-37853 H-2-73247	
FIELD VERIFIED REPAIRED	YES	YES		

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means TC in waste

2. Elevation relative to tank center bottom

9413276.0943

THERMOCOUPLE STATUS
TANK 106-BY

	RISER 1	RISER 4	RISER 10B	COMMENTS
RISER ELEVATION (FT)	648.51	648.1	648.33	WATCH LIST TANK
TANK BOTTOM ELEV.(FT)	600.65	600.65	600.65	R-4: new TC tree will be installed.
WASTE LEVEL (FT)	20.21	20.21	20.21	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	A @ 0.7 *			
2	A @ 2.7 *			
3	A @ 4.7 *			
4	A @ 6.7 *			
5	A @ 8.7 *			
6	A @ 24.7			
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-90340 H-2-90344 H-2-90342, ASSY. 4	TREE H-2-83312 H-2-89458, SHT. 3	LOW K H-2-93715	
HIGH WASTE TEMP (°F) DATE READ	129 ° TC #1 8/30/93			
FIELD TEST TEMP (°F) DATE READ	130° TC#1 8/29/91		113° Pos #3,4 8/6/91	R-10B: Pos #3 is located 4.9 FT & Pos #4 is located 6.9 FT above tank center bottom.
FREQ. OF MONITORING	WEEKLY			
DATA ACQ. CODE/COND	TMACS			
CATEGORY OF TANK	FeCN SST	FeCN SST	FeCN SST	
TANK DWG #	H-2-37853 H-2-73248	H-2-47853 H-2-73248	H-2-37853 H-2-73248	
FIELD VERIFIED REPAIRED	YES			

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 107-BY

	RISER 1	RISER 7	RISER	COMMENTS
RISER ELEVATION (FT)	649.85	649.94		WATCH LIST TANK
TANK BOTTOM ELEV.(FT)	602.65	602.65		
WASTE LEVEL (FT)	8.63	8.63		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	M @ 0.5 *			
2	F @ 2.5 *			
3	F @ 4.5 *			
4	M @ 6.5 *			
5	M @ 8.5 *			
6	F @ 10.5			
7	F @ 12.5			
8	F @ 14.5			
9	F @ 16.5			
10	F @ 18.5			
11	M @ 20.5			
12	F @ 22.5			
13	M @ 26.5			
14	M @ 30.5			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-34638 H-2-34304, ASSY 1	LOW K H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	95° TC #1 8/30/93			
FIELD TEST TEMP (°F) DATE READ	98° TC #1 3/26/91	97° POS. #2 4/3/91		R-7: Pos #2 is located 2.7 FT above tank center bottom.
FREQ. OF MONITORING	Weekly			
DATA ACQ. CODE/COND	TMACS			
CATEGORY OF TANK	FeCN SST	FeCN SST		
TANK DWG #	H-2-37853 H-2-73249	H-2-37853 H-2-73249		
FIELD VERIFIED REPAIRED	YES	YES		

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0945

THERMOCOUPLE STATUS
TANK 108-BY

	RISER 1	RISER 8	RISER	COMMENT
RISER ELEVATION (FT)	648.88	648.90		WATCH LIST TANK
TANK BOTTOM ELEV.(FT)	601.65	601.65		R-1: new TC tree will be installed.
WASTE LEVEL (FT)	7.5	7.5		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1		F @ 0.5 *		
2		M @ 2.5 *		
3		M @ 4.5 *		
4		A @ 6.5 *		
5		A @ 8.5		
6		F @ 10.5		
7		A @ 12.5		
8		A @ 14.5		
9		F @ 16.5		
10		A @ 18.5		
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE H-2-89458, SHT 3 H-2-83312	TREE J H-2-34304		
HIGH WASTE TEMP (°F) DATE READ		108° TC #1 8/30/93		
FIELD TEST TEMP (°F) DATE READ		103° TC #2 3/15/91		
FREQ. OF MONITORING		Weekly		
DATA ACQ. CODE/COND		TMACS		
CATEGORY OF TANK	FeCN SST	FeCN SST		
TANK DWG #	H-2-37853 H-2-73250	H-2-37853 H-2-73250		
FIELD VERIFIED REPAIRED		YES		

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 109-BY

	RISER 12B	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	648.02			No thermocouple in this tank
TANK BOTTOM ELEV. (FT)	600.65			
WASTE LEVEL (FT)	13.4			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	LOW H-2-93715			
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	PI SST			PI: Partially Interim Isolated
TANK DWG #	H-2-37853 H-2-73253			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0947

THERMOCOUPLE STATUS
TANK 110-BY

	RISER 1 Tree 1	RISER 3	RISER 8	COMMENTS
RISER ELEVATION (FT)	649.86	649.82	649.89	WATCH LIST TANK
TANK BOTTOM ELEV.(FT)	602.65	602.65	602.65	R-8: below grade, potential temperature probe; type unknown Can't seen in 83 & 84 photo. Hidden behind saltwell.
WASTE LEVEL (FT)	12.5	12.5	12.5	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	G @ 0.8 *			
2	G @ 2.8 *			
3	G @ 4.8 *			
4	G @ 6.8 *			
5	G @ 8.8 *			
6	G @ 24.8			
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE E H-2-90340 H-2-90344 H-2-90342, ASSY. 3	LOW H-2-93715	Temp. probe See comment	
HIGH WASTE TEMP (°F) DATE READ	117° TC #1 8/28/93			
FIELD TEST TEMP (°F) DATE READ	123° TC #1, #2 8/29/91	118° POS. #2 4/3/91		R-3: Pos #2 is located 2.6 FT above tank center bottom.
FREQ. OF MONITORING	Weekly			
DATA ACQ. CODE/COND	TMACS			
CATEGORY OF TANK	FeCN SST	FeCN SST	FeCN SST	
TANK DWG #	H-2-37853 H-2-73254	H-2-37853 H-2-73254	H-2-37853 H-2-73254	
FIELD VERIFIED REPAIRED	YES			

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 110-BY

	RISER 10A Tree 2			COMMENTS
RISER ELEVATION (FT)	651.17			WATCH LIST TANK
TANK BOTTOM ELEV.(FT)	602.65			
WASTE LEVEL (FT)	12.5			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 1.10 *			
2	@ 3.10 *			
3	@ 5.10 *			
4	@ 8.10 *			
5	@ 11.10 *			
6	@ 25.10			
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE K H-2-89458, SH. 3 H-2-90342			
HIGH WASTE TEMP (°F) DATE READ	105° TC #1 8/28/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	Weekly			
DATA ACQ. CODE/COND	TMACS			
CATEGORY OF TANK	FeCN SST			
TANK DWG #	H-2-37853 H-2-73254			
FIELD VERIFIED REPAIRED	YES			

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0949

THERMOCOUPLE STATUS
TANK 111-BY

	RISER 1 Tree 1	RISER 14 Tree 2	RISER	COMMENTS
RISER ELEVATION (FT)	649.83	650.31		WATCH LIST TANK
TANK BOTTOM ELEV.(FT)	601.65	601.65		New TC tree was installed in Riser 14 on March 31, 1993.
WASTE LEVEL (FT)	14.5	14.5		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1		G @ 4.12 *		
2		G @ 6.12 *		
3		G @ 9.12 *		
4		G @ 13.12 *		
5		G @ 17.12		
6		G @ 28.12		
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	LOW K ECN-146328L H-2-93715	TREE K H-2-89458, SHT 3 H-2-83312 ECN: 188158, 188494		
HIGH WASTE TEMP (°F) DATE READ	88° Pos #3 8/30/93	84° TC #1 8/30/93		R-1: Pos #3 is located 4.7 FT above tank center bottom.
FIELD TEST TEMP (°F) DATE READ	84° #3 4/3/91			
FREQ. OF MONITORING	Weekly			
DATA ACQ. CODE/COND	TMACS	TMACS		
CATEGORY OF TANK	FeCN SST	FeCN SST		
TANK DWG #	H-2-73255	H-2-73255		
FIELD VERIFIED REPAIRED	YES			

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 112-BY

	RISER 5 Tree 2	RISER 15 Tree 1	RISER 16	COMMENTS
RISER ELEVATION (FT)	?	649.14	649.14	WATCH LIST TANK
TANK BOTTOM ELEV.(FT)	600.65	600.65	600.65	New TC tree were installed in Riser 5 on March 31, 1993.
WASTE LEVEL (FT)	9.4	9.4	9.4	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	G @ 0.50 *			R-16: Temp. probe not movable, (See SD-RE-TI-053)
2	G @ 1.42 *			
3	G @ 3.50 *			
4	G @ 5.83 *			
5	G @ 8.83 *			
6	G @ 24.50		-	
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE K H-2-89458, Sh. 3 H-2-83312	LOW K ECN-146328L H-2-93715	TEMP. PROBE	
HIGH WASTE TEMP (°F) DATE READ	89° TC #1 8/30/93	83° TC #1 8/30/93		R-15: Pos #2 is located 1.8 FT above tank center bottom.
FIELD TEST TEMP (°F) DATE READ		79° POS #2 4/4/91		
FREQ. OF MONITORING		Weekly		
DATA ACQ. CODE/COND	TMACS	TMACS		
CATEGORY OF TANK		FeCN SST		
TANK DWG #	H-2-37853 H-2-73256	H-2-37853 H-2-73256	H-2-37853 H-2-73256	
FIELD VERIFIED REPAIRED		YES		

1. CONDITION CODE

G = Good

A = Acceptable
M = Marginal
= Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

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THERMOCOUPLE STATUS

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THERMOCOUPLE STATUS
TANK 101-C

	RISER 2	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	648.18			
TANK BOTTOM ELEV. (FT)	609.00			
WASTE LEVEL (FT)	3.3			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	A @ 1.33 *			Assume that the tip of thermocouple tree is located 1 Ft from the tank center bottom. TC #1 is located 4" from the tip of TC tree (based on H-2-34304), the elevation of TC #1 relative to tank center bottom is: 1 Ft + 0.33 Ft = 1.33 Ft
2	A @ 3.33 *			
3	A @ 5.33			
4	A @ 7.33			
5	A @ 9.33			
6	A @ 11.33			
7	A @ 13.33			
8	A @ 15.33			
9	A @ 17.33			
10	A @ 21.33			
11	A @ 25.33			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-34304			
HIGH WASTE TEMP (°F) DATE READ	88° TC #1 7/2/93			
FIELD TEST TEMP (°F) DATE READ	91.6° TC #1 1/28/93			
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37912 H-2-73340			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0953

THERMOCOUPLE STATUS
TANK 102-C

	RISER 1	RISER 7	RISER 8	COMMENTS
RISER ELEVATION (FT)	647.22	647.00		R-1: Unused temp. probe, blind flange or may be cut off per DFC-B-181-108.
TANK BOTTOM ELEV. (FT)	608.00	608.00		
WASTE LEVEL (FT)	13.6	13.6		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1		F @ 1.33 *		Assume that the tip of TC tree is located 1 Ft from the tank center bottom.
2		A @ 3.33 *		
3		A @ 5.33 *		According to Allen Alstad in a cc:mail dated 3/26/93, it is uncertain whether there is a LOW in riser 8. The object is unidentified.
4		F @ 7.33 *		
5		F @ 9.33 *		
6		A @ 11.33 *		
7		F @ 13.33 *		
8		A @ 15.33		
9		A @ 17.33		
10		A @ 21.33		
11		A @ 25.33		
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	PROBE	TREE J H-2-34304		
HIGH WASTE TEMP (°F) DATE READ		96° TC #1 11/5/92		Broken coupling, work order issued, last temp. reading 96 °F in Nov. 1992
FIELD TEST TEMP (°F) DATE READ		84.8° TC #2 1/28/93		
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	PI SST			PI: Partially Interim Isolated
TANK DWG #	H-2-37912 H-2-73342	H-2-37912 H-2-73342		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 103-C

	RISER 1	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	646.15			WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	607.00			
WASTE LEVEL (FT)	6.5			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	A @ 1.21 *			
2	A @ 3.17 *			
3	A @ 5.17 *			
4				
5				
6	A @ 16.0			
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE E H-2-90344 H-2-90342, ASSY.1 H-2-90340			
HIGH WASTE TEMP (°F) DATE READ	122° TC #1,2 8/26/93			
FIELD TEST TEMP (°F) DATE READ	122.6° TC #1 1/29/93			
FREQ. OF MONITORING	WEEKLY			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	ORGANIC SALTS SST			
TANK DWG #	H-2-37912 H-2-73343			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0955

THERMOCOUPLE STATUS
TANK 104-C

	RISER 7	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	648.50			
TANK BOTTOM ELEV. (FT)	609.00			
WASTE LEVEL (FT)	9.6			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	F @ 1.33 *			Assume that the tip of TC tree is located 1 Ft from the tank center bottom.
2	F @ 3.33 *			
3	F @ 5.33 *			
4	F @ 7.33 *			
5	F @ 9.33 *			
6	A @ 11.33			
7	F @ 13.33			
8	F @ 15.33			
9	A @ 17.33			
10	A @ 19.33			
11	A @ 21.33			
12	M @ 23.33			
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-34304			
HIGH WASTE TEMP (°F) DATE READ	78° TC #1 - #4 8/21/93			
FIELD TEST TEMP (°F) DATE READ	87° TC #6 1/27/93			
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37912 H-2-73344			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 105-C

	RISER 1	RISER		COMMENTS
RISER ELEVATION (FT)	647.22			
TANK BOTTOM ELEV.(FT)	608.00			
WASTE LEVEL (FT)	5.2			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	A @ 1.20 *			
2	A @ 3.16 *			
3	A @ 5.16			
4				
5				
6	A @ 15.99			
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE E H-2-90344 H-2-90342, ASSY.1 H-2-90340			
HIGH WASTE TEMP (°F) DATE READ	96° TC #1 8/26/93			
FIELD TEST TEMP (°F) DATE READ	89° TC #1 1/28/93			
FREQ. OF MONITORING	WEEKLY			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	HI HEAT LOAD SST			
TANK DWG #	H-2-37912 H-2-73345			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0957

THERMOCOUPLE STATUS
TANK 106-C

	RISER 8 Tree 1	RISER 14 Tree 2	RISER	COMMENTS
RISER ELEVATION (FT)	645.66	645.50		WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	607.00	607.00		
WASTE LEVEL (FT)	7.6	7.6		R-14: Assume that the TC #1 is located 6" (0.50 FT) from the tank center bottom.
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	M @ 1.22 *	A @ 0.50 *		
2	A @ 3.18 *	A @ 2.50 *		
3	A @ 5.18 *	A @ 4.50 *		
4	M @ 7.18 *	A @ 6.50 *		
5	A @ 9.18	A @ 8.50		
6	M @ 16.01	A @ 10.50		
7		A @ 12.50		
8		A @ 14.50		
9		A @ 16.50		
10		A @ 18.50		
11		A @ 20.50		
12		A @ 22.50		
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE E H-2-90344 H-2-90342, ASSY 2 H-2-90340	TREE J H-2-34304, Assy 1,2 & 5		TC tree in R-14 has 14 TCs, but only 12 TCs are hooked up to selector switch?
HIGH WASTE TEMP (°F) DATE READ	159° TC #1 8/26/93	137° TC# 1 8/26/93		
FIELD TEST TEMP (°F) DATE READ	154.6° TC #1 1/28/93	120° TC #1 3/8/93 see comment		Based on cc:mail from CP Schroeder to RS Popielarczyk... dated 3/10/93, Subject: C-106 Temperatures.
FREQ. OF MONITORING	WEEKLY	WEEKLY		
DATA ACQ. CODE/COND	MANUAL	MANUAL		
CATEGORY OF TANK	HI HEAT LOAD SST	HI HEAT LOAD SST		
TANK DWG #	H-2-37912 H-2-73346	H-2-37912 H-2-73346		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 107-C

	RISER 5	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	648.19			
TANK BOTTOM ELEV. (FT)	609.00			
WASTE LEVEL (FT)	10.8			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C NO. 1	A @ 1.21 *			
2	A @ 3.17 *			
3	A @ 5.17 *			
4	A @ 7.17 *			
5	A @ 9.17 *			
6	A @ 16.00			
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE E H-2-90344 H-2-90342, ASSY.2 H-2-90340			
HIGH WASTE TEMP (°F) DATE READ	123° TC #3 9/3/93			
FIELD TEST TEMP (°F) DATE READ	125.9° TC #3 1/27/93			
FREQ. OF MONITORING	WEEKLY			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	PI SST			PI: Partially Interim Isolated
TANK DWG #	H-2-37912 H-2-73347			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0959

THERMOCOUPLE STATUS
TANK 108-C

	RISER 5	RISER 1	RISER	COMMENTS
RISER ELEVATION (FT)	646.73	647.23		WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	608.00	608.00		R-1: New TC tree was installed on 7/26/93. TC distances have not been checked (Information from Geoff Barnes 9/17/93)
WASTE LEVEL (FT)	2.5	2.5		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	M @ 1.5 *	G @ 1.58 *		
2	A @ 3.5	G @ 2.00 *		
3	A @ 5.5	G @ 2.33 *		
4	F @ 7.5	G @ 2.67		
5	A @ 9.5	G @ 3.00		
6	F @ 11.5	G @ 10.67		
7	M @ 13.5			
8	M @ 15.5			
9	A @ 17.5			
10	A @ 21.5			
11	A @ 25.5			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-34304	TREE K H-2-89458 ECN: 193105		
HIGH WASTE TEMP (°F) DATE READ	75° TC #1 8/26/93			
FIELD TEST TEMP (°F) DATE READ	70° TC #1 3/27/91			
FREQ. OF MONITORING	WEEKLY			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	FeCN SST			
TANK DWG #	H-2-37912 H-2-72743,73348			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 109-C

	RISER 8 TREE 1	RISER 3 TREE 2	RISER	COMMENTS
RISER ELEVATION (FT)	648.68	646.17		WATCH LIST TANK
TANK BOTTOM ELEV.(FT)	607.00	607.00		
WASTE LEVEL (FT)	2.5	2.5		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	A @ 1.4 *	@ 1.54 *		
2	M @ 3.4	@ 2.00 *		
3	A @ 5.4	@ 2.50 *		
4	M @ 7.4	@ 3.00		
5	M @ 9.4	@ 3.50		
6	M @ 11.4	@ 7.08		
7	M @ 13.4	@ 9.16		
8	M @ 15.4	@ 11.24		
9	M @ 17.4	@ 13.32		
10	M @ 21.4	@ 15.40		
11	M @ 25.4			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-34304	TREE K H-2-99138 ECN: 147489 H-2-89458, SHT.3		
HIGH WASTE TEMP (°F) DATE READ	78° TC #1 8/26/93	80° TC #1, #2 8/26/93		
FIELD TEST TEMP (°F) DATE READ	73° TC #1 3/27/91			
FREQ. OF MONITORING	WEEKLY	WEEKLY		
DATA ACQ. CODE/COND				
CATEGORY OF TANK	FeCN SST	FeCN SST		
TANK DWG	H-2-37912 H-2-72743	H-2-37912 H-2-73349		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0961

THERMOCOUPLE STATUS
TANK 110-C

	RISER 8	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	647.70			
TANK BOTTOM ELEV. (FT)	610.00			
WASTE LEVEL (FT)	6.7			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	F @ 1.33 *			Assume that the tip of TC tree is located 1 Ft from the tank center bottom.
2	F @ 3.33 *			
3	F @ 5.33 *			
4	F @ 7.33			
5	A @ 9.33			
6	A @ 11.33			
7	A @ 13.33			
8	A @ 15.33			
9	A @ 17.33			
10	A @ 21.33			
11	A @ 25.33			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-34304			
HIGH WASTE TEMP (°F) DATE READ	65° TC #5 -#11 7/2/93 See comment			TC #1 through #4: out of service
FIELD TEST TEMP (°F) DATE READ	67.5° TC #5 1/27/93			
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker PI SST			PI: Partially Interim Isolated
TANK DWG #	H-2-37912 H-2-73350			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 111-C

	RISER 4	RISER 5	RISER	COMMENTS
RISER ELEVATION (FT)	647.19	646.74		WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	608.00	608.00		
WASTE LEVEL (FT)	2.4	2.4		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1		F @ 2.4 *		R-4: TC probe cut off, blind flange
2		A @ 4.4		
3		F @ 6.4		
4		A @ 8.4		
5		A @ 10.4		
6		A @ 12.4		
7		A @ 14.4		
8		A @ 16.4		
9		F @ 18.4		
10		F @ 22.4		
11		F @ 26.4		
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TC probe See comment above	TREE J H-2-34304		
HIGH WASTE TEMP (°F) DATE READ		75° TC #1 8/26/93		
FIELD TEST TEMP (°F) DATE READ		70° TC #10 3/29/91		
FREQ. OF MONITORING		WEEKLY		
DATA ACQ. CODE/COND				
CATEGORY OF TANK	FeCN SST	FeCN SST		
TANK DWG #	H-2-37912 H-2-72743	H-2-37912 H-2-73341		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 112-C

	RISER 1 TREE 1	RISER 8 TREE 2	RISER	COMMENTS
RISER ELEVATION (FT)	645.14	645.67		WATCH LIST TANK
TANK BOTTOM ELEV.(FT)	607.00	607.00		
WASTE LEVEL (FT)	3.8	3.8		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	A @ 1.7 *	@ 1.54 *		
2	F @ 3.7 *	@ 2.33 *		
3	A @ 5.7	@ 3.16 *		
4	A @ 7.7	@ 3.99		
5	A @ 9.7	@ 4.82		
6	A @ 11.7	@ 7.32		
7	A @ 13.7	@ 9.40		
8	A @ 15.7	@ 11.48		
9	A @ 17.7	@ 13.56		
10	A @ 21.7	@ 15.64		
11	A @ 25.7			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-34304	PROBE K H-2-89458, SHT 3 H-2-99138, PT #1-007 ECN: 147489		
HIGH WASTE TEMP (°F) DATE READ	81° TC #1 8/26/93	81° TC #1- #3 8/26/93		
FIELD TEST TEMP (°F) DATE READ	80° TC #1 3/29/91			
FREQ. OF MONITORING	Weekly			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	FeCN SST			
TANK DWG #	H-2-37912 H-2-72743 , 73351			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 201-C

	RISER 6	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	646.60			
TANK BOTTOM ELEV. (FT)	607.5			
WASTE LEVEL (FT)	1.1			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	A @ 1.33			Assume that the tip of TC tree is located 1 Ft from the tank center bottom.
2	A @ 3.33			
3	A @ 5.33			
4	M @ 7.33			
5	A @ 9.33			
6	A @ 11.33			
7	A @ 13.33			
8	A @ 15.33			
9	A @ 17.33			
10	A @ 21.33			
11	A @ 25.33			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-34304			
HIGH WASTE TEMP (°F) DATE READ	62° TC #1 7/2/93			
FIELD TEST TEMP (°F) DATE READ	62.7° TC #1 1/28/93			
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-73352			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0965

THERMOCOUPLE STATUS
TANK 202-C

	RISER 6	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	646.49			
TANK BOTTOM ELEV. (FT)	607.5			
WASTE LEVEL (FT)	0.7			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	A @ 1.33			Assume that the tip of TC tree is located 1 Ft from the tank center bottom.
2	A @ 3.33			
3	M @ 5.33			
4	A @ 7.33			
5	A @ 9.33			
6	A @ 11.33			
7	A @ 13.33			
8	A @ 15.33			
9	A @ 17.33			
10	A @ 21.33			
11	A @ 25.33			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-34304			
HIGH WASTE TEMP (°F) DATE READ	61° TC #1 7/2/93			
FIELD TEST TEMP (°F) DATE READ	61.1° TC #1 1/28/93			
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-73353			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 203-C

	RISER 6	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	646.62			
TANK BOTTOM ELEV. (FT)	607.5			
WASTE LEVEL (FT)	2.3			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	A @ 1.33 *			Assume that the tip of TC tree is located 1 Ft from the tank center bottom.
2	A @ 3.33			
3	A @ 5.33			
4	A @ 7.33			
5	A @ 9.33			
6	A @ 11.33			
7	A @ 13.33			
8	A @ 15.33			
9	A @ 17.33			
10	A @ 21.33			
11	A @ 25.33			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-34304			
HIGH WASTE TEMP (°F) DATE READ	60° TC #1 7/2/93			
FIELD TEST TEMP (°F) DATE READ	61.3° TC #10 1/28/93			
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-73354			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0967

THERMOCOUPLE STATUS
TANK 204-C

	RISER	RISER	RISER	COMMENTS
RISER ELEVATION (FT)				According to Allen Alstad in a cc:mail dated 3/26/93, it is uncertain whether there is a TC tree in this tank. Visual inspection of in-tank photos did not reveal anything you could recognize even though drawing H-2-73355 indicates something relating to temperature. No doubt anything there is no longer usable.
TANK BOTTOM ELEV. (FT)	607.5			
WASTE LEVEL (FT)	1.5			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)				
HIGH WASTE TEMP (°F) DATE READ	NO RECORDS SACS			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-73355			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0969

THERMOCOUPLE STATUS

S-FARM

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THERMOCOUPLE STATUS
TANK 101-S

	RISER 2	RISER 14	RISER	COMMENTS
RISER ELEVATION (FT)	665.94	665.95		
TANK BOTTOM ELEV. (FT)	620.43	620.43		
WASTE LEVEL (FT)	13.6	13.6		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1		@ 0.48 *		TC tree in Riser 14 has split flange (field verification is needed to determine the length of split flange). Note that the elevation of TC #1 0.48 Ft from tank bottom center was calculated without taking into account the split flange.
2		@ 2.44 *		
3		@ 4.44 *		
4		@ 6.44 *		
5		@ 8.44 *		
6		@ 24.44		
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	LOW H-2-93715	TREE J H-2-90344 H-2-90342, ASSY 3 H-2-90340		
HIGH WASTE TEMP (°F) DATE READ		115° TC #2 7/2/93		
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING		Semiannually		
DATA ACQ. CODE/COND				
CATEGORY OF TANK		Partially Isolated Interim SST		
TANK DWG #	H-2-37381, SHT 1 H-2-73181	H-2-37381, SHT 1 H-2-73181		
FI[illegible] [illegible]RIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
= Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0970

THERMOCOUPLE STATUS
TANK 102-S

	RISER 3	RISER 5	RISER	COMMENTS
RISER ELEVATION (FT)	665.10	665.05		WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	619.43	619.43		
WASTE LEVEL (FT)	17.3	17.3		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 0.48 *			
2	@ 2.44 *			
3	@ 4.44 *			
4	@ 6.44 *			
5	@ 8.44 *			
6	@ 24.44			
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-90344 H-2-90342, ASSY 4 H-2-90340	LOW H-2-93515		
HIGH WASTE TEMP (°F) DATE READ	109° TC #3 8/27/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Potential Hydrogen, Organic Salt Flammable gas SST			
TANK DWG #	H-2-37381, SHT 1 H-2-73182	H-2-37381, SHT 1 H-2-73182		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 103-S

	RISER 2	RISER 4	RISER	COMMENTS
RISER ELEVATION (FT)	664.09	664.14		
TANK BOTTOM ELEV. (FT)	618.43	618.43		
WASTE LEVEL (FT)	8.1	8.1		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C NO. 1		@ 0.43 *		
2		@ 2.39 *		
3		@ 4.39 *		
4		@ 6.39 *		
5		@ 8.39		
6		@ 24.39		
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	LOW H-2-93175	TREE J H-2-90344 H-2-90342, ASSY 4 H-2-90340		
HIGH WASTE TEMP (°F) DATE READ		85° TC #2 7/2/93		
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING		Semiannually		
DATA ACQ. CODE/COND		MANUAL		
CATEGORY OF TANK		Partially Isolated Interim SST		
TANK DWG #	H-2-37381, SHT 1 H-2-73183	H-2-37381, SHT 1 H-2-73183		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
= Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0972

THERMOCOUPLE STATUS
TANK 104-S

	RISER 4	RISER 1	RISER	COMMENTS
RISER ELEVATION (FT)	665.99			"H-2-34304" is welded on the cover plate and the back of the terminal box. The outside of the terminal box is used and pitted. The TC tree is located about 10' from the center of the tank. 12 to 16 thermocouples in this tree and are selected by a tc selector switch (information from James Bussell, Observation Made During Walk-Though of S-Farm).
TANK BOTTOM ELEV. (FT)	620.43			
WASTE LEVEL (FT)	9.5			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				According to Allen Alstad in a cc:mail dated 3/26/93, although drawing H-2-73180 indicates a temp. probe in Riser 1, this info will take more time to verify. However, see comment below: Temp. probe in Riser 1: cut off (Field verified by Larry Kiewert 9/1/93
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-34304	Temp. tree See comment		Tree style : H-2-34304 (Field observation by J. Bussell)
HIGH WASTE TEMP (°F) DATE READ	104° TC #3 7/2/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37381, SHT 1 H-2-73180			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 105-S

	RISER 4	RISER 14	RISER	COMMENTS
RISER ELEVATION (FT)	665.16	664.68		
TANK BOTTOM ELEV. (FT)	619.43	619.43		
WASTE LEVEL (FT)	14.4	14.4		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 0.56 *			
2	@ 2.56 *			
3	@ 4.56 *			
4	@ 6.56 *			
5	@ 8.56 *			
6	@ 10.56 *			
7	@ 12.56 *			
8	@ 14.56			
9	@ 16.56			
10	@ 18.56			
11	@ 20.56			
12	@ 22.56			
13	@ 26.56			
14	@ 30.56			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-46175 H-2-34304, ASSY 1	LOW H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	73° TC #1 7/2/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND	CASS			
CATEGORY OF TANK	IS/II (see comment) SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37381, SHT 1 H-2-73184	H-2-37381, SHT 1 H-2-73184		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0974

THERMOCOUPLE STATUS
TANK 106-S

	RISER 2	RISER 4	RISER	COMMENTS
RISER ELEVATION (FT)	664.06	664.08		
TANK BOTTOM ELEV. (FT)	618.43	618.43		
WASTE LEVEL (FT)	17.1	17.1		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 0.46 *			
2	@ 2.46 *			
3	@ 4.46 *			
4	@ 6.46 *			
5	@ 8.46 *			
6	@ 10.46 *			
7	@ 12.46 *			
8	@ 14.46 *			
9	@ 16.46 *			
10	@ 18.46			
11	@ 20.46			
12	@ 22.46			
13	@ 26.46			
14	@ 30.46			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-46175 H-2-34304, ASSY 1	LOW H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	81° TC #2, #4 2/13/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND	CASS			
CATEGORY OF TANK	Partially Interim Isolated, SST			
TANK DWG #	H-2-37381, SHT 1 H-2-73185	H-2-37381, SHT 1 H-2-73185		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 107-S

	RISER 4	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	666.04			
TANK BOTTOM ELEV. (FT)	620.43			
WASTE LEVEL (FT)	11.8			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C NO. 1	@ 0.48 *			
2	@ 2.44 *			
3	@ 4.44 *			
4	@ 6.44 *			
5	@ 8.44 *			
6	@ 24.44			
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-90344 H-2-90342, ASSY 4 H-2-90340			
HIGH WASTE TEMP (°F) DATE READ	107° TC #1 7/2/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK	Partially Interim Isolated SST			
TANK DWG #	H-2-37381, SHT 1 H-2-73186			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
= Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 108-S

	RISER 4	RISER 16	RISER	COMMENTS
RISER ELEVATION (FT)	665.05	665.09		
TANK BOTTOM ELEV. (FT)	619.43	619.43		
WASTE LEVEL (FT)	18.9	18.9		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 0.45 *			
2	@ 2.45 *			
3	@ 4.45 *			
4	@ 6.45 *			
5	@ 8.45 *			
6	@ 10.45 *			
7	@ 12.45 *			
8	@ 14.45 *			
9	@ 16.45 *			
10	@ 18.45 *			
11	@ 20.45			
12	@ 22.45			
13	@ 26.45			
14	@ 30.45			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-46175 H-2-34304, ASSY 1	LOW H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	86° TC #4 7/2/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND	CASS			
CATEGORY OF TANK	Partially Interim Isolated SST			
TANK DWG #	H-2-37381, SHT 1 H-2-73187	H-2-37381, SHT 1 H-2-73187		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0977

THERMOCOUPLE STATUS
TANK 109-S

	RISER 4	RISER 8	RISER	COMMENTS
RISER ELEVATION (FT)	664.09	644.05		
TANK BOTTOM ELEV. (FT)	618.43	618.43		
WASTE LEVEL (FT)	[illegible]	17.8		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 0.49 *			
2	@ 2.49 *			
3	@ 4.49 *			
4	@ 6.49 *			
5	@ 8.49 *			
6	@ 10.49 *			
7	@ 12.49 *			
8	@ 14.49 *			
9	@ 16.49 *			
10	@ 18.49			
11	@ 20.49			
12	@ 22.49			
13	@ 26.49			
14	@ 30.49			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-46175 H-2-34304, ASSY 1	LOW H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	83° TC #1 2/13/93			TC #2-6, #8-10 : out of service Inf. from Temp. log book 7/2/93
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND	CASS			
CATEGORY OF TANK	Partially Interim Isolated SST			
TANK DWG #	H-2-37381, SHT 1 H-2-73188	H-2-37381, SHT 1 H-2-73188		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0978

THERMOCOUPLE STATUS
TANK 110-S

	RISER 2	RISER 4	RISER	COMMENTS
RISER ELEVATION (FT)	666.35	666.36		
TANK BOTTOM ELEV. (FT)	620.43	620.43		
WASTE LEVEL (FT)	21.6	21.6		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1		@ 0.47 *		
2		@ 2.43 *		
3		@ 4.43 *		
4		@ 6.43 *		
5		@ 8.43 *		
6		@ 24.43		
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	LOW H-2-93715	TREE J H-2-90344 H-2-90342, ASSY 4 H-2-90340		
HIGH WASTE TEMP (°F) DATE READ		116° TC #1,2 7/2/93		
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING		Semiannually		
DATA ACQ. CODE/COND		MANUAL		
CATEGORY OF TANK		Partially Interim Isolated SST		
TANK DWG #	H-2-37381, SHT 1 H-2-73189	H-2-37381, SHT 1 H-2-73189		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 111-S

	RISER 4	RISER 16	RISER	COMMENTS
RISER ELEVATION (FT)	665.10	665.11		WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	619.43	619.43		
WASTE LEVEL (FT)	18.7	18.7		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 0.50 *			
2	@ 2.50 *			
3	@ 4.50 *			
4	@ 6.50 *			
5	@ 8.50 *			
6	@ 10.50 *			
7	@ 12.50 *			
8	@ 14.50 *			
9	@ 16.50 *			
10	@ 18.50 *			
11	@ 20.50			
12	@ 22.50			
13	@ 26.50			
14	@ 30.50			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-46175 H-2-34304, ASSY 1	LOW H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	92° TC # 1,2,3 8/27/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	WEEKLY			
DATA ACQ. CODE/COND	CASS			
CATEGORY OF TANK	HYDROGEN SST	HYDROGEN SST		Potential Flammable Gases (Hydrogen)(WHC-EP-0416)
TANK DWG #	H-2-37381, SHT 1 H-2-73190	H-2-37381, SHT 1 H-2-73190		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0980

THERMOCOUPLE STATUS
TANK 112-S

	RISER 4	RISER 8	RISER	COMMENTS
RISER ELEVATION (FT)	663.89	663.90		WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	618.43	618.43		
WASTE LEVEL (FT)	19.9	19.9		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No.				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-46175 H-2-34304, ASSY 1	LOW H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	84° TC #4 8/27/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	WEEKLY			
DATA ACQ. CODE/COND	CASS			
CATEGORY OF TANK	HYDROGEN SST	HYDROGEN SST		Potential Flammable Gases (Hydrogen)(WHC-EP-0416)
TANK DWG #	H-2-37381, SHT 1 H-2-73191	H-2-37381, SHT 1 H-2-73191		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0982

THERMOCOUPLE STATUS

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SX-FARM

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THERMOCOUPLE STATUS
TANK 101-SX

	RISER 2	RISER 10	RISER 14	COMMENTS
RISER ELEVATION (FT)	663.48	?	663.95	WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	611.11	611.11	611.11	
WASTE LEVEL (FT)	14.3	14.3	14.3	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C NO. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	THERMOCOUPLE H-2-46175 H-2-46176, SHT 2	THERMOCOUPLE H-2-46175 H-2-46176, SHT 2	LOW H-2-93715	R-2 & R-10: TC cut off, riser seal with blind flange per DET 1, H-2-73450
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	HYDROGEN SST	HYDROGEN SST	HYDROGEN SST	
TANK DWG #	H-2-37855 H-2-73218	H-2-37855 H-2-73218	H-2-37855 H-2-73218	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
= Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0983

THERMOCOUPLE STATUS
TANK 101-SX

	RISER 15	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	664.63			WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	611.11			
WASTE LEVEL (FT)	14.3			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 1.71 *			TC tree in Riser 15 has small spool piece. Spool piece is 2¾" measured from the faces of the flanges.
2	@ 3.67 *			
3	@ 5.67 *			
4	@ 7.67 *			
5	@ 9.67 *			
6	@ 31.92			
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-90344 H-2-90342, ASSY 5			
HIGH WASTE TEMP (°F) DATE READ	140° TC #1 8/27/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	WEEKLY			
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK	HYDROGEN SST			
TANK DWG #	H-2-37855 H-2-73218			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 102-SX

	RISER 14	RISER 16	RISER	COMMENTS
RISER ELEVATION (FT)	663.14	663.34		WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	610.11	610.11		
WASTE LEVEL (FT)	16.9	16.9		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1		@ 1.49 *		TC tree in Riser 16 has a small spool piece. Spool piece is 2¾" measured from the faces of the flanges.
2		@ 3.45 *		
3		@ 5.45 *		
4		@ 7.45 *		
5		@ 9.45 *		
6		@ 31.45		
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	LOW H-2-93715	TREE J H-2-90344 H-2-90342, ASSY 5		
HIGH WASTE TEMP (°F) DATE READ		155° TC #1 8/27/93		
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING		WEEKLY		
DATA ACQ. CODE/COND		MANUAL		
CATEGORY OF TANK	HYDROGEN SST	HYDROGEN SST		
TANK DWG #	H-2-37855 H-2-73219	H-2-37855 H-2-73219		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0985

THERMOCOUPLE STATUS
TANK 103-SX

	RISER 2	RISER 14	RISER	COMMENTS
RISER ELEVATION (FT)	661.44	662.25		WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	609.11	609.11		
WASTE LEVEL (FT)	20.2	20.2		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 0.34 *			
2	@ 2.30 *			
3	@ 4.30 *			
4	@ 6.30 *			
5	@ 8.30 *			
6	@ 30.55			
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-90344 H-2-90342, ASSY 6	LOW H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	179° TC #2 8/27/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	WEEKLY			
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK	HYDROGEN SST	HYDROGEN SST		
TANK DWG #	H-2-37855 H-2-73220	H-2-37855 H-2-73220		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 104-SX

	RISER 2	RISER 16	RISER	COMMENTS
RISER ELEVATION (FT)	663.46	663.65		WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	611.11	611.11		
WASTE LEVEL (FT)	19.0	19.0		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 0.34 *			
2	@ 2.30 *			
3	@ 4.30 *			
4	@ 6.30 *			
5	@ 8.30 *			
6	@ 30.55			
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-90344 H-2-90342, ASS #6	LOW H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	172° TC #1 8/27/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	WEEKLY			
DATA ACQ. CODE/COND	MANUAL/REMOTE			
CATEGORY OF TANK	HYDROGEN SST	HYDROGEN SST		
TANK DWG #	H-2-37855 H-2-73221	H-2-37855 H-2-73221		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0987

THERMOCOUPLE STATUS
TANK 105-SX

	RISER 2	RISER 12	RISER 15	COMMENTS
RISER ELEVATION (FT)	662.50	663.28	664.45	WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	610.11	610.11	610.11	
WASTE LEVEL (FT)	21.1	21.1	21.1	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ TBD			TC tree in Riser 2 contains 6 TCs.
2	@			
3	@			
4	@			
5	@			
6	@			
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-90344 H-2-90342, ASS #6	THERMOCOUPLE H-2-46175 H-2-34304	THERMOCOUPLE H-2-46175 H-2-34304	R-12 & R-15: TCs Cut Off & Blind Flange (Proj. B-222, Inspection Report 2/25/85)
HIGH WASTE TEMP (°F) DATE READ	184° TC #1 8/27/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	WEEKLY			
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK	HYDROGEN SST	HYDROGEN SST		
TANK DWG #	H-2-37855 H-2-73222	H-2-37855 H-2-73222		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 105-SX

	RISER 16	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	663.10			WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	610.11			
WASTE LEVEL (FT)	21.1			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	LOW H-2-93715			
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	HYDROGEN SST			
TANK DWG #	H-2-37855 H-2-73222			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0989

THERMOCOUPLE STATUS
TANK 106-SX

	RISER 2	RISER 14	RISER 16	COMMENTS
RISER ELEVATION (FT)	661.46	662.07	661.86	WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	609.11	609.11	609.11	
WASTE LEVEL (FT)	16.7	16.7	16.7	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1			@ TBD	TC tree in Riser 16 contains 6 TCs. Each TC has a TC jack.
2			@	
3			@	
4			@	
5			@	
6			@	
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	THERMOCOUPLE H-2-46175 H-2-34304, ASSY 1	LOW H-2-93715	TREE K H-2-90342, ASSY 2 H-2-95505-1	R-2: TC Cut Off & Blind Flange (Project B-222 Inspection Report 2/25/85)
HIGH WASTE TEMP (°F) DATE READ			110° TC #1 8/27/93	
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING			WEEKLY	
DATA ACQ. CODE/COND			?	
CATEGORY OF TANK	HYDROGEN/ORGANIC SALTS SST	HYDROGEN/ORGANIC SALTS SST	HYDROGEN/ORGANIC SALTS SST	
TANK DWG #	H-2-37855 H-2-73223	H-2-37855 H-2-73223	H-2-37855 H-2-73223	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 107-SX

	RISER 9 TREE #5	RISER 10 TREE #2	RISER 11 TREE #3	COMMENTS
RISER ELEVATION (FT)	664.75	644.70	664.54	
TANK BOTTOM ELEV. (FT)	611.11	611.11	611.11	
WASTE LEVEL (FT)	3.6	3.6	3.6	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 0.50 *	@ 0.50 *	@ 0.50 *	General note 2 on H-2-45995 indicates that the tip of TC tree is set 2" from bottom of tank. This doesn't say 2" from local bottom or center bottom of tank. Assume that the tip of the TC tree is located 2" from bottom center of tank. TC #1 is located 4" above the tip of TC tree as shown on H-2-45995. The elevation of TC #1 relative to tank center bottom is: 2" + 4" = 6" or 0.50 Ft
2	@ 1.17*	@ 1.17 *	@ 1.17 *	
3	@ 1.92 *	@ 1.92 *	@ 1.92*	
4	@ 2.58 *	@ 2.58 *	@ 2.58 *	
5	@ 3.33 *	@ 3.33 *	@ 3.33 *	
6	@ 4.00	@ 4.00	@ 4.00	
7	@ 4.67	@ 4.67	@ 4.67	
8	@ 5.33	@ 5.33	@ 5.33	
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-45992 H-2-45995	TREE J H-2-45992 H-2-45995	TREE J H-2-45992 H-2-45995	
HIGH WASTE TEMP (°F) DATE READ		161° TC #1 8/5/93		
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING		MONTHLY		
DATA ACQ. CODE/COND	CASS	CASS	CASS	
CATEGORY OF TANK	HIGH HEAT LOAD SST			
TANK DWG #	H-2-37855 H-2-73210	H-2-37855 H-2-73210	H-2-37855 H-2-73210	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 107-SX

