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Date Received: 1-6-94	INFORMATION RELEASE REQUEST	Reference: WHC-CM-3-4

Complete for all Types of Release

Purpose

- [] Speech or Presentation (Check only one suffix)
  - [] Full Paper
  - [] Summary
  - [] Abstract
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ID Number (include revision, volume, etc.)
DO-040-001 pg 17 (PCA), pg. 17, pg 19 Rev F-
DO-I00-004 pg. 23, 24, 38 Rev. D-4

List attachments.

Date Release Required

Title T Plant POP - 6 pages for Ecology Inspection

Unclassified Category UC-

Impact Level

New or novel (patentable) subject matter? [X] No [] Yes
If "Yes", has disclosure been submitted by WHC or other company?
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Title of Conference or Meeting: N/A

Group or Society Sponsoring: N/A

Date(s) of Conference or Meeting: N/A

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Will proceedings be published? [] Yes [X] No
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Title of Journal: N/A

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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]			
Patent - General Counsel	[X]	[]			
Legal - General Counsel	[X]	[]			
Applied Technology/Export Controlled Information or International Program	[]	[X]			
WHC Program/Project	[X]	[]	G.W. Faulk		1/6/94
Communications	[]	[X]			
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Publication Services	[]	[X]			
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) L.T. St. Georges — Date 1-6-94

Intended Audience Brad G. Erlandson

[] Internal [] Sponsor [X] External

Responsible Manager (Printed/Signature) — Date 1/6/94

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

Date Cancelled | Date Disapproved

ID Number

Lead Author	Phone	MSIN	Other Author(s) or Requestor
Project or Program	Lead Org Code		Sponsor Agency (DOE, DOT, NRC, USGS, etc.)
Editor	Phone	MSIN	DOE/HQ Program (DP, EH, EM, NE, etc.)

Mandatory Comments (Only mandatory comments are to be documented. All other comments should be made on a copy of the information submitted for review and returned to the author.)	Reviewer Name & Signature	Date	Resolution	Reviewer Name & Signature	Date

Legends/Notices/Markings (required per WHC-CM-3-4 or guidance organization.) (Reviewer initials)

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AUTHOR/REQUESTOR

- [] Project or program manager concurs with the issuance of this report.
- [] Reference citations are necessary, correct and appropriate for the intended audience and will be publicly available at the time the document is published.
- [] If a journal article, the reference style agrees with guidance from the client or journal publisher.
- [] Contributions from authors of other organizations indicated in the comment section of this form.
- [] Document is responsive to the client's scope of work.
- [] Client approved this for release.
- [] Document reports or reflects quality technical work.
- [] Scientific methodology used is logical and reasonable.
- [] Inferences and conclusions are soundly based.

RESPONSIBLE MANAGER

Indicated at the bottom of the comment section of this form that General Counsel's office should review this document with particular attention to:

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- [] Copyrighted information
- [] Trademark information
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If the funding for the program represented by the document is from the Assistant Secretary for Nuclear Energy (NE), and public clearance or limited clearance for foreign exchange (sponsor-limited) is requested, the following information is required:

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- [] Prior dissemination to DOE contractors
- [] Prior dissemination under international agreements
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Document reviewed for (and indicated on the front of the form) the presence of the following:

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- [] Inventions
- [] New software developments
- [] Information meets environmental compliance.

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- [] All reviews are complete and this publication or presentation is approved for release (after resolution of mandatory comments).

H. TRANSFER LIQUID WASTE CONTINUOUSLY FROM TANK 5-7 TO TANK 15-1 VIA TANK 5-9 (Cont.)

* 23. **CALCULATE** "gallons sent" from Tank 5-7, and "gallons received" into Tank 15-1.

a. **SUBTRACT** "end-of-transfer" gallons from initial gallons for Tank 5-7 using WORKSHEET, and **RECORD** "gallons sent" on DATA/CHECKSHEET.

b. **SUBTRACT** initial gallons from "end-of-transfer" gallons for Tank 15-1 using WORKSHEET, and **RECORD** "gallons received" on DATA/CHECKSHEET.