	RISER 12 TREE #4	RISER 14 TREE #8	RISER 15 TREE #1	COMMENTS
RISER ELEVATION (FT)	664.63	664.41	664.84	
TANK BOTTOM ELEV. (FT)	611.11	611.11	611.11	
WASTE LEVEL (FT)	3.6	3.6	3.6	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 0.50 *	@ 0.50 *	@ 0.50 *	
2	@ 1.17 *	@ 1.17 *	@ 1.17 *	
3	@ 1.92 *	@ 1.92 *	@ 1.92 *	
4	@ 2.58 *	@ 2.58 *	@ 2.58 *	
5	@ 3.33 *	@ 3.33 *	@ 3.33 *	
6	@ 4.00	@ 4.00	@ 4.00	
7	@ 4.67	@ 4.67	@ 4.67	
8	@ 5.33	@ 5.33	@ 5.33	
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-45992 H-2-45995	TREE J H-2-45992 H-2-45995	TREE J H-2-45992 H-2-45995	
HIGH WASTE TEMP (°F) DATE READ		162° TC #1 8/5/93		
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING		MONTHLY		
DATA ACQ. CODE/COND	CASS	CASS	CASS	
CATEGORY OF TANK	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	
TANK DWG #	H-2-37855 H-2-73210	H-2-37855 H-2-73210	H-2-37855 H-2-73210	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 107-SX

	RISER 18 TREE #6	RISER 19 TREE #7	RISER	COMMENTS
RISER ELEVATION (FT)	664.82	664.68		
TANK BOTTOM ELEV. (FT)	611.11	611.11		
WASTE LEVEL (FT)	3.6	3.6		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 0.50 *	@ 0.50 *		
2	@ 1.17 *	@ 1.17 *		
3	@ 1.292*	@ 1.92 *		
4	@ 2.58 *	@ 2.58 *		
5	@ 3.33 *	@ 3.33 *		
6	@ 4.00	@ 4.00		
7	@ 4.67	@ 4.67		
8	@ 5.33	@ 5.33		
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-45992 H-2-45995	TREE J H-2-45992 H-2-45995		
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	MONTHLY			
DATA ACQ. CODE/COND	CASS	CASS		
CATEGORY OF TANK	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST		
TANK DWG #	H-2-37855 H-2-73210	H-2-37855 H-2-73210		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 108-SX

	RISER 9 TREE # 1	RISER 10 TREE #2	RISER 11 TREE #3	COMMENTS
RISER ELEVATION (FT)	663.47	663.46	663.48	Each TC tree in tank 108-SX has 4 thermocouples. (Field verified by Larry Kiewert 9/15/93)
TANK BOTTOM ELEV. (FT)	610.11	610.11	610.11	
WASTE LEVEL (FT)	3.9	3.9	3.9	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 0.50 *	@ 0.50 *	@ 0.50 *	The Note on drawing H-2-33918 indicates that the tip of TC tree is set approx. 2" from bottom of tank. This doesn't say 2" from local bottom or center bottom of tank. Assume that the tip of TC tree is located 2" from bottom center of tank. TC #1 is located 4" above the tip of TC tree as shown on H-2-33918. The elevation of TC #1 relative to tank center bottom is: 2" + 4" = 6" or 0.50 Ft
2	@ 1.92 *	@ 1.92 *	@ 1.92 *	
3	@ 3.33 *	@ 3.33 *	@ 3.33 *	
4	@ 4.67	@ 4.67	@ 4.67	
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-73211 H-2-33918	TREE J H-2-33918	TREE J H-2-33918	Two Trees are monitored, #2 (Riser 10) & #8 (Riser 19)
HIGH WASTE TEMP (°F) DATE READ		184° TC #1 8/5/93		
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING		MONTHLY	?	
DATA ACQ. CODE/COND	CASS	CASS	CASS	
CATEGORY OF TANK	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	
TANK DWG #	H-2-37855 H-2-73211	H-2-37855 H-2-73211	H-2-37855 H-2-73211	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 108-SX

	RISER 12 TREE # 4	RISER 14 TREE #5	RISER 15 TREE #6	COMMENTS
RISER ELEVATION (FT)	663.47	663.46	663.48	
TANK BOTTOM ELEV. (FT)	610.11	610.11	610.11	
WASTE LEVEL (FT)	3.9	3.9	3.9	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 0.50 *	@ 0.50 *	@ 0.50 *	
2	@ 1.92 *	@ 1.92 *	@ 1.92 *	
3	@ 3.33 *	@ 3.33 *	@ 3.33 *	
4	@ 4.67	@ 4.67	@ 4.67	
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-33918	TREE J H-2-33918	TREE J H-2-33918	
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	MONTHLY ?			
DATA ACQ. CODE/COND	CASS	CASS	CASS	
CATEGORY OF TANK	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	
TANK DWG #	H-2-37855 H-2-73211	H-2-37855 H-2-73211	H-2-37855 H-2-73211	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0995

THERMOCOUPLE STATUS
TANK 108-SX

	RISER 18 TREE # 7	RISER 19 TREE #8	RISER 21	COMMENTS
RISER ELEVATION (FT)	663.47	663.47	664.18	TC tree in Riser 21 has 28 TCs. For TCs spacing, see H-2-33997, Sheet 1, Rev. 1
TANK BOTTOM ELEV. (FT)	610.11	610.11	610.11	
WASTE LEVEL (FT)	3.9	3.9	3.9	TC tree in Riser 21 unused, weather covered.
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 0.50 *	@ 0.50 *		
2	@ 1.92 *	@ 1.92 *		
3	@ 3.33 *	@ 3.33 *		
4	@ 4.67	@ 4.67		
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-33918	TREE J H-2-33918	TREE H-2-33997 See comment	
HIGH WASTE TEMP (°F) DATE READ		191° TC #1 8/5/93		
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING		MONTHLY		
DATA ACQ. CODE/COND	CASS	CASS		
CATEGORY OF TANK	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST		
TANK DWG #	H-2-37855 H-2-73211	H-2-37855 H-2-73211		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 109-SX

	RISER 9 TREE 1	RISER 10 TREE 2	RISER 11 TREE 3	COMMENTS
RISER ELEVATION (FT)	662.27	662.49	662.16	WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	609.11	609.11	609.11	
WASTE LEVEL (FT)	8.0	8.0	8.0	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ TBD	@ TBD	@ TBD	Tank 109-SX has 8 TC trees. Each tree contains 8 TCs. Temp. in this tank is monitored at tree #2 (Riser 10) and tree #8 (Riser 19).
2	@	@	@	
3	@	@	@	
4	@	@	@	
5	@	@	@	According to Allen Alstad in a cc:mail dated 3/26/93: To the best of their knowledge, the correct tree assembly & installation drawing to use for the 8 TC trees in 109-SX is H-2-34304.
6	@	@	@	
7	@	@	@	
8	@	@	@	
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE H-2-35927 ? H-2-45995 H-2-34304	TREE H-2-35927 ? H-2-34304	TREE H-2-35927 ? H-2-34304	
HIGH WASTE TEMP (°F) DATE READ		149° TC #2 8/27/93		
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING		WEEKLY		
DATA ACQ. CODE/COND	CASS	CASS	CASS	
CATEGORY OF TANK	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	109-SX: Potential of Flammable gases (Hydrogen) (WHC-EP-0416)
TANK DWG #	H-2-37855 H-2-73212	H-2-37855 H-2-73212	H-2-37855 H-2-73212	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0997

THERMOCOUPLE STATUS
TANK 109-SX

	RISER 12 TREE 4	RISER 14 TREE 5	RISER 15 TREE 6	COMMENTS
RISER ELEVATION (FT)	662.29	662.65	662.22	WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	609.11	609.11	609.11	
WASTE LEVEL (FT)	8.0	8.0	8.0	According to Allen Alstad in a cc:mail dated 3/26/93: To the best of their knowledge, the tree assembly & installation drawing to use for the 8 TC trees in 109-SX is H-2-34304.
CONDITION,[1] @ ELEV.,[2] (FT) FOR T/C No. 1	@ TBD	@ TBD	@ TBD	
2	@	@	@	
3	@	@	@	
4	@	@	@	
5	@	@	@	
6	@	@	@	
7	@	@	@	
8	@	@	@	
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE H-2-35927 ? H-2-34304	TREE H-2-35927 ? H-2-34304	TREE H-2-35927 ? H-2-34304	
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	WEEKLY			
DATA ACQ. CODE/COND	CASS	CASS	CASS	
CATEGORY OF TANK	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	
TANK DWG #	H-2-37855 H-2-73212	H-2-37855 H-2-73212	H-2-37855 H-2-73212	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 109-SX

	RISER 18 TREE 7	RISER 19 TREE 8	RISER 20	COMMENTS
RISER ELEVATION (FT)	662.68	664.50	656.67	WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	609.11	609.11	609.11	
WASTE LEVEL (FT)	8.0	8.0	8.0	According to Allen Alstad in a cc:mail dated 3/26/93: To the best of their knowledge, the tree assembly & installation drawing to use for the 8 TC trees in 109-SX is H-2-34304.
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ TBD	@ TBD		
2	@	@		
3	@	@		
4	@	@		
5	@	@		
6	@	@		
7	@	@		
8	@	@		
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE H-2-35927 ? H-2-34304	TREE H-2-35927 ? H-2-34304	SINGLE T/C	Two Trees are monitored, #2 (Riser 10) & #8 (Riser 19)
HIGH WASTE TEMP (°F) DATE READ		152° TC #1 8/27/93		
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING		WEEKLY	?	
DATA ACQ. CODE/COND	CASS	CASS	CASS	
CATEGORY OF TANK	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	
TANK DWG #	H-2-37855 H-2-73212	H-2-37855 H-2-73212	H-2-37855 H-2-73212	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0999

THERMOCOUPLE STATUS
TANK 110-SX

	RISER 9 TREE 5	RISER 10 TREE 7	RISER 12 TREE 2	COMMENTS
RISER ELEVATION (FT)	664.96	664.68	664.34	
TANK BOTTOM ELEV. (FT)	611.11	611.11	611.11	
WASTE LEVEL (FT)	2.3	2.3	2.3	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ TBD	@ TBD	@ TBD	Based on H-2-35840, tank 110-SX contains TC trees. Each tree has 3 TCs.
2	@	@	@	
3	@	@	@	
4	@	@	@	
5	@	@	@	
6	@	@	@	
7	@	@	@	
8	@	@	@	
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE H-2-35840 H-2-34304	TREE H-2-35840 H-2-34304	TREE H-2-35840 H-2-34304	
HIGH WASTE TEMP (°F) DATE READ			164° TC #1 8/5/93	
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING			MONTHLY	
DATA ACQ. CODE/COND	CASS	CASS	CASS	
CATEGORY OF TANK	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	
TANK DWG #	H-2-37855 H-2-73224	H-2-37855 H-2-73224	H-2-37855 H-2-73224	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 110-SX

	RISER 14 TREE 6	RISER 15 TREE 3	RISER 18 TREE 1	COMMENTS
RISER ELEVATION (FT)	664.51	664.71	664.13	
TANK BOTTOM ELEV. (FT)	611.11	611.11	611.11	
WASTE LEVEL (FT)	2.3	2.3	2.3	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ TBD	@ TBD	@ TBD	
2	@	@	@	
3	@	@	@	
4	@	@	@	
5	@	@	@	
6	@	@	@	
7	@	@	@	
8	@	@	@	
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TEMP PROBE H-2-35840 H-2-34304	TEMP PROBE H-2-35840 H-2-34304	TEMP PROBE H-2-35840 H-2-34304	
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	MONTHLY			
DATA ACQ. CODE/COND	CASS	CASS	CASS	
CATEGORY OF TANK	HIGH HEAT LOAD SST			
TANK DWG #	H-2-37855 H-2-73224	H-2-37855 H-2-73224	H-2-37855 H-2-73224	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 110-SX

	RISER 19 TREE 4	RISER 20 TREE 8	RISER	COMMENTS
RISER ELEVATION (FT)	664.06	664.54		
TANK BOTTOM ELEV. (FT)	611.11	611.11		
WASTE LEVEL (FT)	2.3	2.3		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ TBD	@ TBD		
2	@	@		
3	@	@		
4	@	@		
5	@	@		
6	@	@		
7	@	@		
8	@	@		
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE H-2-35840 H-2-34304	TREE H-2-35840 H-2-34304		
HIGH WASTE TEMP (°F) DATE READ		162° TC #1 8/5/93		
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING		MONTHLY		
DATA ACQ. CODE/COND	CASS	CASS		
CATEGORY OF TANK	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST		
TANK DWG #	H-2-37855 H-2-73224	H-2-37855 H-2-73224		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 111-SX

	RISER 9 TREE 1	RISER 10 TREE 2	RISER 11 TREE 3	COMMENTS
RISER ELEVATION (FT)	663.31	636.98	663.69	Based on H-2-35840, Tank 111-SX has 8 TC trees. Each tree has 8 TCs.
TANK BOTTOM ELEV. (FT)	610.11	610.11	610.11	
WASTE LEVEL (FT)	4.2	4.2	4.2	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ TBD	@ TBD	@ TBD	
2	@	@	@	
3	@	@	@	
4	@	@	@	
5	@	@	@	
6	@	@	@	
7	@	@	@	
8	@	@	@	
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE H-2-35840 H-2-34304	TREE H-2-35840 H-2-34304	TREE H-2-35840 H-2-34304	Two trees are monitored, #2 (Riser 10) & #8 (Riser 19)
HIGH WASTE TEMP (°F) DATE READ		179° TC #1,2 8/5/93		
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	MONTHLY			
DATA ACQ. CODE/COND	CASS	CASS	CASS	
CATEGORY OF TANK	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	
TANK DWG #	H-2-37855 H-2-73213	H-2-37855 H-2-73213	H-2-37855 H-2-73213	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.1003

THERMOCOUPLE STATUS
TANK 111-SX

	RISER 12 TREE 4	RISER 14 TREE 5	RISER 15 TREE 6	COMMENTS
RISER ELEVATION (FT)	663.76	663.69	663.33	
TANK BOTTOM ELEV. (FT)	610.11	610.11	610.11	
WASTE LEVEL (FT)	4.2	4.2	4.2	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ TBD	@ TBD	@ TBD	
2	@	@	@	
3	@	@	@	
4	@	@	@	
5	@	@	@	
6	@	@	@	
7	@	@	@	
8	@	@	@	
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE H-2-35840 H-2-34304	TREE H-2-35840 H-2-34304	TREE H-2-35840 H-2-34304	
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND	CASS	CASS	CASS	
CATEGORY OF TANK	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	
TANK DWG #	H-2-37855 H-2-73213	H-2-37855 H-2-73213	H-2-37855 H-2-73213	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 111-SX

	RISER 18 TREE 7	RISER 19 TREE 8	RISER	COMMENTS
RISER ELEVATION (FT)	664.10	663.64		
TANK BOTTOM ELEV. (FT)	663.31	663.31		
WASTE LEVEL (FT)	4.2	4.2		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ TBD	@ TBD		
2	@	@		
3	@	@		
4	@	@		
5	@	@		
6	@	@		
7	@	@		
8	@	@		
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE H-2-35840 H-2-34304	TREE H-2-35840 H-2-34304		
HIGH WASTE TEMP (°F) DATE READ		155° TC #1 8/5/93		
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	MONTHLY			
DATA ACQ. CODE/COND	CASS	CASS		
CATEGORY OF TANK	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST		
TANK DWG #	H-2-37855 H-2-73213	H-2-37855 H-2-73213		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.005

THERMOCOUPLE STATUS
TANK 112-SX

	RISER 3	RISER 9 TREE 1	RISER 10 TREE 2	COMMENTS
RISER ELEVATION (FT)	661.49	662.33	662.50	
TANK BOTTOM ELEV. (FT)	609.11	609.11	609.11	
WASTE LEVEL (FT)	3.2	3.2	3.2	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C NO. 1		@ 0.50 *	@ 0.50 *	
2		@ 1.17 *	@ 1.17 *	
3		@ 1.92 *	@ 1.92 *	
4		@ 2.58 *	@ 2.58 *	
5		@ 3.33 *	@ 3.33 *	
6		@ 4.00	@ 4.00	
7		@ 4.67	@ 4.67	
8		@ 5.33	@ 5.33	
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	THERMOMETER	TREE H-2-45998 H-2-45995 H-2-35840	TREE H-2-45998 H-2-45995 H-2-35840	Two Trees are monitored, #2 (Riser 10) & #8 (Riser 19)
HIGH WASTE TEMP (°F) DATE READ			147° TC #1 8/5/93	
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	MONTHLY			
DATA ACQ. CODE/COND	UNUSED	CASS	CASS	
CATEGORY OF TANK	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	
TANK DWG #	H-2-37855 H-2-73214	H-2-37855 H-2-73214	H-2-37855 H-2-73214	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 112-SX

	RISER 11 TREE 3	RISER 12 TREE 4	RISER 14 TREE 5	COMMENTS
RISER ELEVATION (FT)	662.08	662.45	662.58	
TANK BOTTOM ELEV. (FT)	609.11	609.11	609.11	
WASTE LEVEL (FT)	3.2	3.2	3.2	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 0.50 *	@ 0.50 *	@ 0.5 *	
2	@ 1.17 *	@ 1.17 *	@ 1.17 *	
3	@ 1.92 *	@ 1.92 *	@ 1.92 *	
4	@ 2.58 *	@ 2.58 *	@ 2.58 *	
5	@ 3.33 *	@ 3.33 *	@ 3.33 *	
6	@ 4.00	@ 4.00	@ 4.00	
7	@ 4.67	@ 4.67	@ 4.67	
8	@ 5.33	@ 5.33	@ 5.33	
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-45998 H-2-45995 H-2-35840	TREE J H-2-45998 H-2-45995 H-2-35840	TREE J H-2-45998 H-2-45995 H-2-35840	
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND	UNUSED	CASS	CASS	
CATEGORY OF TANK	HIGH HEAT LOAD SST			
TANK DWG #	H-2-37855 H-2-73214	H-2-37855 H-2-73214	H-2-37855 H-2-73214	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
= Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.1007

THERMOCOUPLE STATUS
TANK 112-SX

	RISER 15 TREE 6	RISER 18 TREE 7	RISER 19 TREE 8	COMMENTS
RISER ELEVATION (FT)	662.37	662.67	662.35	
TANK BOTTOM ELEV. (FT)	609.11	609.11	609.11	
WASTE LEVEL (FT)	3.2	3.2	3.2	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 0.50 *	@ 0.50 *	@ 0.50 *	
2	@ 1.17 *	@ 1.17 *	@ 1.17 *	
3	@ 1.92 *	@ 1.92 *	@ 1.92 *	
4	@ 2.58 *	@ 2.58 *	@ 2.58 *	
5	@ 3.33 *	@ 3.33 *	@ 3.33 *	
6	@ 4.00	@ 4.00	@ 4.00	
7	@ 4.67	@ 4.67	@ 4.67	
8	@ 5.33	@ 5.33	@ 5.33	
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-45998 H-2-45995 H-2-35840	TREE J H-2-45998 H-2-45995 H-2-35840	TREE J H-2-45998 H-2-45995 H-2-35840	
HIGH WASTE TEMP (°F) DATE READ			153° TC #1 8/5/93	
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING			MONTHLY	
DATA ACQ. CODE/COND	UNUSED	CASS	CASS	
CATEGORY OF TANK	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	
TANK DWG #	H-2-37855 H-2-73214	H-2-37855 H-2-73214	H-2-37855 H-2-73214	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 113-SX

	RISER 3	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	663.51			Thermocouple tree in Riser 3 has 18 TCs (based on temp. log book: has 18 reading on 1/1/92)
TANK BOTTOM ELEV. (FT)	611.11			
WASTE LEVEL (FT)	1.2			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ TBD			
2	@			
3	@			
4	@			
5	@			
6	@			
7	@			
8	@			
9	@			
10	@			
11	@			
12	@			
13	@			
14	@			
15	@			
16	@			
17	@			
18	@			
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-34304			
HIGH WASTE TEMP (°F) DATE READ	73° TC #1 7/2/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK				
TANK DWG #	H-2-37855 H-2-73215			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
= Marginal
= Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 114-SX

	RISER 9 TREE 1	RISER 10 TREE 2	RISER 11 TREE 3	COMMENTS
RISER ELEVATION (FT)	663.38	663.85	663.29	Tank 114-SX has 8 TC trees. Each tree contains 8 TCs. Temp. is monitored at tree #2 (Riser 10) and tree #8 (Riser 19).
TANK BOTTOM ELEV. (FT)	610.11	610.11	610.11	
WASTE LEVEL (FT)	5.9	5.9	5.9	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ TBD	@ TBD	@ TBD	
2	@	@	@	According to Allen Alstad in a cc:mail dated 3/26/93: To the best of their knowledge, the correct tree assembly & installation drawing to use for the 8 TC trees in 114-SX is H-2-34304.
3	@	@	@	
4	@	@	@	
5	@	@	@	
6	@	@	@	
7	@	@	@	
8	@	@	@	
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE H-2-35927 H-2-34304	TREE H-2-35927 H-2-34304	TREE H-2-35927 H-2-34304	
HIGH WASTE TEMP (°F) DATE READ		178° TC #1 8/5/93		
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING		MONTHLY		
DATA ACQ. CODE/COND	CASS	CASS	CASS	
CATEGORY OF TANK	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	
TANK DWG #	H-2-37855 H-2-73216	H-2-37855 H-2-73216	H-2-37855 H-2-73216	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 114-SX

	RISER 12 TREE 4	RISER 14 TREE 5	RISER 15 TREE 6	COMMENTS
RISER ELEVATION (FT)	663.87	664.19	663.59	According to Allen Alstad in a cc:mail dated 3/26/93: To the best of their knowledge, the correct tree assembly & installation drawing to use for the 8 TC trees in 114-SX is H-2-34304.
TANK BOTTOM ELEV. (FT)	610.11	610.11	610.11	
WASTE LEVEL (FT)	5.9	5.9	5.9	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C NO. 1	@ TBD	@ TBD	@ TBD	
2	@	@	@	
3	@	@	@	
4	@	@	@	
5	@	@	@	
6	@	@	@	
7	@	@	@	
8	@	@	@	
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE H-2-35927 H-2-34304	TREE H-2-35927 H-2-34304	TREE H-2-35927 H-2-34304	
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	MONTHLY			
DATA ACQ. CODE/COND	CASS	CASS	CASS	
CATEGORY OF TANK	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST	
TANK DWG #	H-2-37855 H-2-73216	H-2-37855 H-2-73216	H-2-37855 H-2-73216	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 114-SX

	RISER 18 TREE 7	RISER 19 TREE 8	RISER	COMMENTS
RISER ELEVATION (FT)	664.29	663.81		According to Allen Alstad in a cc:mail dated 3/26/93: To the best of their knowledge, the correct tree assembly & installation drawing to use for the 8 TC trees in 114-SX is H-2-34304.
TANK BOTTOM ELEV. (FT)	610.11	610.11		
WASTE LEVEL (FT)	5.9	5.9		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ TBD	@ TBD		
2	@	@		
3	@	@		
4	@	@		
5	@	@		
6	@	@		
7	@	@		
8	@	@		
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE H-2-35927 H-2-34304	TREE H-2-36927 H-2-34304		
HIGH WASTE TEMP (°F) DATE READ		176° TC #1 8/5/93		
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING		MONTHLY		
DATA ACQ. CODE/COND	CASS	CASS		
CATEGORY OF TANK	HIGH HEAT LOAD SST	HIGH HEAT LOAD SST		
TANK DWG #	H-2-37855 H-2-73216	H-2-37855 H-2-73216		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 115-SX

	RISER 6	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	661.38			Observation made during walk-through of SX-Farm by James Bussell show that no TCs were found in this tank. According to Allen Alsted in a cc:mail dated 3/26/93: Riser 6 is the observation port (a 12 inch riser) and Riser 4 had a TC tree from which the wires were cut.
TANK BOTTOM ELEV. (FT)	609.11			
WASTE LEVEL (FT)	0.8			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C NO. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)				
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK				
TANK DWG #	H-2-37855 H-2-73217			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

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THERMOCOUPLE STATUS

T-FARM

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THERMOCOUPLE STATUS
TANK 101-T

	RISER 8	RISER 3	RISER	COMMENTS
RISER ELEVATION (FT)	673.81	669.9		Removed from the WATCH LIST TANK on July 9, 1993
TANK BOTTOM ELEV.(FT)	635.00	635.00		
WASTE LEVEL (FT)	4.7	4.7		R-3: New TC tree will be installed.
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	F @ 1.2 *			
2	A @ 3.2 *			
3	F @ 5.2			
4	A @ 7.2			
5	A @ 9.2			
6	A @ 11.2			
7	A @ 13.2			
8	A @ 15.2			
9	A @ 17.2			
10	A @ 21.2			
11	A @ 25.2			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-34304	New TC tree see comment		
HIGH WASTE TEMP (°F) DATE READ	68° TC #1 8/27/93			
FIELD TEST TEMP (°F) DATE READ	68° TC #10,11 7/17/91			
FREQ. OF MONITORING	Weekly			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	FeCN SST			
TANK DWG #	H-2-37909 H-2-73059			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.1015

THERMOCOUPLE STATUS
TANK 102-T

	RISER 8	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	672.85			No TC tree in this tank.
TANK BOTTOM ELEV. (FT)	634.0			
WASTE LEVEL (FT)	1.6			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE REMOVE PER B-181-26			
HIGH WASTE TEMP (°F) DATE READ				R-8 : Could not find TC tree , no reading (temp. log book).
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37909 H-2-73060			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 103-T

	RISER 8	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	671.38			Do not know thermocouple elevations at this time. Needs field verification.
TANK BOTTOM ELEV. (FT)	633.00			
WASTE LEVEL (FT)	1.4			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	A @			
2	A @			
3	A @			
4	A @			
5	A @			
6	A @			
7	A @			
8	A @			
9	A @			
10	A @			
11	A @			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TEMP PROBE			
HIGH WASTE TEMP (°F) DATE READ	59° TC #1 7/2/93			
FIELD TEST TEMP (°F) DATE READ	60.4° TC #1 3/24/93			
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37909 H-2-73054			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.1017

THERMOCOUPLE STATUS
TANK 104-T

	RISER 1	RISER 4	RISER	COMMENTS
RISER ELEVATION (FT)	673.81	673.80		R-4: Has 11 readings (temp. log book)
TANK BOTTOM ELEV. (FT)	635.00	635.00		
WASTE LEVEL (FT)	14.1	14.1		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1		F @		
2		A @		
3		A @		
4		A @		
5		A @		
6		A @		
7		A @		
8		A @		
9		A @		
10		A @		
11		A @		
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	LOW H-2-93715	TC PROBE H-2-34304 ?		
HIGH WASTE TEMP (°F) DATE READ		70.5 TC #2 3/25/93		
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING		Semiannually		
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Partially Isolated Interim SST			
TANK DWG #	H-2-37909 H-2-73061	H-2-37909 H-2-73061		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 105-T

	RISER 4	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	672.81			R-4: TC probe cut off because it could not be removed per B-181-22. No temp. readings (temp. log book) No TC tree since May, 1982
TANK BOTTOM ELEV. (FT)	634.0			
WASTE LEVEL (FT)	3.6			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TC probe see comment			
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37909 H-2-73062			
FIELD VERIFIED, REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.019

THERMOCOUPLE STATUS
TANK 106-T

	RISER 8	RISER 15	RISER	COMMENTS
RISER ELEVATION (FT)	671.91			
TANK BOTTOM ELEV. (FT)	633.00			
WASTE LEVEL (FT)	1.3			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	A @			
2	A @			
3	A @			
4	A @			
5	A @			
6	A @			
7	A @			
8	A @			
9	A @			
10	A @			
11	A @			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TEMP PROBE H-2-35213 ? H-2-34304 ?			
HIGH WASTE TEMP (°F) DATE READ	59° TC #1 7/2/93			
FIELD TEST TEMP (°F) DATE READ	58.4° TC #1 3/25/93			
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
CATEGORY OF TANK				
TANK DWG #	H-2-37909 H-2-73055			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 107-T

	RISER 4	RISER 5	RISER	COMMENTS
RISER ELEVATION (FT)	673.92	673.82		WATCH LIST TANK
TANK BOTTOM ELEV.(FT)	635.00	635.00		New TC tree will be installed (information from Goeffrey Barnes 2/24/93).
WASTE LEVEL (FT)	6.10	6.10		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	F @ 1.2 *			
2	F @ 3.2 *			
3	F @ 5.2 *			
4	F @ 7.2			
5	A @ 9.2			
6	A @ 11.2			
7	A @ 13.2			
8	A @ 15.2			
9	A @ 17.2			
10	A @ 21.2			
11	M @ 25.2			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-34304	New TC tree see comment		
HIGH WASTE TEMP (°F) DATE READ	65° TC #9 8/27/93			
FIELD TEST TEMP (°F) DATE READ	68° #11 7/18/91			
FREQ. OF MONITORING	Weekly			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	FeCN SST			
TANK DWG #	H-2-37909 H-2-73063			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 108-T

	RISER 4	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	672.82			
TANK BOTTOM ELEV. (FT)	634.00			
WASTE LEVEL (FT)	2.0			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	F @			
2	F @			
3	F @			
4	A @			
5	A @			
6	A @			
7	A @			
8	A @			
9	A @			
10	A @			
11	A @			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TEMP. PROBE			
HIGH WASTE TEMP (°F) DATE READ	64° TC #4 11/13/91			All TCs out of service, J-3 issued 7/93, last reading 11/13/91
FIELD TEST TEMP (°F) DATE READ	62.5° TC #4 3/25/93			
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37909 H-2-73056			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 109-T

	RISER 8	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	671.86			R-8: Based on Temp. log book, all TCs in this tree are out of service, work order issued, last reading 75°F in 2/91
TANK BOTTOM ELEV. (FT)	633.00			
WASTE LEVEL (FT)	2.4			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	F @			
2	A @			
3	A @			
4	F @			
5	F @			
6	A @			
7	M @			
8	F @			
9	F @			
10	A @			
11	A @			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TEMP PROBE H-2-70000 H-2-34304			
HIGH WASTE TEMP (°F) DATE READ	75° TC #1 2/16/91			
FIELD TEST TEMP (°F) DATE READ	58.5° TC #2 3/24/93			
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37909 H-2-73057			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 110-T

	RISER 5	RISER 8	RISER	COMMENTS
RISER ELEVATION (FT)	673.80	673.82		WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	635.00	635.00		Do not know for sure the TC tree assembly/installation drawing. Needs field verification.
WASTE LEVEL (FT)	12.1	12.1		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1		A @		
2		A @		
3		A @		
4		A @		
5		A @		
6		A @		
7		A @		
8		A @		
9		A @		
10		A @		
11		A @		
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	LOW H-2-93715	TEMP. PROBE		
HIGH WASTE TEMP (°F) DATE READ		62° TC #1,2 8/27/93		
FIELD TEST TEMP (°F) DATE READ		58.4° TC #1 3/23/93		
FREQ. OF MONITORING		WEEKLY		
DATA ACQ. CODE/COND	HYDROGEN SST See comment			Potential Flammable gases (Hydrogen)(WHC-EP-0416)
CATEGORY OF TANK				
TANK DWG #	H-2-37909 H-2-73064	H-2-37909 H-2-73064		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 111-T

	RISER 5	RISER 7	RISER	COMMENTS
RISER ELEVATION (FT)	672.82	672.82		Do not know TC tree assembly/installation drawing for sure. Needs field verification
TANK BOTTOM ELEV. (FT)	634.00	634.00		
WASTE LEVEL (FT)	14.5	14.5		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	F @			
2	F @			
3	A @			
4	A @			
5	F @			
6	F @			
7	A @			
8	A @			
9	A @			
10	A @			
11	A @			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TEMP. PROBE H-2-34304 ?	LOW H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	59° TC # 3 7/2/93			
FIELD TEST TEMP (°F) DATE READ	68.3° TC #11 3/23/93			
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker PI SST			PI: Partially Interim Isolated
TANK DWG #	H-2-37909 H-2-73058	H-2-37909 H-2-73058		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.1025

THERMOCOUPLE STATUS
TANK 112-T

	RISER 3	RISER 8	RISER	COMMENTS
RISER ELEVATION (FT)	671.73	671.81		
TANK BOTTOM ELEV. (FT)	633.00	633.00		
WASTE LEVEL (FT)	2.7	2.7		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1		A @		Do not know TC tree assembly drawing. Needs field verification
2		A @		
3		A @		
4		F @		
5		A @		
6		A @		
7		A @		
8		A @		
9		A @		
10		A @		
11		A @		
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TC REMOVE ?	TEMP PROBE		
HIGH WASTE TEMP (°F) DATE READ		59° TC #2 7/2/93		
FIELD TEST TEMP (°F) DATE READ		63.4° TC #1 3/23/93		
FREQ. OF MONITORING		Semiannually		
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37909 H-2-73065	H-2-37909 H-2-73065		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 201-T

	RISER 5	RISER 8	RISER	COMMENTS
RISER ELEVATION (FT)	672.43	672.44		
TANK BOTTOM ELEV. (FT)	634.00	634.00		
WASTE LEVEL (FT)	12.6	12.6		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	A @			
2	A @			
3	A @			
4	A @			
5	A @			
6	A @			
7	A @			
8	A @			
9	A @			
10	A @			
11	A @			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE	TC STRINGER ?		
HIGH WASTE TEMP (°F) DATE READ	59° TC #1,2 7/2/93			
FIELD TEST TEMP (°F) DATE READ	66.8° TC #2 3/25/93			
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND	IS/II SST			IS: Interim Stabilized II: Interim Isolated
CATEGORY OF TANK				
TANK DWG #	H-2-73066	H-2-73066		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.1027

THERMOCOUPLE STATUS
TANK 202-T

	RISER 5	RISER 8	RISER	COMMENTS
RISER ELEVATION (FT)	672.39	672.44		
TANK BOTTOM ELEV. (FT)	633.00	633.00		
WASTE LEVEL (FT)	9.2	9.2		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	A @			
2	A @			
3	A @			
4	A @			
5	A @			
6	A @			
7	A @			
8	A @			
9	A @			
10	A @			
11	A @			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TEMP.	TC STRINGER ?		
HIGH WASTE TEMP (°F) DATE READ	58° TC #1,2 7/2/93			
FIELD TEST TEMP (°F) DATE READ	63.6° TC #1 3/25/93			
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-73067	H-2-73067		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 203-T

	RISER 5	RISER 8	RISER	COMMENTS
RISER ELEVATION (FT)	672.37	672.37		R-3 & R-8: Do not know the TC tree assembly/installation drawings at this time. Needs field verification.
TANK BOTTOM ELEV. (FT)	634.0	634.0		
WASTE LEVEL (FT)	15.1	15.1		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1		A @		
2		A @		
3		A @		
4		A @		
5		A @		
6		A @		
7		A @		
8		A @		
9		A @		
10		A @		
11		A @		
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TEMPERATURE	TREE See comment		
HIGH WASTE TEMP (°F) DATE READ		76° TC #6 7/2/93		
FIELD TEST TEMP (°F) DATE READ		66.1° TC #2 3/25/93		
FREQ. OF MONITORING		Semiannually		
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/II SST	IS/II SST		IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-73068	H-2-73068		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 204-T

	RISER 8	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	672.39			
TANK BOTTOM ELEV. (FT)	633.0			
WASTE LEVEL (FT)	16.4			
CONDITION[1] @ ELEV.[2] (FT) T/C No. 1	A @			
2	A @			
3	A @			
4	A @			
5	A @			
6	A @			
7	A @			
8	A @			
9	A @			
10	A @			
11	A @			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE			
HIGH WASTE TEMP (°F) DATE READ	60° TC #1 7/2/93			
FIELD TEST TEMP (°F) DATE READ	63.7° TC #2 3/25/93			
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-73069			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.1031

THERMOCOUPLE STATUS

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THERMOCOUPLE STATUS
TANK 101-TX

	RISER	RISER	RISER	COMMENTS
RISER ELEVATION (FT)				No TC tree in this tank
TANK BOTTOM ELEV. (FT)	624.73			
WASTE LEVEL (FT)	3.3			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)				
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37910 H-2-73117			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.1032

THERMOCOUPLE STATUS
TANK 102-TX

	RISER 4	RISER 11A	RISER	COMMENTS
RISER ELEVATION (FT)	671.21	672.95		
TANK BOTTOM ELEV. (FT)	623.73	623.73		
WASTE LEVEL (FT)	4.0	4.0		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 0.81 *			
2	@ 2.81 *			
3	@ 4.81			
4	@ 6.81			
5	@ 8.81			
6	@ 10.81			
7	@ 12.81			
8	@ 14.81			
9	@ 16.81			
10	@ 18.81			
11	@ 20.81			
12	@ 22.81			
13	@ 26.81			
14	@ 30.81			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-35883 H-2-34304, ASSY 1	LOW H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	See comment			R-4: Could not get temp. reading, cable cut from tree (Information from temp. log book 7/2/93))
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37910 H-2-73118	H-2-37910 H-2-73118		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 103-TX

	RISER 4	RISER 11A	RISER	COMMENTS
RISER ELEVATION (FT)	670.27	671.55		
TANK BOTTOM ELEV. (FT)	622.73	622.73		
WASTE LEVEL (FT)	5.4	5.4		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 1.12 *			
2	@ 3.12 *			
3	@ 5.12 *			
4	@ 7.12			
5	@ 9.12			
6	@ 11.12			
7	@ 13.12			
8	@ 15.12			
9	@ 17.12			
10	@ 19.12			
11	@ 21.12			
12	@ 23.12			
13	@ 27.12			
14	@ 31.12			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-36296 H-2-34304, ASSY 1	LOW H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	58° TC #3 7/13/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37910 H-2-71320	H-2-37910 H-2-71320		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.034

THERMOCOUPLE STATUS
TANK 104-TX

	RISER 4	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	669.13			
TANK BOTTOM ELEV. (FT)	621.73			
WASTE LEVEL (FT)	2.6			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 0.98 *			
2	@ 2.98			
3	@ 4.98			
4	@ 6.98			
5	@ 8.98			
6	@ 10.98			
7	@ 12.98			
8	@ 14.98			
9	@ 16.98			
10	@ 18.98			
11	@ 20.98			
12	@ 22.98			
13	@ 26.98			
14	@ 30.98			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-36296 H-2-34304, ASSY 1			
HIGH WASTE TEMP (°F) DATE READ	60° TC #1 7/13/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37910 H-2-73122			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 105-TX

	RISER 4	RISER 9A	RISER	COMMENTS
RISER ELEVATION (FT)	672.97	674.70		WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	624.73	624.73		
WASTE LEVEL (FT)	19.1	19.1		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 0.45 *			
2	@ 2.41 *			
3	@ 4.41*			
4	@ 6.41 *			
5	@ 8.41 *			
6	@ 24.41			
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE H-2-90344 H-2-90342, ASSY 4 H-2-90340	LOW H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	95° TC #5 8/30/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	WEEKLY			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker/ Organic SST			
TANK DWG #	H-2-37910 H-2-73123	H-2-37910 H-2-731[illegible]		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
1 = Marginal
[illegible] = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.1036

THERMOCOUPLE STATUS
TANK 106-TX

	RISER 4	RISER 11A	RISER	COMMENTS
RISER ELEVATION (FT)	671.96	672.93		
TANK BOTTOM ELEV. (FT)	623.73	623.73		
WASTE LEVEL (FT)	14.4	14.4		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 1.56 *			
2	@ 3.56 *			
3	@ 5.56 *			
4	@ 7.56 *			
5	@ 9.56 *			
6	@ 11.56 *			
7	@ 13.56 *			
8	@ 15.56			
9	@ 17.56			
10	@ 19.56			
11	@ 21.56			
12	@ 23.56			
13	@ 27.56			
14	@ 31.56			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-35883 H-2-34304, ASSY 1	LOW H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	59° TC #7 7/13/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37910 H-2-73214	H-2-37910 H-2-73214		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 107-TX

	RISER 4	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	670.16			
TANK BOTTOM ELEV. (FT)	622.73			
WASTE LEVEL (FT)	1.7			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 1.01 *			
2	@ 3.01			
3	@ 5.01			
4	@ 7.01			
5	@ 9.01			
6	@ 11.01			
7	@ 13.01			
8	@ 15.01			
9	@ 17.01			
10	@ 19.01			
11	@ 21.01			
12	@ 23.01			
13	@ 27.01			
14	@ 31.01			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-36296 H-2-34304, ASSY 1			
HIGH WASTE TEMP (°F) DATE READ	59° TC #1 7/13/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37910 H-2-73125			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.1038

THERMOCOUPLE STATUS
TANK 108-TX

	RISER 4	RISER 9A	RISER	COMMENTS
RISER ELEVATION (FT)	669.17	669.56		
TANK BOTTOM ELEV. (FT)	621.73	621.73		
WASTE LEVEL (FT)	4.7	4.7		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 1.02 *			
2	@ 3.02 *			
3	@ 5.02			
4	@ 7.02			
5	@ 9.02			
6	@ 11.02			
7	@ 13.02			
8	@ 15.02			
9	@ 17.02			
10	@ 19.02			
11	@ 21.02			
12	@ 23.02			
13	@ 27.02			
14	@ 31.02			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-36296 H-2-34304, ASSY 1	LOW H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	59° TC #1,2 7/13/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37910 H-2-73126	H-2-37910 H-2-73126		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 109-TX

	RISER 3	RISER 8	RISER	COMMENTS
RISER ELEVATION (FT)	672.13	672.16		
TANK BOTTOM ELEV. (FT)	624.73	624.73		
WASTE LEVEL (FT)	12.3	12.3		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1		@ 1.01 *		
2		@ 3.01 *		
3		@ 5.01 *		
4		@ 7.01 *		
5		@ 9.01 *		
6		@ 11.01 *		
7		@ 13.01		
8		@ 15.01		
9		@ 17.01		
10		@ 19.01		
11		@ 21.01		
12		@ 23.01		
13		@ 27.01		
14		@ 31.01		
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	LOW H-2-93715	TREE J H-2-36296 H-2-34304, ASSY 1		
HIGH WASTE TEMP (°F) DATE READ		64° TC #1,2 7/13/93		
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING		Semiannually		
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37910 H-2-73127	H-2-37910 H-2-73127		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 110-TX

	RISER 8	RISER 13B	RISER	COMMENTS
RISER ELEVATION (FT)	671.13	671.18		
TANK BOTTOM ELEV. (FT)	623.73	623.73		
WASTE LEVEL (FT)	14.6	14.6		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 0.36 *			
2	@ 2.32 *			
3	@ 4.32 *			
4	@ 6.32 *			
5	@ 8.32 *			
6	@ 24.32			
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-90344 H-2-90342, ASSY 3	LOW H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	40° TC #1-5 2/22/93			Temperature log book indicates 12 readings as of 2/22/93.
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37910 H-2-73128	H-2-37910 H-2-73128		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 111-TX

	RISER 8	RISER 11B	RISER	COMMENTS
RISER ELEVATION (FT)	670.18	669.93		
TANK BOTTOM ELEV. (FT)	622.73	622.73		
WASTE LEVEL (FT)	11.8	11.8		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 0.78 *			
2	@ 2.78 *			
3	@ 4.78 *			
4	@ 6.78 *			
5	@ 8.78 *			
6	@ 10.78 *			
7	@ 12.78			
8	@ 14.78			
9	@ 16.78			
10	@ 18.78			
11	@ 20.78			
12	@ 22.78			
13	@ 26.78			
14	@ 30.78			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-35213 H-2-34304, ASSY 1	LOW H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	69° TC #6 7/13/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37910 H-2-73219	H-2-37910 H-2-73219		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.1042

THERMOCOUPLE STATUS
TANK 112-TX

	RISER 7	RISER 8	RISER	COMMENTS
RISER ELEVATION (FT)	669.29	669.18		
TANK BOTTOM ELEV. (FT)	621.73	621.73		
WASTE LEVEL (FT)	20.3	20.3		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1		@ 0.78 *		
2		@ 2.78 *		
3		@ 4.78 *		
4		@ 6.78 *		
5		@ 8.78 *		
6		@ 10.78 *		
7		@ 12.78 *		
8		@ 14.78 *		
9		@ 16.78 *		
10		@ 18.78 *		
11		@ 20.78		
12		@ 22.78		
13		@ 26.78		
14		@ 30.78		
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	LOW H-2-93715	TREE J H-2-35213 H-2-34304, ASSY 1		
HIGH WASTE TEMP (°F) DATE READ		80° TC #10 7/13/93		
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING		Semiannually		
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37910 H-2-73130	H-2-37910 H-2-73130		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 113-TX

	RISER 3	RISER 4	RISER 8	COMMENTS
RISER ELEVATION (FT)	671.94	672.08	671.93	
TANK BOTTOM ELEV. (FT)	624.73	624.73	624.73	
WASTE LEVEL (FT)	19.0	19.0	19.0	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TEMP. PROBE	LOW H-2-93715	TREE See comment	R-8: Temp. log book indicates 14 readings (14 temp. elements) on 7/13/93
HIGH WASTE TEMP (°F) DATE READ			70° TC #10 7/13/93	
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING			Semiannually	
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37910 H-2-73131	H-2-37910 H-2-73131	H-2-37910 H-2-73131	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 114-TX

	RISER 4	RISER 12A	RISER	COMMENTS
RISER ELEVATION (FT)	671.13	671.73		
TANK BOTTOM ELEV. (FT)	623.73	623.73		
WASTE LEVEL (FT) *	16.8	16.8		R-4: No temp. reading, out of service, work order issued 11/19/91. Based on Temp. log book dated 7/13/93: NO TREE (the cable cut from the tree)
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TEMP. PROBE	LOW		
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37910 H-2-73115	H-2-37910 H-2-73115		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.1045

THERMOCOUPLE STATUS
TANK 115-TX

	RISER 3	RISER 9A	RISER	COMMENTS
RISER ELEVATION (FT)	670.10	669.36		
TANK BOTTOM ELEV. (FT)	622.73	622.73		
WASTE LEVEL (FT)	20.0	20.0		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TEMP. PROBE	LOW		
HIGH WASTE TEMP (°F) DATE READ	70° TC #9 7/13/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37910 H-2-73116	H-2-37910 H-2-73116		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.1046

THERMOCOUPLE STATUS
TANK 116-TX

	RISER 4	RISER 8	RISER	COMMENTS
RISER ELEVATION (FT)	672.20	672.08		
TANK BOTTOM ELEV. (FT)	624.73	624.73		
WASTE LEVEL (FT)	19.7	19.7		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TEMP. PROBE	TEMP. PROBE		R-4 & R-8: probe cut off, blind flange per Det I, H-2-73450.
HIGH WASTE TEMP (°F) DATE READ				No temp. reading, out of service work order issued 11/19/91
FIELD TEST TEMP (°F) DATE READ				NO TC TREE (TEMP. log book 7/4/92)
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37910 H-2-73132	H-2-37910 H-2-73132		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 117-TX

	RISER 3	RISER 7	RISER 8	COMMENTS
RISER ELEVATION (FT)	671.06	671.22	671.05	
TANK BOTTOM ELEV. (FT)	623.73	623.73	623.73	
WASTE LEVEL (FT)	19.6	19.6	19.6	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TEMP. PROBE see comment	LOW H-2-93715	TEMP. PROBE see comment	R-3 & R-8: temp. probe cut off, blind flange (DFC-B-222-64). 8/14/84
HIGH WASTE TEMP (°F) DATE READ				All TCs out of service, cable cut off from TC tree (7/2/93)
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37910 H-2-73133	H-2-37910 H-2-73133		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.1048

THERMOCOUPLE STATUS
TANK 118-TX

	RISER 3	RISER 5	RISER 1	COMMENT
RISER ELEVATION (FT)	670.14	671.12	670.11	WATCH LIST TANK
TANK BOTTOM ELEV.(FT)	622.73	622.73	622.73	R-1: new TC tree was installed on 7/29/93. TC distances have not been checked (Information from Geoff. Barnes 9/17/93)
WASTE LEVEL (FT)	9.8	9.8	9.8	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	G @ 0.5 *		G @ 0.42 *	
2	G @ 2.5 *		G @ 2.33 *	
3	G @ 4.5 *		G @ 4.33 *	
4	G @ 6.5 *		G @ 7.25 *	
5	G @ 8.5 *		G @ 10.42	
6	M @ 10.5		G @ 16.33	
7	G @ 12.5			
8	G @ 14.5			
9	G @ 16.5			
10	G @ 18.5			
11	G @ 20.5			
12	G @ 22.5			
13	G @ 26.5			
14	G @ 30.5			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-35213 H-2-34304	LOW H-2-93715	TREE K H-2-89458, SHT 3, REV. 1 H-2-83312, REV. 0 ECN: 188499, 193105	
HIGH WASTE TEMP (°F) DATE READ	76° TC #1-3 8/30/93			
FIELD TEST TEMP (°F) DATE READ	76° TC #1,2 7/17/91			
FREQ. OF MONITORING	Weekly			
DATA ACQ. CODE/COND	TMACS			
CATEGORY OF TANK	FeCN/ORGANIC SST			
TANK DWG #	H-2-37910 H-2-73134	H-2-37910 H-2-73134		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.1050

THERMOCOUPLE STATUS

TY-FARM

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THERMOCOUPLE STATUS
TANK 101-TY

	RISER 4	RISER 3	RISER	COMMENTS
RISER ELEVATION (FT)	671.98	671.95		WATCH LIST TANK
TANK BOTTOM ELEV.(FT)	626.33	626.33		R-3: new TC tree will be installed (Inf. from Geoffrey Barnes 2/24/93)
WASTE LEVEL (FT)	4.28	4.28		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	A @ 1.1 *			
2	A @ 3.1 *			
3	A @ 5.1			
4	A @ 7.1			
5	A @ 9.1			
6	A @ 11.1			
7	A @ 13.1			
8	M @ 15.1			
9	A @ 17.1			
10	A @ 19.1			
11	M @ 21.1			
12	A @ 23.1			
13	A @ 27.1			
14	A @ 31.1			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-36296 H-2-34304, ASSY 1	TREE H-2-89458, SHT 3 H-2-83312		
HIGH WASTE TEMP (°F) DATE READ	66° TC #2 8/30/93			
FIELD TEST TEMP (°F) DATE READ	66° TC #:2,3,4 7/18/91			
FREQ. OF MONITORING	Weekly			
DATA ACQ. CODE/COND	TMACS			
CATEGORY OF TANK	FeCN SST	FeCN		
TANK DWG #	H-2-37381, SHT 2 H-2-73087	H-2-37381, SHT 2 H-2-73087		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.1051

THERMOCOUPLE STATUS
TANK 102-TY

	RISER 4	RISER 3	RISER #	COMMENTS
RISER ELEVATION (FT)	670.95			
TANK BOTTOM ELEV.(FT)	625.33			
WASTE LEVEL (FT)	2.6			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No.	@ 0.95 *			
2	@ 2.95			
3	@ 4.95			
4	@ 6.95			
5	@ 8.95			
6	@ 10.95			
7	@ 12.95			
8	@ 14.95			
9	@ 16.95			
10	@ 18.95			
11	@ 20.95			
12	@ 22.93			
13	@ 26.95			
14	@ 30.95			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-36296 H-2-34304, ASSY 1			
HIGH WASTE TEMP (°F) DATE READ	67° TC #1 11/5/92			
FIELD TEST TEMP DATE READ				
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND	MANUAL			
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37381, SHT 2 H-2-73092			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 103-TY

	RISER 3	RISER 4	RISER 15	COMMENTS
RISER ELEVATION (FT)	671.95	671.90	672.04	WATCH LIST TANK
TANK BOTTOM ELEV.(FT)	626.33	626.33	626.33	R-15: TC tree will be installed (Inf. from Geoffrey Barnes 2/24/93)
WASTE LEVEL (FT)	5.6	5.6	5.6	
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1		F @ 0.6 *		
2		F @ 2.6 *		
3		F @ 4.6 *		
4		F @ 6.6		
5		F @ 8.6		
6		F @ 10.6		
7		F @ 12.6		
8		F @ 14.6		
9		F @ 16.6		
10		F @ 18.6		
11		F @ 20.6		
12		F @ 22.6		
13		F @ 26.6		
14		A @ 30.6		
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	LOW H-2-93715	TREE J H-2-36296 H-2-34304, ASSY 1	TREE H-2-89458, SHT. 3 H-2-83312	
HIGH WASTE TEMP (°F) DATE READ		70° TC #2 8/30/93		
FIELD TEST TEMP (°F) DATE READ		88° TC #2 7/18/91		
FREQ. OF MONITORING		Weekly		
DATA ACQ. CODE/COND		TMACS		
CATEGORY OF TANK		FeCN SST		
TANK DWG #	H-2-37381, SHT 2 H-2-73088	H-2-37381, SHT 2 H-2-73088	H-2-37381, SHT 2 H-2-73088	
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.1053

THERMOCOUPLE STATUS
TANK 104-TY

	RISER 4	RISER 3	RISER	COMMENTS
RISER ELEVATION (FT)	671.00	670.97		WATCH LIST TANK
TANK BOTTOM ELEV.(FT)	625.33	625.33		New TC tree will be installed (Information from Geoffrey Barnes 2/24/93)
WASTE LEVEL (FT)	2.0	2.0		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	M @ 0.6 *			
2	M @ 2.6			
3	M @ 4.6			
4	M @ 6.6			
5	M @ 8.6			
6	M @ 10.6			
7	M @ 12.6			
8	M @ 14.6			
9	M @ 16.6			
10	M @ 18.6			
11	M @ 20.6			
12	M @ 22.6			
13	M @ 26.6			
14	M @ 30.6			
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-36296 H-2-34304, ASSY 1	New TC tree see comment		
HIGH WASTE TEMP (°F) DATE READ	66° TC #1 8/30/93			
FIELD TEST TEMP DATE READ	70° TC #12-14 7/18/91			
FREQ. OF MONITORING	Weekly			
DATA ACQ. CODE/COND	TMACS			
CATEGORY OF TANK	FeCN SST			
TANK DWG #	H-2-37381, SHT 2 H-2-73089			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 105-TY

	RISER 3	RISER 4	RISER #	COMMENTS
RISER ELEVATION (FT)	671.93			R-3: Has 14 readings (temp. log book 7/2/93) Do not know thermocouple tree assembly/installation drawings. Needs field verification
TANK BOTTOM ELEV.(FT)	626.33			
WASTE LEVEL (FT)	7.6			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TEMP. PROBE H-2-34304 ?			
HIGH WASTE TEMP (°F) DATE READ	77° TC #1 7/2/93			
FIELD TEST TEMP DATE READ				
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37381, SHT 2 H-2-73090			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 106-TY

	RISER 2	RISER	RISER #	COMMENTS
RISER ELEVATION (FT)	670.93			Do not know TC tree assembly/installation drawings. Needs field verification. Temp. log book indicates 14 thermocouples on this tree. (7/2/93)
TANK BOTTOM ELEV.(FT)	625.33			
WASTE LEVEL (FT)	1.1			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TEMP. PROBE See comment			
HIGH WASTE TEMP (°F) DATE READ	60° TC #1 7/2/93			
FIELD TEST TEMP DATE READ				
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37381, SHT 2 H-2-73091			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.1057

THERMOCOUPLE STATUS

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THERMOCOUPLE STATUS
TANK 101-U

	RISER 2	RISER 9	RISER	COMMENTS
RISER ELEVATION (FT)	666.96			R-2: Has 11 readings (information from temp. log book) According to Allen Alstad in a cc:mail dated 3/29/93: Probably (H-2-34304) is the TC tree assembly, but don't know the length.
TANK BOTTOM ELEV.(FT)	628.00			
WASTE LEVEL (FT)	1.4			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1		- -		
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE H-2-34304 ? See comment			
HIGH WASTE TEMP (°F) DATE READ	61° TC #1 2/13/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37381, SHT 3 H-2-73145			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.1058

THERMOCOUPLE STATUS
TANK 102-U

	RISER 1	RISER 2	RISER	COMMENTS
RISER ELEVATION (FT)	665.94	665.94		
TANK BOTTOM ELEV. (FT)	627.00	627.00		
WASTE LEVEL (FT)	12.0	12.0		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 1.77 *			
2	@ 3.77 *			
3	@ 5.77 *			
4	@ 7.77*			
5	@ 9.77 *			
6	@ 11.77 *			
7	@ 13.77			
8	@ 15.77			
9	@ 17.77			
10	@ 21.77			
11	@ 25.77			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-37332 H-2-34304, ASSY 1	LOW H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	87° TC #1,2 7/2/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37381, SHT 3 H-2-73149	H-2-37381, SHT 3 H-2-73149		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 103-U

	RISER 1	RISER 19	RISER	COMMENTS
RISER ELEVATION (FT)	664.95	664.60		WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	626.00	626.00		
WASTE LEVEL (FT)	14.8	14.8		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 1.78 *			
2	@ 3.78 *			
3	@ 5.78 *			
4	@ 7.78 *			
5	@ 9.78 *			
6	@ 11.78 *			
7	@ 13.78 *			
8	@ 15.78			
9	@ 17.78			
10	@ 21.78			
11	@ 25.78			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-37332 H-2-34304, ASSY 1	LOW H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	85° TC #2 8/27/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	WEEKLY			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	HYDROGEN SST	HYDROGEN SST		
TANK DWG #	H-2-37381, SHT 3 H-2-73151	H-2-37381, SHT 3 H-2-73151		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 104-U

	RISER	RISER	RISER	COMMENTS
RISER ELEVATION (FT)				No TC tree in this tank
TANK BOTTOM ELEV. (FT)	628.00			
WASTE LEVEL (FT)	4.3			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)				
HIGH WASTE TEMP (°F) DATE READ				
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37381, SHT 3 H-2-73146			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 105-U

	RISER 1	RISER 19	RISER	COMMENTS
RISER ELEVATION (FT)	665.95	665.78		WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	627.00	627.00		
WASTE LEVEL (FT)	13.3	13.3		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 1.78 *			
2	@ 3.78 *			
3	@ 5.78 *			
4	@ 7.78 *			
5	@ 9.78 *			
6	@ 11.78 *			
7	@ 13.78			
8	@ 15.78			
9	@ 17.78			
10	@ 21.78			
11	@ 25.78			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-37332 H-2-34304, ASSY 1	LOW H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	87° TC #3 8/27/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	WEEKLY			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	HYDROGEN SST	HYDROGEN SST		
TANK DWG #	H-2-37381, SHT 3 H-2-73153	H-2-37381, SHT 3 H-2-73153		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.062

THERMOCOUPLE STATUS
TANK 106-U

	RISER 1	RISER 9	RISER	COMMENTS
RISER ELEVATION (FT)	664.85	664.71		WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	626.00	626.00		
WASTE LEVEL (FT)	7.5	7.5		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 1.68 *			
2	@ 3.68 *			
3	@ 5.68 *			
4	@ 7.68			
5	@ 9.68			
6	@ 11.68			
7	@ 13.68			
8	@ 15.68			
9	@ 17.68			
10	@ 21.68			
11	@ 25.68			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-37332 H-2-34304, ASSY 1	LOW H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	78° TC #1,2 8/27/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	WEEKLY			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	ORGANIC SALTS SST	ORGANIC SALTS SST		
TANK DWG #	H-2-37381, SHT 3 H-2-73154	H-2-37381, SHT 3 H-2-73154		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 107-U

	RISER 1	RISER 19	RISER	COMMENTS
RISER ELEVATION (FT)	666.97	666.94		WATCH LIST TANK
TANK BOTTOM ELEV.(FT)	628.00	627.00		
WASTE LEVEL (FT)	12.9	12.9		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 1.80 *			
2	@ 3.80 *			
3	@ 5.80 *			
4	@ 7.80 *			
5	@ 9.80 *			
6	@ 11.80 *			
7	@ 13.80			
8	@ 15.80			
9	@ 17.80			
10	@ 21.80			
11	@ 25.80			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-37332 H-2-34304, ASSY 1	LOW H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	76° TC #2 8/27/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	WEEKLY			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	ORGANIC SALTS SST	ORGANIC SALTS SST		
TANK DWG #	H-2-37381, SHT 3 H-2-73155	H-2-37381, SHT 3 H-2-73155		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.1064

THERMOCOUPLE STATUS
TANK 108-U

	RISER 1	RISER 19	RISER	COMMENTS
RISER ELEVATION (FT)	665.89	665.65		WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	627.00	627.00		
WASTE LEVEL (FT)	14.8	14.8		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 1.72 *			
2	@ 3.72 *			
3	@ 5.72 *			
4	@ 7.72 *			
5	@ 9.72 *			
6	@ 11.72 *			
7	@ 13.72 *			
8	@ 15.72			
9	@ 17.72			
10	@ 21.72			
11	@ 25.72			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-37332 H-2-34304, ASSY 1	LOW H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	94° TC #10 7/17/92			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	WEEKLY			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	HYDROGEN SST	HYDROGEN SST		
TANK DWG #	H-2-37381, SHT 3 H-2-73156	H-2-37381, SHT 3 H-2-73156		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 109-U

	RISER 1	RISER 9	RISER	COMMENTS
RISER ELEVATION (FT)	664.90	664.68		WATCH LIST TANK
TANK BOTTOM ELEV. (FT)	626.00	626.00		
WASTE LEVEL (FT)	14.7	14.7		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 1.73 *			
2	@ 3.73 *			
3	@ 5.73 *			
4	@ 7.73 *			
5	@ 9.73 *			
6	@ 11.73 *			
7	@ 13.73 *			
8	@ 15.73			
9	@ 17.73			
10	@ 21.73			
11	@ 25.73			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-37332 H-2-34304, ASSY 1	LOW H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	82° TC #1-3 8/27/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	WEEKLY			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	HYDROGEN SST	HYDROGEN SST		
TANK DWG #	H-2-37381, SHT 3 H-2-73157	H-2-37381, SHT 3 H-2-73157		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.1066

THERMOCOUPLE STATUS
TANK 110-U

	RISER 1	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	666.93			
TANK BOTTOM ELEV. (FT)	628.00			
WASTE LEVEL (FT)	6.3			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 1.76 *			
2	@ 3.76 *			
3	@ 5.76*			
4	@ 7.76			
5	@ 9.76			
6	@ 11.76			
7	@ 13.76			
8	@ 15.76			
9	@ 17.76			
10	@ 21.76			
11	@ 25.76			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-37332 H-2-34304, ASSY 1			
HIGH WASTE TEMP (°F) DATE READ	72° TC #2 7/2/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37381, SHT 3 H-2-73147			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 111-U

	RISER 5	RISER 19	RISER	COMMENTS
RISER ELEVATION (FT)	665.95	665.70		Tank 111-U will be added to the Watch List Tank
TANK BOTTOM ELEV. (FT)	627.00	627.00		
WASTE LEVEL (FT)	10.6	10.6		
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	@ 1.78 *			
2	@ 3.78 *			
3	@ 5.78 *			
4	@ 7.78 *			
5	@ 9.78 *			
6	@ 11.78			
7	@ 13.78			
8	@ 15.78			
9	@ 17.78			
10	@ 21.78			
11	@ 25.78			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE J H-2-37332 H-2-34304, ASSY 1	LOW H-2-93715		
HIGH WASTE TEMP (°F) DATE READ	77° TC #2,3 8/27/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Partially Isolated Interim SST			
TANK DWG #	H-2-37381, SHT 3 H-2-73158	H-2-37381, SHT 3 H-2-73158		
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.0068

THERMOCOUPLE STATUS
TANK 112-U

	RISER 5	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	664.94			TC tree in Riser 5 has 11 TCs.
TANK BOTTOM ELEV. (FT)	626.00			
WASTE LEVEL (FT)	2.1			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1	a			
2	a			
3	a			
4	a			
5	a			
6	a			
7	a			
8	a			
9	a			
10	a			
11	a			
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE			
HIGH WASTE TEMP (°F) DATE READ	61° TC #1 7/2/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	Assumed Leaker IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-37381, SHT 3 H-2-73148			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 201-U

	RISER 4	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	664.96			Do not know for sure the TC tree assembly/installation drawings for this tank. Temp. log book indicates 11 elements. Needs field verification to determine TC elevations.
TANK BOTTOM ELEV. (FT)	628.00			
WASTE LEVEL (FT)	2.4			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TEMP. PROBE			
HIGH WASTE TEMP (°F) DATE READ	66° TC #1 11/5/92			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-73159			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

9413276.1070

THERMOCOUPLE STATUS
TANK 202-U

	RISER 4	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	664.96			Do not know for sure the TC tree assembly/installation. Needs field verification.
TANK BOTTOM ELEV. (FT)	627.00			
WASTE LEVEL (FT)	2.4			Based on Temp. Log Book, this tree has 11 elements.
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TEMP. PROBE			
HIGH WASTE TEMP (°F) DATE READ	59° TC #1 7/2/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-73160			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 203-U

	RISER 4	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	664.96			Do not know the TC tree assembly/installation drawings. Needs field verification
TANK BOTTOM ELEV. (FT)	628.00			
WASTE LEVEL (FT)	1.5			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TREE			
HIGH WASTE TEMP (°F) DATE READ	See comment			TC #1-7: out of service. Last temp. reading 59° F for TC #8-10, 58°F for TC #11 (reading on 2/13/93)
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING				
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-73161			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

THERMOCOUPLE STATUS
TANK 204-U

	RISER 4	RISER	RISER	COMMENTS
RISER ELEVATION (FT)	664.97			Do not know TC tree assembly/installation drawings. Needs field verification Temp. log book indicates 16 readings (16 TCs) on 7/2/93
TANK BOTTOM ELEV. (FT)	627.00			
WASTE LEVEL (FT)	1.5			
CONDITION[1] @ ELEV.[2] (FT) FOR T/C No. 1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
(TREE,PROBE, LOW,MIT ; TYPE TC)	TEMP. PROBE See comment			
HIGH WASTE TEMP (°F) DATE READ	80° TC #2 7/2/93			
FIELD TEST TEMP (°F) DATE READ				
FREQ. OF MONITORING	Semiannually			
DATA ACQ. CODE/COND				
CATEGORY OF TANK	IS/II SST			IS: Interim Stabilized II: Interim Isolated
TANK DWG #	H-2-73162			
FIELD VERIFIED REPAIRED				

1. CONDITION CODE

G = Good
A = Acceptable
M = Marginal
F = Failed

* Means T/C in waste

2. Elevation relative to tank center bottom

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THERMOCOUPLE STATUS

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DOUBLE SHELL TANKS

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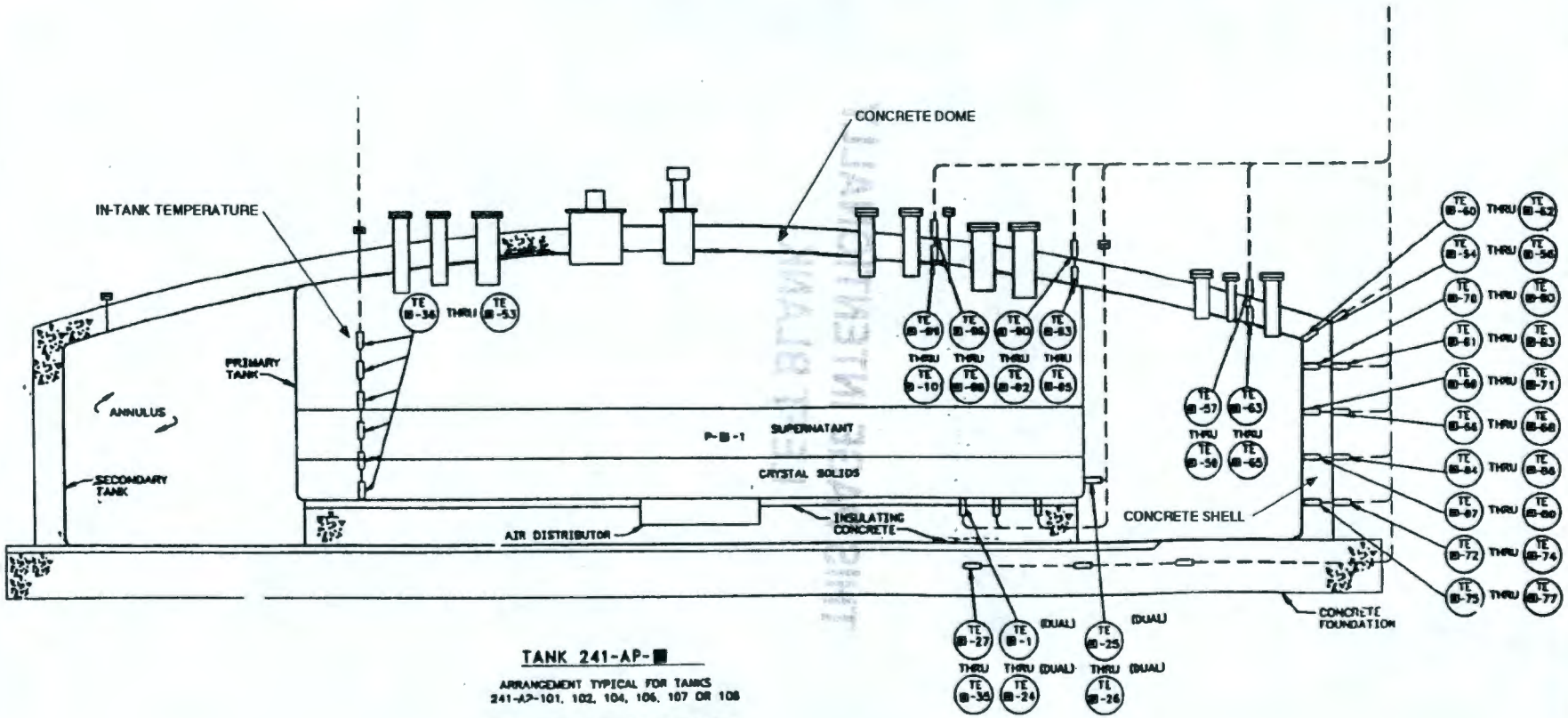
Double-Shell Tank Configuration



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THERMOCOUPLE STATUS

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1. TANK 101-AN INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-101-AN-1	7.0'/NW	19A	668.75'	_____	
TE-101-AN-2	7.0'/NE	19B	668.75'	_____	
TE-101-AN-3	7.0'/SE	19D	668.75'	67.5	Field test temp.
TE-101-AN-4	7.0'/SW	19E	668.75'	_____	Reading date 4/6/93
TE-101-AN-5	21.0'/NW	19F	668.75'	_____	by Arvid Wikstrand
TE-101-AN-6	21.0'/NW	19A		_____	
TE-101-AN-7	21.0'/NE	19B		_____	
TE-101-AN-8	21.0'/NE	19C	668.75'	_____	
TE-101-AN-9	21.0'/SE	19C		_____	
TE-101-AN-10	21.0'/SE	19D		68.7	
TE-101-AN-11	21.0'/SW	19E		_____	
TE-101-AN-12	21.0'/SW	19F		_____	
TE-101-AN-13	36.5'/NW	19F		_____	
TE-101-AN-14	36.5'/NW	19A		_____	
TE-101-AN-15	36.5'/NW	19A		_____	
TE-101-AN-16	36.5'/NE	19B		_____	
TE-101-AN-17	36.5'/NE	19B		_____	
TE-101-AN-18	36.5'/NE	19C		_____	
TE-101-AN-19	36.5'/SE	19C		_____	
TE-101-AN-20	36.5'/SE	19D		67.4	
TE-101-AN-21	36.5'/SE	19D		_____	
TE-101-AN-22	36.5'/SW	19E		_____	
TE-101-AN-23	36.5'/SW	19E		_____	
TE-101-AN-24	36.5'/SW	19F		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71941, H-2-71944, H-2-71949
B-130-C7 , SD-RE-TI-093
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 19.32'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1077

2. TANK 101-AN OUTSIDE PRIMARY TANK WALL TEMPERATURES (OR TANK KNUCKLE TEMP.)

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-101-AN-25	37.5'/SW	19F	668.75'	_____	
TE-101-AN-26	37.5'/NE	19C	668.75'	_____	

3. TANK 101-AN CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-101-AN-27	4.0'/SE	19D	668.75'	_____	
TE-101-AN-28	4.0'/NE	19B	668.75'	_____	
TE-101-AN-29	4.0'/SW	19F	668.75'	_____	
TE-101-AN-30	21.0'/SE	19D		_____	
TE-101-AN-31	21.0'/NE	19B		_____	
TE-101-AN-32	21.0'/SW	19F		_____	
TE-101-AN-33	38.0'/SE	19D		_____	
TE-101-AN-34	38.0'/NE	19B		_____	
TE-101-AN-35	38.0'/SW	19F		_____	

9413276.1079

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71940, H-2-71944, H-2-71949
B-130-C7
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 19.32'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

4. TANK 101-AN IN-TANK TEMPERATURES

ag Number / hermocouple Number	Elevation[1] (Ft)	Temp. °F	Comment
TE-101-AN-36 (TC #1)	0.33*	71.0 °F	- Assuming that TC #1 is
TE-101-AN-37 (TC #2)	2.33*	57.5 °F	is located approximately
TE-101-AN-38 (TC #3)	4.33*	71.2 °F	4" above tank bottom
TE-101-AN-39 (TC #4)	6.33*	71.5 °F	center.
TE-101-AN-40 (TC #5)	8.33*	71.8 °F	
TE-101-AN-41 (TC #6)	10.33*	71.7 °F	- TC tree is located in
TE-101-AN-42 (TC #7)	12.33*	71.7 °F	Riser 4A.
TE-101-AN-43 (TC #8)	14.33*	72.0 °F	-Field test temp. reading
TE-101-AN-44 (TC #9)	16.33*	70.6 °F	Reading date: 4/6/93 by
TE-101-AN-45 (TC #10)	18.33*	67.0 °F	A. Wikstrand
TE-101-AN-46 (TC #11)	20.33	66.2 °F	
TE-101-AN-47 (TC #12)	22.33	66.4 °F	
TE-101-AN-48 (TC #13)	24.33	66.4 °F	
TE-101-AN-49 (TC #14)	26.33	66.5 °F	
E-101-AN-50 (TC #15)	28.33	66.6 °F	
E-101-AN-51 (TC #16)	30.33	66.4 °F	
E-101-AN-52 (TC #17)	34.33	66.3 °F	
TE-101-AN-53 (TC #18)	38.33	66.0 °F	

Type of Thermocouple : TREE, Chromel-constantan (Type E)
Drawing Number : H-2-34304, H-2-71949, H-2-71944
High Waste Temperature (at TC #) : 72 °F (TC #8)
Date Read : 4/6/93
Riser Elevation (R-4A) : 668.75'
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 19.32'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual (and TMACS by 8/30/93)

* Means TC in waste
. Elevation relative to tank center bottom.

5. TANK 101-AN CONCRETE DOME & CONCRETE SHELL TEMPERATURE

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-101-AN-54	/NE	19F	668.75'	66.9 °F	Field test temp. reading
TE-101-AN-57	/NE	19F		_____	date:4/6/93 by A. Wikstrand
TE-101-AN-60	/NE	19F		67.9 °F	
TE-101-AN-63	/NE	19F		_____	
TE-101-AN-66	/NE	19F		_____	
TE-101-AN-69	/NE	19F		_____	
TE-101-AN-72	/NE	19F		_____	
TE-101-AN-75	/NE	19F		_____	
TE-101-AN-78	/NE	19F		_____	
TE-101-AN-81	/NE	19F		_____	
TE-101-AN-84	/NE	19F		_____	
TE-101-AN-87	/NE	19F		_____	
TE-101-AN-90	/NE	19F		_____	
TE-101-AN-93	/NE	19F		_____	
TE-101-AN-96	/NE	19F		_____	
TE-101-AN-99	/NE	19F		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71942, H-2-71944, H-2-71949
B-130-C5
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 19.32'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual (and TMACS by 8/30/93)

5. TANK 101-AN CONCRETE DOME & CONCRETE SHELL TEMPERATURE (CONTINUE)

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-101-AN-55	/SW	19B	668.75'	_____	
TE-101-AN-58	/SW	19B		_____	
TE-101-AN-61	/SW	19B		_____	
TE-101-AN-64	/SW	19B		_____	
TE-101-AN-67	/SW	19B		_____	
TE-101-AN-70	/SW	19B		_____	
TE-101-AN-73	/SW	19B		_____	
TE-101-AN-76	/SW	19B		_____	
TE-101-AN-79	/SW	19B		_____	
TE-101-AN-82	/SW	19B		_____	
TE-101-AN-85	/SW	19B		_____	
TE-101-AN-88	/SW	19B		_____	
TE-101-AN-91	/SW	19B		_____	
TE-101-AN-94	/SW	19B		_____	
E-101-AN-97	/SW	19B		_____	
E-101-AN-100	/SW	19B		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71942, H-2-71944, H-2-71949
B-130-C5
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 19.32'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

5. TANK 101-AN CONCRETE DOME & CONCRETE SHELL TEMPERATURE (CONTINUE)

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-101-AN-56	/NW	19D	668.75'	_____	
TE-101-AN-59	/NW	19D		_____	
TE-101-AN-62	/NW	19D		_____	
TE-101-AN-65	/NW	19D		_____	
TE-101-AN-68	/NW	19D		_____	
TE-101-AN-71	/NW	19D		_____	
TE-101-AN-74	/NW	19D		68.7 °F	-Temp. reading
TE-101-AN-77	/NW	19D		68.1 °F	date:4/6/93 by A. Wikstrand
TE-101-AN-80	/NW	19D		65.9 °F	
TE-101-AN-83	/NW	19D		64 °F	
TE-101-AN-86	/NW	19D		_____	
TE-101-AN-89	/NW	19D		_____	
TE-101-AN-92	/NW	19D		_____	
TE-101-AN-95	/NW	19D		_____	
TE-101-AN-98	/NW	19D		_____	
TE-101-AN-101	/NW	19D		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71942, H-2-71944, H-2-71949
B-130-C5
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 19.32'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual (and TMACS by 8/30/93)

1. TANK 102-AN INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-102-AN-1	7.0'/NW	19A	668.75'	_____	
TE-102-AN-2	7.0'/NE	19B	668.75'	_____	
TE-102-AN-3	7.0'/SE	19D	668.75'	98.8 °F	Temp. reading
TE-102-AN-4	7.0'/SW	19E	668.75'	_____	date:4/5/93
TE-102-AN-5	21.0'/NW	19F	668.75'	_____	by A. Wikstrand
TE-102-AN-6	21.0'/NW	19A		_____	
TE-102-AN-7	21.0'/NE	19B		_____	
TE-102-AN-8	21.0'/NE	19C	668.75'	_____	
TE-102-AN-9	21.0'/SE	19C		_____	
TE-102-AN-10	21.0'/SE	19D		99.6 °F	
TE-102-AN-11	21.0'/SW	19E		_____	
TE-102-AN-12	21.0'/SW	19F		_____	
TE-102-AN-13	36.5'/NW	19F		_____	
TE-102-AN-14	36.5'/NW	19A		_____	
TE-102-AN-15	36.5'/NW	19A		_____	
TE-102-AN-16	36.5'/NE	19B		_____	
TE-102-AN-17	36.5'/NE	19B		_____	
TE-102-AN-18	36.5'/NE	19C		_____	
TE-102-AN-19	36.5'/SE	19C		_____	
TE-102-AN-20	36.5'/SE	19D		97.1 °F	
TE-102-AN-21	36.5'/SE	19D		_____	
TE-102-AN-22	36.5'/SW	19E		_____	
TE-102-AN-23	36.5'/SW	19E		_____	
TE-102-AN-24	36.5'/SW	19F		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71941, H-2-71944, H-2-71949
B-130-C7 , SD-RE-TI-093
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 33.09'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1083

2. TANK 102-AN OUTSIDE PRIMARY TANK WALL TEMPERATURES (OR TANK KNUCKLE TEMP.)

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-102-AN-25	37.5'/SW	19F	668.75'	_____	
TE-102-AN-26	37.5'/NE	19C	668.75'	_____	

3. TANK 102-AN CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-102-AN-27	4.0'/SE	19D	668.75'	_____	
TE-102-AN-28	4.0'/NE	19B	668.75'	_____	
TE-102-AN-29	4.0'/SW	19F	668.75'	_____	
TE-102-AN-30	21.0'/SE	19D		_____	
TE-102-AN-31	21.0'/NE	19B		_____	
TE-102-AN-32	21.0'/SW	19F		_____	
TE-102-AN-33	38.0'/SE	19D		_____	
TE-102-AN-34	38.0'/NE	19B		_____	
TE-102-AN-35	38.0'/SW	19F		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71940, H-2-71944, H-2-71949
B-130-C7
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 33.09'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1084

4. TANK 102-AN IN-TANK TEMPERATURES

Tag Number / Thermocouple Number	Elevation[1] (Ft)	Temp. °F	Comment
TE-102-AN-36 (#1)	0.33*	106.0 °F	- Assuming that TC #1 is
TE-102-AN-37 (#2)	2.33*	108.5 °F	is located approximately
TE-102-AN-38 (#3)	4.33*	107.3 °F	4" above tank bottom
TE-102-AN-39 (#4)	6.33*	106.0 °F	center.
TE-102-AN-40 (#5)	8.33*	106.1 °F	
TE-102-AN-41 (#6)	10.33*	106.4 °F	-TC tree is located in
TE-102-AN-42 (#7)	12.33*	106.4 °F	Riser 4A.
TE-102-AN-43 (#8)	14.33*	106.2 °F	-Temp. reading date:
TE-102-AN-44 (#9)	16.33*	106.4 °F	4/5/93 by A. Wikstrand
TE-102-AN-45 (#10)	18.33*	106.4 °F	
TE-102-AN-46 (#11)	20.33*	106.6 °F	
TE-102-AN-47 (#12)	22.33*	106.5 °F	
TE-102-AN-48 (#13)	24.33*	106.6 °F	
TE-102-AN-49 (#14)	26.33*	107.4 °F	
TE-102-AN-50 (#15)	28.33*	107.4 °F	
TE-102-AN-51 (#16)	30.33*	94.6 °F	
TE-102-AN-52 (#17)	34.33	85.2 °F	
TE-102-AN-53 (#18)	38.33	85.6 °F	

Type of Thermocouple : TREE, Chromel-constantan (Type E)
Drawing Number : H-2-34304, H-2-71949, H-2-71944
High Waste Temperature (at TC #) : 108.5 °F (TC #2)
Date Read : 4/5/93
Riser Elevation (R-4A) : 668.75'
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 33.09'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual (and TMACS by 8/30/93)

* Means TC in waste
1. Elevation relative to tank center bottom.