* 24. **RECORD** "End-of-Transfer" time, **SIGN** and **RETURN** completed DATA/CHECKSHEET and WORKSHEET to operations supervision.

I. TRANSFER LIQUID WASTE FROM 2706-T TO TANK 5-7

NOTE (1) - This Task requires one Operator to be stationed at the Tank 5-7 level indicators in 221-T, and one Operator in 2706-T.

NOTE (2) - 2706-T TO TANK 5-7 TRANSFER WORKSHEET is used to perform necessary calculations in this Task.

1. **CALCULATE** initial gallons of liquid in 2706-T pit by measuring depth of liquid in pit, or by reading bubbler {1 inch equals 510 gallons}.

- **RECORD** "Initial Gallons" on T PLANT TANK-TO-TANK TRANSFER DATA/CHECKSHEET.

* 2. **DETERMINE** initial liquid level in Tank 5-7.

a. **OBTAIN** initial chart reading.

b. **CALCULATE** initial liquid level for Tank 5-7 using 2706-T TO TANK 5-7 TRANSFER WORKSHEET.

c. **RECORD** initial liquid level on T PLANT TANK-TO-TANK TRANSFER DATA/CHECKSHEET.

* 3. **DETERMINE** initial gallons in Tank 5-7.

a. For Tank 5-7, **ENTER** Table 2 and **READ** gallons corresponding to initial liquid level calculated in step I.2.b. **RECORD** initial gallons on T PLANT TANK-TO-TANK TRANSFER DATA/CHECKSHEET.

b. **VERIFY** that Tank 5-7 has sufficient volume to receive waste from 2706-T pits.

4. **VERIFY** that the following valves are OPENED:

- T-PS-211T-006 (211-T)
- P-LW-0-06-001 (In Pipe Gallery, Section 5)
- T-XX-2706-006 (If Sump Pump #1 is going to be used)
- T-XX-2706-004 (If Sump Pump #2 is going to be used)

(S) 5. **OBTAIN** Operations Manager's approval for transfer, and **INITIAL** DATASHEET.

T. TRANSFER LIQUID WASTE FROM 2706-T TO TANK 5-7 (Cont.)

6. **VERIFY** proper operation of 211-T sump pump by lifting float. This should activate motor.

7. **START** #1 or #2 sump pump, and **RECORD** pump number on T PLANT TANK-TO-TANK TRANSFER DATA/CHECKSHEET.

8. **MONITOR** Tank 5-7 liquid level to confirm flow, and **RECORD** "Start-of-Transfer" Time on T PLANT TANK-TO-TANK TRANSFER DATA/CHECKSHEET.

9. **IF** level indicator for Tank 5-7 does NOT show an increase within 15-minutes of "start-of-transfer", **STOP** pump and **NOTIFY** management.

10. **STOP** Sump Pump used for the transfer **WHEN** 2706-T sump has been pumped dry, **OR** when Tank 5-7 level reaches 57 inches, unless prior approval to exceed this amount has been received from Operations Management.

11. **DETERMINE** "Gallons Sent" from 2706-T Sump Pit.

    a. **CALCULATE** "End-of-Transfer" gallons of liquid in 2706-T pit by measuring depth of liquid in pit, or by reading bubbler {1 inch equals 510 gallons}.

    b. **RECORD** "End-of-Transfer" gallons on T PLANT TANK-TO-TANK TRANSFER DATA/CHECKSHEET.

    c. **CALCULATE** "Gallons Sent" from 2706-T Sump and **RECORD** on T PLANT TANK-TO-TANK TRANSFER DATA/CHECKSHEET.