9413276.1085

5. TANK 102-AN CONCRETE DOME & CONCRETE SHELL TEMPERATURE

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-102-AN-54	/SW	19F	668.75'	85 °F	-Temp. reading
TE-102-AN-57	/SW	19F		_____	date:4/5/93 by
TE-102-AN-60	/SW	19F		91.7 °F	A. Wikstrand
TE-102-AN-63	/SW	19F		_____	
TE-102-AN-66	/SW	19F		_____	
TE-102-AN-69	/SW	19F		_____	
TE-102-AN-72	/SW	19F		_____	
TE-102-AN-75	/SW	19F		_____	
TE-102-AN-78	/SW	19F		_____	
TE-102-AN-81	/SW	19F		_____	
TE-102-AN-84	/SW	19F		_____	
TE-102-AN-87	/SW	19F		_____	
TE-102-AN-90	/SW	19F		_____	
TE-102-AN-93	/SW	19F		_____	
TE-102-AN-96	/SW	19F		_____	
TE-102-AN-99	/SW	19F		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71942, H-2-71944, H-2-71949
B-130-C5
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 33.09'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1086

5. TANK 102-AN CONCRETE DOME & CONCRETE SHELL TEMPERATURE (CONTINUE)

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-102-AN-55	/NE	19B	668.75'	_____	
TE-102-AN-58	/NE	19B		_____	
TE-102-AN-61	/NE	19B		_____	
TE-102-AN-64	/NE	19B		_____	
TE-102-AN-67	/NE	19B		_____	
TE-102-AN-70	/NE	19B		_____	
TE-102-AN-73	/NE	19B		_____	
TE-102-AN-76	/NE	19B		_____	
TE-102-AN-79	/NE	19B		_____	
TE-102-AN-82	/NE	19B		_____	
TE-102-AN-85	/NE	19B		_____	
TE-102-AN-88	/NE	19B		_____	
TE-102-AN-91	/NE	19B		_____	
TE-102-AN-94	/NE	19B		_____	
TE-102-AN-97	/NE	19B		_____	
TE-102-AN-100	/NE	19B		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71942, H-2-71944, H-2-71949
B-130-C5
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 33.09'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1087

5. TANK 102-AN CONCRETE DOME & CONCRETE SHELL TEMPERATURE (CONTINUE)

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-102-AN-56	/SE	19D	668.75'	_____	
TE-102-AN-59	/SE	19D		_____	
TE-102-AN-62	/SE	19D		_____	
TE-102-AN-65	/SE	19D		_____	
TE-102-AN-68	/SE	19D		_____	
TE-102-AN-71	/SE	19D		_____	
TE-102-AN-74	/SE	19D		94.0 °F	-Temp. reading
TE-102-AN-77	/SE	19D		95.3 °F	date:4/5/93
TE-102-AN-80	/SE	19D		96.9 °F	by A. Wikstrand
TE-102-AN-83	/SE	19D		69.5 °F	
TE-102-AN-86	/SE	19D		_____	
TE-102-AN-89	/SE	19D		_____	
TE-102-AN-92	/SE	19D		_____	
TE-102-AN-95	/SE	19D		_____	
TE-102-AN-98	/SE	19D		_____	
TE-102-AN-101	/SE	19D		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71942, H-2-71944, H-2-71949
B-130-C5
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 33.09'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual (and TMACS by 8/30/93)

9413276.1088

1. TANK 103-AN INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-103-AN-1	7.0'/SE	19A	668.75'	_____	-Watch list tank
TE-103-AN-2	7.0'/SW	19B	668.75'	_____	
TE-103-AN-3	7.0'/NW	19D	668.75'	103.4 °F	-Temp. reading
TE-103-AN-4	7.0'/NE	19E	668.75'	_____	date 4/5/93
TE-103-AN-5	21.0'/SE	19F	668.75'	_____	by A. Wikstrand
TE-103-AN-6	21.0'/SE	19A		_____	
TE-103-AN-7	21.0'/SW	19B		_____	
TE-103-AN-8	21.0'/SW	19C	668.75'	_____	
TE-103-AN-9	21.0'/NW	19C		_____	
TE-103-AN-10	21.0'/NW	19D		107.4 °F	
TE-103-AN-11	21.0'/NE	19E		_____	
TE-103-AN-12	21.0'/NE	19F		_____	
TE-103-AN-13	36.5'/SE	19F		_____	
TE-103-AN-14	36.5'/SE	19A		_____	
TE-103-AN-15	36.5'/SE	19A		_____	
TE-103-AN-16	36.5'/SW	19B		_____	
TE-103-AN-17	36.5'/SW	19B		_____	
TE-103-AN-18	36.5'/SW	19C		_____	
TE-103-AN-19	36.5'/NW	19C		_____	
TE-103-AN-20	36.5'/NW	19D		99.1 °F	
TE-103-AN-21	36.5'/NW	19D		_____	
TE-103-AN-22	36.5'/NE	19E		_____	
TE-103-AN-23	36.5'/NE	19E		_____	
TE-103-AN-24	36.5'/NE	19F		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71941, H-2-71944, H-2-71949
B-130-C7 , SD-RE-TI-093
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 28.85'
Frequency of Monitoring :
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition :

9413276.1089

2. TANK 103-AN OUTSIDE PRIMARY TANK WALL TEMPERATURES (OR TANK KNUCLE TEMP.)

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-103-AN-25	37.5'/NE	19F	668.75'	_____	-Watch list tank
TE-103-AN-26	37.5'/SW	19C	668.75'	_____	

3. TANK 103-AN CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-103-AN-27	4.0'/SE	19D	668.75'	_____	
TE-103-AN-28	4.0'/NE	19B	668.75'	_____	
TE-103-AN-29	4.0'/SW	19F	668.75'	_____	
TE-103-AN-30	21.0'/SE	19D		_____	
TE-103-AN-31	21.0'/NE	19B		_____	
TE-103-AN-32	21.0'/SW	19F		_____	
TE-103-AN-33	38.0'/SE	19D		_____	
TE-103-AN-34	38.0'/NE	19B		_____	
TE-103-AN-35	38.0'/SW	19F		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71940, H-2-71944, H-2-71949
B-130-C7
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 28.85'
Frequency of Monitoring :
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition :

9413276.1090

4. TANK 103-AN IN-TANK TEMPERATURES

Tag Number / Thermocouple Number	Elevation[1] (Ft)	Temp. °F	Comment
TE-103-AN-36 (#1)	0.33*	116.5 °F	- Assuming that TC #1 is
TE-103-AN-37 (#2)	2.33*	122.9 °F	is located approximately
TE-103-AN-38 (#3)	4.33*	126.5 °F	4" above tank bottom
TE-103-AN-39 (#4)	6.33*	127.8 °F	center.
TE-103-AN-40 (#5)	8.33*	126.1 °F	
TE-103-AN-41 (#6)	10.33*	122.0 °F	- TC tree is located in
TE-103-AN-42 (#7)	12.33*	121.9 °F	Riser 4A.
TE-103-AN-43 (#8)	14.33*	121.4 °F	- Temp. reading date
TE-103-AN-44 (#9)	16.33*	121.7 °F	4/5/93 by A. Wikstrand
TE-103-AN-45 (#10)	18.33*	121.9 °F	
TE-103-AN-46 (#11)	20.33*	121.9 °F	
TE-103-AN-47 (#12)	22.33*	122.2 °F	
TE-103-AN-48 (#13)	24.33*	122.0 °F	
TE-103-AN-49 (#14)	26.33*	112.8 °F	
TE-103-AN-50 (#15)	28.33*	96.3 °F	
TE-103-AN-51 (#16)	30.33	93.0 °F	
TE-103-AN-52 (#17)	34.33	93.4 °F	
TE-103-AN-53 (#18)	38.33	94.0 °F	

Type of Thermocouple : TREE, Chromel-constantan (Type E)
Drawing Number : H-2-34304, H-2-71949, H-2-71944
High Waste Temperature (at TC #) : 127.8 °F (TC #4)
Date Read : 4/5/93
Riser Elevation (R-4A) : 668.75'
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 28.85'
Frequency of Monitoring : Weekly
Category : Hydrogen, Watch list tank , DST
Data Acq. Code/Condition : Manual (and TMACS by 8/30/93)

* Means TC in waste
1. Elevation relative to tank center bottom

9413276.1091

5. TANK 103-AN CONCRETE DOME & CONCRETE SHELL TEMPERATURE

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-103-AN-54	/SW	19F	668.75'	87.9 °F	-Temp. reading
TE-103-AN-57	/SW	19F		_____	date: 4/5/93
TE-103-AN-60	/SW	19F		94.5 °F	by A. Wikstrand
TE-103-AN-63	/SW	19F		_____	
TE-103-AN-66	/SW	19F		_____	
TE-103-AN-69	/SW	19F		_____	
TE-103-AN-72	/SW	19F		_____	
TE-103-AN-75	/SW	19F		_____	
TE-103-AN-78	/SW	19F		_____	
TE-103-AN-81	/SW	19F		_____	
TE-103-AN-84	/SW	19F		_____	
TE-103-AN-87	/SW	19F		_____	
TE-103-AN-90	/SW	19F		_____	
TE-103-AN-93	/SW	19F		_____	
TE-103-AN-96	/SW	19F		_____	
TE-102-AN-99	/SW	19F		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71942, H-2-71944, H-2-71949
B-130-C5
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 28.85'
Frequency of Monitoring : Weekly
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition : Manual (and TMACS by 8/30/93)

9413276.1092

5. TANK 103-AN CONCRETE DOME & CONCRETE SHELL TEMPERATURE (CONTINUE)

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-103-AN-55	/NE	19B	668.75'	_____	-Watch list tank
TE-103-AN-58	/NE	19B		_____	
TE-103-AN-61	/NE	19B		_____	
TE-103-AN-64	/NE	19B		_____	
TE-103-AN-67	/NE	19B		_____	
TE-103-AN-70	/NE	19B		_____	
TE-103-AN-73	/NE	19B		_____	
TE-103-AN-76	/NE	19B		_____	
TE-103-AN-79	/NE	19B		_____	
TE-103-AN-82	/NE	19B		_____	
TE-103-AN-85	/NE	19B		_____	
TE-103-AN-88	/NE	19B		_____	
TE-103-AN-91	/NE	19B		_____	
TE-103-AN-94	/NE	19B		_____	
TE-103-AN-97	/NE	19B		_____	
TE-103-AN-100	/NE	19B		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71942, H-2-71944, H-2-71949
B-130-C5
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 28.85'
Frequency of Monitoring :
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition :

9413276.1093

5. TANK 103-AN CONCRETE DOME & CONCRETE SHELL TEMPERATURE (CONTINUE)

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-103-AN-56	/SE	19D	668.75'	_____	-Watch list tank
TE-103-AN-59	/SE	19D		_____	
TE-103-AN-62	/SE	19D		_____	
TE-103-AN-65	/SE	19D		_____	
TE-103-AN-68	/SE	19D		_____	
TE-103-AN-71	/SE	19D		_____	
TE-103-AN-74	/SE	19D		95.4 °F	-Temp. reading
TE-103-AN-77	/SE	19D		96.4 °F	date 4/5/93
TE-103-AN-80	/SE	19D		96.3 °F	by A. Wikstrand
TE-103-AN-83	/SE	19D		95.4 °F	
TE-103-AN-86	/SE	19D		_____	
TE-103-AN-89	/SE	19D		_____	
TE-103-AN-92	/SE	19D		_____	
TE-103-AN-95	/SE	19D		_____	
TE-103-AN-98	/SE	19D		_____	
TE-103-AN-101	/SE	19D		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71942, H-2-71944, H-2-71949
B-130-C5
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 28.85'
Frequency of Monitoring : Weekly
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition : Manual (and TMACS by 8/30/93)

9413276.1094

1. TANK 104-AN INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-104-AN-1	7.0'/NW	19A	668.75'	_____	-Watch list tank
TE-104-AN-2	7.0'/NE	19B	668.75'	_____	
TE-104-AN-3	7.0'/SE	19D	668.75'	111.5 °F	-Temp. reading
TE-104-AN-4	7.0'/SW	19E	668.75'	_____	date: 4/2/93
TE-104-AN-5	21.0'/NW	19F	668.75'	_____	by A. Wikstrand
TE-104-AN-6	21.0'/NW	19A		_____	
TE-104-AN-7	21.0'/NE	19B		_____	
TE-104-AN-8	21.0'/NE	19C	668.75'	_____	
TE-104-AN-9	21.0'/SE	19C		_____	
TE-104-AN-10	21.0'/SE	19D		118.2 °F	
TE-104-AN-11	21.0'/SW	19E		_____	
TE-104-AN-12	21.0'/SW	19F		_____	
TE-104-AN-13	36.5'/NW	19F		_____	
TE-104-AN-14	36.5'/NW	19A		_____	
TE-104-AN-15	36.5'/NW	19A		_____	
TE-104-AN-16	36.5'/NE	19B		_____	
TE-104-AN-17	36.5'/NE	19B		_____	
TE-104-AN-18	36.5'/NE	19C		_____	
TE-104-AN-19	36.5'/SE	19C		_____	
TE-104-AN-20	36.5'/SE	19D		55.3 °F	
TE-104-AN-21	36.5'/SE	19D		_____	
TE-104-AN-22	36.5'/SW	19E		_____	
TE-104-AN-23	36.5'/SW	19E		_____	
TE-104-AN-24	36.5'/SW	19F		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71941, H-2-71945, H-2-71949
B-130-C7 , SD-RE-TI-093
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 32.21'
Frequency of Monitoring :
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition :

9413276.1095

2. TANK 104-AN OUTSIDE PRIMARY TANK WALL TEMPERATURES (OR TANK KNUCLE TEMP.)

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-104-AN-25	37.5'/SW	19F	668.75'	_____	-Watch list tank
TE-104-AN-26	37.5'/NE	19C	668.75'	_____	

3. TANK 104-AN CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-104-AN-27	4.0'/SE	19D	668.75'	_____	
TE-104-AN-28	4.0'/NE	19B	668.75'	_____	
TE-104-AN-29	4.0'/SW	19F	668.75'	_____	
TE-104-AN-30	21.0'/SE	19D		_____	
TE-104-AN-31	21.0'/NE	19B		_____	
TE-104-AN-32	21.0'/SW	19F		_____	
TE-104-AN-33	38.0'/SE	19D		_____	
TE-104-AN-34	38.0'/NE	19B		_____	
TE-104-AN-35	38.0'/SW	19F		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71940, H-2-71945, H-2-71949
B-130-C7
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 32.21'
Frequency of Monitoring :
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition :

9413276.1096

4. TANK 104-AN IN-TANK TEMPERATURES

Tag Number / Thermocouple Number	Elevation[1] (Ft)	Temp. °F	Comment
TE-104-AN-36 (#1)	0.33*	124.4 °F	-Watch list tank
TE-104-AN-37 (#2)	2.33*	130.1 °F	
TE-104-AN-38 (#3)	4.33*	135.1 °F	
TE-104-AN-39 (#4)	6.33*	136.2 °F	-Assuming that TC #1 is
TE-104-AN-40 (#5)	8.33*	133.4 °F	located approximately 4"
TE-104-AN-41 (#6)	10.33*	127.4 °F	above tank bottom center
TE-104-AN-42 (#7)	12.33*	117.6 °F	
TE-104-AN-43 (#8)	14.33*	115.5 °F	
TE-104-AN-44 (#9)	16.33*	116.2 °F	- TC tree is located in
TE-104-AN-45 (#10)	18.33*	115.2 °F	Riser 4A
TE-104-AN-46 (#11)	20.33*	115.4 °F	-Temp. reading
TE-104-AN-47 (#12)	22.33*	115.3 °F	date 4/2/93
TE-104-AN-48 (#13)	24.33*	115.4 °F	by A. Wikstrand
TE-104-AN-49 (#14)	26.33*	115.6 °F	
TE-104-AN-50 (#15)	28.33*	116.0 °F	
TE-104-AN-51 (#16)	30.33*	115.1 °F	
TE-104-AN-52 (#17)	34.33	103.8 °F	
TE-104-AN-53 (#18)	38.33	103.5 °F	

Type of Thermocouple : TREE, Chromel-constantan (Type E)
Drawing Number : H-2-34304, H-2-71949, H-2-71945
High Waste Temperature (at TC #) : 136.2 °F (TC #4)
Date Read : 4/2/93
Riser Elevation (R-4A) : 668.75'
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 32.21'
Frequency of Monitoring : Weekly
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition : Manual (and TMACS in future)

* Means TC in waste
1. Elevation relative to tank center bottom

9413276.1097

5. TANK 104-AN CONCRETE DOME & CONCRETE SHELL TEMPERATURE

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-104-AN-54	/NE	19F	668.75'	97.0 °F	-Watch list tank
TE-104-AN-57	/NE	19F		_____	
TE-104-AN-60	/NE	19F		103.6 °F	-Temp. reading
TE-104-AN-63	/NE	19F		_____	date: 4/2/93
TE-104-AN-66	/NE	19F		_____	by A. Wikstrand
TE-104-AN-69	/NE	19F		_____	
TE-104-AN-72	/NE	19F		_____	
TE-104-AN-75	/NE	19F		_____	
TE-104-AN-78	/NE	19F		_____	
TE-104-AN-81	/NE	19F		_____	
TE-104-AN-84	/NE	19F		_____	
TE-104-AN-87	/NE	19F		_____	
TE-104-AN-90	/NE	19F		_____	
TE-104-AN-93	/NE	19F		_____	
TE-104-AN-96	/NE	19F		_____	
TE-104-AN-99	/NE	19F		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71942, H-2-71945, H-2-71949
B-130-C5
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 32.21'
Frequency of Monitoring : Weekly
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition : Manual (and TMACS by 8/30/93)

9413276.1098

5. TANK 104-AN CONCRETE DOME & CONCRETE SHELL TEMPERATURE (CONTINUE)

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-104-AN-55	/SW	19B	668.75'	_____	-Watch list tank
TE-104-AN-58	/SW	19B		_____	
TE-104-AN-61	/SW	19B		_____	
TE-104-AN-64	/SW	19B		_____	
TE-104-AN-67	/SW	19B		_____	
TE-104-AN-70	/SW	19B		_____	
TE-104-AN-73	/SW	19B		_____	
TE-104-AN-76	/SW	19B		_____	
TE-104-AN-79	/SW	19B		_____	
TE-104-AN-82	/SW	19B		_____	
TE-104-AN-85	/SW	19B		_____	
TE-104-AN-88	/SW	19B		_____	
TE-104-AN-91	/SW	19B		_____	
TE-104-AN-94	/SW	19B		_____	
TE-104-AN-97	/SW	19B		_____	
TE-104-AN-100	/SW	19B		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71942, H-2-71945, H-2-71949
B-130-C5
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 32.21'
Frequency of Monitoring :
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition :

9413276.1099

5. TANK 104-AN CONCRETE DOME & CONCRETE SHELL TEMPERATURE (CONTINUE)

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-104-AN-56	/NW	19D	668.75'	_____	-Watch list tank
TE-104-AN-59	/NW	19D		_____	
TE-104-AN-62	/NW	19D		_____	
TE-104-AN-65	/NW	19D		_____	
TE-104-AN-68	/NW	19D		_____	
TE-104-AN-71	/NW	19D		_____	
TE-104-AN-74	/NW	19D		101.5 °F	-Temp. reading
TE-104-AN-77	/NW	19D		102.6 °F	date: 4/2/93
TE-104-AN-80	/NW	19D		105.1 °F	by A. Wikstrand
TE-104-AN-83	/NW	19D		104.2 °F	
TE-104-AN-86	/NW	19D		_____	
TE-104-AN-89	/NW	19D		_____	
TE-104-AN-92	/NW	19D		_____	
TE-104-AN-95	/NW	19D		_____	
TE-104-AN-98	/NW	19D		_____	
TE-104-AN-101	/NW	19D		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71942, H-2-71945, H-2-71949
B-130-C5
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 32.21'
Frequency of Monitoring : Weekly
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition : Manual (and TMACS by 8/30/93)

9413276.1100

1. TANK 105-AN INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-105-AN-1	7.0'/NW	19A	668.75'	_____	-Watch list tank
TE-105-AN-2	7.0'/NE	19B	668.75'	_____	
TE-105-AN-3	7.0'/SE	19D	668.75'	98.4 °F	Temp. reading
TE-105-AN-4	7.0'/SW	19E	668.75'	_____	date 4/2/93
TE-105-AN-5	21.0'/NW	19F	668.75'	_____	by A. Wikstrand
TE-105-AN-6	21.0'/NW	19A		_____	
TE-105-AN-7	21.0'/NE	19B		_____	
TE-105-AN-8	21.0'/NE	19C	668.75'	_____	
TE-105-AN-9	21.0'/SE	19C		_____	
TE-105-AN-10	21.0'/SE	19D		102.4 °F	
TE-105-AN-11	21.0'/SW	19E		_____	
TE-105-AN-12	21.0'/SW	19F		_____	
TE-105-AN-13	36.5'/NW	19F		_____	
TE-105-AN-14	36.5'/NW	19A		_____	
TE-105-AN-15	36.5'/NW	19A		_____	
TE-105-AN-16	36.5'/NE	19B		_____	
TE-105-AN-17	36.5'/NE	19B		_____	
TE-105-AN-18	36.5'/NE	19C		_____	
TE-105-AN-19	36.5'/SE	19C		_____	
TE-105-AN-20	36.5'/SE	19D		98.5 °F	
TE-105-AN-21	36.5'/SE	19D		_____	
TE-105-AN-22	36.5'/SW	19E		_____	
TE-105-AN-23	36.5'/SW	19E		_____	
TE-105-AN-24	36.5'/SW	19F		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71941, H-2-71945, H-2-71949
B-130-C7 , SD-RE-TI-093
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 34.24'
Frequency of Monitoring :
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition :

9413276.1101

2. TANK 105-AN OUTSIDE PRIMARY TANK WALL TEMPERATURES (OR TANK KNUCLE TEMP.)

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-105-AN-25	37.5'/SW	19F	668.75'	_____	-Watch list tank
TE-105-AN-26	37.5'/NE	19C	668.75'	_____	

3. TANK 105-AN CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-105-AN-27	4.0'/SE	19D	668.75'	_____	
TE-105-AN-28	4.0'/NE	19B	668.75'	_____	
TE-105-AN-29	4.0'/SW	19F	668.75'	_____	
TE-105-AN-30	21.0'/SE	19D		_____	
TE-105-AN-31	21.0'/NE	19B		_____	
TE-105-AN-32	21.0'/SW	19F		_____	
TE-105-AN-33	38.0'/SE	19D		_____	
TE-105-AN-34	38.0'/NE	19B		_____	
TE-105-AN-35	38.0'/SW	19F		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71940, H-2-71945, H-2-71949
B-130-C7
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 34.24'
Frequency of Monitoring :
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition :

9413276.1102

4. TANK 105-AN IN-TANK TEMPERATURES

Tag Number / Thermocouple Number	Elevation[1] (Ft)	Temp. °F	Comment
TE-105-AN-36 (#1)	0.33*	105.9 °F	- Assuming that #1 is
TE-105-AN-37 (#2)	2.33*	112.4 °F	is located approximately
TE-105-AN-38 (#3)	4.33*	117.5 °F	4" above tank bottom
TE-105-AN-39 (#4)	6.33*	120.2 °F	center.
TE-105-AN-40 (#5)	8.33*	119.6 °F	
TE-105-AN-41 (#6)	10.33*	114.6 °F	- TC tree is located in
TE-105-AN-42 (#7)	12.33*	107.8 °F	Riser 4A.
TE-105-AN-43 (#8)	14.33*	104.0 °F	
TE-105-AN-44 (#9)	16.33*	104.1 °F	-Temp. reading date:
TE-105-AN-45 (#10)	18.33*	104.4 °F	4/2/93 by A. Wikstrand
TE-105-AN-46 (#11)	20.33*	103.0 °F	
TE-105-AN-47 (#12)	22.33*	103.4 °F	
TE-105-AN-48 (#13)	24.33*	103.9 °F	
TE-105-AN-49 (#14)	26.33*	103.9 °F	
TE-105-AN-50 (#15)	28.33*	103.9 °F	
TE-105-AN-51 (#16)	30.33*	103.8 °F	
TE-105-AN-52 (#17)	34.33	96.2 °F	
TE-105-AN-53 (#18)	38.33	95.4 °F	

Type of Thermocouple : TREE Chromel-constantan (Type E)
Drawing Number : H-2-34304, H-2-71949, H-2-71945
High Waste Temperature (at TC #) : 120.2 °F (TC #4)
Date Read : 4/2/93
Riser Elevation (R-4A) : 668.75'
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 34.24'
Frequency of Monitoring : Weekly
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition : Manual (and TMACS in future)

* Means TC in waste

1. Elevation relative to tank center bottom

9413276.1103

5. TANK 105-AN CONCRETE DOME & CONCRETE SHELL TEMPERATURE

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-105-AN-54	/SW	19F	668.75'	90.0 °F	-Watch list tank
TE-105-AN-57	/SW	19F		_____	
TE-105-AN-60	/SW	19F		96.9 °F	Temp. reading
TE-105-AN-63	/SW	19F		_____	date:4/2/93
TE-105-AN-66	/SW	19F		_____	by A. Wikstrand
TE-105-AN-69	/SW	19F		_____	
TE-105-AN-72	/SW	19F		_____	
TE-105-AN-75	/SW	19F		_____	
TE-105-AN-78	/SW	19F		_____	
TE-105-AN-81	/SW	19F		_____	
TE-105-AN-84	/SW	19F		_____	
TE-105-AN-87	/SW	19F		_____	
TE-105-AN-90	/SW	19F		_____	
TE-105-AN-93	/SW	19F		_____	
TE-105-AN-96	/SW	19F		_____	
TE-105-AN-99	/SW	19F		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71942, H-2-71945, H-2-71949
B-130-C5
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 34.24'
Frequency of Monitoring :
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition :

9413276.1104

5. TANK 105-AN CONCRETE DOME & CONCRETE SHELL TEMPERATURE (CONTINUE)

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-105-AN-55	/NE	19B	668.75'	_____	-Watch list tank
TE-105-AN-58	/NE	19B		_____	
TE-105-AN-61	/NE	19B		_____	
TE-105-AN-64	/NE	19B		_____	
TE-105-AN-67	/NE	19B		_____	
TE-105-AN-70	/NE	19B		_____	
TE-105-AN-73	/NE	19B		_____	
TE-105-AN-76	/NE	19B		_____	
TE-105-AN-79	/NE	19B		_____	
TE-105-AN-82	/NE	19B		_____	
TE-105-AN-85	/NE	19B		_____	
TE-105-AN-88	/NE	19B		_____	
TE-105-AN-91	/NE	19B		_____	
TE-105-AN-94	/NE	19B		_____	
TE-105-AN-97	/NE	19B		_____	
TE-105-AN-100	/NE	19B		_____	

Type of TC : Chromel-constantan (Type E)
Drawing Number : H-2-71942, H-2-71945, H-2-71949
B-130-C5
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 34.24'
Frequency of Monitoring :
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition :

9413276.1105

5. TANK 105-AN CONCRETE DOME & CONCRETE SHELL TEMPERATURE (CONTINUE)

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-105-AN-56	/SE	19D	668.75'	_____	-Watch list tank
TE-105-AN-59	/SE	19D		_____	
TE-105-AN-62	/SE	19D		_____	
TE-105-AN-65	/SE	19D		_____	
TE-105-AN-68	/SE	19D		_____	
TE-105-AN-71	/SE	19D		_____	
TE-105-AN-74	/SE	19D		94.9 °F	- Temp. reading
TE-105-AN-77	/SE	19D		97.0 °F	date: 4/2/93
TE-105-AN-80	/SE	19D		100.0 °F	by A. Wikstrand
TE-105-AN-83	/SE	19D		98.1 °F	
TE-105-AN-86	/SE	19D		_____	
TE-105-AN-89	/SE	19D		_____	
TE-105-AN-92	/SE	19D		_____	
TE-105-AN-95	/SE	19D		_____	
TE-105-AN-98	/SE	19D		_____	
TE-105-AN-101	/SE	19D		_____	

Type of TC : Chromel-constantan (Type E)
Drawing Number : H-2-71942, H-2-71945, H-2-71949
B-130-C5
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 34.24'
Frequency of Monitoring : Weekly
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition : Manual (and TMACS by 8/30/93)

9413276.1106

1. TANK 106-AN INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-106-AN-1	7.0'/SE	19A	668.75'	_____	
TE-106-AN-2	7.0'/SW	19B	668.75'	_____	
TE-106-AN-3	7.0'/NW	19D	668.75'	67.8 °F	-Temp. reading
TE-106-AN-4	7.0'/NE	19E	668.75'	_____	date: 3/31/93
TE-106-AN-5	21.0'/SE	19F	668.75'	_____	by A. Wikstrand
TE-106-AN-6	21.0'/SE	19A		_____	
TE-106-AN-7	21.0'/SW	19B		_____	
TE-106-AN-8	21.0'/SW	19C	668.75'	_____	
TE-106-AN-9	21.0'/NW	19C		_____	
TE-106-AN-10	21.0'/NW	19D		66.2 °F	
TE-106-AN-11	21.0'/NE	19E		_____	
TE-106-AN-12	21.0'/NE	19F		_____	
TE-106-AN-13	36.5'/SE	19F		_____	
TE-106-AN-14	36.5'/SE	19A		_____	
TE-106-AN-15	36.5'/SE	19A		_____	
TE-106-AN-16	36.5'/SW	19B		_____	
TE-106-AN-17	36.5'/SW	19B		_____	
TE-106-AN-18	36.5'/SW	19C		_____	
TE-106-AN-19	36.5'/NW	19C		_____	
TE-106-AN-20	36.5'/NW	19D		65.6 °F	
TE-106-AN-21	36.5'/NW	19D		_____	
TE-106-AN-22	36.5'/NE	19E		_____	
TE-106-AN-23	36.5'/NE	19E		_____	
TE-106-AN-24	36.5'/NE	19F		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71941, H-2-71945, H-2-71949
B-130-C7 , SD-RE-TI-093
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 30.70'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1107

2. TANK 106-AN OUTSIDE PRIMARY TANK WALL TEMPERATURES (OR TANK KNUCLE TEMP.)

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-106-AN-25	37.5'/NE	19F	668.75'	_____	
TE-106-AN-26	37.5'/SW	19C	668.75'	_____	

3. TANK 106-AN CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-106-AN-27	4.0'/SE	19D	668.75'	_____	
TE-106-AN-28	4.0'/NE	19B	668.75'	_____	
TE-106-AN-29	4.0'/SW	19F	668.75'	_____	
TE-106-AN-30	21.0'/SE	19D		_____	
TE-106-AN-31	21.0'/NE	19B		_____	
TE-106-AN-32	21.0'/SW	19F		_____	
TE-106-AN-33	38.0'/SE	19D		_____	
TE-106-AN-34	38.0'/NE	19B		_____	
TE-106-AN-35	38.0'/SW	19F		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71940, H-2-71945, H-2-71949
B-130-C7
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 30.70'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1108

4. TANK 106-AN IN-TANK TEMPERATURES

Tag Number / Thermocouple Number	Elevation[1] (Ft)	Temp. °F	Comment
TE-106-AN-36 (TC #1)	0.33*	62.9 °F	- Assuming that TC #1 is
TE-106-AN-37 (TC #2)	2.33*	62.8 °F	is located approximately
TE-106-AN-38 (TC #3)	4.33*	62.8 °F	4" above tank bottom
TE-106-AN-39 (TC #4)	6.33*	63.0 °F	center.
TE-106-AN-40 (TC #5)	8.33*	62.8 °F	
TE-106-AN-41 (TC #6)	10.33*	62.6 °F	- TC tree is located in
TE-106-AN-42 (TC #7)	12.33*	62.6 °F	Riser 4A.
TE-106-AN-43 (TC #8)	14.33*	62.5 °F	- Temp. reading
TE-106-AN-44 (TC #9)	16.33*	62.3 °F	date: 3/31/93
TE-106-AN-45 (TC #10)	18.33*	62.1 °F	by A. Wikstrand
TE-106-AN-46 (TC #11)	20.33*	62.0 °F	
TE-106-AN-47 (TC #12)	22.33*	62.4 °F	
TE-106-AN-48 (TC #13)	24.33*	62.1 °F	
TE-106-AN-49 (TC #14)	26.33*	62.2 °F	
TE-106-AN-50 (TC #15)	28.33*	62.3 °F	
TE-106-AN-51 (TC #16)	30.33*	63.1 °F	
TE-106-AN-52 (TC #17)	34.33	63.1° F	
TE-106-AN-53 (TC #18)	38.33	63.0 °F	

Type of Thermocouple : TREE, Chromel-constantan (Type E)
Drawing Number : H-2-34304, H-2-71949, H-2-71945
High Waste Temperature (at TC #) : 63.0 °F (TC #4)
Date Read : 3/31/93
Riser Elevation (R-4A) : 668.75'
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 30.70'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual (and TMACS in future)

* Means TC in waste
1. Elevation relative to tank center bottom.

9413276.1109

5. TANK 106-AN CONCRETE DOME & CONCRETE SHELL TEMPERATURE

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-106-AN-54	/SW	19F	668.75'	64.0 °F	-Temp. reading
TE-106-AN-57	/SW	19F		_____	date:3/31/93
TE-106-AN-60	/SW	19F		63.9 °F	by A. Wikstrand
TE-106-AN-63	/SW	19F		_____	
TE-106-AN-66	/SW	19F		_____	
TE-106-AN-69	/SW	19F		_____	
TE-106-AN-72	/SW	19F		_____	
TE-106-AN-75	/SW	19F		_____	
TE-106-AN-78	/SW	19F		_____	
TE-106-AN-81	/SW	19F		_____	
TE-106-AN-84	/SW	19F		_____	
TE-106-AN-87	/SW	19F		_____	
TE-106-AN-90	/SW	19F		_____	
TE-106-AN-93	/SW	19F		_____	
TE-106-AN-96	/SW	19F		_____	
TE-106-AN-99	/SW	19F		_____	

Type of TC : Chromel-constantan (Type E)
Drawing Number : H-2-71942, H-2-71945, H-2-71949
B-130-C5
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 30.70'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual (and TMACS by 8/30/93)

9413276.1110

5. TANK 106-AN CONCRETE DOME & CONCRETE SHELL TEMPERATURE (CONTINUE)

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-106-AN-55	/NE	19B	668.75'	_____	
TE-106-AN-58	/NE	19B		_____	
TE-106-AN-61	/NE	19B		_____	
TE-106-AN-64	/NE	19B		_____	
TE-106-AN-67	/NE	19B		_____	
TE-106-AN-70	/NE	19B		_____	
TE-106-AN-73	/NE	19B		_____	
TE-106-AN-76	/NE	19B		_____	
TE-106-AN-79	/NE	19B		_____	
TE-106-AN-82	/NE	19B		_____	
TE-106-AN-85	/NE	19B		_____	
TE-106-AN-88	/NE	19B		_____	
TE-106-AN-91	/NE	19B		_____	
TE-106-AN-94	/NE	19B		_____	
TE-106-AN-97	/NE	19B		_____	
TE-106-AN-100	/NE	19B		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71942, H-2-71945, H-2-71949
B-130-C5
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 30.70'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1111

5. TANK 106-AN CONCRETE DOME & CONCRETE SHELL TEMPERATURE (CONTINUE)

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-106-AN-56	/SE	19D	668.75'	_____	
TE-106-AN-59	/SE	19D		_____	
TE-106-AN-62	/SE	19D		_____	
TE-106-AN-65	/SE	19D		_____	
TE-106-AN-68	/SE	19D		_____	
TE-106-AN-71	/SE	19D		_____	
TE-106-AN-74	/SE	19D		67.5 °F	-Temp. reading
TE-106-AN-77	/SE	19D		66.9 °F	date:3/31/93
TE-106-AN-80	/SE	19D		64.6 °F	by A. Wikstrand
TE-106-AN-83	/SE	19D		65.2 °F	
TE-106-AN-86	/SE	19D		_____	
TE-106-AN-89	/SE	19D		_____	
TE-106-AN-92	/SE	19D		_____	
TE-106-AN-95	/SE	19D		_____	
TE-106-AN-98	/SE	19D		_____	
TE-106-AN-101	/SE	19D		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71942, H-2-71945, H-2-71949
B-130-C5
Primary Tank Bottom Elevation (Ft): 613.03'
Waste Level (Ft) : 30.70'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual (and TMACS by 8/30/93)

9413276.1112

1. TANK 107-AN INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-107-AN-1	7.0'/SE	19A	668.75'	_____	
TE-107-AN-2	7.0'/SW	19B	668.75'	_____	
TE-107-AN-3	7.0'/NW	19D	668.75'	99.6 °F	-Temp. reading
TE-107-AN-4	7.0'/NE	19E	668.75'	_____	date: 3/31/93
TE-107-AN-5	21.0'/SE	19F	668.75'	_____	by A. Wikstrand
TE-107-AN-6	21.0'/SE	19A		_____	
TE-107-AN-7	21.0'/SW	19B		_____	
TE-107-AN-8	21.0'/SW	19C	668.75'	_____	
TE-107-AN-9	21.0'/NW	19C		_____	
TE-107-AN-10	21.0'/NW	19D		101.7 °F	
TE-107-AN-11	21.0'/NE	19E		_____	
TE-107-AN-12	21.0'/NE	19F		_____	
TE-107-AN-13	36.5'/SE	19F		_____	
TE-107-AN-14	36.5'/SE	19A		_____	
TE-107-AN-15	36.5'/SE	19A		_____	
TE-107-AN-16	36.5'/SW	19B		_____	
TE-107-AN-17	36.5'/SW	19B		_____	
TE-107-AN-18	36.5'/SW	19C		_____	
TE-107-AN-19	36.5'/NW	19C		_____	
TE-107-AN-20	36.5'/NW	19D		95.9 °F	
TE-107-AN-21	36.5'/NW	19D		_____	
TE-107-AN-22	36.5'/NE	19E		_____	
TE-107-AN-23	36.5'/NE	19E		_____	
TE-107-AN-24	36.5'/NE	19F		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71941, H-2-71945, H-2-71949
B-130-C7 , SD-RE-TI-093
Primary Tank Bottom Elevation (Ft): 612.7'
Waste Level (Ft) : 32.47'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1113

2. TANK 107-AN OUTSIDE PRIMARY TANK WALL TEMPERATURES (OR TANK KNUCLE TEMP.)

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-107-AN-25	37.5'/NE	19F	668.75'	_____	
TE-107-AN-26	37.5'/SW	19C	668.75'	_____	

3. TANK 107-AN CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-107-AN-27	4.0'/SE	19D	668.75'	_____	
TE-107-AN-28	4.0'/NE	19B	668.75'	_____	
TE-107-AN-29	4.0'/SW	19F	668.75'	_____	
TE-107-AN-30	21.0'/SE	19D		_____	
TE-107-AN-31	21.0'/NE	19B		_____	
TE-107-AN-32	21.0'/SW	19F		_____	
TE-107-AN-33	38.0'/SE	19D		_____	
TE-107-AN-34	38.0'/NE	19B		_____	
TE-107-AN-35	38.0'/SW	19F		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71940, H-2-71945, H-2-71949
B-130-C7
Primary Tank Bottom Elevation (Ft): 612.7'
Waste Level (Ft) : 32.47'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1114

4. TANK 107-AN IN-TANK TEMPERATURES

Tag Number / Thermocouple Number	Elevation[1] (Ft)	Temp. °F	Comment
TE-107-AN-36 (TC #1)	0.33*	108.3 °F	- Assuming that TC #1 is
TE-107-AN-37 (TC #2)	2.33*	109.0 °F	is located approximately
TE-107-AN-38 (TC #3)	4.33*	105.4 °F	4" above tank bottom
TE-107-AN-39 (TC #4)	6.33*	99.6 °F	center.
TE-107-AN-40 (TC #5)	8.33*	96.7 °F	
TE-107-AN-41 (TC #6)	10.33*	99.6 °F	- TC tree is located in
TE-107-AN-42 (TC #7)	12.33*	99.4 °F	Riser 4A.
TE-107-AN-43 (TC #8)	14.33*	99.1 °F	- Temp. reading date:
TE-107-AN-44 (TC #9)	16.33*	99.3 °F	3/31/93 by A. Wikstrand
TE-107-AN-45 (TC #10)	18.33*	99.5 °F	
TE-107-AN-46 (TC #11)	20.33*	99.6 °F	
TE-107-AN-47 (TC #12)	22.33*	99.5 °F	
TE-107-AN-48 (TC #13)	24.33*	99.4 °F	
TE-107-AN-49 (TC #14)	26.33*	99.4 °F	
TE-107-AN-50 (TC #15)	28.33*	99.7 °F	
TE-107-AN-51 (TC #16)	30.33*	98.9 °F	
TE-107-AN-52 (TC #17)	34.33	94.9 °F	
TE-107-AN-53 (TC #18)	38.33	94.9 °F	

Type of Thermocouple : TREE, Chromel-constantan (Type E)
Drawing Number : H-2-34304, H-2-71949,H-2-71945
High Waste Temperature (at TC #) : 109.0 °F (TC #2)
Date Read : 3/31/93
Riser Elevation (R-4A) : 668.75'
Primary Tank Bottom Elevation (Ft): 612.7'
Waste Level (Ft) : 32.47'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual (and TMACS in future)

* Means TC in the waste
1. Elevation relative to tank center bottom.

9413276.1115

5. TANK 107-AN CONCRETE DOME & CONCRETE SHELL TEMPERATURE

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-107-AN-54	/SW	19F	668.75'	86.5 °F	-Temp. reading
TE-107-AN-57	/SW	19F		_____	date:3/31/93
TE-107-AN-60	/SW	19F		93.2 °F	by A. Wikstrand
TE-107-AN-63	/SW	19F		_____	
TE-107-AN-66	/SW	19F		_____	
TE-107-AN-69	/SW	19F		_____	
TE-107-AN-72	/SW	19F		_____	
TE-107-AN-75	/SW	19F		_____	
TE-107-AN-78	/SW	19F		_____	
TE-107-AN-81	/SW	19F		_____	
TE-107-AN-84	/SW	19F		_____	
TE-107-AN-87	/SW	19F		_____	
TE-107-AN-90	/SW	19F		_____	
TE-107-AN-93	/SW	19F		_____	
TE-107-AN-96	/SW	19F		_____	
TE-107-AN-99	/SW	19F		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71942, H-2-71945, H-2-71949
B-130-C5
Primary Tank Bottom Elevation (Ft): 612.7'
Waste Level (Ft) : 32.47'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual (and TMACS by 8/30/93)

9413276.1116

5. TANK 107-AN CONCRETE DOME & CONCRETE SHELL TEMPERATURE (CONTINUE)

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-107-AN-55	/NE	19B	668.75'	_____	
TE-107-AN-58	/NE	19B		_____	
TE-107-AN-61	/NE	19B		_____	
TE-107-AN-64	/NE	19B		_____	
TE-107-AN-67	/NE	19B		_____	
TE-107-AN-70	/NE	19B		_____	
TE-107-AN-73	/NE	19B		_____	
TE-107-AN-76	/NE	19B		_____	
TE-107-AN-79	/NE	19B		_____	
TE-107-AN-82	/NE	19B		_____	
TE-107-AN-85	/NE	19B		_____	
TE-107-AN-88	/NE	19B		_____	
TE-107-AN-91	/NE	19B		_____	
TE-107-AN-94	/NE	19B		_____	
TE-107-AN-97	/NE	19B		_____	
TE-107-AN-100	/NE	19B		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71942, H-2-71945, H-2-71949
B-130-C5
Primary Tank Bottom Elevation (Ft): 612.7'
Waste Level (Ft) : 32.47'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1117

5. TANK 107-AN CONCRETE DOME & CONCRETE SHELL TEMPERATURE (CONTINUE)

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-107-AN-56	/SE	19D	668.75'	_____	
TE-107-AN-59	/SE	19D		_____	
TE-107-AN-62	/SE	19D		_____	
TE-107-AN-65	/SE	19D		_____	
TE-107-AN-68	/SE	19D		_____	
TE-107-AN-71	/SE	19D		_____	
TE-107-AN-74	/SE	19D		92.2 °F	-Temp. reading
TE-107-AN-77	/SE	19D		92.9 °F	date: 3/31/93
TE-107-AN-80	/SE	19D		94.9 °F	by A. Wikstrand
TE-107-AN-83	/SE	19D		93.9 °F	
TE-107-AN-86	/SE	19D		_____	
TE-107-AN-89	/SE	19D		_____	
TE-107-AN-92	/SE	19D		_____	
TE-107-AN-95	/SE	19D		_____	
TE-107-AN-98	/SE	19D		_____	
TE-107-AN-101	/SE	19D		_____	

Type of Thermocouple : Chromel-constantan (Type E)
Drawing Number : H-2-71942, H-2-71945, H-2-71949
B-130-C5
Primary Tank Bottom Elevation (Ft): 612.7'
Waste Level (Ft) : 32.47'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual (and TMACS in future)

9413276.1118

THERMOCOUPLE STATUS

AP-FARM

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1. TANK 101-AP INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-101-AP-1	7.0'/SE	139°	676.47'	_____	
TE-101-AP-2	7.0'/NE	63°	676.46'	_____	
TE-101-AP-3	7.0'/NW	312°	676.47'	_____	
TE-101-AP-4	7.0'/SW	243°	676.46'	_____	
TE-101-AP-5	21.0'/SE	191°	676.46'	_____	
TE-101-AP-6	21.0'/SE	139°		_____	
TE-101-AP-7	21.0'/NE	63°		_____	
TE-101-AP-8	21.0'/NE	26°	676.47'	_____	
TE-101-AP-9	21.0'/NW	26°		_____	
TE-101-AP-10	21.0'/NW	312°		_____	
TE-101-AP-11	21.0'/SW	243°		_____	
TE-101-AP-12	21.0'/SW	191°		_____	
TE-101-AP-13	36.5'/SE	191°		_____	
TE-101-AP-14	36.5'/SE	139°		_____	
TE-101-AP-15	36.5'/SE	139°		_____	
TE-101-AP-16	36.5'/NE	63°		_____	
TE-101-AP-17	36.5'/NE	63°		_____	
TE-101-AP-18	36.5'/NE	26°		_____	
TE-101-AP-19	36.5'/NW	26°		_____	
TE-101-AP-20	36.5'/NW	312°		_____	
TE-101-AP-21	36.5'/NW	312°		_____	
TE-101-AP-22	36.5'/SW	243°		_____	
TE-101-AP-23	36.5'/SW	243°		_____	
TE-101-AP-24	36.5'/SW	191°		_____	

Type of Thermocouple : Chromel-Constantan (E)
Drawing Number : H-2-90465, H-2-90542, H-2-90487, H-2-90538
SPEC B-340-C4
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 32.17'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1120

2. TANK 101-AP OUTSIDE PRIMARY TANK WALL TEMPERATURES (OR TANK KNUCLE TEMP.)

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-101-AP-25	37.5'/NE	191°	676.46'	_____	
TE-101-AP-26	37.5'/SW	26°	676.47'	_____	

3. TANK 101-AP CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-101-AP-27	4.0'/NW	312°	676.47'	_____	
TE-101-AP-28	4.0'/NE	63°	676.46'	_____	
TE-101-AP-29	4.0'/SW	191°	676.46'	_____	
TE-101-AP-30	21.0'/NW	312°		_____	
TE-101-AP-31	21.0'/NE	63°		_____	
TE-101-AP-32	21.0'/SW	191°		_____	
TE-101-AP-33	38.0'/NW	312°		_____	
TE-101-AP-34	38.0'/NE	63°		_____	
TE-101-AP-35	38.0'/SW	191°		_____	

Type of Thermocouple : Chromel-Constantan (E)
Drawing Number : H-2-90464, H-2-90465, H-2-90467,H-2-90542, H-2-90538, H-2-90487, SPEC B-340-C4
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 32.17'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1121

4. TANK 101-AP IN-TANK TEMPERATURES

Tag Number / Thermocouple Number	Elevation[1] (Ft)	Temp. °F	Comment
TE-101-AP-36 (TC #1)	38.50	58 °F	
TE-101-AP-37 (TC #2)	34.50	_____	- TC tree is located
TE-101-AP-38 (TC #3)	30.50*	56 °F	in Riser 4
TE-101-AP-39 (TC #4)	28.50*	_____	
TE-101-AP-40 (TC #5)	26.50*	56 °F	
TE-101-AP-41 (TC #6)	24.50*	_____	
TE-101-AP-42 (TC #7)	22.50*	57 °F	
TE-101-AP-43 (TC #8)	20.50*	_____	
TE-101-AP-44 (TC #9)	18.50*	_____	
TE-101-AP-45 (TC #10)	16.50*	_____	
TE-101-AP-46 (TC #11)	14.50*	57 °F	
TE-101-AP-47 (TC #12)	12.50*	_____	
TE-101-AP-48 (TC #13)	10.50*	_____	
TE-101-AP-49 (TC #14)	8.50*	_____	
TE-101-AP-50 (TC #15)	6.50*	_____	
TE-101-AP-51 (TC #16)	4.50*	_____	
TE-101-AP-52 (TC #17)	2.50*	57 °F	
TE-101-AP-53 (TC #18)	0.50*	_____	

Type of Thermocouple : TREE, Chromel-Constantan (Type E)
Drawing Number : H-2-90490, H-2-90492, H-2-90538, H-2-90487, SPEC B-340-C7
High Waste Temperature (at TC #) : 57 °F (TC #7,#11, #17)
Date Read : 6/15/93
Riser Elevation (R-4) : 676.70'
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 32.17'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

* Means TC in waste.