* 12. **DETERMINE** "Gallons Received" into Tank 5-7.

    a. **OBTAIN** ending chart reading for Tank 5-7, and **RECORD** on 2706-T TO TANK 5-7 TRANSFER WORKSHEET.

    b. **CALCULATE** and **RECORD** Ending Liquid Level for Tank 5-7 on 2706-T TO TANK 5-7 TRANSFER WORKSHEET.

    c. **CALCULATE** "End-of-Transfer" Gallons for Tank 5-7 using 2706-T TO TANK 5-7 TRANSFER WORKSHEET and **RECORD** on T PLANT TANK-TO-TANK TRANSFER DATA/CHECKSHEET.

    d. **CALCULATE** "Gallons Received" on 2706-T TO TANK 5-7 TRANSFER WORKSHEET and **RECORD** on T PLANT TANK-TO-TANK TRANSFER DATA/CHECKSHEET.

(S) 13. **IF** "Gallons Received" differs from "Gallons Sent" by more than 200 gallons,

    - **NOTIFY** Operations Supervision.

14. **RECORD** "End-of-Transfer" time on T PLANT TANK-TO-TANK TRANSFER DATA/CHECKSHEET, and **SIGN** and **RETURN** completed DATA/CHECKSHEET and 2706-T TO TANK 5-7 TRANSFER WORKSHEET to Operations Supervision.

T PLANT TANK-TO-TANK WASTE TRANSFER DATA/CHECKSHEET (Cont.)

I. TRANSFER LIQUID WASTE FROM 2706-T TO TK 5-7

Step No.		
I.1	2706-T Sump Initial Gallons	_____gal.
I.3.a	Tank 5-7 Initial Gallons	_____gal.
I.3.b	Volume Available in TK 5-7	_____gal.
I.5	Operations Manager's Approval	_____ (Time) _____ (Initials)
I.7	2706-T Sump Pump Used	#1 #2 (Circle One)
I.8	Flow to Tank 5-7 Confirmed	_____(Initials)
I.8	"Start-of-Transfer" Time	_____

- -

I.10.b	2706-T Sump "End-of-Transfer" Gallons	_____gal.
I.10.c	Gallons Sent	_____gal.
I.11.c	Tank 5-7 "End-of-Transfer" Gallons	_____gal.
I.11.d	Gallons Received	_____gal.
I.13	"End-of-Transfer" Time	_____

Date_____

Operator's Name: _____ (Print) Operator's Signature_____

Supervisor's Signature: _____ Date_____

3S DO-00153 Page 125

PERFORM SURVEILLANCE OF 2706-T (Cont.)

Start of Shift Surveillance (Cont.)

15. UNLOCK and ENTER building 2706-T

AND

TURN interior building lights on in

- Maintenance shop
- Storage area
- Main decontamination hall

a. RECORD status on LOG.

16. INSPECT building process air system pressure gauge for air pressure reading.

- RECORD on LOG

NOTE - Normal operating air pressure is 85 - 95 PSI.

17. INSPECT building air and sanitary water supply piping for leakage and/or damage.

- RECORD status on LOG

18. INSPECT building fire protection system piping for damage and/or leakage.

a. RECORD status on LOG

b. NOTIFY Operations supervision immediately if leakage or damage is noted.

19. INSPECT Main Decontamination Area annunciator panel, lights and associated indicators for damage to panels or connected piping and wires.

a. TEST alarms USING test buttons.
b. RECORD status of alarm panel operation on LOG.

20. OBSERVE building sump level indicator, and RECORD level on LOG. Also Record waste description by circling liquid or sludge.

- IF sump level >12 inches, NOTIFY Operations Supervision.

NOTE - Refer to DO-080-007, "Sample 2706-T, 211-T Radioactive Liquid & Sludge", for required steps to be performed prior to sump transfer to 211-T.
Environmental Control is responsible for assigning the waste codes when a change occurs in any tank or sump.