1. Elevation relative to tank center bottom

9413276.1122

5. TANK 101-AP CONCRETE DOME &CONCRETE SHELL TEMPERATURE

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-101-AP-54	/SW	191°	676.46'	58 °F	-Temp. reading
TE-101-AP-57	/SW	191°		_____	date:1/25/93
TE-101-AP-60	/SW	191°		58 °F	
TE-101-AP-63	/SW	191°		_____	
TE-101-AP-66	/SW	191°		_____	
TE-101-AP-69	/SW	191°		_____	
TE-101-AP-72	/SW	191°		_____	
TE-101-AP-75	/SW	191°		_____	
TE-101-AP-78	/SW	191°		_____	
TE-101-AP-81	/SW	191°		_____	
TE-101-AP-84	/SW	191°		_____	
TE-101-AP-87	/SW	191°		_____	
TE-101-AP-90	/SW	191°		_____	
TE-101-AP-93	/SW	191°		_____	
TE-101-AP-96	/SW	191°		_____	
TE-101-AP-99	/SW	191°		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-90466, H-2-90467, H-2-90538
H-2-90487, SPEC B-340-C5
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 32.17'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1123

5. TANK 101-AP CONCRETE DOME & CONCRETE SHELL TEMPERATURE (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-101-AP-55	/NE	63°	676.46'	_____	
TE-101-AP-58	/NE	63°		_____	
TE-101-AP-61	/NE	63°		_____	
TE-101-AP-64	/NE	63°		_____	
TE-101-AP-67	/NE	63°		_____	
TE-101-AP-70	/NE	63°		_____	
TE-101-AP-73	/NE	63°		_____	
TE-101-AP-76	/NE	63°		_____	
TE-101-AP-79	/NE	63°		_____	
TE-101-AP-82	/NE	63°		_____	
TE-101-AP-85	/NE	63°		_____	
TE-101-AP-88	/NE	63°		_____	
TE-101-AP-91	/NE	63°		_____	
TE-101-AP-94	/NE	63°		_____	
TE-101-AP-97	/NE	63°		_____	
TE-101-AP-100	/NE	63°		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-90466, H-2-90467, H-2-90538, H-2-90487
SPEC B-340-C5
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 32.17'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1124

5. TANK 101-AP CONCRETE DOME & CONCRETE SHELL TEMPERATURE (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-101-AP-56	/NW	312°	676.47'	_____	
TE-101-AP-59	/NW	312		_____	
TE-101-AP-62	/NW	312°		_____	
TE-101-AP-65	/NW	312°		_____	
TE-101-AP-68	/NW	312°		_____	
TE-101-AP-71	/NW	312°		_____	
TE-101-AP-74	/NW	312°		57 °F	-Temp. reading
TE-101-AP-77	/NW	312°		58 °F	date:1/25/93
TE-101-AP-80	/NW	312°		59 °F	
TE-101-AP-83	/NW	312°		59 °F	
TE-101-AP-86	/NW	312°		_____	
TE-101-AP-89	/NW	312°		_____	
TE-101-AP-92	/NW	312°		_____	
TE-101-AP-95	/NW	312°		_____	
TE-101-AP-98	/NW	312°		_____	
TE-101-AP-101	/NW	312°		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-90466, H-2-90467, H-2-90538, H-2-90487
SPEC B-340-C5
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 32.17'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1125

1. TANK 102-AP INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-102-AP-1	7.0'/SW	221°	676.45'	_____	
TE-102-AP-2	7.0'/NW	297°	676.45'	_____	
TE-102-AP-3	7.0'/NE	48°	676.46'	_____	
TE-102-AP-4	7.0'/SE	117°	676.45'	_____	
TE-102-AP-5	21.0'/SW	169°	676.44'	_____	
TE-102-AP-6	21.0'/SW	221°		_____	
TE-102-AP-7	21.0'/NW	297°		_____	
TE-102-AP-8	21.0'/NW	334°	676.45'	_____	
TE-102-AP-9	21.0'/NE	334°		_____	
TE-102-AP-10	21.0'/NE	48°		_____	
TE-102-AP-11	21.0'/SE	117°		_____	
TE-102-AP-12	21.0'/SE	169°		_____	
TE-102-AP-13	36.5'/SW	169°		_____	
TE-102-AP-14	36.5'/SW	221°		_____	
TE-102-AP-15	36.5'/SW	221°		_____	
TE-102-AP-16	36.5'/NW	297°		_____	
TE-102-AP-17	36.5'/NW	297°		_____	
TE-102-AP-18	36.5'/NW	334°		_____	
TE-102-AP-19	36.5'/NE	334°		_____	
TE-102-AP-20	36.5'/NE	48°		_____	
TE-102-AP-21	36.5'/NE	48°		_____	
TE-102-AP-22	36.5'/SE	117°		_____	
TE-102-AP-23	36.5'/SE	117°		_____	
TE-102-AP-24	36.5'/SE	169°		_____	

Type of Thermocouple : Chromel-Constantan (E)
Drawing Number : H-2-90465, H-2-90542, H-2-90487, H-2-90539
H-2-90467, H-2-90477, SPEC B-340-C4
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 4.12'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1126

2. TANK 102-AP OUTSIDE PRIMARY TANK WALL TEMPERATURES (OR TANK KNUCLE TEMP.)

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-102-AP-25	37.5'/SE	169°	676.44'	_____	
TE-102-AP-26	37.5'/NW	334°	676.45'	_____	

3. TANK 102-AP CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-102-AP-27	4.0'/NW	312°	676.45'	_____	
TE-102-AP-28	4.0'/NE	63°	676.44'	_____	
TE-102-AP-29	4.0'/SW	191°	676.45'	_____	
TE-102-AP-30	21.0'/NW	312°		_____	
TE-102-AP-31	21.0'/NE	63°		_____	
TE-102-AP-32	21.0'/SW	191°		_____	
TE-102-AP-33	38.0'/NW	312°		_____	
TE-102-AP-34	38.0'/NE	63°		_____	
TE-102-AP-35	38.0'/SW	191°		_____	

Type of Thermocouple : Chromel-Constantan (E)
Drawing Number : H-2-90464, H-2-90465, H-2-90467,H-2-90542
H-2-90539, H-2-90487, SPEC B-340-C4
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 4.12'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1127

4. TANK 102-AP IN-TANK TEMPERATURES

Tag Number / Thermocouple Number	Elevation[1] (Ft)	Temp. °F	Comment
TE-102-AP-36 (TC #1)	38.50	80 °F	
TE-102-AP-37 (TC #2)	34.50	_____	- TC tree is located
TE-102-AP-38 (TC #3)	30.50	81 °F	in Riser 4
TE-102-AP-39 (TC #4)	28.50	_____	
TE-102-AP-40 (TC #5)	26.50	80 °F	
TE-102-AP-41 (TC #6)	24.50	_____	
TE-102-AP-42 (TC #7)	22.50	81 °F	
TE-102-AP-43 (TC #8)	20.50	_____	
TE-102-AP-44 (TC #9)	18.50	_____	
TE-102-AP-45 (TC #10)	16.50	_____	
TE-102-AP-46 (TC #11)	14.50	82 °F	
TE-102-AP-47 (TC #12)	12.50	_____	
TE-102-AP-48 (TC #13)	10.50	_____	
TE-102-AP-49 (TC #14)	8.50	_____	
TE-102-AP-50 (TC #15)	6.50	_____	
TE-102-AP-51 (TC #16)	4.50	_____	
TE-102-AP-52 (TC #17)	2.50*	83 °F	
TE-102-AP-53 (TC #18)	0.50*	_____	

Type of Thermocouple : TREE, Chromel-Constantan (Type E)
Drawing Number : H-2-90490, H-2-90492, H-2-90539, H-2-90487, SPEC B-340-C7
High Waste Temperature (at TC #) : 83 °F (TC #17)
Date Read : 6/15/93
Riser Elevation (R-4) : 677.70'
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 4.12'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

* Means TC in waste.

1. Elevation relative to tank center bottom

9413276.1128

5. TANK 102-AP CONCRETE DOME & CONCRETE SHELL TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-102-AP-54	/SE	169°	676.44'	65 °F	-Temp. reading
TE-102-AP-57	/SE	169°		_____	date:1/25/93
TE-102-AP-60	/SE	169°		66 °F	
TE-102-AP-63	/SE	169°		_____	
TE-102-AP-66	/SE	169°		_____	
TE-102-AP-69	/SE	169°		_____	
TE-102-AP-72	/SE	169°		_____	
TE-102-AP-75	/SE	169°		_____	
TE-102-AP-78	/SE	169°		_____	
TE-102-AP-81	/SE	169°		_____	
TE-102-AP-84	/SE	169°		_____	
TE-102-AP-87	/SE	169°		_____	
TE-102-AP-90	/SE	169°		_____	
TE-102-AP-93	/SE	169°		_____	
TE-102-AP-96	/SE	169°		_____	
TE-102-AP-99	/SE	169°		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-90466, H-2-90467, H-2-90539
H-2-90477, SHT.5; H-2-90487, SPEC B-340-C5
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 4.12'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1129

5. TANK 102-AP CONCRETE DOME & CONCRETE SHELL TEMPERATURES (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-102-AP-55	/NW	297°	676.45'	_____	
TE-102-AP-58	/NW	297°		_____	
TE-102-AP-61	/NW	297°		_____	
TE-102-AP-64	/NW	297°		_____	
TE-102-AP-67	/NW	297°		_____	
TE-102-AP-70	/NW	297°		_____	
TE-102-AP-73	/NW	297°		_____	
TE-102-AP-76	/NW	297°		_____	
TE-102-AP-79	/NW	297°		_____	
TE-102-AP-82	/NW	297°		_____	
TE-102-AP-85	/NW	297°		_____	
TE-102-AP-88	/NW	297°		_____	
TE-102-AP-91	/NW	297°		_____	
TE-102-AP-94	/NW	297°		_____	
TE-102-AP-97	/NW	297°		_____	
TE-102-AP-100	/NW	297°		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-90466, H-2-90467, H-2-90539, H-2-90487
SPEC B-340-C5
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 4.12'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1130

5. TANK 102-AP CONCRETE DOME & CONCRETE SHELL TEMPERATURES (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-102-AP-56	/NE	48°	676.46'	_____	
TE-102-AP-59	/NE	48°		_____	
TE-102-AP-62	/NE	48°		_____	
TE-102-AP-65	/NE	48°		_____	
TE-102-AP-68	/NE	48°		_____	
TE-102-AP-71	/NE	48°		_____	
TE-102-AP-74	/NE	48°		65 °F	-Temp. reading
TE-102-AP-77	/NE	48°		66 °F	date:1/25/93
TE-102-AP-80	/NE	48°		68 °F	
TE-102-AP-83	/NE	48°		68 °F	
TE-102-AP-86	/NE	48°		_____	
TE-102-AP-89	/NE	48°		_____	
TE-102-AP-92	/NE	48°		_____	
TE-102-AP-95	/NE	48°		_____	
TE-102-AP-98	/NE	48°		_____	
TE-102-AP-101	/NE	48°		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-90466, H-2-90467, H-2-90539, H-2-90487
SPEC B-340-C5
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 4.12'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1131

1. TANK 103-AP INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-103-AP-1	7.0'/SE	139°	676.44'	_____	
TE-103-AP-2	7.0'/NE	63°	676.44'	_____	
TE-103-AP-3	7.0'/NW	312°	676.45'	_____	
TE-103-AP-4	7.0'/SW	243°	676.45'	_____	
TE-103-AP-5	21.0'/SE	191°	676.45'	_____	
TE-103-AP-6	21.0'/SE	139°		_____	
TE-103-AP-7	21.0'/NE	63°		_____	
TE-103-AP-8	21.0'/NE	26°	676.43'	_____	
TE-103-AP-9	21.0'/NW	26°		_____	
TE-103-AP-10	21.0'/NW	312°		_____	
TE-103-AP-11	21.0'/SW	243°		_____	
TE-103-AP-12	21.0'/SW	191°		_____	
TE-103-AP-13	36.0'/SE	191°		_____	
TE-103-AP-14	36.0'/SE	139°		_____	
TE-103-AP-15	36.0'/SE	139°		_____	
TE-103-AP-16	36.0'/NE	63°		_____	
TE-103-AP-17	36.0'/NE	63°		_____	
TE-103-AP-18	36.0'/NE	26°		_____	
TE-103-AP-19	36.0'/NW	26°		_____	
TE-103-AP-20	36.0'/NW	312°		_____	
TE-103-AP-21	36.0'/NW	312°		_____	
TE-103-AP-22	36.0'/SW	243°		_____	
TE-103-AP-23	36.0'/SW	243°		_____	
TE-103-AP-24	36.0'/SW	191°		_____	

Type of Thermocouple : Chromel-Constantan (E)
Drawing Number : H-2-90465, H-2-90542, H-2-90487, H-2-90538
SPEC B-340-C4
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 34.37'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1132

2. TANK 103-AP OUTSIDE PRIMARY TANK WALL TEMPERATURES (OR TANK KNUCLE TEMP.)

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-103-AP-25	37.5'/NE	191°	676.45'	_____	
TE-103-AP-26	37.5'/SW	26°	676.43'	_____	

3. TANK 103-AP CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-103-AP-27	4.0'/NW	312°	676.45'	_____	
TE-103-AP-28	4.0'/NE	63°	676.44'	_____	
TE-103-AP-29	4.0'/SW	191°	676.45'	_____	
TE-103-AP-30	21.0'/NW	312°		_____	
TE-103-AP-31	21.0'/NE	63°		_____	
TE-103-AP-32	21.0'/SW	191°		_____	
TE-103-AP-33	38.0'/NW	312°		_____	
TE-103-AP-34	38.0'/NE	63°		_____	
TE-103-AP-35	38.0'/SW	191°		_____	

Type of Thermocouple : Chromel-Constantan (E)
Drawing Number : H-2-90464, H-2-90465, H-2-90467,H-2-90542
H-2-90538, H-2-90487, SPEC B-340-C4
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 34.37'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1133

4. TANK 103-AP IN-TANK TEMPERATURES

Tag Number / Thermocouple Number	Elevation[1] (Ft)	Temp. °F	Comment
TE-103-AP-36 (TC #1)	38.50	59 °F	
TE-103-AP-37 (TC #2)	34.50	_____	- TC tree is located in Riser 4
TE-103-AP-38 (TC #3)	30.50*	56 °F	
TE-103-AP-39 (TC #4)	28.50*	_____	
TE-103-AP-40 (TC #5)	26.50*	56 °F	
TE-103-AP-41 (TC #6)	24.50*	_____	
TE-103-AP-42 (TC #7)	22.50*	57 °F	
TE-103-AP-43 (TC #8)	20.50*	_____	
TE-103-AP-44 (TC #9)	18.50*	_____	
TE-103-AP-45 (TC #10)	16.50*	_____	
TE-103-AP-46 (TC #11)	14.50*	58 °F	
TE-103-AP-47 (TC #12)	12.50*	_____	
TE-103-AP-48 (TC #13)	10.50*	_____	
TE-103-AP-49 (TC #14)	8.50*	_____	
TE-103-AP-50 (TC #15)	6.50*	_____	
TE-103-AP-51 (TC #16)	4.50*	_____	
TE-103-AP-52 (TC #17)	2.50*	57 °F	
TE-103-AP-53 (TC #18)	0.50*	_____	

Type of Thermocouple : TREE, Chromel-Constantan (Type E)
Drawing Number : H-2-90490, H-2-90492, H-2-90538, H-2-90487, SPEC B-340-C7
High Waste Temperature (at TC #) : 58 °F (TC #11)
Date Read : 6/15/93
Riser Elevation (R-4) : 676.70'
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 34.37'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

* Means TC in waste.

1. Elevation relative to tank center bottom

9413276.1134

5. TANK 103-AP CONCRETE DOME & CONCRETE SHELL TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-103-AP-54	/SW	191°	676.45'	59 °F	-Temp. reading
TE-103-AP-57	/SW	191°		_____	date:1/25/93
TE-103-AP-60	/SW	191°		59 °F	
TE-103-AP-63	/SW	191°		_____	
TE-103-AP-66	/SW	191°		_____	
TE-103-AP-69	/SW	191°		_____	
TE-103-AP-72	/SW	191°		_____	
TE-103-AP-75	/SW	191°		_____	
TE-103-AP-78	/SW	191°		_____	
TE-103-AP-81	/SW	191°		_____	
TE-103-AP-84	/SW	191°		_____	
TE-103-AP-87	/SW	191°		_____	
TE-103-AP-90	/SW	191°		_____	
TE-103-AP-93	/SW	191°		_____	
TE-103-AP-96	/SW	191°		_____	
TE-103-AP-99	/SW	191°		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-90466, H-2-90467, H-2-90538
H-2-90487, SPEC B-340-C5
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 34.37'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1135

5. TANK 103-AP CONCRETE DOME & CONCRETE SHELL TEMPERATURES (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-103-AP-55	/NE	63°	676.44'	_____	
TE-103-AP-58	/NE	63°		_____	
TE-103-AP-61	/NE	63°		_____	
TE-103-AP-64	/NE	63°		_____	
TE-103-AP-67	/NE	63°		_____	
TE-103-AP-70	/NE	63°		_____	
TE-103-AP-73	/NE	63°		_____	
TE-103-AP-76	/NE	63°		_____	
TE-103-AP-79	/NE	63°		_____	
TE-103-AP-82	/NE	63°		_____	
TE-103-AP-85	/NE	63°		_____	
TE-103-AP-88	/NE	63°		_____	
TE-103-AP-91	/NE	63°		_____	
TE-103-AP-94	/NE	63°		_____	
TE-103-AP-97	/NE	63°		_____	
TE-103-AP-100	/NE	63°		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-90466, H-2-90467, H-2-90538, H-2-90487
SPEC B-340-C5
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 34.37'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

5. TANK 103-AP CONCRETE DOME & CONCRETE SHELL TEMPERATURES (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-103-AP-56	/NW	312°	676.45'	_____	
TE-103-AP-59	/NW	312		_____	
TE-103-AP-62	/NW	312°		_____	
TE-103-AP-65	/NW	312°		_____	
TE-103-AP-68	/NW	312°		_____	
TE-103-AP-71	/NW	312°		_____	
TE-103-AP-74	/NW	312°		56 °F	-Temp. reading
TE-103-AP-77	/NW	312°		56 °F	date:1/25/93
TE-103-AP-80	/NW	312°		59 °F	
TE-103-AP-83	/NW	312°		59 °F	
TE-103-AP-86	/NW	312°		_____	
TE-103-AP-89	/NW	312°		_____	
TE-103-AP-92	/NW	312°		_____	
TE-103-AP-95	/NW	312°		_____	
TE-103-AP-98	/NW	312°		_____	
TE-103-AP-101	/NW	312°		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-90466, H-2-90467, H-2-90538, H-2-90487
SPEC B-340-C5
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 34.37'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1137

1. TANK 104-AP INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-104-AP-1	7.0'/SW	221°	676.47'	_____	
TE-104-AP-2	7.0'/NW	297°	676.46'	_____	
TE-104-AP-3	7.0'/NE	48°	676.47'	_____	
TE-104-AP-4	7.0'/SE	117°	676.46'	_____	
TE-104-AP-5	21.0'/SW	169°	676.46'	_____	
TE-104-AP-6	21.0'/SW	221°		_____	
TE-104-AP-7	21.0'/NW	297°		_____	
TE-104-AP-8	21.0'/NW	334°	676.46'	_____	
TE-104-AP-9	21.0'/NE	334°		_____	
TE-104-AP-10	21.0'/NE	48°		_____	
TE-104-AP-11	21.0'/SE	117°		_____	
TE-104-AP-12	21.0'/SE	169°		_____	
TE-104-AP-13	36.0'/SW	169°		_____	
TE-104-AP-14	36.0'/SW	221°		_____	
TE-104-AP-15	36.0'/SW	221°		_____	
TE-104-AP-16	36.0'/NW	297°		_____	
TE-104-AP-17	36.0'/NW	297°		_____	
TE-104-AP-18	36.0'/NW	334°		_____	
TE-104-AP-19	36.0'/NE	334°		_____	
TE-104-AP-20	36.0'/NE	48°		_____	
TE-104-AP-21	36.0'/NE	48°		_____	
TE-104-AP-22	36.0'/SE	117°		_____	
TE-104-AP-23	36.0'/SE	117°		_____	
TE-104-AP-24	36.0'/SE	169°		_____	

Type of Thermocouple : Chromel-constantan (E)

Drawing Number : H-2-90465, H-2-90542, H-2-90487, H-2-90539
H-2-90467, H-2-90477, SPEC B-340-C4

Primary Tank Bottom Elevation (Ft): 624.00'

Waste Level (Ft) : 0.6'

Frequency of Monitoring :

Category : DST

Data Acq. Code/Condition :

9413276.1138

2. TANK 104-AP OUTSIDE PRIMARY TANK WALL TEMPERATURES (OR TANK KNUCLE TEMP.)

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-104-AP-25	37.5'/SE	169°	676.46'	_____	
TE-104-AP-26	37.5'/NW	334°	676.46'	_____	

3. TANK 104-AP CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-104-AP-27	4.0'/NW	312°	676.45'	_____	
TE-104-AP-28	4.0'/NE	63°	676.44'	_____	
TE-104-AP-29	4.0'/SW	191°	676.45'	_____	
TE-104-AP-30	21.0'/NW	312°		_____	
TE-104-AP-31	21.0'/NE	63°		_____	
TE-104-AP-32	21.0'/SW	191°		_____	
TE-I04-AP-33	38.0'/NW	312°		_____	
TE-104-AP-34	38.0'/NE	63°		_____	
TE-104-AP-35	38.0'/SW	191°		_____	

Type of Thermocouple : Chromel-Constantan (E)
Drawing Number : H-2-90464, H-2-90465, H-2-90467,H-2-90542
H-2-90539, H-2-90487, SPEC B-340-C4
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 0.6'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1139

4. TANK 104-AP IN-TANK TEMPERATURES

Tag Number / Thermocouple Number	Elevation[1] (Ft)	Temp. °F	Comment
TE-104-AP-36 (TC #1)	38.50	59 °F	
TE-104-AP-37 (TC #2)	34.50	_____	- TC tree is located
TE-104-AP-38 (TC #3)	30.50	59 °F	in Riser 4
TE-104-AP-39 (TC #4)	28.50	_____	
TE-104-AP-40 (TC #5)	26.50	58 °F	
TE-104-AP-41 (TC #6)	24.50	_____	
TE-104-AP-42 (TC #7)	22.50	59 °F	
TE-104-AP-43 (TC #8)	20.50	_____	
TE-104-AP-44 (TC #9)	18.50	_____	
TE-104-AP-45 (TC #10)	16.50	_____	
TE-104-AP-46 (TC #11)	14.50	59 °F	
TE-104-AP-47 (TC #12)	12.50	_____	
TE-104-AP-48 (TC #13)	10.50	_____	
TE-104-AP-49 (TC #14)	8.50	_____	
TE-104-AP-50 (TC #15)	6.50	_____	
TE-104-AP-51 (TC #16)	4.50	_____	
TE-104-AP-52 (TC #17)	2.50	60 °F	
TE-104-AP-53 (TC #18)	0.50*	_____	

Type of Thermocouple : TREE, Chromel-Constantan (Type E)
Drawing Number : H-2-90490, H-2-90492, H-2-90539, H-2-90487, SPEC B-340-C7
High Waste Temperature (at TC #) : 60 °F (TC #17)
Date Read : 6/15/93
Riser Elevation (R-4) : 676.72'
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 0.6'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

* Means TC in waste.

1. Elevation relative to tank center bottom

9413276.1140

5. TANK 104-AP CONCRETE DOME & CONCRETE SHELL TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-104-AP-54	/SE	169°	676.46'	53 °F	-Temp. reading
TE-104-AP-57	/SE	169°		_____	date:1/25/93
TE-104-AP-60	/SE	169°		52 °F	
TE-104-AP-63	/SE	169°		_____	
TE-104-AP-66	/SE	169°		_____	
TE-104-AP-69	/SE	169°		_____	
TE-104-AP-72	/SE	169°		_____	
TE-104-AP-75	/SE	169°		_____	
TE-104-AP-78	/SE	169°		_____	
TE-104-AP-81	/SE	169°		_____	
TE-104-AP-84	/SE	169°		_____	
TE-104-AP-87	/SE	169°		_____	
TE-104-AP-90	/SE	169°		_____	
TE-104-AP-93	/SE	169°		_____	
TE-104-AP-96	/SE	169°		_____	
TE-104-AP-99	/SE	169°		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-90466, H-2-90467, H-2-90539
H-2-90477, SHT.5; H-2-90487, SPEC B-340-C5
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 0.6'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1141

5. TANK 104-AP CONCRETE DOME & CONCRETE SHELL TEMPERATURES (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-104-AP-55	/NW	297°	676.46'	_____	
TE-104-AP-58	/NW	297°		_____	
TE-104-AP-61	/NW	297°		_____	
TE-104-AP-64	/NW	297°		_____	
TE-104-AP-67	/NW	297°		_____	
TE-104-AP-70	/NW	297°		_____	
TE-104-AP-73	/NW	297°		_____	
TE-104-AP-76	/NW	297°		_____	
TE-104-AP-79	/NW	297°		_____	
TE-104-AP-82	/NW	297°		_____	
TE-104-AP-85	/NW	297°		_____	
TE-104-AP-88	/NW	297°		_____	
TE-104-AP-91	/NW	297°		_____	
TE-104-AP-94	/NW	297°		_____	
TE-104-AP-97	/NW	297°		_____	
TE-104-AP-100	/NW	297°		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-90466, H-2-90467, H-2-90539, H-2-90487
SPEC B-340-C5
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 0.6'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1142

5. TANK 104-AP CONCRETE DOME & CONCRETE SHELL TEMPERATURES (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-104-AP-56	/NE	48°	676.47'	_____	
TE-104-AP-59	/NE	48°		_____	
TE-104-AP-62	/NE	48°		_____	
TE-104-AP-65	/NE	48°		_____	
TE-104-AP-68	/NE	48°		_____	
TE-104-AP-71	/NE	48°		_____	
TE-104-AP-74	/NE	48°		56 °F	-Temp. reading
TE-104-AP-77	/NE	48°		56 °F	date:1/25/93
TE-104-AP-80	/NE	48°		58 °F	
TE-104-AP-83	/NE	48°		58 °F	
TE-104-AP-86	/NE	48°		_____	
TE-104-AP-89	/NE	48°		_____	
TE-104-AP-92	/NE	48°		_____	
TE-104-AP-95	/NE	48°		_____	
TE-104-AP-98	/NW	48°		_____	
TE-104-AP-101	/NE	48°		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-90466, H-2-90467, H-2-90539, H-2-90487
SPEC B-340-C5
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 0.6'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1143

1. TANK 105-AP INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-105-AP-1	7.0'/NE	41°	676.45'	_____	
TE-105-AP-2	7.0'/SE	117°	676.47'	_____	
TE-105-AP-3	7.0'/SW	228°	676.45'	_____	
TE-105-AP-4	7.0'/NW	297°	676.46'	_____	
TE-105-AP-5	21.0'/NE	349°	676.46'	_____	
TE-105-AP-6	21.0'/NE	41°		_____	
TE-105-AP-7	21.0'/SE	117°		_____	
TE-105-AP-8	21.0'/SE	154°	676.46'	_____	
TE-105-AP-9	21.0'/SW	154°		_____	
TE-105-AP-10	21.0'/SW	228°		_____	
TE-105-AP-11	21.0'/NW	297°		_____	
TE-105-AP-12	21.0'/NW	349°		_____	
TE-105-AP-13	36.5'/NE	349°		_____	
TE-105-AP-14	36.5'/NE	41°		_____	
TE-105-AP-15	36.5'/NE	41°		_____	
TE-105-AP-16	36.5'/SE	117°		_____	
TE-105-AP-17	36.5'/SE	117°		_____	
TE-105-AP-18	36.5'/SE	154°		_____	
TE-105-AP-19	36.5'/SW	154°		_____	
TE-105-AP-20	36.5'/SW	228°		_____	
TE-105-AP-21	36.5'/SW	228°		_____	
TE-105-AP-22	36.5'/NW	297°		_____	
TE-105-AP-23	36.5'/NW	297°		_____	
TE-105-AP-24	36.5'/NW	349°		_____	

Type of Thermocouple : Chromel-Constantan (E)

Drawing Number : H-2-90465, H-2-90542, H-2-90487, H-2-90535
H-2-90467, H-2-90477, SPEC B-340-C4

Primary Tank Bottom Elevation (Ft): 624.00'

Waste Level (Ft) : 24.97'

Frequency of Monitoring :

Category : DST

Data Acq. Code/Condition :

9413276.1144

2. TANK 105-AP OUTSIDE PRIMARY TANK WALL TEMPERATURES (OR TANK KNUCLE TEMP.)

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-105-AP-25	37.5'/NW	349°	676.46'	_____	
TE-105-AP-26	37.5'/SE	154°	676.46'	_____	

3. TANK 105-AP CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-105-AP-27	4.0'/SW	228°	676.45'	_____	
TE-105-AP-28	4.0'/SE	117°	676.47'	_____	
TE-105-AP-29	4.0'/NW	349°	676.46'	_____	
TE-105-AP-30	21.0'/SW	228°		_____	
TE-105-AP-31	21.0'/SE	117°		_____	
TE-105-AP-32	21.0'/NW	349°		_____	
TE-105-AP-33	38.0'/SW	228°		_____	
TE-105-AP-34	38.0'/SE	117°		_____	
TE-105-AP-35	38.0'/NW	349°		_____	

Type of Thermocouple : Chromel-Constantan (E)
Drawing Number : H-2-90464, H-2-90465, H-2-90467,H-2-90542
H-2-90535, H-2-90487, SPEC B-340-C4
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 24.97'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1145

4. TANK 105-AP IN-TANK TEMPERATURES

Tag Number / Thermocouple Number	Elevation[1] (Ft)	Temp. °F	Comment
TE-105-AP-36 (TC #1)	38.50	67	
TE-105-AP-37 (TC #2)	34.50	____	- TC tree is located
TE-105-AP-38 (TC #3)	30.50	67	in Riser 4
TE-105-AP-39 (TC #4)	28.50	_____	-Questionable temp. data
TE-105-AP-40 (TC #5)	26.50	66	6/11/93
TE-105-AP-41 (TC #6)	24.50*	_____	
TE-105-AP-42 (TC #7)	22.50*	66	
TE-105-AP-43 (TC #8)	20.50*	_____	
TE-105-AP-44 (TC #9)	18.50*	_____	
TE-105-AP-45 (TC #10)	16.50*	_____	
TE-105-AP-46 (TC #11)	14.50*	69	
TE-105-AP-47 (TC #12)	12.50*	_____	
TE-105-AP-48 (TC #13)	10.50*	_____	
TE-105-AP-49 (TC #14)	8.50*	_____	
TE-105-AP-50 (TC #15)	6.50*	_____	
TE-105-AP-51 (TC #16)	4.50*	_____	
TE-105-AP-52 (TC #17)	2.50*	70	
TE-105-AP-53 (TC #18)	0.50*	_____	

Type of Thermocouple : TREE, Chromel-Constantan (Type E)
Drawing Number : H-2-90490, H-2-90492, H-2-90535, H-2-90487, SPEC B-340-C7
High Waste Temperature (at TC #) : 70 °F (TC #17)
Date Read : 6/11/93
Riser Elevation (R-4) : 676.71'
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 24.97'
Frequency of Monitoring : Weekly
Category : DSI
Data Acq. Code/Condition : Manual

* Means TC in waste.

1. Elevation relative to tank center bottom

9413276.1146

5. TANK 105-AP CONCRETE DOME & CONCRETE SHELL TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-105-AP-54	/NW	349°	676.46'	O/S	-Temp. reading
TE-105-AP-57	/NW	349°		_____	out of service
TE-105-AP-60	/NW	349°		O/S	as of 1/25/93
TE-105-AP-63	/NW	349°		_____	
TE-105-AP-66	/NW	349°		_____	
TE-105-AP-69	/NW	349°		_____	
TE-105-AP-72	/NW	349°		_____	
TE-105-AP-75	/NW	349°		_____	
TE-105-AP-78	/NW	349°		_____	
TE-105-AP-81	/NW	349°		_____	
TE-105-AP-84	/NW	349°		_____	
TE-105-AP-87	/NW	349°		_____	
TE-105-AP-90	/NW	349°		_____	
TE-105-AP-93	/NW	349°		_____	
TE-105-AP-96	/NW	349°		_____	
TE-105-AP-99	/NW	349°		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-90466, H-2-90467, H-2-90535
H-2-90477, SHT.5; H-2-90487, SPEC B-340-C5
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 24.97'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1147

5. TANK 105-AP CONCRETE DOME & CONCRETE SHELL TEMPERATURES (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-105-AP-55	/SE	117°	676.47'	_____	
TE-105-AP-58	/SE	117°		_____	
TE-105-AP-61	/SE	117°		_____	
TE-105-AP-64	/SE	117°		_____	
TE-105-AP-67	/SE	117°		_____	
TE-105-AP-70	/SE	117°		_____	
TE-105-AP-73	/SE	117°		_____	
TE-105-AP-76	/SE	117°		_____	
TE-105-AP-79	/SE	117°		_____	
TE-105-AP-82	/SE	117°		_____	
TE-105-AP-85	/SE	117°		_____	
TE-105-AP-88	/SE	117°		_____	
TE-105-AP-91	/SE	117°		_____	
TE-105-AP-94	/SE	117°		_____	
TE-105-AP-97	/SE	117°		_____	
TE-105-AP-100	/SE	117°		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-90466, H-2-90467, H-2-90535, H-2-90487
SPEC B-340-C5
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 24.97'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

5. TANK 105-AP CONCRETE DOME & CONCRETE SHELL TEMPERATURES (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-105-AP-56	/SW	228°	676.45'	_____	
TE-105-AP-59	/SW	228°		_____	
TE-105-AP-62	/SW	228°		_____	
TE-105-AP-65	/SW	228°		_____	
TE-105-AP-68	/SW	228°		_____	
TE-105-AP-71	/SW	228°		_____	
TE-105-AP-74	/SW	228°		O/S	-Temp. reading
TE-105-AP-77	/SW	228°		O/S	out of service
TE-105-AP-80	/SW	228°		O/S	as of 1/25/93
TE-105-AP-83	/SW	228°		O/S	
TE-105-AP-86	/SW	228°		_____	
TE-105-AP-89	/SW	228°		_____	
TE-105-AP-92	/SW	228°		_____	
TE-105-AP-95	/SW	228°		_____	
TE-105-AP-98	/SW	228°		_____	
TE-105-AP-101	/SW	228°		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-90466, H-2-90467, H-2-90535, H-2-90487
SPEC B-340-C5
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 24.97'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1149

1. TANK 106-AP INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-106-AP-1	7.0'/NW	319°	676.46'	_____	
TE-106-AP-2	7.0'/SW	243°	676.46'	_____	
TE-106-AP-3	7.0'/SE	132°	676.46'	_____	
TE-106-AP-4	7.0'/NE	63°	676.47'	_____	
TE-106-AP-5	21.0'/NW	11°	676.47'	_____	
TE-106-AP-6	21.0'/NW	319°		_____	
TE-106-AP-7	21.0'/SW	243°		_____	
TE-106-AP-8	21.0'/SW	206°	676.47'	_____	
TE-106-AP-9	21.0'/SE	206°		_____	
TE-106-AP-10	21.0'/SE	132°		_____	
TE-106-AP-11	21.0'/NE	63°		_____	
TE-106-AP-12	21.0'/NE	11°		_____	
TE-106-AP-13	36.5'/NW	11°		_____	
TE-106-AP-14	36.5'/NW	319°		_____	
TE-106-AP-15	36.5'/NW	319°		_____	
TE-106-AP-16	36.5'/SW	243°		_____	
TE-106-AP-17	36.5'/SW	243°		_____	
TE-106-AP-18	36.5'/SW	206°		_____	
TE-106-AP-19	36.5'/SE	206°		_____	
TE-106-AP-20	36.5'/SE	132°		_____	
TE-106-AP-21	36.5'/SE	132°		_____	
TE-106-AP-22	36.5'/NE	63°		_____	
TE-106-AP-23	36.5'/NE	63°		_____	
TE-106-AP-24	36.5'/NE	11°		_____	

Type of Thermocouple : Chromel-Constantan (E)

Drawing Number : H-2-90465, H-2-90542, H-2-90487, H-2-90536
H-2-90467, H-2-90477, SPEC B-340-C4

Primary Tank Bottom Elevation (Ft): 624.00'

Waste Level (Ft) : 34.29

Frequency of Monitoring :

Category : DST

Data Acq. Code/Condition :

9413276.1150

2. TANK 106-AP OUTSIDE PRIMARY TANK WALL TEMPERATURES (OR TANK KNUCLE TEMP.)

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-106-AP-25	37.5'/NE	11°	676.47'	_____	
TE-106-AP-26	37.5'/SW	206°	676.47'	_____	

3. TANK 106-AP CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-106-AP-27	4.0'/SW	228°	676.45'	_____	
TE-106-AP-28	4.0'/SE	117°	676.47'	_____	
TE-106-AP-29	4.0'/NW	349°	676.46'	_____	
TE-106-AP-30	21.0'/SW	228°		_____	
TE-106-AP-31	21.0'/SE	117°		_____	
TE-106-AP-32	21.0'/NW	349°		_____	
TE-106-AP-33	38.0'/SW	228°		_____	
TE-106-AP-34	38.0'/SE	117°		_____	
TE-106-AP-35	38.0'/NW	349°		_____	

Type of Thermocouple : Chromel-Constantan (E)
Drawing Number : H-2-90464, H-2-90465, H-2-90467,H-2-90542
H-2-90536, H-2-90487, SPEC B-340-C4
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 34.29'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition : -

9413276.1151

4. TANK 106-AP IN-TANK TEMPERATURES

Tag Number / Thermocouple Number	Elevation[1] (Ft)	Temp. °F	Comment
TE-106-AP-36 (TC #1)	38.50	63	
TE-106-AP-37 (TC #2)	34.50	_____	- TC tree is located
TE-106-AP-38 (TC #3)	30.50*	61	in Riser 4
TE-106-AP-39 (TC #4)	28.50*	_____	
TE-106-AP-40 (TC #5)	26.50*	61	-Questionable temp.
TE-106-AP-41 (TC #6)	24.50*	_____	data 6/11/93
TE-106-AP-42 (TC #7)	22.50*	61	
TE-106-AP-43 (TC #8)	20.50*	_____	
TE-106-AP-44 (TC #9)	18.50*	_____	
TE-106-AP-45 (TC #10)	16.50*	_____	
TE-106-AP-46 (TC #11)	14.50*	61	
TE-106-AP-47 (TC #12)	12.50*	_____	
TE-106-AP-48 (TC #13)	10.50*	_____	
TE-106-AP-49 (TC #14)	8.50*	_____	
TE-106-AP-50 (TC #15)	6.50*	_____	
TE-106-AP-51 (TC #16)	4.50*	_____	
TE-106-AP-52 (TC #17)	2.50*	64	
TE-106-AP-53 (TC #18)	0.50*	_____	

Type of Thermocouple : TREE, Chromel-Constantan (Type E)
Drawing Number : H-2-90490, H-2-90492, H-2-90536, H-2-90487, SPEC B-340-C7
High Waste Temperature (at TC #) : 64 °F (TC #17)
Date Read : 6/11/93
Riser Elevation (R-4) : 676.69'
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 34.29'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

* Means TC in waste.

1. Elevation relative to tank center bottom

5. TANK 106-AP CONCRETE DOME & CONCRETE SHELL TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-106-AP-54	/NE	11°	676.47'	O/S	-Temp. reading
TE-106-AP-57	/NE	11°		_____	out of service
TE-106-AP-60	/NE	11°		O/S	as of 1/25/93
TE-106-AP-63	/NE	11°		_____	
TE-106-AP-66	/NE	11°		_____	
TE-106-AP-69	/NE	11°		_____	
TE-106-AP-72	/NE	11°		_____	
TE-106-AP-75	/NE	11°		_____	
TE-106-AP-78	/NE	11°		_____	
TE-106-AP-81	/NE	11°		_____	
TE-106-AP-84	/NE	11°		_____	
TE-106-AP-87	/NE	11°		_____	
TE-106-AP-90	/NE	11°		_____	
TE-106-AP-93	/NE	11°		_____	
TE-106-AP-96	/NE	11°		_____	
TE-106-AP-99	/NE	11°		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-90466, H-2-90467, H-2-90536
H-2-90477, SHT.5; H-2-90487, SPEC B-340-C5
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 34.29'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1153

5. TANK 106-AP CONCRETE DOME & CONCRETE SHELL TEMPERATURES (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-106-AP-55	/SW	243°	676.46'	_____	
TE-106-AP-58	/SW	243°		_____	
TE-106-AP-61	/SW	243°		_____	
TE-106-AP-64	/SW	243°		_____	
TE-106-AP-67	/SW	243°		_____	
TE-106-AP-70	/SW	243°		_____	
TE-106-AP-73	/SW	243°		_____	
TE-106-AP-76	/SW	243°		_____	
TE-106-AP-79	/SW	243°		_____	
TE-106-AP-82	/SW	243°		_____	
TE-106-AP-85	/SW	243°		_____	
TE-106-AP-88	/SW	243°		_____	
TE-106-AP-91	/SW	243°		_____	
TE-106-AP-94	/SW	243°		_____	
TE-106-AP-97	/SW	243°		_____	
TE-106-AP-100	/SW	243°		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-90466, H-2-90467, H-2-90536, H-2-90487
SPEC B-340-C5
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 34.29'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

5. TANK 106-AP CONCRETE DOME & CONCRETE SHELL TEMPERATURES (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-106-AP-56	/SE	132°	676.46'	_____	
TE-106-AP-59	/SE	132°		_____	
TE-106-AP-62	/SE	132°		_____	
TE-106-AP-65	/SE	132°		_____	
TE-106-AP-68	/SE	132°		_____	
TE-106-AP-71	/SE	132°		_____	
TE-106-AP-74	/SE	132°		O/S	-Temp. reading
TE-106-AP-77	/SE	132°		O/S	out of service
TE-106-AP-80	/SE	132°		O/S	as of 1/25/93
TE-106-AP-83	/SE	132°		O/S	
TE-106-AP-86	/SE	228°		_____	
TE-106-AP-89	/SE	132°		_____	
TE-106-AP-92	/SE	132°		_____	
TE-106-AP-95	/SE	132°		_____	
TE-106-AP-98	/SE	132°		_____	
TE-106-AP-101	/SE	132°		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-90466, H-2-90467, H-2-90536, H-2-90487
SPEC B-340-C5
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 34.29'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1155

1. TANK 107-AP INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-107-AP-1	7.0'/NE	41°	676.45'	_____	
TE-107-AP-2	7.0'/SE	117°	676.46'	_____	
TE-107-AP-3	7.0'/SW	228°	676.48'	_____	
TE-107-AP-4	7.0'/NW	297°	676.46'	_____	
TE-107-AP-5	21.0'/NE	349°	676.47'	_____	
TE-107-AP-6	21.0'/NE	41°		_____	
TE-107-AP-7	21.0'/SE	117°		_____	
TE-107-AP-8	21.0'/SE	154°	676.47'	_____	
TE-107-AP-9	21.0'/SW	154°		_____	
TE-107-AP-10	21.0'/SW	228°		_____	
TE-107-AP-11	21.0'/NW	297°		_____	
TE-107-AP-12	21.0'/NW	349°		_____	
TE-107-AP-13	36.0'/NE	349°		_____	
TE-107-AP-14	36.0'/NE	41°		_____	
TE-107-AP-15	36.0'/NE	41°		_____	
TE-107-AP-16	36.0'/SE	117°		_____	
TE-107-AP-17	36.0'/SE	117°		_____	
TE-107-AP-18	36.0'/SE	154°		_____	
TE-107-AP-19	36.0'/SW	154°		_____	
TE-107-AP-20	36.0'/SW	228°		_____	
TE-107-AP-21	36.0'/SW	228°		_____	
TE-107-AP-22	36.0'/NW	297°		_____	
TE-107-AP-23	36.0'/NW	297°		_____	
TE-107-AP-24	36.0'/NW	349°		_____	

Type of Thermocouple : Chromel-Constantan (E)

Drawing Number : H-2-90465, H-2-90542, H-2-90487, H-2-90535
H-2-90467, H-2-90477, SPEC B-340-C4

Primary Tank Bottom Elevation (Ft): 624.00'

Waste Level (Ft) : 34.01'

Frequency of Monitoring :

Category : DST

Data Acq. Code/Condition :

2. TANK 107-AP OUTSIDE PRIMARY TANK WALL TEMPERATURES (OR TANK KNUCLE TEMP.)

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-107-AP-25	37.5'/NW	349°	676.47'	_____	
TE-107-AP-26	37.5'/SE	154°	676.47'	_____	

3. TANK 107-AP CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-107-AP-27	4.0'/SW	228°	676.48'	_____	
TE-107-AP-28	4.0'/SE	117°	676.46'	_____	
TE-107-AP-29	4.0'/NW	349°	676.47'	_____	
TE-107-AP-30	21.0'/SW	228°		_____	
TE-107-AP-31	21.0'/SE	117°		_____	
TE-107-AP-32	21.0'/NW	349°		_____	
TE-107-AP-33	38.0'/SW	228°		_____	
TE-107-AP-34	38.0'/SE	117°		_____	
TE-107-AP-35	38.0'/NW	349°		_____	

Type of Thermocouple : Chromel-Constantan (E)
Drawing Number : H-2-90464, H-2-90465, H-2-90467,H-2-90542
H-2-90535, H-2-90487, SPEC B-340-C4
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 34.01'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1157

4. TANK 107-AP IN-TANK TEMPERATURES

Tag Number / Thermocouple Number	Elevation[1] (Ft)	Temp. °F	Comment
TE-107-AP-36 (TC #1)	38.50	58	
TE-107-AP-37 (TC #2)	34.50	_____	- TC tree is located
TE-107-AP-38 (TC #3)	30.50*	54	in Riser 4
TE-107-AP-39 (TC #4)	28.50*	_____	
TE-107-AP-40 (TC #5)	26.50*	54	-Questionable temp. data
TE-107-AP-41 (TC #6)	24.50*	_____	6/11/93.
TE-107-AP-42 (TC #7)	22.50*	54	
TE-107-AP-43 (TC #8)	20.50*	_____	
TE-107-AP-44 (TC #9)	18.50*	_____	
TE-107-AP-45 (TC #10)	16.50*	_____	
TE-107-AP-46 (TC #11)	14.50*	54	
TE-107-AP-47 (TC #12)	12.50*	_____	
TE-107-AP-48 (TC #13)	10.50*	_____	
TE-107-AP-49 (TC #14)	8.50*	_____	
TE-107-AP-50 (TC #15)	6.50*	_____	
TE-107-AP-51 (TC #16)	4.50*	_____	
TE-107-AP-52 (TC #17)	2.50*	54	
TE-107-AP-53 (TC #18)	0.50*	_____	

Type of Thermocouple : TREE, Chromel-Constantan (Type E)
Drawing Number : H-2-90490, H-2-90492, H-2-90535, H-2-90487, SPEC B-340-C7
High Waste Temperature (at TC #) : 54 °F (TC # 3,5,7,11,17)
Date Read : 6/11/93
Riser Elevation (R-4) : 676.70'
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 34.01'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

* Means TC in waste.

1. Elevation relative to tank center bottom

9413276.1159

5. TANK 107-AP CONCRETE DOME & CONCRETE SHELL TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-107-AP-54	/NW	349°	676.47'	O/S	-Temp. reading
TE-107-AP-57	/NW	349°		_____	out of service
TE-107-AP-60	/NW	349°		O/S	as of 1/25/93
TE-107-AP-63	/NW	349°		_____	
TE-107-AP-66	/NW	349°		_____	
TE-107-AP-69	/NW	349°		_____	
TE-107-AP-72	/NW	349°		_____	
TE-107-AP-75	/NW	349°		_____	
TE-107-AP-78	/NW	349°		_____	
TE-107-AP-81	/NW	349°		_____	
TE-107-AP-84	/NW	349°		_____	
TE-107-AP-87	/NW	349°		_____	
TE-107-AP-90	/NW	349°		_____	
TE-107-AP-93	/NW	349°		_____	
TE-107-AP-96	/NW	349°		_____	
TE-107-AP-99	/NW	349°		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-90466, H-2-90467, H-2-90535
H-2-90477, SHT.5; H-2-90487, SPEC B-340-C5
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 34.01'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1159

5. TANK 107-AP CONCRETE DOME & CONCRETE SHELL TEMPERATURES (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-107-AP-55	/SE	117°	676.46'	_____	
TE-107-AP-58	/SE	117°		_____	
TE-107-AP-61	/SE	117°		_____	
TE-107-AP-64	/SE	117°		_____	
TE-107-AP-67	/SE	117°		_____	
TE-107-AP-70	/SE	117°		_____	
TE-107-AP-73	/SE	117°		_____	
TE-107-AP-76	/SE	117°		_____	
TE-107-AP-79	/SE	117°		_____	
TE-107-AP-82	/SE	117°		_____	
TE-107-AP-85	/SE	117°		_____	
TE-107-AP-88	/SE	117°		_____	
TE-107-AP-91	/SE	117°		_____	
TE-107-AP-94	/SE	117°		_____	
TE-107-AP-97	/SE	117°		_____	
TE-107-AP-100	/SE	117°		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-90466, H-2-90467, H-2-90535, H-2-90487
SPEC B-340-C5
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 34.01'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

5. TANK 107-AP CONCRETE DOME & CONCRETE SHELL TEMPERATURES (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-107-AP-56	/SW	228°	676.48'	_____	
TE-107-AP-59	/SW	228°		_____	
TE-107-AP-62	/SW	228°		_____	
TE-107-AP-65	/SW	228°		_____	
TE-107-AP-68	/SW	228°		_____	
TE-107-AP-71	/SW	228°		_____	
TE-107-AP-74	/SW	228°		O/S	-Temp. reading
TE-107-AP-77	/SW	228°		O/S	out of service
TE-107-AP-80	/SW	228°		O/S	as of 1/25/93
TE-107-AP-83	/SW	228°		O/S	
TE-107-AP-86	/SW	228°		_____	
TE-107-AP-89	/SW	228°		_____	
TE-107-AP-92	/SW	228°		_____	
TE-107-AP-95	/SW	228°		_____	
TE-107-AP-98	/SW	228°		_____	
TE-107-AP-101	/SW	228°		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-90466, H-2-90467, H-2-90535, H-2-90487
SPEC B-340-C5
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 34.01'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1161

1. TANK 108-AP INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-108-AP-1	7.0'/NW	319°	676.46'	_____	
TE-108-AP-2	7.0'/SW	243°	676.47'	_____	
TE-108-AP-3	7.0'/SE	132°	676.47'	_____	
TE-108-AP-4	7.0'/NE	63°	676.47'	_____	
TE-108-AP-5	21.0'/NW	11°	676.47'	_____	
TE-108-AP-6	21.0'/NW	319°		_____	
TE-108-AP-7	21.0'/SW	243°		_____	
TE-108-AP-8	21.0'/SW	206°	676.46'	_____	
TE-108-AP-9	21.0'/SE	206°		_____	
TE-108-AP-10	21.0'/SE	132°		_____	
TE-108-AP-11	21.0'/NE	63°		_____	
TE-108-AP-12	21.0'/NE	11°		_____	
TE-108-AP-13	36.5'/NW	11°		_____	
TE-108-AP-14	36.5'/NW	319°		_____	
TE-108-AP-15	36.5'/NW	319°		_____	
TE-108-AP-16	36.5'/SW	243°		_____	
TE-108-AP-17	36.5'/SW	243°		_____	
TE-108-AP-18	36.5'/SW	206°		_____	
TE-108-AP-19	36.5'/SE	206°		_____	
TE-108-AP-20	36.5'/SE	132°		_____	
TE-108-AP-21	36.5'/SE	132°		_____	
TE-108-AP-22	36.5'/NE	63°		_____	
TE-108-AP-23	36.5'/NE	63°		_____	
TE-108-AP-24	36.5'/NE	11°		_____	

Type of Thermocouple : Chromel-Constantan (E)
Drawing Number : H-2-90465, H-2-90542, H-2-90487, H-2-90536
H-2-90467, H-2-90477, SPEC B-340-C4
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 27.41'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

2. TANK 108-AP OUTSIDE PRIMARY TANK WALL TEMPERATURES (OR TANK KNUCLE TEMP.)

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-108-AP-25	37.5'/NE	11°	676.47'	_____	
TE-108-AP-26	37.5'/SW	206°	676.46'	_____	

3. TANK 108-AP CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-108-AP-27	4.0'/SW	228°	676.45'	_____	
TE-108-AP-28	4.0'/SE	117°	676.47'	_____	
TE-108-AP-29	4.0'/NW	349°	676.46'	_____	
TE-108-AP-30	21.0'/SW	228°		_____	
TE-108-AP-31	21.0'/SE	117°		_____	
TE-108-AP-32	21.0'/NW	349°		_____	
TE-108-AP-33	38.0'/SW	228°		_____	
TE-108-AP-34	38.0'/SE	117°		_____	
TE-108-AP-35	38.0'/NW	349°		_____	

Type of Thermocouple : Chromel-Constantan (E)
Drawing Number : H-2-90464, H-2-90465, H-2-90467,H-2-90542
H-2-90536, H-2-90487, SPEC B-340-C4
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 27.41'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1163

4. TANK 108-AP IN-TANK TEMPERATURES

Tag Number / Thermocouple Number	Elevation[1] (Ft)	Temp. °F	Comment
TE-108-AP-36 (TC #1)	38.50	62	
TE-108-AP-37 (TC #2)	34.50	_____	- TC tree is located
TE-108-AP-38 (TC #3)	30.50	63	in Riser 4
TE-108-AP-39 (TC #4)	28.50	_____	
TE-108-AP-40 (TC #5)	26.50*	61	-Temp. reading out
TE-108-AP-41 (TC #6)	24.50*	_____	of service as of
TE-108-AP-42 (TC #7)	22.50*	61	1/25/93
TE-108-AP-43 (TC #8)	20.50*	_____	
TE-108-AP-44 (TC #9)	18.50*	_____	
TE-108-AP-45 (TC #10)	16.50*	_____	
TE-108-AP-46 (TC #11)	14.50*	61	
TE-108-AP-47 (TC #12)	12.50*	_____	
TE-108-AP-48 (TC #13)	10.50*	_____	
TE-108-AP-49 (TC #14)	8.50*	_____	
TE-108-AP-50 (TC #15)	6.50*	_____	
TE-108-AP-51 (TC #16)	4.50*	_____	
TE-108-AP-52 (TC #17)	2.50*	60	
TE-108-AP-53 (TC #18)	0.50*	_____	

Type of Thermocouple : TREE, Chromel-Constantan (Type E)
Drawing Number : H-2-90490, H-2-90492, H-2-90536, H-2-90487, SPEC B-340-C7
High Waste Temperature (at TC #) : 61 °F (TC # 5,7,11)
Date Read : 6/11/93
Riser Elevation (R-4) : 676.71'
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 27.41'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

* Means TC in waste.

1. Elevation relative to tank center bottom

5. TANK 108-AP CONCRETE DOME & CONCRETE SHELL TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-108-AP-54	/NE	11°	676.47'	O/S	-Temp. reading
TE-108-AP-57	/NE	11°		_____	out of service
TE-108-AP-60	/NE	11°		O/S	as of 1/25/93
TE-108-AP-63	/NE	11°		_____	
TE-108-AP-66	/NE	11°		_____	
TE-108-AP-69	/NE	11°		_____	
TE-108-AP-72	/NE	11°		_____	
TE-108-AP-75	/NE	11°		_____	
TE-108-AP-78	/NE	11°		_____	
TE-108-AP-81	/NE	11°		_____	
TE-108-AP-84	/NE	11°		_____	
TE-108-AP-87	/NE	11°		_____	
TE-108-AP-90	/NE	11°		_____	
TE-108-AP-93	/NE	11°		_____	
TE-108-AP-96	/NE	11°		_____	
TE-108-AP-99	/NE	11°		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-90466, H-2-90467, H-2-90536
H-2-90477, SHT.5; H-2-90487, SPEC B-340-C5
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 27.41'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1165

5. TANK 108-AP CONCRETE DOME & CONCRETE SHELL TEMPERATURES (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-108-AP-55	/SW	243°	676.47'	_____	
TE-108-AP-58	/SW	243°		_____	
TE-108-AP-61	/SW	243°		_____	
TE-108-AP-64	/SW	243°		_____	
TE-108-AP-67	/SW	243°		_____	
TE-108-AP-70	/SW	243°		_____	
TE-108-AP-73	/SW	243°		_____	
TE-108-AP-76	/SW	243°		_____	
TE-108-AP-79	/SW	243°		_____	
TE-108-AP-82	/SW	243°		_____	
TE-108-AP-85	/SW	243°		_____	
TE-108-AP-88	/SW	243°		_____	
TE-108-AP-91	/SW	243°		_____	
TE-108-AP-94	/SW	243°		_____	
TE-108-AP-97	/SW	243°		_____	
TE-108-AP-100	/SW	243°		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-90466, H-2-90467, H-2-90536, H-2-90487
SPEC B-340-C5
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 27.41'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

5. TANK 108-AP CONCRETE DOME & CONCRETE SHELL TEMPERATURES (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser #19 (Degrees)	Riser Elevation	Temp °F	Comment
TE-108-AP-56	/SE	132°	676.47'	_____	
TE-108-AP-59	/SE	132°		_____	
TE-108-AP-62	/SE	132°		_____	
TE-108-AP-65	/SE	132°		_____	
TE-108-AP-68	/SE	132°		_____	
TE-108-AP-71	/SE	132°		_____	
TE-108-AP-74	/SE	132°		O/S	-Temp. reading
TE-108-AP-77	/SE	132°		O/S	out of service
TE-108-AP-80	/SE	132°		O/S	as of 1/25/93
TE-108-AP-83	/SE	132°		O/S	
TE-108-AP-86	/SE	228°		_____	
TE-108-AP-89	/SE	132°		_____	
TE-108-AP-92	/SE	132°		_____	
TE-108-AP-95	/SE	132°		_____	
TE-108-AP-98	/SE	132°		_____	
TE-108-AP-101	/SE	132°		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-90466, H-2-90467, H-2-90536, H-2-90487
SPEC B-340-C5
Primary Tank Bottom Elevation (Ft): 624.00'
Waste Level (Ft) : 27.41'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

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THERMOCOUPLE STATUS

AW-FARM

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1. TANK 101-AW INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-101-AW-1	7.0'/SW	19A	687.75'	_____	-Watch list tank
TE-101-AW-2	7.0'/NW	19B	687.75'	_____	
TE-101-AW-3	7.0'/NE	19D	687.75'	_____	
TE-101-AW-4	7.0'/SE	19E	687.75'	_____	
TE-101-AW-5	21.0'/SW	19F	687.75'	_____	
TE-101-AW-6	21.0'/SW	19A		_____	
TE-101-AW-7	21.0'/NW	19B		_____	
TE-101-AW-8	21.0'/NW	19C	687.75'	_____	
TE-101-AW-9	21.0'/NE	19C		_____	
TE-101-AW-10	21.0'/NE	19D		_____	
TE-101-AW-11	21.0'/SE	19E		_____	
TE-101-AW-12	21.0'/SE	19F		_____	
TE-101-AW-13	36.5'/SW	19F		_____	
TE-101-AW-14	36.5'/SW	19A		_____	
TE-101-AW-15	36.5'/SW	19A		_____	
TE-101-AW-16	36.5'/NW	19B		_____	
TE-101-AW-17	36.5'/NW	19B		_____	
TE-101-AW-18	36.5'/NW	19C		_____	
TE-101-AW-19	36.5'/NE	19C		_____	
TE-101-AW-20	36.5'/NE	19D		_____	
TE-101-AW-21	36.5'/NE	19D		_____	
TE-101-AW-22	36.5'/SE	19E		_____	
TE-101-AW-23	36.5'/SE	19E		_____	
TE-101-AW-24	36.5'/SE	19F		_____	

Type of Thermocouple : Chromel-constantan (E)
Drawing Number : H-2-70344, H-2-70353, H-2-70348
B-120-C7
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 34.56'
Frequency of Monitoring : Weekly
Category : Watch list tank, DST
Data Acq. Code/Condition : Manual

9413276.1169

2. TANK 101-AW OUTSIDE PRIMARY TANK WALL TEMPERATURES (OR TANK KNUCLE TEMP.)

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-101-AW-25	37.5'/NW	19F	687.75'	_____	-Watch List tank.
TE-101-AW-26	37.5'/SE	19C	687.75'	_____	

3. TANK 101-AW CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-101-AW-27	4.0'/NE	19D	687.75'	_____	
TE-101-AW-28	4.0'/NW	19B	687.75'	_____	
TE-101-AW-29	4.0'/SE	19F	687.75'	_____	
TE-101-AW-30	21.0'/NE	19D		_____	
TE-101-AW-31	21.0'/NW	19B		_____	
TE-101-AW-32	21.0'/SE	19F		_____	
TE-101-AW-33	38.0'/NE	19D		_____	
TE-101-AW-34	38.0'/NW	19B		_____	
TE-101-AW-35	38.0'/SE	19F		_____	

Type of Thermocouple : Chromel-constantan (E)
Drawing Number : H-2-70343, H-2-70344, H-2-70348, H-2-70353
B-120-C7
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 34.56'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

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4. TANK 101-AW IN-TANK TEMPERATURES

Tag Number / Thermocouple Number	Elevation[1] (Ft)	Temp. °F	Comment
TE-101-AW-36 (TC #1)	0.33*	100 °F	- Watch list tank .
TE-101-AW-37 (TC #2)	2.33*	_____	- TC tree is located
TE-101-AW-38 (TC #3)	4.33*	107 °F	in Riser 4A
TE-101-AW-39 (TC #4)	6.33*	_____	
TE-101-AW-40 (TC #5)	8.33*	104 °F	
TE-101-AW-41 (TC #6)	10.33*	_____	
TE-101-AW-42 (TC #7)	12.33*	98 °F	
TE-101-AW-43 (TC #8)	14.33*	_____	
TE-101-AW-44 (TC #9)	16.33*	_____	
TE-101-AW-45 (TC #10)	18.33*	_____	
TE-101-AW-46 (TC #11)	20.33*	98 °F	
TE-101-AW-47 (TC #12)	22.33*	_____	
TE-101-AW-48 (TC #13)	24.33*	_____	
TE-101-AW-49 (TC #14)	26.33*	_____	
TE-101-AW-50 (TC #15)	28.33*	_____	
TE-101-AW-51 (TC #16)	30.33*	_____	
TE-101-AW-52 (TC #17)	34.33	91 °F	
TE-101-AW-53 (TC #18)	38.33	_____	

Type of Thermocouple : TREE, Iron-constantan (Type J)
Drawing Number : H-2-34304, H-2-70353, H-2-70348
High Waste Temperature (at TC #) : 107 °F (TC #3)
Date Read : 7/19/93
Riser Elevation (R-4A) : 687.75'
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 31.43'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

* Means TC in waste.

1. Elevation relative to tank center bottom

9413276.1171

5. TANK 101-AW CONCRETE DOME TEMPERATURE

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-101-AW-54	/SE	19F	687.75'	84 °F	-Temp. reading
TE-101-AW-57	/SE	19F		_____	date:1/25/93
TE-101-AW-60	/SE	19F		87 °F	-Watch list tank.
TE-101-AW-63	/SE	19F		_____	
TE-101-AW-66	/SE	19F		_____	
TE-101-AW-69	/SE	19F		_____	
TE-101-AW-72	/SE	19F		_____	
TE-101-AW-75	/SE	19F		_____	
TE-101-AW-78	/SE	19F		_____	
TE-101-AW-81	/SE	19F		_____	
TE-101-AW-84	/SE	19F		_____	
TE-101-AW-87	/SE	19F		_____	
TE-101-AW-90	/SE	19F		_____	
TE-101-AW-93	/SE	19F		_____	
TE-101-AW-96	/SE	19F		_____	
TE-101-AW-99	/SE	19F		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-70347, H-2-70348, H-2-70353
B-120-C5
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 34.56'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1172

5. TANK 101-AW CONCRETE DOME TEMPERATURE (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-101-AW-55	/NW	19B	687.75'	_____	-Watch List tank.
TE-101-AW-58	/NW	19B		_____	
TE-101-AW-61	/NW	19B		_____	
TE-101-AW-64	/NW	19B		_____	
TE-101-AW-67	/NW	19B		_____	
TE-101-AW-70	/NW	19B		_____	
TE-101-AW-73	/NW	19B		_____	
TE-101-AW-76	/NW	19B		_____	
TE-101-AW-79	/NW	19B		_____	
TE-101-AW-82	/NW	19B		_____	
TE-101-AW-85	/NW	19B		_____	
TE-101-AW-88	/NW	19B		_____	
TE-101-AW-91	/NW	19B		_____	
TE-101-AW-94	/NW	19B		_____	
TE-101-AW-97	/NW	19B		_____	
TE-101-AW-100	/NW	19B		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-70347, H-2-70348, H-2-70353
B-120-C5
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 34.56'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1173

5. TANK 101-AW CONCRETE DOME TEMPERATURE (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-101-AW-56	/NE	19D	687.75'	_____	-Watch List tank.
TE-101-AW-59	/NE	19D		_____	
TE-101-AW-62	/NE	19D		_____	
TE-101-AW-65	/NE	19D		_____	
TE-101-AW-68	/NE	19D		_____	
TE-101-AW-71	/NE	19D		_____	
TE-101-AW-74	/NE	19D		88 °F	-Temp. reading
TE-101-AW-77	/NE	19D		89 °F	date:1/25/93
TE-101-AW-80	/NE	19D		91 °F	
TE-101-AW-83	/NE	19D		90 °F	
TE-101-AW-86	/NE	19D		_____	
TE-101-AW-89	/NE	19D		_____	
TE-101-AW-92	/NE	19D		_____	
TE-101-AW-95	/NE	19D		_____	
TE-101-AW-98	/NE	19D		_____	
TE-101-AW-101	/NE	19D		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-70347, H-2-70348, H-2-70353
B-120-C5
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 34.56'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1174

1. TANK 102-AW INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-102-AW-1	7.0'/SW	19A	687.75'	_____	
TE-102-AW-2	7.0'/NW	19B	687.75'	_____	
TE-102-AW-3	7.0'/NE	19D	687.75'	_____	
TE-102-AW-4	7.0'/SE	19E	687.75'	_____	
TE-102-AW-5	21.0'/SW	19F	687.75'	_____	
TE-102-AW-6	21.0'/SW	19A		_____	
TE-102-AW-7	21.0'/NW	19B		_____	
TE-102-AW-8	21.0'/NW	19C	687.75'	_____	
TE-102-AW-9	21.0'/NE	19C		_____	
TE-102-AW-10	21.0'/NE	19D		_____	
TE-102-AW-11	21.0'/SE	19E		_____	
TE-102-AW-12	21.0'/SE	19F		_____	
TE-102-AW-13	36.5'/SW	19F		_____	
TE-102-AW-14	36.5'/SW	19A		_____	
TE-102-AW-15	36.5'/SW	19A		_____	
TE-102-AW-16	36.5'/NW	19B		_____	
TE-102-AW-17	36.5'/NW	19B		_____	
TE-102-AW-18	36.5'/NW	19C		_____	
TE-102-AW-19	36.5'/NE	19C		_____	
TE-102-AW-20	36.5'/NE	19D		_____	
TE-102-AW-21	36.5'/NE	19D		_____	
TE-102-AW-22	36.5'/SE	19E		_____	
TE-102-AW-23	36.5'/SE	19E		_____	
TE-102-AW-24	36.5'/SE	19F		_____	

Type of Thermocouple : Chromel-constantan (E)
Drawing Number : H-2-70344, H-2-70353, H-2-70349
B-120-C7
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 31.43'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1175

2. TANK 102-AW OUTSIDE PRIMARY TANK WALL TEMPERATURES (OR TANK KNUCLE TEMP.)

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-102-AW-25	37.5'/NW	19F	687.75'	_____	
TE-102-AW-26	37.5'/SE	19C	687.75'	_____	

3. TANK 102-AW CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-102-AW-27	4.0'/NE	19D		_____	
TE-102-AW-28	4.0'/NW	19B		_____	
TE-102-AW-29	4.0'/SE	19F		_____	
TE-102-AW-30	21.0'/NE	19D		_____	
TE-102-AW-31	21.0'/NW	19B		_____	
TE-102-AW-32	21.0'/SE	19F		_____	
TE-102-AW-33	38.0'/NE	19D		_____	
TE-102-AW-34	38.0'/NW	19B		_____	
TE-102-AW-35	38.0'/SE	19F		_____	

Type of Thermocouple : Chromel-constantan (E)
Drawing Number : H-2-70343, H-2-70344, H-2-70349, H-2-70353
B-120-C7
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 31.43'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1176

4. TANK 102-AW IN-TANK TEMPERATURES

Tag Number / Thermocouple Number	Elevation[1] (Ft)	Temp. °F	Comment
TE-102-AW-36 (TC #1)	0.33*	63 °F	
TE-102-AW-37 (TC #2)	2.33*	_____	- TC tree is located
TE-102-AW-38 (TC #3)	4.33*	60 °F	in Riser 4A
TE-102-AW-39 (TC #4)	6.33*	_____	
TE-102-AW-40 (TC #5)	8.33*	60 °F	
TE-102-AW-41 (TC #6)	10.33*	_____	
TE-102-AW-42 (TC #7)	12.33*	60 °F	
TE-102-AW-43 (TC #8)	14.33*	_____	
TE-102-AW-44 (TC #9)	16.33*	_____	
TE-102-AW-45 (TC #10)	18.33*	_____	
TE-102-AW-46 (TC #11)	20.33*	60 °F	
TE-102-AW-47 (TC #12)	22.33*	_____	
TE-102-AW-48 (TC #13)	24.33*	_____	
TE-102-AW-49 (TC #14)	26.33*	_____	
TE-102-AW-50 (TC #15)	28.33*	_____	
TE-102-AW-51 (TC #16)	30.33*	_____	
TE-102-AW-52 (TC #17)	34.33	65 °F	
TE-102-AW-53 (TC #18)	38.33	_____	

Type of Thermocouple : TREE, Iron-constantan (Type J)
Drawing Number : H-2-34304, H-2-70349, H-2-70353
High Waste Temperature (at TC #) : 63 °F (TC #1)
Date Read : 6/28/93
Riser Elevation (R-4A) : 687.75'
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 31.43'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

* Means TC in waste

1. Elevation relative to tank center bottom

5. TANK 102-AW CONCRETE DOME TEMPERATURE

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-102-AW-54	/SE	19F	687.75'	62 °F	-Temp. reading
TE-102-AW-57	/SE	19F		_____	date:1/25/93
TE-102-AW-60	/SE	19F		61 °F	
TE-102-AW-63	/SE	19F		_____	
TE-102-AW-66	/SE	19F		_____	
TE-102-AW-69	/SE	19F		_____	
TE-102-AW-72	/SE	19F		_____	
TE-102-AW-75	/SE	19F		_____	
TE-102-AW-78	/SE	19F		_____	
TE-102-AW-81	/SE	19F		_____	
TE-102-AW-84	/SE	19F		_____	
TE-102-AW-87	/SE	19F		_____	
TE-102-AW-90	/SE	19F		_____	
TE-102-AW-93	/SE	19F		_____	
TE-102-AW-96	/SE	19F		_____	
TE-102-AW-99	/SE	19F		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-70347, H-2-70349, H-2-70353
B-120-C5
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 31.43'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1178

5. TANK 102-AW CONCRETE DOME TEMPERATURE (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-102-AW-55	/NW	19B	687.75'	_____	
TE-102-AW-58	/NW	19B		_____	
TE-102-AW-61	/NW	19B		_____	
TE-102-AW-64	/NW	19B		_____	
TE-102-AW-67	/NW	19B		_____	
TE-102-AW-70	/NW	19B		_____	
TE-102-AW-73	/NW	19B		_____	
TE-102-AW-76	/NW	19B		_____	
TE-102-AW-79	/NW	19B		_____	
TE-102-AW-82	/NW	19B		_____	
TE-102-AW-85	/NW	19B		_____	
TE-102-AW-88	/NW	19B		_____	
TE-102-AW-91	/NW	19B		_____	
TE-102-AW-94	/NW	19B		_____	
TE-102-AW-97	/NW	19B		_____	
TE-102-AW-100	/NW	19B		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-70347, H-2-70349, H-2-70353
B-120-C5
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 31.43'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

5. TANK 102-AW CONCRETE DOME TEMPERATURE (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-102-AW-56	/NE	19D	687.75'	_____	
TE-102-AW-59	/NE	19D		_____	
TE-102-AW-62	/NE	19D		_____	
TE-102-AW-65	/NE	19D		_____	
TE-102-AW-68	/NE	19D		_____	
TE-102-AW-71	/NE	19D		_____	
TE-102-AW-74	/NE	19D		63 °F	-Temp. reading
TE-102-AW-77	/NE	19D		62 °F	date:1/25/93
TE-102-AW-80	/NE	19D		59 °F	
TE-102-AW-83	/NE	19D		60 °F	
TE-102-AW-86	/NE	19D		_____	
TE-102-AW-89	/NE	19D		_____	
TE-102-AW-92	/NE	19D		_____	
TE-102-AW-95	/NE	19D		_____	
TE-102-AW-98	/NE	19D		_____	
TE-102-AW-101	/NE	19D		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-70347, H-2-70349, H-2-70353
B-120-C5
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 31.43'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1180

1. TANK 103-AW INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-103-AW-1	7.0'/NE	19A	687.75'	_____	
TE-103-AW-2	7.0'/SE	19B	687.75'	_____	
TE-103-AW-3	7.0'/SW	19D	687.75'	_____	
TE-103-AW-4	7.0'/NW	19E	687.75'	_____	
TE-103-AW-5	21.0'/NE	19F	687.75'	_____	
TE-103-AW-6	21.0'/NE	19A		_____	
TE-103-AW-7	21.0'/SE	19B		_____	
TE-103-AW-8	21.0'/SE	19C	687.75'	_____	
TE-103-AW-9	21.0'/SW	19C		_____	
TE-103-AW-10	21.0'/SW	19D		_____	
TE-103-AW-11	21.0'/NW	19E		_____	
TE-103-AW-12	21.0'/NW	19F		_____	
TE-103-AW-13	36.5'/NE	19F		_____	
TE-103-AW-14	36.5'/NE	19A		_____	
TE-103-AW-15	36.5'/NE	19A		_____	
TE-103-AW-16	36.5'/SE	19B		_____	
TE-103-AW-17	36.5'/SE	19B		_____	
TE-103-AW-18	36.5'/SE	19C		_____	
TE-103-AW-19	36.5'/SW	19C		_____	
TE-103-AW-20	36.5'/SW	19D		_____	
TE-103-AW-21	36.5'/SW	19D		_____	
TE-103-AW-22	36.5'/NW	19E		_____	
TE-103-AW-23	36.5'/NW	19E		_____	
TE-103-AW-24	36.5'/NW	19F		_____	

Type of Thermocouple : Chromel-constantan (E)
Drawing Number : H-2-70344, H-2-70353, H-2-70348
B-120-C7
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 19.56'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1181

2. TANK 103-AW OUTSIDE PRIMARY TANK WALL TEMPERATURES (OR TANK KNUCLE TEMP.)

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-103-AW-25	37.5'/NW	19F	687.75'	_____	
TE-103-AW-26	37.5'/SE	19C	687.75'	_____	

3. TANK 103-AW CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-103-AW-27	4.0'/SW	19D		_____	
TE-103-AW-28	4.0'/SE	19B		_____	
TE-103-AW-29	4.0'/NW	19F		_____	
TE-103-AW-30	21.0'/SW	19D		_____	
TE-103-AW-31	21.0'/SE	19B		_____	
TE-103-AW-32	21.0'/NW	19F		_____	
TE-103-AW-33	38.0'/SW	19D		_____	
TE-103-AW-34	38.0'/SE	19B		_____	
TE-103-AW-35	38.0'/NW	19F		_____	

Type of Thermocouple : Chromel-constantan (E)
Drawing Number : H-2-70343, H-2-70344, H-2-70348, H-2-70353
B-120-C7
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 19.56'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1182

4. TANK 103-AW IN-TANK TEMPERATURES

Tag Number / Thermocouple Number	Elevation[1] (Ft)	Temp. °F	Comment
TE-103-AW-36 (TC #1)	0.33*	65 °F	
TE-103-AW-37 (TC #2)	2.33*	_____	- TC tree is located
TE-103-AW-38 (TC #3)	4.33*	65 °F	in Riser 4A
TE-103-AW-39 (TC #4)	6.33*	_____	
TE-103-AW-40 (TC #5)	8.33*	64 °F	
TE-103-AW-41 (TC #6)	10.33*	_____	
TE-103-AW-42 (TC #7)	12.33*	62 °F	
TE-103-AW-43 (TC #8)	14.33*	_____	
TE-103-AW-44 (TC #9)	16.33*	_____	
TE-103-AW-45 (TC #10)	18.33*	_____	
TE-103-AW-46 (TC #11)	20.33	62 °F	
TE-103-AW-47 (TC #12)	22.33	_____	
TE-103-AW-48 (TC #13)	24.33	_____	
TE-103-AW-49 (TC #14)	26.33	_____	
TE-103-AW-50 (TC #15)	28.33	_____	
TE-103-AW-51 (TC #16)	30.33	_____	
TE-103-AW-52 (TC #17)	34.33	63 °F	
TE-103-AW-53 (TC #18)	38.33	_____	

Type of Thermocouple : TREE, Iron-constantan (Type J)
Drawing Number : H-2-34304, H-2-70353, H-2-70348
High Waste Temperature (at TC #) : 65 °F (at TC #1,3)
Date Read : 6/28/93
Riser Elevation (R-4A) : ? Unknown (Comment from Melvin Lakes, date: 3/1/93)
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 19.56'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

* Means TC in waste

1. Elevation relative to tank center bottom

5. TANK 103-AW CONCRETE DOME TEMPERATURE

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-103-AW-54	/NW	19F	687.75'	65 °F	-Temp. reading
TE-103-AW-57	/NW	19F		_____	date:1/25/93
TE-103-AW-60	/NW	19F		64 °F	
TE-103-AW-63	/NW	19F		_____	
TE-103-AW-66	/NW	19F		_____	
TE-103-AW-69	/NW	19F		_____	
TE-103-AW-72	/NW	19F		_____	
TE-103-AW-75	/NW	19F		_____	
TE-103-AW-78	/NW	19F		_____	
TE-103-AW-81	/NW	19F		_____	
TE-103-AW-84	/NW	19F		_____	
TE-103-AW-87	/NW	19F		_____	
TE-103-AW-90	/NW	19F		_____	
TE-103-AW-93	/NW	19F		_____	
TE-103-AW-96	/NW	19F		_____	
TE-103-AW-99	/NW	19F		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-70347, H-2-70348, H-2-70353
B-120-C5
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 19.56'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1184

5. TANK 103-AW CONCRETE DOME TEMPERATURE (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-103-AW-55	/SE	19B	687.75'	_____	
TE-103-AW-58	/SE	19B		_____	
TE-103-AW-61	/SE	19B		_____	
TE-103-AW-64	/SE	19B		_____	
TE-103-AW-67	/SE	19B		_____	
TE-103-AW-70	/SE	19B		_____	
TE-103-AW-73	/SE	19B		_____	
TE-103-AW-76	/SE	19B		_____	
TE-103-AW-79	/SE	19B		_____	
TE-103-AW-82	/SE	19B		_____	
TE-103-AW-85	/SE	19B		_____	
TE-103-AW-88	/SE	19B		_____	
TE-103-AW-91	/SE	19B		_____	
TE-103-AW-94	/SE	19B		_____	
TE-103-AW-97	/SE	19B		_____	
TE-103-AW-100	/SE	19B		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-70347, H-2-70348, H-2-70353
B-120-C5
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 19.56'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1185

5. TANK 103-AW CONCRETE DOME TEMPERATURE (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-103-AW-56	/SW	19D	687.75'	_____	
TE-103-AW-59	/SW	19D		_____	
TE-103-AW-62	/SW	19D		_____	
TE-103-AW-65	/SW	19D		_____	
TE-103-AW-68	/SW	19D		_____	
TE-103-AW-71	/SW	19D		_____	
TE-103-AW-74	/SW	19D		67 °F	-Temp. reading
TE-103-AW-77	/SW	19D		66 °F	date:1/25/93
TE-103-AW-80	/SW	19D		64 °F	
TE-103-AW-83	/SW	19D		65 °F	
TE-103-AW-86	/SW	19D		_____	
TE-103-AW-89	/SW	19D		_____	
TE-103-AW-92	/SW	19D		_____	
TE-103-AW-95	/SW	19D		_____	
TE-103-AW-98	/SW	19D		_____	
TE-103-AW-101	/SW	19D		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-70347, H-2-70348, H-2-70353
B-120-C5
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 19.56'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9811.9273.1186

1. TANK 104-AW INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-104-AW-1	7.0'/NE	19A	687.75'	_____	
TE-104-AW-2	7.0'/SE	19B	687.75'	_____	
TE-104-AW-3	7.0'/SW	19D	687.75'	_____	
TE-104-AW-4	7.0'/NW	19E	687.75'	_____	
TE-104-AW-5	21.0'/NE	19F	687.75'	_____	
TE-104-AW-6	21.0'/NE	19A		_____	
TE-104-AW-7	21.0'/SE	19B		_____	
TE-104-AW-8	21.0'/SE	19C	687.75'	_____	
TE-104-AW-9	21.0'/SW	19C		_____	
TE-104-AW-10	21.0'/SW	19D		_____	
TE-104-AW-11	21.0'/NW	19E		_____	
TE-104-AW-12	21.0'/NW	19F		_____	
TE-104-AW-13	36.5'/NE	19F		_____	
TE-104-AW-14	36.5'/NE	19A		_____	
TE-104-AW-15	36.5'/NE	19A		_____	
TE-104-AW-16	36.5'/SE	19B		_____	
TE-104-AW-17	36.5'/SE	19B		_____	
TE-104-AW-18	36.5'/SE	19C		_____	
TE-104-AW-19	36.5'/SW	19C		_____	
TE-104-AW-20	36.5'/SW	19D		_____	
TE-104-AW-21	36.5'/SW	19D		_____	
TE-104-AW-22	36.5'/NW	19E		_____	
TE-104-AW-23	36.5'/NW	19E		_____	
TE-104-AW-24	36.5'/NW	19F		_____	

Type of Thermocouple : Chromel-constantan (E)
Drawing Number : H-2-70344, H-2-70353, H-2-70348
B-120-C7
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 30.07'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1187

2. TANK 104-AW OUTSIDE PRIMARY TANK WALL TEMPERATURES (OR TANK KNUCLE TEMP.)

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-104-AW-25	37.5'/NW	19F	687.75'	_____	
TE-104-AW-26	37.5'/SE	19C	687.75'	_____	

3. TANK 104-AW CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-104-AW-27	4.0'/SW	19D		_____	
TE-104-AW-28	4.0'/SE	19B		_____	
TE-104-AW-29	4.0'/NW	19F		_____	
TE-104-AW-30	21.0'/SW	19D		_____	
TE-104-AW-31	21.0'/SE	19B		_____	
TE-104-AW-32	21.0'/NW	19F		_____	
TE-104-AW-33	38.0'/SW	19D		_____	
TE-104-AW-34	38.0'/SE	19B		_____	
TE-104-AW-35	38.0'/NW	19F		_____	

Type of Thermocouple : Chromel-constantan (E)
Drawing Number : H-2-70343, H-2-70344, H-2-70348, H-2-70353
B-120-C7
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 30.07'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1188

4. TANK 104-AW IN-TANK TEMPERATURES

Tag Number / Thermocouple Number	Elevation, (Ft)	Temp. °F	Comment
TE-104-AW-36 (TC #1)	0.33*	77 °F	
TE-104-AW-37 (TC #2)	2.33*	_____	- TC tree is located
TE-104-AW-38 (TC #3)	4.33*	81 °F	in Riser 4A
TE-104-AW-39 (TC #4)	6.33*	_____	
TE-104-AW-40 (TC #5)	8.33*	75 °F	
TE-104-AW-41 (TC #6)	10.33*	_____	
TE-104-AW-42 (TC #7)	12.33*	69 °F	
TE-104-AW-43 (TC #8)	14.33*	_____	
TE-104-AW-44 (TC #9)	16.33*	_____	
TE-104-AW-45 (TC #10)	18.33*	_____	
TE-104-AW-46 (TC #11)	20.33*	66 °F	
TE-104-AW-47 (TC #12)	22.33*	_____	
TE-104-AW-48 (TC #13)	24.33*	_____	
TE-104-AW-49 (TC #14)	26.33*	_____	
TE-104-AW-50 (TC #15)	28.33*	_____	
TE-104-AW-51 (TC #16)	30.33	_____	
TE-104-AW-52 (TC #17)	34.33	65 °F	
TE-104-AW-53 (TC #18)	38.33	_____	

Type of Thermocouple : TREE, Iron-constantan (Type J)
Drawing Number : H-2-34304, H-2-70353, H-2-70348
High Waste Temperature (at TC #) : 81 °F (TC #1)
Date Read : 6/28/93
Riser Elevation (R-4A) : 687.75'
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 30.07'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