21. INSPECT building Fan Control Units (FCU), maintenance, and storage area unit heaters for damage.

- OBSERVE building temperature indicator,
- RECORD temperature on LOG, and
- NOTIFY Operations supervision if building temperature exceeds envelope (50 - 80 °F).

F. PERFORM SURVEILLANCE OF 2706-T (Cont.)

Start of Shift Surveillance (Cont.)

15. UNLOCK and ENTER building 2706-T

AND

TURN interior building lights on in

- Maintenance shop
- Storage area
- Main decontamination hall

a. RECORD status on LOG.

16. INSPECT building process air system pressure gauge for air pressure reading.

- RECORD on LOG

NOTE - Normal operating air pressure is 85 - 95 PSI.

17. INSPECT building air and sanitary water supply piping for leakage and/or damage.

- RECORD status on LOG

18. INSPECT building fire protection system piping for damage and/or leakage.

a. RECORD status on LOG

b. NOTIFY Operations supervision immediately if leakage or damage is noted.

19. INSPECT Main Decontamination Area annunciator panel, lights and associated indicators for damage to panels or connected piping and wires.

a. TEST alarms USING test buttons.
b. RECORD status of alarm panel operation on LOG.

20. OBSERVE building sump level indicator, and RECORD level on LOG.

- IF sump level >12 inches, NOTIFY Operations Supervision.

NOTE - Refer to DO-080-007, "Sample 2706-T, 211-T Radioactive Liquid & Sludge", for required steps to be performed prior to sump transfer to 211-T.

21. INSPECT building Fan Control Units (FCU), maintenance, and storage area unit heaters for damage.

- OBSERVE building temperature indicator,
- RECORD temperature on LOG, and
- NOTIFY Operations supervision if building temperature exceeds envelope (50 - 80 °F).

F. PERFORM SURVEILLANCE OF 2706-T (Cont.)

Start of Shift Surveillance (Cont.)

29. **INSPECT** stored material containers for leakage.

    a. **NOTIFY** Operations supervision immediately if any leakage is noted

       AND

       TAKE ACTION as necessary to ensure that leakage remains within building sump boundary.

    b. **RECORD** status on LOG

30. **ENSURE** storage building doors are closed.

End of Shift Surveillance

Note: End of Shift surveillance must be performed during LAST HOUR of shift.

31. **RECORD** on LOG the types and quantities of chemicals used during day shift operations,

    AND

    that all flammable/flammable materials have been returned to proper storage buildings.

32. **CLOSE AND LOCK** storage buildings.

    a. **ENSURE** that lights and fans are secured

    b. **RECORD** status on LOG

33. **ENSURE** that facility yard is in order and that packaged equipment and LLW station are properly **SECURED**.

34. **ENSURE** that all decontamination process equipment has been secured (ACT-1, PARTEK Blaster, SIOUX steam cleaner, etc.).

    a. **RECORD** status on LOG

35. **ENSURE** that building sump pumps are secured.

    • **RECORD** status on LOG

36. **RECORD** sump level indicator reading.

    a. **NOTIFY** Operations supervision if sump level is >12 inches.

2706-T DAILY SURVEILLANCE LOG (Page 1 of 2)
T-PLANT FACILITIES

DATE 1-5-94

START OF SHIFT SURVEILLANCE
(This Section Performed During 1st Hour of Shift)