5. TANK 104-AW CONCRETE DOME TEMPERATURE

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-104-AW-54	/NW	19F	687.75'	68 °F	-Temp. reading
TE-104-AW-57	/NW	19F		_____	date:1/25/93
TE-104-AW-60	/NW	19F		67 °F	
TE-104-AW-63	/NW	19F		_____	
TE-104-AW-66	/NW	19F		_____	
TE-104-AW-69	/NW	19F		_____	
TE-104-AW-72	/NW	19F		_____	
TE-104-AW-75	/NW	19F		_____	
TE-104-AW-78	/NW	19F		_____	
TE-104-AW-81	/NW	19F		_____	
TE-104-AW-84	/NW	19F		_____	
TE-104-AW-87	/NW	19F		_____	
TE-104-AW-90	/NW	19F		_____	
TE-104-AW-93	/NW	19F		_____	
TE-104-AW-96	/NW	19F		_____	
TE-104-AW-99	/NW	19F		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-70347, H-2-70348, H-2-70353
B-120-C5
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 30.07'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1190

5. TANK 104-AW CONCRETE DOME TEMPERATURE (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-104-AW-55	/SE	19B	687.75'	_____	
TE-104-AW-58	/SE	19B		_____	
TE-104-AW-61	/SE	19B		_____	
TE-104-AW-64	/SE	19B		_____	
TE-104-AW-67	/SE	19B		_____	
TE-104-AW-70	/SE	19B		_____	
TE-104-AW-73	/SE	19B		_____	
TE-104-AW-76	/SE	19B		_____	
TE-104-AW-79	/SE	19B		_____	
TE-104-AW-82	/SE	19B		_____	
TE-104-AW-85	/SE	19B		_____	
TE-104-AW-88	/SE	19B		_____	
TE-104-AW-91	/SE	19B		_____	
TE-104-AW-94	/SE	19B		_____	
TE-104-AW-97	/SE	19B		_____	
TE-104-AW-100	/SE	19B		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-70347, H-2-70348, H-2-70353
B-120-C5
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 30.07'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

5. TANK 104-AW CONCRETE DOME TEMPERATURE (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-104-AW-56	/SW	19D	687.75'	_____	
TE-104-AW-59	/SW	19D		_____	
TE-104-AW-62	/SW	19D		_____	
TE-104-AW-65	/SW	19D		_____	
TE-104-AW-68	/SW	19D		_____	
TE-104-AW-71	/SW	19D		_____	
TE-104-AW-74	/SW	19D		70 °F	-Temp. reading
TE-104-AW-77	/SW	19D		70 °F	date:1/25/93
TE-104-AW-80	/SW	19D		67 °F	
TE-104-AW-83	/SW	19D		68 °F	
TE-104-AW-86	/SW	19D		_____	
TE-104-AW-89	/SW	19D		_____	
TE-104-AW-92	/SW	19D		_____	
TE-104-AW-95	/SW	19D		_____	
TE-104-AW-98	/SW	19D		_____	
TE-104-AW-101	/SW	19D		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-70347, H-2-70348, H-2-70353
B-120-C5
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 30.07'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1192

1. TANK 105-AW INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-105-AW-1	7.0'/NE	19A	687.75'	_____	
TE-105-AW-2	7.0'/SE	19B	687.75'	_____	
TE-105-AW-3	7.0'/SW	19D	687.75'	_____	
TE-105-AW-4	7.0'/NW	19E	687.75'	_____	
TE-105-AW-5	21.0'/NE	19F	687.75'	_____	
TE-105-AW-6	21.0'/NE	19A		_____	
TE-105-AW-7	21.0'/SE	19B		_____	
TE-105-AW-8	21.0'/SE	19C	687.75'	_____	
TE-105-AW-9	21.0'/SW	19C		_____	
TE-105-AW-10	21.0'/SW	19D		_____	
TE-105-AW-11	21.0'/NW	19E		_____	
TE-105-AW-12	21.0'/NW	19F		_____	
TE-105-AW-13	36.5'/NE	19F		_____	
TE-105-AW-14	36.5'/NE	19A		_____	
TE-105-AW-15	36.5'/NE	19A		_____	
TE-105-AW-16	36.5'/SE	19B		_____	
TE-105-AW-17	36.5'/SE	19B		_____	
TE-105-AW-18	36.5'/SE	19C		_____	
TE-105-AW-19	36.5'/SW	19C		_____	
TE-105-AW-20	36.5'/SW	19D		_____	
TE-105-AW-21	36.5'/SW	19D		_____	
TE-105-AW-22	36.5'/NW	19E		_____	
TE-105-AW-23	36.5'/NW	19E		_____	
TE-105-AW-24	36.5'/NW	19F		_____	

Type of Thermocouple : Chromel-constantan (E)
Drawing Number : H-2-70344, H-2-70353, H-2-70350
B-120-C7
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 27.27'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1193

2. TANK 105-AW OUTSIDE PRIMARY TANK WALL TEMPERATURES (OR TANK KNUCLE TEMP.)

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-105-AW-25	37.5'/NW	19F	687.75'	_____	
TE-105-AW-26	37.5'/SE	19C	687.75'	_____	

3. TANK 105-AW CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-105-AW-27	4.0'/SW	19D		_____	
TE-105-AW-28	4.0'/SE	19B		_____	
TE-105-AW-29	4.0'/NW	19F		_____	
TE-105-AW-30	21.0'/SW	19D		_____	
TE-105-AW-31	21.0'/SE	19B		_____	
TE-105-AW-32	21.0'/NW	19F		_____	
TE-105-AW-33	38.0'/SW	19D		_____	
TE-105-AW-34	38.0'/SE	19B		_____	
TE-105-AW-35	38.0'/NW	19F		_____	

Type of Thermocouple : Chromel-constantan (E)
Drawing Number : H-2-70343, H-2-70344, H-2-70350, H-2-70353
B-120-C7
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 27.27'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1194

4. TANK 105-AW IN-TANK TEMPERATURES

Tag Number / Thermocouple Number	Elevation[1] (Ft)	Temp. °F	Comment
TE-105-AW-36 (TC #1)	0.33*	68 °F	
TE-105-AW-37 (TC #2)	2.33*	_____	- TC tree is located
TE-105-AW-38 (TC #3)	4.33*	67 °F	in Riser 4A
TE-105-AW-39 (TC #4)	6.33*	_____	
TE-105-AW-40 (TC #5)	8.33*	66 °F	
TE-105-AW-41 (TC #6)	10.33*	_____	
TE-105-AW-42 (TC #7)	12.33*	65 °F	
TE-105-AW-43 (TC #8)	14.33*	_____	
TE-105-AW-44 (TC #9)	16.33*	_____	
TE-105-AW-45 (TC #10)	18.33*	_____	
TE-105-AW-46 (TC #11)	20.33*	63 °F	
TE-105-AW-47 (TC #12)	22.33*	_____	
TE-105-AW-48 (TC #13)	24.33*	_____	
TE-105-AW-49 (TC #14)	26.33*	_____	
TE-105-AW-50 (TC #15)	28.33	_____	
TE-105-AW-51 (TC #16)	30.33	_____	
TE-105-AW-52 (TC #17)	34.33	65 °F	
TE-105-AW-53 (TC #18)	38.33	_____	

Type of Thermocouple : TREE, Iron-constantan (Type J)
Drawing Number : H-2-34304, H-2-70353, H-2-70350
High Waste Temperature (at TC #) : 68 °F (TC #1)
Date Read : 6/28/93
Riser Elevation (R-4A) : 687.75'
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 27.27'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

* Means TC in waste

1. Elevation relative to tank center bottom

9413276.1195

5. TANK 105-AW CONCRETE DOME TEMPERATURE

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-105-AW-54	/NW	19F	687.75'	65 °F	-Temp. reading
TE-105-AW-57	/NW	19F		_____	date:1/25/93
TE-105-AW-60	/NW	19F		64 °F	
TE-105-AW-63	/NW	19F		_____	
TE-105-AW-66	/NW	19F		_____	
TE-105-AW-69	/NW	19F		_____	
TE-105-AW-72	/NW	19F		_____	
TE-105-AW-75	/NW	19F		_____	
TE-105-AW-78	/NW	19F		_____	
TE-105-AW-81	/NW	19F		_____	
TE-105-AW-84	/NW	19F		_____	
TE-105-AW-87	/NW	19F		_____	
TE-105-AW-90	/NW	19F		_____	
TE-105-AW-93	/NW	19F		_____	
TE-105-AW-96	/NW	19F		_____	
TE-105-AW-99	/NW	19F		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-70347, H-2-70350, H-2-70353
B-120-C5
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 27.27'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1196

5. TANK 105-AW CONCRETE DOME TEMPERATURE (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-105-AW-55	/SE	19B	687.75'	_____	
TE-105-AW-58	/SE	19B		_____	
TE-105-AW-61	/SE	19B		_____	
TE-105-AW-64	/SE	19B		_____	
TE-105-AW-67	/SE	19B		_____	
TE-105-AW-70	/SE	19B		_____	
TE-105-AW-73	/SE	19B		_____	
TE-105-AW-76	/SE	19B		_____	
TE-105-AW-79	/SE	19B		_____	
TE-105-AW-82	/SE	19B		_____	
TE-105-AW-85	/SE	19B		_____	
TE-105-AW-88	/SE	19B		_____	
TE-105-AW-91	/SE	19B		_____	
TE-105-AW-94	/SE	19B		_____	
TE-105-AW-97	/SE	19B		_____	
TE-105-AW-100	/SE	19B		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-70347, H-2-70350, H-2-70353
B-120-C5
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 27.27'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1197

5. TANK 105-AW CONCRETE DOME TEMPERATURE (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-105-AW-56	/SW	19D	687.75'	_____	
TE-105-AW-59	/SW	19D		_____	
TE-105-AW-62	/SW	19D		_____	
TE-105-AW-65	/SW	19D		_____	
TE-105-AW-68	/SW	19D		_____	
TE-105-AW-71	/SW	19D		_____	
TE-105-AW-74	/SW	19D		66 °F	-Temp. reading
TE-105-AW-77	/SW	19D		66 °F	date:1/25/93
TE-105-AW-80	/SW	19D		64 °F	
TE-105-AW-83	/SW	19D		65 °F	
TE-105-AW-86	/SW	19D		_____	
TE-105-AW-89	/SW	19D		_____	
TE-105-AW-92	/SW	19D		_____	
TE-105-AW-95	/SW	19D		_____	
TE-105-AW-98	/SW	19D		_____	
TE-105-AW-101	/SW	19D		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-70347, H-2-70350, H-2-70353
B-120-C5
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 27.27'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1198

1. TANK 106-AW INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-106-AW-1	7.0'/NE	19A	687.75'	_____	
TE-106-AW-2	7.0'/SE	19B	687.75'	_____	
TE-106-AW-3	7.0'/SW	19D	687.75'	_____	
TE-106-AW-4	7.0'/NW	19E	687.75'	_____	
TE-106-AW-5	21.0'/NE	19F	687.75'	_____	
TE-106-AW-6	21.0'/NE	19A		_____	
TE-106-AW-7	21.0'/SE	19B		_____	
TE-106-AW-8	21.0'/SE	19C	687.75'	_____	
TE-106-AW-9	21.0'/SW	19C		_____	
TE-106-AW-10	21.0'/SW	19D		_____	
TE-106-AW-11	21.0'/NW	19E		_____	
TE-106-AW-12	21.0'/NW	19F		_____	
TE-106-AW-13	36.5'/NE	19F		_____	
TE-106-AW-14	36.5'/NE	19A		_____	
TE-106-AW-15	36.5'/NE	19A		_____	
TE-106-AW-16	36.5'/SE	19B		_____	
TE-106-AW-17	36.5'/SE	19B		_____	
TE-106-AW-18	36.5'/SE	19C		_____	
TE-106-AW-19	36.5'/SW	19C		_____	
TE-106-AW-20	36.5'/SW	19D		_____	
TE-106-AW-21	36.5'/SW	19D		_____	
TE-106-AW-22	36.5'/NW	19E		_____	
TE-106-AW-23	36.5'/NW	19E		_____	
TE-106-AW-24	36.5'/NW	19F		_____	

Type of Thermocouple : Chromel-constantan (E)
Drawing Number : H-2-70344, H-2-70353, H-2-70350
B-120-C7
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 15.9'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1199

2. TANK 106-AW OUTSIDE PRIMARY TANK WALL TEMPERATURES (OR TANK KNUCLE TEMP.)

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-106-AW-25	37.5'/NW	19F	687.75'	_____	
TE-106-AW-26	37.5'/SE	19C	687.75'	_____	

3. TANK 106-AW CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-106-AW-27	4.0'/SW	19D		_____	
TE-106-AW-28	4.0'/SE	19B		_____	
TE-106-AW-29	4.0'/NW	19F		_____	
TE-106-AW-30	21.0'/SW	19D		_____	
TE-106-AW-31	21.0'/SE	19B		_____	
TE-106-AW-32	21.0'/NW	19F		_____	
TE-106-AW-33	38.0'/SW	19D		_____	
TE-106-AW-34	38.0'/SE	19B		_____	
TE-106-AW-35	38.0'/NW	19F		_____	

Type of Thermocouple : Chromel-constantan (E)
Drawing Number : H-2-70343, H-2-70344, H-2-70350, H-2-70353
B-120-C7
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 15.9'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

9413276.1200

4. TANK 106-AW IN-TANK TEMPERATURES

Tag Number / Thermocouple Number	Elevation[1] (Ft)	Temp. °F	Comment
TE-106-AW-36 (TC #1)	0.33*	90 °F	
TE-106-AW-37 (TC #2)	2.33*	_____	- TC tree is located
TE-106-AW-38 (TC #3)	4.33*	90 °F	in Riser 4A
TE-106-AW-39 (TC #4)	6.33*	_____	
TE-106-AW-40 (TC #5)	8.33*	75 °F	
TE-106-AW-41 (TC #6)	10.33*	_____	
TE-106-AW-42 (TC #7)	12.33*	75 °F	
TE-106-AW-43 (TC #8)	14.33*	_____	
TE-106-AW-44 (TC #9)	16.33	_____	
TE-106-AW-45 (TC #10)	18.33	_____	
TE-106-AW-46 (TC #11)	20.33	74 °F	
TE-106-AW-47 (TC #12)	22.33	_____	
TE-106-AW-48 (TC #13)	24.33	_____	
TE-106-AW-49 (TC #14)	26.33	_____	
TE-106-AW-50 (TC #15)	28.33	_____	
TE-106-AW-51 (TC #16)	30.33	_____	
TE-106-AW-52 (TC #17)	34.33	72 °F	
TE-106-AW-53 (TC #18)	38.33	_____	

Type of Thermocouple : TREE, Iron-constantan (Type J)
Drawing Number : H-2-34304, H-2-70353, H-2-70350
High Waste Temperature (at TC #) : 90 °F (TC #1,3)
Date Read : 6/28/93
Riser Elevation (R-4A) : 687.75'
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 15.9'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

* Means TC in waste

1. Elevation relative to tank center bottom

9413276.1201

5. TANK 106-AW CONCRETE DOME TEMPERATURE

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-106-AW-54	/NW	19F	687.75'	69 °F	-Temp. reading
TE-106-AW-57	/NW	19F		_____	date:1/25/93
TE-106-AW-60	/NW	19F		72 °F	
TE-106-AW-63	/NW	19F		_____	
TE-106-AW-66	/NW	19F		_____	
TE-106-AW-69	/NW	19F		_____	
TE-106-AW-72	/NW	19F		_____	
TE-106-AW-75	/NW	19F		_____	
TE-106-AW-78	/NW	19F		_____	
TE-106-AW-81	/NW	19F		_____	
TE-106-AW-84	/NW	19F		_____	
TE-106-AW-87	/NW	19F		_____	
TE-106-AW-90	/NW	19F		_____	
TE-106-AW-93	/NW	19F		_____	
TE-106-AW-96	/NW	19F		_____	
TE-106-AW-99	/NW	19F		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-70347, H-2-70350, H-2-70353
B-120-C5
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 15.9'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1202

5. TANK 106-AW CONCRETE DOME TEMPERATURE (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-106-AW-55	/SE	19B	687.75'	_____	
TE-106-AW-58	/SE	19B		_____	
TE-106-AW-61	/SE	19B		_____	
TE-106-AW-64	/SE	19B		_____	
TE-106-AW-67	/SE	19B		_____	
TE-106-AW-70	/SE	19B		_____	
TE-106-AW-73	/SE	19B		_____	
TE-106-AW-76	/SE	19B		_____	
TE-106-AW-79	/SE	19B		_____	
TE-106-AW-82	/SE	19B		_____	
TE-106-AW-85	/SE	19B		_____	
TE-106-AW-88	/SE	19B		_____	
TE-106-AW-91	/SE	19B		_____	
TE-106-AW-94	/SE	19B		_____	
TE-106-AW-97	/SE	19B		_____	
TE-106-AW-100	/SE	19B		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-70347, H-2-70350, H-2-70353
B-120-C5
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 15.9'
Frequency of Monitoring :
Category : DST
Data Acq. Code/Condition :

5. TANK 106-AW CONCRETE DOME TEMPERATURE (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-106-AW-56	/SW	19D	687.75'	_____	
TE-106-AW-59	/SW	19D		_____	
TE-106-AW-62	/SW	19D		_____	
TE-106-AW-65	/SW	19D		_____	
TE-106-AW-68	/SW	19D		_____	
TE-106-AW-71	/SW	19D		_____	
TE-106-AW-74	/SW	19D		76 °F	-Temp. reading
TE-106-AW-77	/SW	19D		76 °F	date:1/25/93
TE-106-AW-80	/SW	19D		74 °F	
TE-106-AW-83	/SW	19D		73 °F	
TE-106-AW-86	/SW	19D		_____	
TE-106-AW-89	/SW	19D		_____	
TE-106-AW-92	/SW	19D		_____	
TE-106-AW-95	/SW	19D		_____	
TE-106-AW-98	/SW	19D		_____	
TE-106-AW-101	/SW	19D		_____	

Type of Thermocouple : Chromel-Constantan (Type E)
Drawing Number : H-2-70347, H-2-70350, H-2-70353
B-120-C5
Primary Tank Bottom Elevation (Ft): 632.20'
Waste Level (Ft) : 15.9'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1204

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THERMOCOUPLE STATUS

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1. TANK 101-AY INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-101-AY-1	7.0'/NE	21/NE	see comment	106 °F	Jorge McClees indicated per telecon 3/15/93 that this info could not be found at this time.
TE-101-AY-2	7.0'/NW	21/W		O/S	
TE-101-AY-3	7.0'/SW	21/SW		108 °F	
TE-101-AY-4	7.0'/SE	21/E		107 °F	
TE-101-AY-5	21.0'/NE	21/NE		105 °F	
TE-101-AY-6	21.0'/NW	21/NW		104 °F	
TE-101-AY-7	21.0'/W	21/W		89 °F	
TE-101-AY-8	21.0'/SW	21/SW		107 °F	
TE-101-AY-9	21.0'/SE	21/SE		105 °F	
TE-101-AY-10	21.0'/SE	21/E		109 °F	
TE-101-AY-11	21.0'/NE	21/E		106 °F	
TE-101-AY-12	36.5'/NE	21/NE		89 °F	
TE-101-AY-13	36.5'/NW	21/NW		87 °F	
TE-101-AY-14	36.5'/NW	21/NW		87 °F	
TE-101-AY-15	36.5'/NW	21/W		87 °F	
TE-101-AY-16	36.5'/W	21/W		106 °F	
TE-101-AY-17	36.5'/SW	21/W		88 °F	
TE-101-AY-18	36.5'/SW	21/SW		87 °F	
TE-101-AY-19	36.5'/SW	21/SW		87 °F	
TE-101-AY-20	36.5'/SE	21/SE		90 °F	
TE-101-AY-21	36.5'/SE	21/SE		91 °F	
TE-101-AY-22	36.5'/SE	21/E		91 °F	
TE-101-AY-23	36.5'/E	21/E		90 °F	
TE-101-AY-24	36.5'/NE	21/E		90 °F	

Type of TC : Iron-Constantan (J)
Drawing Number : H-2-64372, H-2-64366, H-2-64376, H-2-64419
HWS-7793
Primary Tank Bottom Elevation (Ft): 623.23'
Waste Level (Ft) : 28.31'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1206

2. TANK 101-AY OUTSIDE PRIMARY TANK WALL TEMPERATURES (OR TANK KNUCKLE TEMP.)

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-101-AY-26	37.5'/W	21/W	see comment 1	_____	1. Jorge McClees indicated per telecon 3/15/93 that this info could not be found.
TE-101-AY-27	37.5'/E	21/E	see comment 1&2	87 °F	2. -Temp. reading date: 9/6/93

3. TANK 101-AY CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-101-AY-29	4.0'/NE	21/NE		_____	
TE-101-AY-106	4.0'/NE	21/NE		_____	
TE-101-AY-115	4.0'/NE	21/NE		_____	
TE-101-AY-124	4.0'/NE	21/NE		_____	
TE-101-AY-32	21.0'/NE	21/NE		_____	
TE-101-AY-109	21.0'/NE	21/NE		_____	
TE-101-AY-118	21.0'/NE	21/NE		_____	
TE-101-AY-127	21.0'/NE	21/NE		_____	
TE-101-AY-35	38.0'/NE	21/NE		_____	
TE-101-AY-112	38.0'/NE	21/NE		_____	
TE-101-AY-121	38.0'/NE	21/NE		_____	
TE-101-AY-130	38.0'/NE	21/NE		_____	

Type of TC : Iron-Constantan (J)
Drawing Number : H-2-64373, H-2-64376, H-2-64366
HWS-7790, HWS-7792
Primary Tank Bottom Elevation (Ft): 623.23'
Waste Level (Ft) : 28.31'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1207

3. TANK 101-AY CONCRETE FOUNDATION TEMPERATURES (CONTINUE)

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-101-AY-31	4.0'/SE	21/SE	see comment 1	_____	1. Jorge McClees indicated per telecon 3/15/93 that this info could not be found.
TE-101-AY-108	4.0'/SE	21/SE		_____	
TE-101-AY-117	4.0'/SE	21/SE		_____	
TE-101-AY-126	4.0'/SE	21/SE		_____	
TE-101-AY-34	21.0'/SE	21/SE		106 °F	Temp. reading
TE-101-AY-111	21.0'/SE	21/SE		_____	date: 9/6/93
TE-101-AY-120	21.0'/SE	21/SE		_____	
TE-101-AY-129	21.0'/SE	21/SE		_____	
TE-101-AY-37	38.0'/SE	21/SE		O/S____	
TE-101-AY-114	38.0'/SE	21/SE		_____	
TE-101-AY-123	38.0'/SE	21/SE		_____	
TE-101-AY-132	38.0'/SE	21/SE		_____	
TE-101-AY-30	4.0'/W	21/W	see comment 1	_____	
TE-101-AY-107	4.0'/W	21/W		_____	
TE-101-AY-116	4.0'/W	21/W		_____	
TE-101-AY-125	4.0'/W	21/W		_____	
TE-101-AY-33	21.0'/NW	21/W		_____	
TE-101-AY-110	21.0'/NW	21/W		_____	
TE-101-AY-119	21.0'/NW	21/W		_____	
TE-101-AY-128	21.0'/NW	21/W		_____	
TE-101-AY-36	38.0'/NW	21/W		_____	
TE-101-AY-113	38.0'/NW	21/W		_____	
TE-101-AY-122	38.0'/NW	21/W		_____	
TE-101-AY-131	38.0'/NW	21/W		_____	

Type of TC : Iron-Constantan (J)
Drawing Number : H-2-64373, H-2-64376, H-2-64366, HWS-7790
Primary Tank Bottom Elevation (Ft): 623.23'
Waste Level (Ft) : 28.31'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1208

4. TANK 101-AY CONCRETE DOME TEMPERATURE

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-101-AY-82	/NE	21/NE	see comment 1	80 °F	1. Jorge McClees indicated per telecon 3/15/93 that this info could not be found.
TE-101-AY-85	/NE	21/NE		_____	
TE-101-AY-88	/NE	21/NE		81 °F	Temp. reading
TE-101-AY-91	/NE	21/NE		_____	date: 9/6/93
TE-101-AY-94	21.0'/NE	21/NE		82 °F	
TE-101-AY-97	21.0'/NE	21/NE		62 °F	
TE-101-AY-100	4.0'/NE	21/NE		_____	
TE-101-AY-103	4.0'/NE	21/NE		_____	
TE-101-AY-83	/W	21/W	see comment 1	79 °F	
TE-101-AY-86	/W	21/W		81 °F	
TE-101-AY-89	/W	21/W		82 °F	
TE-101-AY-92	/W	21/W		82 °F	
TE-101-AY-95	21.0'/NW	21/W		_____	
TE-101-AY-98	21.0'/NW	21/W		82 °F	
TE-101-AY-101	4.0'/NW	21/W		O/S	
TE-101-AY-104	4.0'/NW	21/W		_____	
TE-101-AY-84	/SE	21/SE	see comment 1	79 °F	
TE-101-AY-87	/SE	21/SE		81 °F	
TE-101-AY-90	/SE	21/SE		_____	
TE-101-AY-93	/SE	21/SE		_____	
TE-101-AY-96	21.0'/SE	21/SE		82 °F	
TE-101-AY-99	21.0'/SE	21/SE		_____	
TE-101-AY-102	4.0'/SE	21/SE		85 °F	
TE-101-AY-105	4.0'/SE	21/SE		_____	

Type of TC : Iron-Constantan (J) ?
Drawing Number : H-2-64375, H-2-643[illegible]
Primary Tank Bottom Elevation (Ft): 623.23'
Waste Level (Ft) : 28.31'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1209

5. TANK 101-AY IN-TANK TEMPERATURES

Thermocouple Number	Elevation,[1] (Ft)	Riser Number	Riser Elevation	Temp °F	Comment
TE-101-AY-62	0.33*	13A	680.03'	96 °F	-Temp. reading
TE-101-AY-61	13.17*	13A		81 °F	date:9/6/93
TE-101-AY-60	25.00*	13A		81 °F	
TE-101-AY-65	0.33*	13B	680.05'	O/S	-O/S: means out
TE-101-AY-64	13.17*	13B		82 °F	of service.
TE-101-AY-63	25.00*	13B		81 °F	
TE-101-AY-68	0.33*	13C	680.06'	O/S	
TE-101-AY-67	13.17*	13C		O/S	
TE-101-AY-66	25.00*	13C		83 °F	
TE-101-AY-71	0.33*	13D	680.08'	97 °F	
TE-101-AY-70	13.17*	13D		83 °F	
TE-101-AY-69	25.00*	13D		83 °F	
TE-101-AY-74	0.33*	16A	679.92'	109 °F	
TE-101-AY-73	0.33*	16C	679.89'	106 °F	
TE-101-AY-72	0.33*	16B	679.93'	107 °F	

Type of TC : Iron-Constantan (J)
Drawing Number : H-2-37911, H-2-64447, H-2-64368, H-2-34689
HWS-7792
Primary Tank Bottom Elevation (Ft): 623.23'
Waste Level (Ft) : 28.31'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

* Means TC in waste.

1. Elevation relative to tank center bottom.

6. TANK 101-AY AIRLIFT CIRCULATOR TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-101-AY-38	/W	3	see comment 1	O/S	1. Jorge McClees indicated per telecon 3/15/93 that this info could not be found.
TE-101-AY-39	/NE			63 °F	
TE-101-AY-40	/NW			102 °F	Temp. reading
TE-101-AY-41	/NW			111 °F	date: 9/6/93
TE-101-AY-42	/SW			114 °F	
TE-101-AY-43	/SW			119 °F	
TE-101-AY-44	/SE			114 °F	
TE-101-AY-45	/SE			O/S	
TE-101-AY-46	/NE			O/S	
TE-101-AY-47	/NE			O/S	
TE-101-AY-48	/NE			107 °F	
TE-101-AY-49	/NW			105 °F	
TE-101-AY-50	/NW			41 °F	
TE-101-AY-51	/NW			O/S	
TE-101-AY-52	/SW			O/S	
TE-101-AY-53	/SW			109 °F	
TE-101-AY-54	/SW			102 °F	
TE-101-AY-55	/SW			106 °F	
TE-101-AY-56	/SE			108 °F	
TE-101-AY-57	/SE			O/S	
TE-101-AY-58	/SE			114 °F	
TE-101-AY-59	/NE			110 °F	

Type of TC : Iron-Constantan (J)
Drawing Number : H-2-64368, H-2-34689, H-2-64419, H-2-37911
HWS-7792
Primary Tank Bottom Elevation (Ft): 623.23'
Waste Level (Ft) : 28.31
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1211

1. TANK 102-AY INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-102-AY-1	7.0'/SE	21/SE	see comment 1	96 °F	1. Jorge McClees indicated per telecon 3/15/93 that this info could not be found.
TE-102-AY-2	7.0'/SW	21/W		93 °F	
TE-102-AY-3	7.0'/NW	21/NW		88 °F	Temp. reading
TE-102-AY-4	7.0'/NE	21/E		85 °F	date: 9/6/93
TE-102-AY-5	21.0'/SE	21/SE		92 °F	
TE-102-AY-6	21.0'/SW	21/SW		100 °F	
TE-102-AY-7	21.0'/W	21/W		84 °F	
TE-102-AY-8	21.0'/NW	21/NW		O/S	
TE-102-AY-9	21.0'/NE	21/NE		X	X: unknown
TE-102-AY-10	21.0'/NE	21/E		81 °F	
TE-102-AY-11	21.0'/SE	21/E		89 °F	
TE-102-AY-12	36.5'/SE	21/SE		80 °F	
TE-102-AY-13	36.5'/SW	21/SW		80 °F	
TE-102-AY-14	36.5'/SW	21/SW		67 °F	
TE-102-AY-15	36.5'/SW	21/W		78 °F	
TE-102-AY-16	36.5'/W	21/W		74 °F	
TE-102-AY-17	36.5'/NW	21/W		74 °F	
TE-102-AY-18	36.5'/NW	21/NW		X	
TE-102-AY-19	36.5'/NW	21/NW		74 °F	
TE-102-AY-20	36.5'/NE	21/NE		X	
TE-102-AY-21	36.5'/NE	21/NE		73 °F	
TE-102-AY-22	36.5'/NE	21/E		74 °F	
TE-102-AY-23	36.5'/E	21/E		74 °F	
TE-102-AY-24	36.5'/SE	21/E		74 °F	
TE-102-AY-25	36.5'/SE	21/SE		75 °F	

Type of TC : Iron-Constantan (J)
Drawing Number : H-2-64372, H-2-64366, H-2-64376, H-2-64419
HWS-7793
Primary Tank Bottom Elevation (Ft): 623.23'
Waste Level (Ft) : 15.56'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1212

2. TANK 102-AY OUTSIDE PRIMARY TANK WALL TEMPERATURES (OR TANK KNUCKLE TEMP.)

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-102-AY-26	37.5'/W	21/W	see comment 1&2	72 °F	1. Temp. reading date: 9/6/93
TE-102-AY-27	37.5'/E	21/E	see comment 1&2	72 °F	2. Jorge McClees indicated per telecon 3/15/93 that this info could not be found.

3. TANK 102-AY CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-102-AY-29	4.0'/SE	21/SE	see comment 2	_____	Temp. reading
TE-102-AY-32	21.0'/SE	21/SE		_____	date: 9/6/93
TE-102-AY-35	38.0'/SE	21/SE		64 °F	
TE-102-AY-31	4.0'/NE	21/NE	see comment 2	_____	
TE-102-AY-34	21.0'/NE	21/NE		76 °F	
TE-102-AY-37	38.0'/NE	21/NE		71 °F	
TE-102-AY-30	4.0'/W	21/W	see comment 2	84 °F	
TE-102-AY-33	21.0'/SW	21/W		79 °F	
TE-102-AY-36	38.0'/SW	21/W		72 °F	

Type of TC : Iron-Constantan (J)
Drawing Number : H-2-64374, H-2-64376, H-2-64366
HWS-7790, HWS-7792
Primary Tank Bottom Elevation (Ft): 623.23'
Waste Level (Ft) : 15.56'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Conditior : Manual

9413276.1213

4. TANK 102-AY CONCRETE DOME TEMPERATURE

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-102-AY-82	/SE	21/SE	see comment 1	68 °F	1. Jorge McClees indicated per telecon 3/15/93 that this info could not be found.
TE-102-AY-85	/SE	21/SE		_____	
TE-102-AY-88	/SE	21/SE		68 °F	Temp. reading
TE-102-AY-91	/SE	21/SE		70 °F	date: 9/6/93
TE-102-AY-83	/W	21/W	see comment 1	69 °F	
TE-102-AY-86	/W	21/W		71 °F	
TE-102-AY-89	/W	21/W		69 °F	
TE-102-AY-92	/W	21/W		O/S	
TE-102-AY-84	/NE	21/NE	see comment 1	70 °F	
TE-102-AY-87	/NE	21/NE		O/S	
TE-102-AY-90	/NE	21/NE		69 °F	
TE-102-AY-93	/NE	21/NE		70 °F	

Type of TC : Iron-Constantan (J) ?
Drawing Number : H-2-64375, H-2-64366
Primary Tank Bottom Elevation (Ft): 623.23'
Waste Level (Ft) : 15.56'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

5. TANK 102-AY IN-TANK TEMPERATURES

Thermocouple Number	Elevation[1] (Ft)	Riser Number	Riser Elevation	Temp °F	Comment
TE-102-AY-62	0.33*	13B	680.08'	78 °F	-Temp. reading
TE-102-AY-61	13.17*	13B		72 °F	date:9/6/93
TE-102-AY-60	25.00*	13B		70 °F	
TE-102-AY-65	0.33*	13C	680.09'	O/S	-O/S: means out
TE-102-AY-64	13.17*	13C		72 °F	of service.
TE-102-AY-63	25.00*	13C		O/S	
TE-102-AY-68	0.33*	13D	680.11'	O/S	
TE-102-AY-67	13.17*	13D		O/S	
TE-102-AY-66	25.00*	13D		O/S	
TE-102-AY-71	0.33*	13A	680.08'	76 °F	
TE-102-AY-70	13.17*	13A		73 °F	
TE-102-AY-69	25.00*	13A		71 °F	
TE-102-AY-74	0.33*	16A	679.93'	O/S	
TE-102-AY-73	0.33*	16C	680.01'	87 °F	
TE-102-AY-72	0.33*	16B	679.97'	87 °F	

Type of TC : Iron-Constantan (J)
Drawing Number : H-2-37911, H-2-64447, H-2-64368, H-2-34690
HWS-7792
Primary Tank Bottom Elevation (Ft): 623.23'
Waste Level (Ft) : 15.56'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

* Means TC in waste.

1. Elevation relative to tank center bottom.

9413276.1215

6. TANK 102-AY AIRLIFT CIRCULATOR TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-102-AY-38	/W	3	see comment 1	O/S	1. Jorge McClees indicated per telecon 3/15/93 that this info could not be found.
TE-102-AY-39	/SE			O/S	
TE-102-AY-40	/SW			O/S	
TE-102-AY-41	/SW			O/S	
TE-102-AY-42	/NW			71 °F	
TE-102-AY-43	/NW			O/S	
TE-102-AY-44	/NE			74 °F	
TE-102-AY-45	/NE			O/S	
TE-102-AY-46	/SE			O/S	
TE-102-AY-47	/SE			71 °F	
TE-102-AY-48	/SE			O/S	
TE-102-AY-49	/SW			O/S	
TE-102-AY-50	/SW			54 °F	
TE-102-AY-51	/SW			O/S	
TE-102-AY-52	/NW			O/S	
TE-102-AY-53	/NW			O/S	
TE-102-AY-54	/NW			O/S	
TE-102-AY-55	/NW			75 °F	
TE-102-AY-56	/NE			75 °F	
TE-102-AY-57	/NE			O/S	
TE-102-AY-58	/NE			O/S	
TE-102-AY-59	/SE			78 °F	

Type of TC : Iron-Constantan (J)
Drawing Number : H-2-64368, H-2-34690, H-2-64419, H-2-37911
HWS-7792
Primary Tank Bottom Elevation (Ft): 623.23'
Waste Level (Ft) : 15.56'
Frequency of Monitoring : Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1216

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THERMOCOUPLE STATUS

AZ-FARM

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1. TANK 101-AZ INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-101-AZ-1	7.0'/NW	21F	see comment 1	O/S	1. Jorge McClees indicated per telecon 3/15/93 that this info could not be found.
TE-101-AZ-2	7.0'/NE	21A		162 °F	
TE-101-AZ-3	7.0'/SE	21C		O/S °F	Temp. reading
TE-101-AZ-4	7.0'/SW	21D		O/S	date: 9/7/93
TE-101-AZ-5	21.0'/NW	21E		171 °F	
TE-101-AZ-6	21.0'/NW	21F		167 °F	
TE-101-AZ-7	21.0'/NE	21A		169 °F	
TE-101-AZ-8	21.0'/NE	21B		172 °F	
TE-101-AZ-9	21.0'/SE	21B		174 °F	
TE-101-AZ-10	21.0'/SE	21C		175 °F	
TE-101-AZ-11	21.0'/SW	21D		174 °F	
TE-101-AZ-12	21.0'/SW	21E		152 °F	
TE-101-AZ-13	36.5'/NW	21E		152 °F	
TE-101-AZ-14	36.5'/NW	21F		———	
TE-101-AZ-15	36.5'/NW	21F		152 °F	
TE-101-AZ-16	36.5'/NE	21A		154 °F	
TE-101-AZ-17	36.5'/NE	21A		154 °F	
TE-101-AZ-18	36.5'/NE	21B		151 °F	
TE-101-AZ-19	36.5'/SE	21B		152 °F	
TE-101-AZ-20	36.5'/SE	21C		155 °F	
TE-101-AZ-21	36.5'/SE	21C		156 °F	
TE-101-AZ-22	36.5'/SW	21D		156 °F	
TE-101-AZ-23	36.5'/SW	21D		153 °F	
TE-101-AZ-24	36.5'/SW	21E		171 °F	

Type of Thermocouple : Iron-Constantan (J)
Drawing Number : H-2-67295, H-2-70202, H-2-67314, H-2-68337
HWS-8987
Primary Tank Bottom Elevation (Ft): 616.59'
Waste Level (Ft) : 27.86'
Frequency of Monitoring : Daily/Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1218

2. TANK 101-AZ OUTSIDE PRIMARY TANK WALL TEMPERATURES (OR TANK KNUCKLE TEMP.)

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-101-AZ-25	37.5'/SW	21E	see comment 1&2	137 °F	1. - Temp. reading date: 9/7/93
TE-101-AZ-26	37.5'/NE	21B	see comment 2	_____	2. Jorge McClees indicated per telecon 3/15/93 that this info could not be found.

3. TANK 101-AZ CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-101-AZ-28	4.0'/NE	21A		151 °F	Temp. reading
TE-101-AZ-29	4.0'/W	21E		150 °F	date: 9/7/93
TE-101-AZ-30	4.0'/SE	21C		151 °F	
TE-101-AZ-31	21.0'/NE	21A		159 °F	
TE-101-AZ-32	21.0'/NW	21E		164 °F	
TE-101-AZ-33	21.0'/SE	21C		162 °F	
TE-101-AZ-34	38.0'/NE	21A		131 °F	
TE-101-AZ-35	38.0'/NW	21E		139 °F	
TE-101-AZ-36	38.0'/SE	21C		137 °F	

Type of Thermocouple : Iron-Constantan (J)
Drawing Number : H-2-67293, H-2-70202, H-2-68337
HWS-8987
Primary Tank Bottom Elevation (Ft): 616.59'
Waste Level (Ft) : 27.86'
Frequency of Monitoring : Daily/Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1219

4. TANK 101-AZ CONCRETE DOME & CONCRETE SHELL TEMPERATURE

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-101-AZ-74	/SW	21E	see comment 1	122 °F	1. Jorge McClees indicated per telecon 3/15/93 that this info could not be found.
TE-101-AZ-77	/SW	21E		126 °F	
TE-101-AZ-80	/SW	21E		131 °F	Temp. reading
TE-101-AZ-83	/SW	21E		131 °F	date: 9/7/93
TE-101-AZ-86	/SW	21E		134 °F	
TE-101-AZ-89	/SW	21E		135 °F	
TE-101-AZ-92	/SW	21E		133 °F	
TE-101-AZ-95	/SW	21E		135 °F	
TE-101-AZ-75	/NE	21A	see comment 1	120 °F	
TE-101-AZ-78	/NE	21A		126 °F	
TE-101-AZ-81	/NE	21A		130 °F	
TE-101-AZ-84	/NE	21A		129 °F	
TE-101-AZ-87	/NE	21A		132 °F	
TE-101-AZ-90	/NE	21A		136 °F	
TE-101-AZ-93	/NE	21A		131 °F	
TE-101-AZ-96	/NE	21A		132 °F	
TE-101-AZ-76	/SE	21C	see comment 1	119 °F	
TE-101-AZ-79	/SE	21C		126 °F	
TE-101-AZ-82	/SE	21C		130 °F	
TE-101-AZ-85	/SE	21C		131 °F	
TE-101-AZ-88	/SE	21C		132 °F	
TE-101-AZ-91	/SE	21C		136 °F	
TE-101-AZ-94	/SE	21C		130 °F	
TE-101-AZ-97	/SE	21C		129 °F	

Type of Thermocouple : Iron-Constantan (J) ?
Drawing Number : H-2-67296, H-2-68337, H-2-70202, HWS-8985
Primary Tank Bottom Elevation (Ft): 616.59'
Waste Level (Ft) : 27.86'
Frequency of Monitoring : Daily/Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1220

5. TANK 101-AZ IN-TANK TEMPERATURES

Thermocouple Number	Elevation[1] (Ft)	Riser Number	Riser Elevation	Temp °F	Comment
TE-101-AZ-61	0.33*	13B	673.34'	150 °F	-Temp. reading
TE-101-AZ-60	13.17*	13B		140 °F	date:9/7/93
TE-101-AZ-59	25.00*	13B		148 °F	
TE-101-AZ-64	0.33*	13C	673.25'	130 °F	
TE-101-AZ-63	13.17*	13C		140 °F	
TE-101-AZ-62	25.00*	13C		140 °F	
TE-101-AZ-67	0.33*	13D	673.31'	140 °F	
TE-101-AZ-66	13.17*	13D		140 °F	
TE-101-AZ-65	25.00*	13D		O/S	
TE-101-AZ-70	0.33*	13A	673.42'	141 °F	
TE-101-AZ-69	13.17*	13A		128 °F	
TE-101-AZ-68	25.00*	13A		141 °F	
TE-101-AZ-71	0.33*	16B	673.37'	141 °F	
TE-101-AZ-72	0.33*	16C	673.44'	167 °F	
TE-101-AZ-73	0.33*	16A	673.69'	162 °F	

Type of Thermocouple : Iron-Constantan (J)
Drawing Number : H-2-68339, H-2-70202
B-109-P1
Primary Tank Bottom Elevation (Ft): 616.59'
Waste Level (Ft) : 27.86'
Frequency of Monitoring : Daily/Weekly
Category : DST
Data Acq. Code/Condition : Manual

1. Elevation relative to tank center bottom.
* Means TC in waste.

9413276.1221

6. TANK 101-AZ AIRLIFT CIRCULATOR TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-101-AZ-37	/S	2	see comment 1	149 °F	1. Jorge McClees indicated per telecon 3/15/93 that this info could not be found.
TE-101-AZ-38	/S			139 °F	
TE-101-AZ-39	/SW			140 °F	Temp. reading
TE-101-AZ-40	/NW			161 °F	date: 9/7/93
TE-101-AZ-41	/NW			154 °F	
TE-101-AZ-42	/NE			143 °F	
TE-101-AZ-43	/NE			140 °F	
TE-101-AZ-44	/SE			O/S	
TE-101-AZ-45	/SE			O/S	
TE-101-AZ-46	/SE			143 °F	
TE-101-AZ-47	/SW			O/S	
TE-101-AZ-48	/SW			152 °F	
TE-101-AZ-49	/SW			147 °F	
TE-101-AZ-50	/NW			160 °F	
TE-101-AZ-51	/NW			O/S	
TE-101-AZ-52	/NW			149 °F	
TE-101-AZ-53	/NW			148 °F	
TE-101-AZ-54	/NE			O/S	
TE-101-AZ-55	/NE			154 °F	
TE-101-AZ-56	/NE			162 °F	
TE-101-AZ-57	/NE			146 °F	
TE-101-AZ-58	/SE			148 °F	

Type of Thermocouple : Iron-Constantan (J)
Drawing Number : H-2-93375, SHT.5, H-2-68339, H-2-70202
B-109-P1
Primary Tank Bottom Elevation (Ft): 616.59'
Waste Level (Ft) : 27.86'
Frequency of Monitoring : Daily/Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1222

1. TANK 102-AZ INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-102-AZ-1	7.0'/NW	21F	see comment 1	157 °F	1. Jorge McClees indicated per telecon 3/15/93 that this info could not be found.
TE-102-AZ-2	7.0'/NE	21A		153 °F	
TE-102-AZ-3	7.0'/SE	21C		155 °F	Temp. reading date
TE-102-AZ-4	7.0'/SW	21D		O/S	9/6/93
TE-102-AZ-5	21.0'/NW	21E		159 °F	
TE-102-AZ-6	21.0'/NW	21F		70 °F	
TE-102-AZ-7	21.0'/NE	21A		155 °F	
TE-102-AZ-8	21.0'/NE	21B		159 °F	
TE-102-AZ-9	21.0'/SE	21B		178 °F	
TE-102-AZ-10	21.0'/SE	21C		141 °F	
TE-102-AZ-11	21.0'/SW	21D		70 °F	
TE-102-AZ-12	21.0'/SW	21E		181 °F	
TE-102-AZ-13	36.5'/NW	21E		143 °F	
TE-102-AZ-14	36.5'/NW	21F		____	
TE-102-AZ-15	36.5'/NW	21F		130 °F	
TE-102-AZ-16	36.5'/NE	21A		140 °F	
TE-102-AZ-17	36.5'/NE	21A		141 °F	
TE-102-AZ-18	36.5'/NE	21B		143 °F	
TE-102-AZ-19	36.5'/SE	21B		146 °F	
TE-102-AZ-20	36.5'/SE	21C		70 °F	
TE-102-AZ-21	36.5'/SE	21C		138 °F	
TE-102-AZ-22	36.5'/SW	21D		140 °F	
TE-102-AZ-23	36.5'/SW	21D		145 °F	
TE-102-AZ-24	36.5'/SW	21E		145 °F	

Type of Thermocouple : Iron-Constantan (J)
Drawing Number : H-2-67295, H-2-70202, H-2-67315, H-2-68337
HWS-8987
Primary Tank Bottom Elevation (Ft): 616.5
Waste Level (Ft) : 29.02'
Frequency of Monitoring : Daily/Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1223

2. TANK 102-AZ OUTSIDE PRIMARY TANK WALL TEMPERATURES (OR TANK KNUCKLE TEMP.)

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-102-AZ-25	37.5'/SW	21E	see comment 1&2	133 °F	1. -Temp. reading date: 9/6/93
TE-102-AZ-26	37.5'/NE	21B	see comment 2	_____	2. Jorge McClees indicated per telecon 3/15/93 that this info could not be found.

3. TANK 102-AZ CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-102-AZ-28	4.0'/NE	21A		138 °F	Temp. reading
TE-102-AZ-29	4.0'/W	21E		142 °F	date: 9/6/93
TE-102-AZ-30	4.0'/SE	21C		140 °F	
TE-102-AZ-31	21.0'/NE	21A		142 °F	
TE-102-AZ-32	21.0'/NW	21E		153 °F	
TE-102-AZ-33	21.0'/SE	21C		142 °F	
TE-102-AZ-34	38.0'/NE	21A		125 °F	
TE-102-AZ-35	38.0'/NW	21E		123 °F	
TE-102-AZ-36	38.0'/SE	21C		123 °F	

Type of Thermocouple : Iron-Constantan (J)
Drawing Number : H-2-67293, H-2-70202, H-2-68337
HWS-8987
Primary Tank Bottom Elevation (Ft): 616.59'
Waste Level (Ft) : 29.02'
Frequency of Monitoring : Daily/Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1224

4. TANK 102-AZ CONCRETE DOME & CONCRETE SHELL TEMPERATURE

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-102-AZ-74	/SW	21E	see comment 1	110 °F	1. Jorge McClees indicated per telecon 3/15/93 that this info could not be found.
TE-102-AZ-77	/SW	21E		113 °F	
TE-102-AZ-80	/SW	21E		118 °F	Temp. reading
TE-102-AZ-83	/SW	21E		117 °F	date: 9/6/93
TE-102-AZ-86	/SW	21E		117 °F	
TE-102-AZ-89	/SW	21E		120 °F	
TE-102-AZ-92	/SW	21E		120 °F	
TE-102-AZ-95	/SW	21E		119 °F	
TE-102-AZ-75	/NE	21A	see comment 1	111 °F	
TE-102-AZ-78	/NE	21A		113 °F	
TE-102-AZ-81	/NE	21A		119 °F	
TE-102-AZ-84	/NE	21A		117 °F	
TE-102-AZ-87	/NE	21A		O/S	
TE-102-AZ-90	/NE	21A		120 °F	
TE-102-AZ-93	/NE	21A		120 °F	
TE-102-AZ-96	/NE	21A		122 °F	
TE-102-AZ-76	/SE	21C	see comment 1	111 °F	
TE-102-AZ-79	/SE	21C		115 °F	
TE-102-AZ-82	/SE	21C		118 °F	
TE-102-AZ-85	/SE	21C		115 °F	
TE-102-AZ-88	/SE	21C		118 °F	
TE-102-AZ-91	/SE	21C		121 °F	
TE-102-AZ-94	/SE	21C		120 °F	
TE-102-AZ-97	/SE	21C		121 °F	

Type of Thermocouple : Iron-Constantan (J) ?
Drawing Number : H-2-67296, H-2-68337, H-2-70202, HWS-8985
Primary Tank Bottom Elevation (Ft): 616.59'
Waste Level (Ft) : 29.02'
Frequency of Monitoring : Daily/Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1225

5. TANK 102-AZ IN-TANK TEMPERATURES

Thermocouple Number	Elevation[1] (Ft)	Riser Number	Riser Elevation	Temp °F	Comment
TE-102-AZ-61	0.33*	13B	673.66'	150 °F	-Temp. reading
TE-102-AZ-60	13.17*	13B		120 °F	date:9/6/93
TE-102-AZ-59	25.00*	13B		119 °F	
TE-102-AZ-64	0.33*	13C	673.68'	151 °F	
TE-102-AZ-63	13.17*	13C		119 °F	
TE-102-AZ-62	25.00*	13C		O/S	-O/S: means out
TE-102-AZ-67	0.33*	13D	673.70'	153 °F	of service.
TE-102-AZ-66	13.17*	13D		121 °F	
TE-102-AZ-65	25.00*	13D		120 °F	
TE-102-AZ-70	0.33*	13A	673.68'	150 °F	
TE-102-AZ-69	13.17*	13A		121 °F	
TE-102-AZ-68	25.00*	13A		120 °F	
TE-102-AZ-71	0.33*	16B	673.64'	134 °F	
TE-102-AZ-72	0.33*	16C	673.43'	177 °F	
TE-102-AZ-73	0.33*	16A	673.68'	147 °F	

Type of Thermocouple : Iron-Constantan (J)
Drawing Number : H-2-68339, H-2-70202
B-109-P1
Primary Tank Bottom Elevation (Ft): 616.59'
Waste Level (Ft) : 29.02'
Frequency of Monitoring : Daily/Weekly
Category : DST
Data Acq. Code/Condition : Manual

1. Elevation relative to tank center bottom.
* Means T/C in waste.

9413276.1226

6. TANK 102-AZ AIRLIFT CIRCULATOR TEMPERATURES

Thermocouple Number	Radius Quadrant	Riser Number	Riser Elevation	Temp °F	Comment
TE-102-AZ-37	/S	2	see comment 1	O/S	1. Jorge McClees indicated per telecon 3/15/93 that this info could not be found.
TE-102-AZ-38	/S			120 °F	
TE-102-AZ-39	/SW			O/S	Temp. reading
TE-102-AZ-40	/NW			125 °F	date: 9/6/93
TE-102-AZ-41	/NW			117 °F	
TE-102-AZ-42	/NE			115 °F	
TE-102-AZ-43	/NE			128 °F	
TE-102-AZ-44	/SE			121 °F	
TE-102-AZ-45	/SE			120 °F	
TE-102-AZ-46	/SE			120 °F	
TE-102-AZ-47	/SW			121 °F	
TE-102-AZ-48	/SW			121 °F	
TE-102-AZ-49	/SW			151 °F	
TE-102-AZ-50	/NW			119 °F	
TE-102-AZ-51	/NW			119 °F	
TE-102-AZ-52	/NW			120 °F	
TE-102-AZ-53	/NW			118 °F	
TE-102-AZ-54	/NE			119 °F	
TE-102-AZ-55	/NE			124 °F	
TE-102-AZ-56	/NE			114 °F	
TE-102-AZ-57	/NE			119 °F	
TE-102-AZ-58	/SE			O/S	

Type of Thermocouple : Iron-Constantan (J)
Drawing Number : H-2-93375, SHT.4; H-2-68339
B-109-P1
Primary Tank Bottom Elevation (Ft): 616.59'
Waste Lev.. .Ft) : 29.02'
Frequency of Monitoring : Daily/Weekly
Category : DST
Data Acq. Code/Condition : Manual

9413276.1227

THERMOCOUPLE STATUS

SY-FARM

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1. TANK 101-SY INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp. °F	Comment
TE-101-SY-1	7.0'/SW	20A	672.45'	_____	-Watch list tank
TE-101-SY-2	7.0'/NW	20B	672.45'	_____	
TE-101-SY-3	7.0'/NE	20D	672.48'	_____	
TE-101-SY-4	7.0'/SE	20E	672.46'	_____	
TE-101-SY-5	21.0'/SW	20F	672.49'	_____	
TE-101-SY-6	21.0'/SW	20A	672.45'	_____	
TE-101-SY-7	21.0'/NW	20B	672.45'	_____	
TE-101-SY-8	21.0'/NW	20C	672.45'	_____	
TE-101-SY-9	21.0'/NE	20C	672.45'	_____	
TE-101-SY-10	21.0'/NE	20D	672.48'	_____	
TE-101-SY-11	21.0'/SE	20E	672.46'	_____	
TE-101-SY-12	21.0'/SE	20F	672.49'	_____	
TE-101-SY-13	36.5'/SW	20F	672.49'	_____	
TE-101-SY-14	36.5'/SW	20A	672.45'	_____	
TE-101-SY-15	36.5'/SW	20A	672.45'	_____	
TE-101-SY-16	36.5'/NW	20B	672.45'	_____	
TE-101-SY-17	36.5'/NW	20B	672.45'	_____	
TE-101-SY-18	36.5'/NW	20C	672.45'	_____	
TE-101-SY-19	36.5'/NE	20C	672.45'	_____	
TE-101-SY-20	36.5'/NE	20D	672.48'	_____	
TE-101-SY-21	36.5'/NE	20D	672.48'	_____	
TE-101-SY-22	36.5'/SE	20E	672.46'	_____	
TE-101-SY-23	36.5'/SE	20E	672.46'	_____	
TE-101-SY-24	36.5'/SE	20F	672.49'	_____	

Type of Thermocouple : Iron-Constantan (J)
Drawing Number : H-2-37753, H-2-79556, H-2-37762, H-2-72213
SPEC B-101-P1
Primary Tank Bottom Elevation (Ft): 617.34'
Waste Level (Ft) : 34.13'
Frequency of Monitoring : Weekly
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition : Manual

2. TANK 101-SY OUTSIDE PRIMARY TANK WALL TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp. °F	Comment
TE-101-SY-25	37.5'/NW	20F	672.49'	_____	Watch list tank
TE-101-SY-26	37.5'/SE	20C	672.45'	_____	

3. TANK 101-SY CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp. °F	Comment
TE-101-SY-28	4.0'/NE	20E	672.46'	_____	Watch list tank
TE-101-SY-29	4.0'/W	20C	672.45'	_____	
TE-101-SY-30	4.0'/SE	20A	672.45'	_____	
TE-101-SY-31	21.0'/NE	20E	672.46'	_____	
TE-101-SY-32	21.0'/NW	20C	672.45'	_____	
TE-101-SY-33	21.0'/SE	20A	672.45'	_____	
TE-101-SY-34	38.0'/NE	20E	672.46'	_____	
TE-101-SY-35	38.0'/NW	20C	672.45'	_____	
TE-101-SY-36	38.0'/SE	20A	672.45'	_____	

Type of Thermocouple : Iron-Constantan (J)
Drawing Number : H-2-37751, H-2-37753, SPEC B-101-P1
H-2-79556, H-2-37762, H-2-72213
Primary Tank Bottom Elevation (Ft): 617.34'
Waste Level (Ft) : 34.13'
Frequency of Monitoring : Weekly
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition : Manual

9413276.1230

4. TANK 101-SY IN-TANK TEMPERATURES (MIT in RISER 17B)

Tag Number / Thermocouple Number	Elevation[1] (Ft)	Temp. °F	Comment
TE-101-SY-17B-01 (TC #1)	0.33*	110.5 °F	-Watch list tank
TE-101-SY-17B-03A (TC #2)	1.33*	112.5 °F	-Temp. in this tank
TE-101-SY-17B-04 (TC #3)	2.33*	114.5 °F	is taken three time
TE-101-SY-17B-05 (TC #4)	4.33*	118.0 °F	a day. The data in the
TE-101-SY-17B-06 (TC #5)	6.33*	120.0 °F	temp. column is the
TE-101-SY-17B-07A (TC #6)	8.33*	121.5 °F	highest temp. recorded
TE-101-SY-17B-08 (TC #7)	9.33*	121.5 °F	on that day.
TE-101-SY-17B-09A (TC #8)	10.33*	122.0 °F	
TE-101-SY-17B-10 (TC #9)	12.33*	121.5 °F	
TE-101-SY-17B-12 (TC #10)	14.33*	120.5 °F	
TE-101-SY-17B-13 (TC #11)	16.33*	119.0 °F	
TE-101-SY-17B-14 (TC #12)	17.33*	118.5 °F	
TE-101-SY-17B-15 (TC #13)	18.33*	118.0 °F	
TE-101-SY-17B-16 (TC #14)	19.33*	118.0 °F	
TE-101-SY-17B-17 (TC #15)	20.33*	118.0 °F	
TE-101-SY-17B-18 (TC #16)	22.33*	116.5 °F	
TE-101-SY-17B-19 (TC #17)	24.33*	115.0 °F	
TE-101-SY-17B-20 (TC #18)	26.33*	113.5 °F	
TE-101-SY-17B-21 (TC #19)	28.33*	113.0 °F	
TE-101-SY-17B-22 (TC #20)	30.33*	111.0 °F	
TE-101-SY-17B-23A(TC #21)	32.66*	104.0 °F	
TE-101-SY-17B-24 (TC #22)	33.50*	97.5 °F	

Type of Thermocouple : MULTIFUNCTION INSTR. TREE (Type K)
Drawing Number : H-2-85122, H-2-85104, H-2-37762
High Waste Temperature (at TC #) : 122 °F at TC #9A
Date Read : 9/5/93 (9:55 AM)
Riser Elevation (R-17B) : 671.83'
Primary Tank Bottom Elevation (Ft): 617.34'
Waste Level (Ft) : 34.13'
Frequency of Monitoring : Daily
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition : Manual/TMACS/DACS

* Means TC in waste.

1. Elevation relative to tank center bottom.

4. TANK 101-SY IN-TANK TEMPERATURES (MIT in RISER 17C)

Tag Number / Thermocouple Number		Elevation[1] (Ft)	Temp. °F	Comment
TE-101-SY-17C-01	(TC #1)	0.33*	119.0 °F	-Watch list tank
TE-101-SY-17C-02	(TC #2)	1.33*	121.0 °F	-Temp. in this tank
TE-101-SY-17C-03	(TC #3)	2.33*	124.0 °F	is taken three times
TE-101-SY-17C-04	(TC #4)	4.33*	120.5 °F	a day. The data in the
TE-101-SY-17C-05	(TC #5)	6.33*	121.0 °F	temp. column is the
TE-101-SY-17C-06	(TC #6)	8.33*	122.5 °F	highest temp. recorded
TE-101-SY-17C-07	(TC #7)	9.33*	122.0 °F	on that day.
TE-101-SY-17C-08	(TC #8)	10.33*	121.5 °F	
TE-101-SY-17C-09	(TC #9)	12.33*	122.0 °F	
TE-101-SY-17C-10	(TC #10)	14.33*	122.0 °F	
TE-101-SY-17C-11	(TC #11)	16.33*	121.5 °F	
TE-101-SY-17C-12	(TC #12)	17.33*	121.5 °F	
TE-101-SY-17C-13	(TC #13)	18.33*	120.5 °F	
TE-101-SY-17C-14	(TC #14)	19.33*	120.0 °F	
TE-101-SY-17C-15	(TC #15)	20.33*	119.0 °F	
TE-101-SY-17C-16	(TC #16)	24.33*	116.0 °F	
TE-101-SY-17C-17	(TC #17)	26.33*	115.5 °F	
TE-101-SY-17C-18	(TC #18)	28.33*	115.0 °F	
TE-101-SY-17C-19	(TC #19)	30.33*	74.0 °F	
TE-101-SY-17C-20	(TC #20)	32.66*	111.5 °F	
TE-101-SY-17C-21	(TC #21)	33.50*	102.0 °F	
TE-101-SY-17C-22	(TC #22)	35.58	96.5 °F	

Type of Thermocouple : MULTIFUNCTION INSTR. TREE (Type K)
Drawing Number : H-2-85122, H-2-85123, H-2-85104 , H-2-37762
High Waste Temperature (at TC #) : 122.5 °F (TC #6)
Date Read : 9/5/93 (0:45 AM)
Riser Elevation (R-17C) : 672.37'
Primary Tank Bottom Elevation (Ft): 617.34'
Waste Level (Ft) : 34.13'
Frequency of Monitoring : Daily
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition : Manual/DACS (TMACS in future)

* Means TC in waste.

1. Elevation relative to tank center bottom.

9413276.1232

5. TANK 101-SY CONCRETE DOME AND TANK WALL TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp. °F	Comment
TE-101-SY-74	/SE	20F	672.49'	_____	-Watch list tank
TE-101-SY-75	/NW	20B	672.45'	_____	
TE-101-SY-76	/NE	20D	672.48'	_____	
TE-101-SY-77	/SE	20F	672.49'	_____	
TE-101-SY-78	/NW	20B	672.45'	_____	
TE-101-SY-79	/NE	20D	672.48'	_____	
TE-101-SY-80	/SE	20F	672.49'	_____	
TE-101-SY-81	/NW	20B	672.45'	_____	
TE-101-SY-82	/NE	20D	672.48'	_____	
TE-101-SY-83	/SE	20F	672.49'	_____	
TE-101-SY-84	/NW	20B	672.45'	_____	
TE-101-SY-85	/NE	20D	672.48'	_____	
TE-101-SY-86	/SE	20F	672.49'	_____	
TE-101-SY-87	/NW	20B	672.45'	_____	
TE-101-SY-88	/NE	20D	672.48'	_____	
TE-101-SY-89	/SE	20F	672.49'	_____	
TE-101-SY-90	/NW	20B	672.45'	_____	
TE-101-SY-91	/NE	20D	672.48'	_____	
TE-101-SY-92	/SE	20F	672.49'	93.8 °F	-Temp. reading
TE-101-SY-93	/NW	20B	672.45'	_____	date:1/25/93
TE-101-SY-94	/NE	20D	672.48'	_____	
TE-101-SY-95	/SE	20F	672.49'	93.4 °F	
TE-101-SY-96	/NW	20B	672.45'	_____	
TE-101-SY-97	/NE	20D	672.48'	_____	

Type of Thermocouple : Iron-Constantan (J)
Drawing Number : H-2-37754, SPEC B-101-C3
H-2-79556, H-2-37762, H-2-72213
Primary Tank Bottom Elevation (Ft): 617.34'
Waste Level (Ft) : 34.13'
Frequency of Monitoring : Weekly
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition : Manual/DACS (and TMACS by 6/15/93)

5. TANK 101-SY CONCRETE DOME AND TANK WALL TEMPERATURES (CONTINUE)

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp. °F	Comment
TE-101-SY-98	/SE	20F	672.49'	_____	-Watch list tank
TE-101-SY-99	/NW	20B	672.45'	_____	
TE-101-SY-100	/NE	20D	672.48'	_____	
TE-101-SY-101	/SE	20F	672.49'	_____	
TE-101-SY-102	/NW	20B	672.45'	_____	
TE-101-SY-103	/NE	20D	672.48'	_____	
TE-101-SY-104	/SE	20F	672.49'	94.2 °F	-Temp. reading
TE-101-SY-105	/NW	20B	672.45'	_____	date:1/25/93
TE-101-SY-106	/NE	20D	672.48'	_____	
TE-101-SY-107	/SE	20F	672.49'	94.1 °F	
TE-101-SY-108	/NW	20B	672.45'	_____	
TE-101-SY-109	/NE	20D	672.48'	_____	
TE-101-SY-110	/SE	20F	672.49'	_____	
TE-101-SY-111	/NW	20B	672.45'	_____	
TE-101-SY-112	/NE	20D	672.48'	80.6 °F	
TE-101-SY-113	/SE	20F	672.49'	_____	
TE-101-SY-114	/NW	20B	672.45'	_____	
TE-101-SY-115	/NE	20D	672.48'	74.2 °F	
TE-101-SY-116	/SE	20F	672.49'	_____	
TE-101-SY-117	/NW	20B	672.45'	_____	
TE-101-SY-118	/NE	20D	672.48'	_____	
TE-101-SY-119	/SE	20F	672.49'	_____	
TE-101-SY-120	/NW	20B	672.45'	_____	
TE-101-SY-121	/NE	20D	672.48'	_____	

Type of Thermocouple : Iron-Constantan (J)
Drawing Number : H-2-37754, SPEC B-101-C3
H-2-79556, H-2-37762, H-2-72213
Primary Tank Bottom Elevation (Ft): 617.34'
Waste Level (Ft) : 34.13'
Frequency of Monitoring : Weekly
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition : Manual/DACS (and TMACS by 6/15/93)

9413276.1234

1. TANK 102-SY INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp. °F	Comment
TE-102-SY-1	7.0'/SW	20A	672.26'	_____	-Watch list tank
TE-102-SY-2	7.0'/NW	20B	672.27'	_____	
TE-102-SY-3	7.0'/NE	20D	672.10'	_____	
TE-102-SY-4	7.0'/SE	20E	672.41'	_____	
TE-102-SY-5	21.0'/SW	20F	672.29'	_____	
TE-102-SY-6	21.0'/SW	20A	672.26'	_____	
TE-102-SY-7	21.0'/NW	20B	672.27'	_____	
TE-102-SY-8	21.0'/NW	20C	?	_____	-Exact elevation
TE-102-SY-9	21.0'/NE	20C		_____	of Riser 20C is
TE-102-SY-10	21.0'/NE	20D	672.10'	_____	not listed in
TE-102-SY-11	21.0'/SE	20E	672.41'	_____	present engr.
TE-102-SY-12	21.0'/SE	20F	672.29'	_____	documentation.
TE-102-SY-13	36.5'/SW	20F	672.29'	_____	
TE-102-SY-14	36.5'/SW	20A	672.26'	_____	
TE-102-SY-15	36.5'/SW	20A	672.26'	_____	
TE-102-SY-16	36.5'/NW	20B	672.27'	_____	
TE-102-SY-17	36.5'/NW	20B	672.27'	_____	
TE-102-SY-18	36.5'/NW	20C		_____	
TE-102-SY-19	36.5'/NE	20C		_____	
TE-102-SY-20	36.5'/NE	20D	672.10'	_____	
TE-102-SY-21	36.5'/NE	20D	672.10'	_____	
TE-102-SY-22	36.5'/SE	20E	672.41'	_____	
TE-102-SY-23	36.5'/SE	20E	672.41'	_____	
TE-102-SY-24	36.5'/SE	20F	672.29'	_____	

Type of Thermocouple : Iron-Constantan (J)
Drawing Number : H-2-37753, H-2-85104, H-2-37762, H-2-72213
SPEC B-101-P1
Primary Tank Bottom Elevation (Ft): 617.34'
Waste Level (Ft) : 20.48'
Frequency of Monitoring : Weekly
Category : Transfer tank, DST
Data Acq. Code/Condition : Manual

9413276.1235

2. TANK 102-SY OUTSIDE PRIMARY TANK WALL TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp. °F	Comment
TE-102-SY-25	37.5'/NW	20F	672.29'	_____	-Watch list tank
TE-102-SY-26	37.5'/SE	20C		_____	

3. TANK 102-SY CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp. °F	Comment
TE-102-SY-28	4.0'/NE	20E	672.41'	_____	Watch list tank
TE-102-SY-29	4.0'/W	20C		_____	
TE-102-SY-30	4.0'/SE	20A	672.26'	_____	
TE-102-SY-31	21.0'/NE	20E	672.41'	_____	
TE-102-SY-32	21.0'/NW	20C		_____	
TE-102-SY-33	21.0'/SE	20A	672.26'	_____	
TE-102-SY-34	38.0'/NE	20E	672.41'	_____	
TE-102-SY-35	38.0'/NW	20C		_____	
TE-102-SY-36	38.0'/SE	20A	672.26'	_____	

Type of Thermocouple : Iron-Constantan (J)
Drawing Number : H-2-37751, H-2-37753, SPEC B-101-P1
H-2-85104, H-2-37762, H-2-72213
Primary Tank Bottom Elevation (Ft): 617.34'
Waste Level (Ft) : 20.48'
Frequency of Monitoring : Weekly
Category : Transfer tank, DST
Data Acq. Code/Condition : Manual

9413276.1236

4. TANK 102-SY IN-TANK TEMPERATURES

Tag Number / Thermocouple Number		Elevation[1] (Ft)	Temp. °F	Comment
TE-102-SY-37	(TC #2)	0.74*	70 °F	- Watch list tank
TE-102-SY-38	(TC #3)	2.74*	_____	- TC tree is located
TE-102-SY-39	(TC #4)	4.74*	66 °F	in Riser 4A
TE-102-SY-40	(TC #5)	6.74*	_____	
TE-102-SY-41	(TC #6)	8.74*	65 °F	
TE-102-SY-42	(TC #7)	10.74*	_____	
TE-102-SY-43	(TC #8)	12.74*	65 °F	
TE-102-SY-44	(TC #9)	14.74*	_____	
TE-102-SY-45	(TC #10)	16.74*	64 °F	
TE-102-SY-46	(TC #11)	18.74*	_____	
TE-102-SY-47	(TC #12)	20.74	65 °F	
TE-102-SY-48	(TC #13)	22.74	_____	
TE-102-SY-49	(TC #14)	24.74	65 °F	
TE-102-SY-50	(TC #15)	26.74	_____	
TE-102-SY-51	(TC #16)	28.74	_____	
TE-102-SY-52	(TC #17)	30.74	_____	
TE-102-SY-53	(TC #18)	34.74	_____	
TE-102-SY-54	(TC #19)	38.74	_____	

Type of Thermocouple : TREE, Iron-Constantan (Type J)
Drawing Number : H-2-34304, H-2-85104, H-2-37762
WHC-SD-WM-ER-158
High Waste Temperature (at TC #) : 70 °F (TC #1)
Date Read : 6/28/93
Riser Elevation (R-4A) : ? (Exact elevation is not listed in present engineering documentation).
Primary Tank Bottom Elevation (Ft): 617.34'
Waste Level (Ft) : 20.48'
Frequency of Monitoring : Weekly
Category : Transfer tank, DST
Data Acq. Code/Condition : Manual (and TMACS in future)

* Means TC in waste.
1. Elevation relative to tank center bottom.

5. TANK 102-SY CONCRETE DOME AND TANK WALL TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp. °F	Comment
TE-102-SY-74	/SE	20F	672.29'	_____	-Watch list tank
TE-102-SY-75	/NW	20B	672.27'	_____	
TE-102-SY-76	/NE	20D	672.10'	_____	
TE-102-SY-77	/SE	20F	672.29'	_____	
TE-102-SY-78	/NW	20B	672.27'	_____	
TE-102-SY-79	/NE	20D	672.10'	_____	
TE-102-SY-80	/SE	20F	672.29'	_____	
TE-102-SY-81	/NW	20B	672.27'	_____	
TE-102-SY-82	/NE	20D	672.10'	_____	
TE-102-SY-83	/SE	20F	672.29'	_____	
TE-102-SY-84	/NW	20B	672.27'	_____	
TE-102-SY-85	/NE	20D	672.10'	_____	
TE-102-SY-86	/SE	20F	672.29'	_____	
TE-102-SY-87	/NW	20B	672.27'	_____	
TE-102-SY-88	/NE	20D	672.10'	_____	
TE-102-SY-89	/SE	20F	672.29'	_____	
TE-102-SY-90	/NW	20B	672.27'	_____	
TE-102-SY-91	/NE	20D	672.10	_____	
TE-102-SY-92	/SE	20F	672.29'	67.8 °F	-Temp. reading
TE-102-SY-93	/NW	20B	672.27'	_____	date:1/25/93
TE-102-SY-94	/NE	20D	672.10'	_____	
TE-102-SY-95	/SE	20F	672.29'	66.8 °F	
TE-102-SY-96	/NW	20B	672.27'	_____	
TE-102-SY-97	/NE	20D	672.10'	_____	

Type of Thermocouple : Iron-Constantan (J)
Drawing Number : H-2-37754, SPEC B-101-C3
H-2-85104, H-2-37762, H-2-72213
Primary Tank Bottom Elevation (Ft): 617.34'
Waste Level (Ft) : 20.48'
Frequency of Monitoring : Weekly
Category : Transfer tank, DST
Data Acq. Code/Condition : Manual

9413276.1238

5. TANK 102-SY CONCRETE DOME AND TANK WALL TEMPERATURES (CONTINUE)

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp. °F	Comment
TE-102-SY-98	/SE	20F	672.29'	_____	-Watch list tank
TE-102-SY-99	/NW	20B	672.27'	_____	
TE-102-SY-100	/NE	20D	672.10'	_____	
TE-102-SY-101	/SE	20F	672.29'	_____	
TE-102-SY-102	/NW	20B	672.27'	_____	
TE-102-SY-103	/NE	20D	672.10'	_____	
TE-102-SY-104	/SE	20F	672.29'	64.6°F	-Temp. reading
TE-102-SY-105	/NW	20B	672.27'	_____	date:1/25/93
TE-102-SY-106	/NE	20D	672.10'	_____	
TE-102-SY-107	/SE	20F	672.29'	65.2 °F	
TE-102-SY-108	/NW	20B	672.27'	_____	
TE-102-SY-109	/NE	20D	672.10'	_____	
TE-102-SY-110	/SE	20F	672.29'	_____	
TE-102-SY-111	/NW	20B	672.27'	_____	
TE-102-SY-112	/NE	20D	672.10'	67.2 °F	
TE-102-SY-113	/SE	20F	672.29'	_____	
TE-102-SY-114	/NW	20B	672.27'	_____	
TE-102-SY-115	/NE	20D	672.10'	61.6 °F	
TE-102-SY-116	/SE	20F	672.29'	_____	
TE-102-SY-117	/NW	20B	672.27'	_____	
TE-102-SY-118	/NE	20D	672.10'	_____	
TE-102-SY-119	/SE	20F	672.29'	_____	
TE-102-SY-120	/NW	20B	672.27'	_____	
TE-102-SY-121	/NE	20D	672.10'	_____	

Type of Thermocouple : Iron-Constantan (J)
Drawing Number : H-2-37754, SPEC B-101-C3
H-2-85104, H-2-37762, H-2-72213
Primary Tank Bottom Elevation (Ft): 617.34'
Waste Level (Ft) : 20.48'
Frequency of Monitoring : Weekly
Category : Transfer tank, DST
Data Acq. Code/Condition : Manual (and TMACS by 6/15/93)

9413276.1239

1. TANK 103-SY INSULATING CONCRETE TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp. °F	Comment
TE-103-SY-1	7.0'/SW	20A	672.42'	_____	-Watch list tank
TE-103-SY-2	7.0'/NW	20B	672.43'	_____	
TE-103-SY-3	7.0'/NE	20D	672.48'	_____	
TE-103-SY-4	7.0'/SE	20E	672.44'	_____	
TE-103-SY-5	21.0'/SW	20F	672.43'	_____	
TE-103-SY-6	21.0'/SW	20A	672.42'	_____	
TE-103-SY-7	21.0'/NW	20B	672.43'	_____	
TE-103-SY-8	21.0'/NW	20C	672.44'	_____	
TE-103-SY-9	21.0'/NE	20C	672.44'	_____	
TE-103-SY-10	21.0'/NE	20D	672.48'	_____	
TE-103-SY-11	21.0'/SE	20E	672.44'	_____	
TE-103-SY-12	21.0'/SE	20F	672.43'	_____	
TE-103-SY-13	36.5'/SW	20F	672.43'	_____	
TE-103-SY-14	36.5'/SW	20A	672.42'	_____	
TE-103-SY-15	36.5'/SW	20A	672.42'	_____	
TE-103-SY-16	36.5'/NW	20B	672.43'	_____	
TE-103-SY-17	36.5'/NW	20B	672.43'	_____	
TE-103-SY-18	36.5'/NW	20C	672.44'	_____	
TE-103-SY-19	36.5'/NE	20C	672.44'	_____	
TE-103-SY-20	36.5'/NE	20D	672.48'	_____	
TE-103-SY-21	36.5'/NE	20D	672.48'	_____	
TE-103-SY-22	36.5'/SE	20E	672.44'	_____	
TE-103-SY-23	36.5'/SE	20E	672.44'	_____	
TE-103-SY-24	36.5'/SE	20F	672.43'	_____	

Type of Thermocouple : Iron-Constantan (J)
Drawing Number : H-2-37753, H-2-85104, H-2-37762, H-2-72213
SPEC B-101-P1
Primary Tank Bottom Elevation (Ft): 617.34'
Waste Level (Ft) : 22.72'
Frequency of Monitoring : Weekly
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition : Manual

9413276.1240

2. TANK 103-SY OUTSIDE PRIMARY TANK WALL TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp. °F	Comment
TE-103-SY-25	37.5'/NW	20F	672.43'	_____	Watch list tank
TE-103-SY-26	37.5'/SE	20C	672.44'	_____	

3. TANK 103-SY CONCRETE FOUNDATION TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp. °F	Comment
TE-103-SY-28	4.0'/NE	20E	672.44'	_____	Watch list tank
TE-103-SY-29	4.0'/W	20C	672.44'	_____	
TE-103-SY-30	4. 0'/SE	20A	672.42'	_____	
TE-103-SY-31	21.0'/NE	20E	672.44'	_____	
TE-103-SY-32	21.0'/NW	20C	672.44'	_____	
TE-103-SY-33	21.0'/SE	20A	672.42'	_____	
TE-103-SY-34	38.0'/NE	20E	672.44'	_____	
TE-103-SY-35	38.0'/NW	20C	672.44'	_____	
TE-103-SY-36	38.0'/SE	20A	672.42'	_____	

Type of Thermocouple : Iron-Constantan (J)
Drawing Number : H-2-37751, H-2-37753, SPEC B-101-P1
H-2-85104, H-2-37762, H-2-72213
Primary Tank Bottom Elevation (Ft): 617.34'
Waste Level (Ft) : 22.72'
Frequency of Monitoring : Weekly
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition : Manual

9413276.1241

4. TANK 103-SY IN-TANK TEMPERATURES

Tag Number / Thermocouple Number		Elevation[1] (Ft)	Temp. °F	Comment
TE-103-SY-37	(TC #2)	0.74*	99 °F	- Watch list tank
TE-103-SY-38	(TC #3)	2.74*	_____	- TC tree is located
TE-103-SY-39	(TC #4)	4.74*	97 °F	in Riser 4A
TE-103-SY-40	(TC #5)	6.74*	_____	
TE-103-SY-41	(TC #6)	8.74*	92 °F	
TE-103-SY-42	(TC #7)	10.74*	_____	
TE-103-SY-43	(TC #8)	12.74*	O/S	- TC #8 out of
TE-103-SY-44	(TC #9)	14.74*	_____	service 7/19/93
TE-103-SY-45	(TC #10)	16.74*	96 °F	
TE-103-SY-46	(TC #11)	18.74*	_____	
TE-103-SY-47	(TC #12)	20.74*	91 °F	
TE-103-SY-48	(TC #13)	22.74	_____	
TE-103-SY-49	(TC #14)	24.74	88 °F	
TE-103-SY-50	(TC #15)	26.74	_____	
TE-103-SY-51	(TC #16)	28.74	_____	
TE-103-SY-52	(TC #17)	30.74	_____	
TE-103-SY-53	(TC #18)	34.74	_____	
TE-103-SY-54	(TC #19)	38.74	_____	

Type of Thermocouple : TREE, Iron-Constantan (Type J)
Drawing Number : H-2-34304, H-2-85104, H-2-37762
WHC-SD-WM-ER-158
High Waste Temperature (at TC #) : 99 °F (TC #1)
Date Read : 7/19/93
Riser Elevation (R-4A) : 672.38'
Primary Tank Bottom Elevation (Ft): 617.34'
Waste Level (Ft) : 22.72'
Frequency of Monitoring : Weekly
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition : Manual (and TMACS in future)

* Means TC in waste.

1. Elevation relative to tank center bottom.

9413276.1242

5. TANK 103-SY CONCRETE DOME AND TANK WALL TEMPERATURES

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp. °F	Comment
TE-103-SY-74	/SE	20F	672.43'	_____	Watch list tank
TE-103-SY-75	/NW	20B	672.43'	_____	
TE-103-SY-76	/NE	20D	672.48'	_____	
TE-103-SY-77	/SE	20F	672.43'	_____	
TE-103-SY-78	/NW	20B	672.43'	_____	
TE-103-SY-79	/NE	20D	672.48'	_____	
TE-103-SY-80	/SE	20F	672.43'	_____	
TE-103-SY-81	/NW	20B	672.43'	_____	
TE-103-SY-82	/NE	20D	672.48'	_____	
TE-103-SY-83	/SE	20F	672.43'	_____	
TE-103-SY-84	/NW	20B	672.43'	_____	
TE-103-SY-85	/NE	20D	672.48'	_____	
TE-103-SY-86	/SE	20F	672.43'	_____	
TE-103-SY-87	/NW	20B	672.43'	_____	
TE-103-SY-88	/NE	20D	672.48'	_____	
TE-103-SY-89	/SE	20F	672.43'	_____	
TE-103-SY-90	/NW	20B	672.43'	_____	
TE-103-SY-91	/NE	20D	672.48'	_____	
TE-103-SY-92	/SE	20F	672.43'	O/S	-Temp. reading
TE-103-SY-93	/NW	20B	672.43'	_____	out of service as
TE-103-SY-94	/NE	20D	672.48'	_____	of 1/25/93
TE-103-SY-95	/SE	20F	672.43'	O/S	
TE-103-SY-96	/NW	20B	672.43'	_____	
TE-103-SY-97	/NE	20D	672.48'	_____	

Type of Thermocouple : Iron-Constantan (J)
Drawing Number : H-2-37754, SPEC B-101-C3
H-2-85104, H-2-37762, H-2-72213
Primary Tank Bottom Elevation (Ft): 617.34'
Waste Level (Ft) : 22.72'
Frequency of Monitoring : Weekly
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition : Manual (and TMACS by 6/15/93)

5. TANK 103-SY CONCRETE DOME AND TANK WALL TEMPERATURES (CONTINUE)

Thermocouple Number	Radius/ Quadrant	Riser Number	Riser Elevation	Temp. °F	Comment
TE-103-SY-98	/SE	20F	672.43'	_____	Watch list tank
TE-103-SY-99	/NW	20B	672.43'	_____	
TE-103-SY-100	/NE	20D	672.48'	_____	
TE-103-SY-101	/SE	20F	672.43'	_____	
TE-103-SY-102	/NW	20B	672.43'	_____	
TE-103-SY-103	/NE	20D	672.48'	_____	
TE-103-SY-104	/SE	20F	672.43'	O/S	-Temp. reading
TE-103-SY-105	/NW	20B	672.43'	_____	out of service as
TE-103-SY-106	/NE	20D	672.48'	_____	of 1/25/93
TE-103-SY-107	/SE	20F	672.43'	O/S	
TE-103-SY-108	/NW	20B	672.43'	_____	
TE-103-SY-109	/NE	20D	672.48'	_____	
TE-103-SY-110	/SE	20F	672.43'	_____	
TE-103-SY-111	/NW	20B	672.43'	_____	
TE-103-SY-112	/NE	20D	672.48'	O/S	
TE-103-SY-113	/SE	20F	672.43'	_____	
TE-103-SY-114	/NW	20B	672.43'	_____	
TE-103-SY-115	/NE	20D	672.48'	O/S	
TE-103-SY-116	/SE	20F	672.43'	_____	
TE-103-SY-117	/NW	20B	672.43'	_____	
TE-103-SY-118	/NE	20D	672.48'	_____	
TE-103-SY-119	/SE	20F	672.43'	_____	
TE-103-SY-120	/NW	20B	672.43'	_____	
TE-103-SY-121	/NE	20D	672.48'	_____	

Type of Thermocouple : Iron-Constantan (J)
Drawing Number : H-2-37754, SPEC B-101-C3
H-2-85104, H-2-37762, H-2-72213
Primary Tank Bottom Elevation (Ft): 617.34'
Waste Level (Ft) : 22.72'
Frequency of Monitoring : Weekly
Category : Hydrogen, Watch list tank, DST
Data Acq. Code/Condition : Manual (and TMACS by 6/15/93)

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LIQUID OBSERVATION WELLS IN DOUBLE-SHELL TANK FARMS

TANK NUMBER	LIQUID OBSERVATION WELL(*) RISER	TYPE	RISER ELEVATION (Ft)
103-AW	13A	TEFZEL	687.75'
104-AW	13A		687.75'
105-AW	13A		687.75'
101-AY	14A Through 14G	FIBERGLASS	14A: 679.87' ; 14E: 680.05' 14B: 679.94' ; 14F: 680.04' 14C: 679.91' ; 14G: 680.06' 14D: 680.08'
102-AY	14A Through 14Gg	FIBERGLASS	14A: 679.87' ; 14E: 680.05' 14B: 679.94' ; 14F: 680.04' 14C: 679.91' ; 14G: 680.06' 14D: 680.08'
101-AZ	14A Through 14G	STEEL	14A: 672.95' ; 14E: 672.36' 14B: 672.95' ; 14F: 672.31' 14C: 672.38' ; 14G: 672.29' 14D: 672.38'
102-AZ	14A Through 14F	STEEL	14A: 672.67' ; 14E: 672.69' 14B: 672.67' ; 14F: 672.69' 14C: 672.68' ; 14G: 672.69' 14D: 672.70'
102-SY	1B	TEFZEL	672.48'

(*) LOWs which are made from steel are called dry wells by some. However, for the purpose of this document, a LOW always penetrates tank waste whereas a drywell is always on the outside of the tank. The fiberglass and tefzel LOW's all are 3 inches inside diameter nominal. Some of the steel are 6 inches and some are 4 inches.

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Hanlon, B.M., November 1992, *Tank Farm Surveillance and Waste Status Summary Report for May 1993*, WHC-EP-0182-62, Westinghouse Hanford Company, Richland, Washington.

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