Step No.			
F.3	Ventilation Room Equip. Condition	Sat ✓	UNSAT ___
F.4	ACT-1 Annunciator Panel: All alarms activate	YES ✓	NO ___
F.6	Fire Riser Room Status	SAT ✓	UNSAT ___
F.7	Fire Riser Room Heater Operational	YES ✓	NO ___
F.9	Electrical Room	SAT ✓	UNSAT ___
F.11	HVAC Units: #1 SAT ✓ UNSAT ___ #2	SAT ✓	UNSAT ___
	#3 SAT ✓ UNSAT ___ #4	SAT ✓	UNSAT ___
F.12	Backflow Preventer:	SAT ___	UNSAT ✓
F.13	211-T Sump Pump Operational	YES ✓	NO ___
F.15	Building Lights Operational	YES ✓	NO ___
F.16	Process Air Pressure N/A See Attached Chart		
F.17	Process Air Lines: Leaks?	YES ___	NO ✓
	Sanitary Water Lines: Leaks?	YES ___	NO ✓
F.18	Fire Protection Lines: Leaks?	YES ___	NO ✓
F.19	All Annunciator Alarms Actuate:	YES ✓	NO ___
F.20	Sump Level See Attached ___ Gal.		
F.21	Building FCUs #1 SAT ✓ UNSAT ___ #2	SAT ✓	UNSAT ___
	#3 SAT ✓ UNSAT ___ #4	SAT ✓	UNSAT ___
	Building Temperature 60 °F (Range 50 - 80°F)		
	Storage Area Heaters	SAT ✓	UNSAT ___
F.23	8' 6" Clearance for Rail Spur Area	YES ✓	NO ___
F.24	2706-T Yard, LLW Stations, RMW SAA Deficiencies	YES ___	NO ✓
F.25	Flammable/Haz. Storage Bldg.	SAT ✓	UNSAT ___
F.27	Storage Bldg. Interior Condition	SAT ✓	UNSAT ___
F.28	Fans & Lights Operable	YES ✓	NO ___
F.29	Stored Hazardous/Flammable Status	SAT ✓	UNSAT ___

END OF SHIFT SURVEILLANCE
(This Section is Performed During Last Hour of Shift)

F.31 Chemical Usage and Storage

Type/Name	Amount Used	Restored (Bldg/Loc.)
NONE USED		

Step No.		Initials
F.32	Storage Bldg Locked; Vents/Lights Secured	[illegible]
F.34	Decon Process Equipment Secured:	
	ACT-1	[illegible]
	PARTEK Blaster	[illegible]
	SIOUX Cleaner	[illegible]
F.35	Bldg Sump Pumps Secured	[illegible]
F.36	Ending Sump Level See Attached Gal.	
F.37	Sanitary Water "End-of-Line" Control Valves OFF / Hoses Disconnected and Properly Stowed	[illegible]
F.38	Bldg Lights Secured/Access Doors Locked	[illegible]
F.40	ACT-1 Ventilation Room & System Secured	[illegible]

** NOTE - Record all discrepencies/difficiencies and comments on reverse.

Operator's Name Will Wise
Signature [illegible]

Manager's Name [illegible]
Signature [illegible]

2706-T DAILY SURVEILLANCE LOG (Page 2 of 2)
(COMMENTS & DISCREPENCIES SHEET)

DATE 1-5-94

START OF SHIFT SURVEILLANCE	END OF SHIFT SURVEILLANCE
F.12 Backflow preventer still leaking	
* OPS replaced temporary postings with permanent posts and chain	
* OPS continued O.J.T. for SWD OPS.	

Operator's Name Will Wise

Operator's Signature William A. White

Manager's Name Ben Dingley

Manager's Signature

DESCRIPTION OF CHANGE (page no./step no./change)

Page 36/ Replace F 20 w/ the following

F.20 Sump Level: _____ gal Waste Description: Liquid/Sludge Activity Code: S02
Waste Codes: The waste codes are F001, F002, F003, F004, F005, and D008.

Manual reading 2½" = 1275 gal.
- remote reading 17" = 675 gal

1-5-94
MJ Sc

2706-T DAILY SURVEILLANCE LOG (Page 1 of 2)
T-PLANT FACILITIES

DATE 12-29-93

Step No.	START OF SHIFT SURVEILLANCE (This Section Performed During 1st Hour of Shift)		
F.3	Ventilation Room Equip. Condition	Sat ✓	UNSAT ___
F.4	ACT-1 Annunciator Panel: All alarms activate	YES ✓	NO ___
F.6	Fire Riser Room Status	SAT ✓	UNSAT ___
F.7	Fire Riser Room Heater Operational	YES ✓	NO ___
F.9	Electrical Room	SAT ✓	UNSAT ___
F.11	HVAC Units: #1 SAT ✓ UNSAT ___ #2	SAT ✓	UNSAT ___
	#3 SAT ✓ UNSAT ___ #4	SAT ✓	UNSAT ___
F.12	Backflow Preventer:	SAT ___	UNSAT ✓
F.13	211-T Sump Pump Operational	YES ✓	NO ___
F.15	Building Lights Operational	YES ✓	NO ___
F.16	Process Air Pressure	N/A	PSI
F.17	Process Air Lines: Leaks?	YES ___	NO ✓
	Sanitary Water Lines: Leaks?	YES ___	NO ✓
F.18	Fire Protection Lines: Leaks?	YES ___	NO ✓
F.19	All Annunciator Alarms Actuate:	YES ✓	NO ___
~~F.20~~	~~Sump Level~~	~~_____~~	~~Gal.~~
F.21	Building FCUs #1 SAT ✓ UNSAT ___ #2	SAT ✓	UNSAT ___
	#3 SAT ✓ UNSAT ___ #4	SAT ✓	UNSAT ___
	Building Temperature 67 °F (Range 50 - 80°F)		
	Storage Area Heaters SAT ✓ UNSAT ___		
F.23	8' 6" Clearance for Rail Spur Area	YES ✓	NO ___
F.24	2706-T Yard, LLW Stations, RMW SAA Deficiencies	YES ___	NO ✓
F.25	Flammable/Haz. Storage Bldg.	SAT ✓	UNSAT ___
F.27	Storage Bldg. Interior Condition	SAT ✓	UNSAT ___
F.28	Fans & Lights Operable	YES ✓	NO ___
F.29	Stored Hazardous/Flammable Status	SAT ✓	UNSAT ___

END OF SHIFT SURVEILLANCE (This Section is Performed During Last Hour of Shift)

F.31 Chemical Usage and Storage

Type/Name	Amount Used	Restored (Bldg/Loc.)
	No usage	

		Initials
F.32	Storage Bldg Locked; Vents/Lights Secured	[illegible]
F.34	Decon Process Equipment Secured:	
	ACT-1	[illegible]
	PARTEK Blaster	[illegible]
	SIOUX Cleaner	[illegible]
F.35	Bldg Sump Pumps Secured	[illegible]
F.36	Ending Sump Level 0 Gal.	
F.37	Sanitary Water "End-of-Line" Control Valves OFF/ Hoses Disconnected and Properly Stowed	[illegible]
F.38	Bldg Lights Secured/Access Doors Locked	[illegible]
F.40	ACT-1 Ventilation Room & System Secured	[illegible]

** NOTE - Record all discrepencies/difficiencies and comments on reverse.

Operator's Name D.E. White
Signature D.E. White

Manager's Name S.L. METZGER
Signature [illegible]

2706-T DAILY SURVEILLANCE LOG (Page 2 of 2)
(COMMENTS & DISCREPENCIES SHEET)

DATE 12-27-93

START OF SHIFT SURVEILLANCE	END OF SHIFT SURVEILLANCE
F12 Leaking F13 No1# Locked out No2# working	

Operator's Name DE White

Operator's Signature DE White

Manager's Name S. L. METZGER

Manager's Signature S. L. Metzger

DESCRIPTION OF CHANGE (page no/item no/change)

Page 36/ Replace F20 w/ the following 12-29-93

F.20 Sump Level: 3715 gal Waste Description: Liquid Sludge Activity Code: S02
Waste Codes: The waste codes are F001, F002, F003, F004, F005, and D008.

Morning reading Shipped sump in afternoon

Ending reading 0

Distribution: Same as Page 1

2706-T DAILY SURVEILLANCE LOG (Page 1 of 2)
T-PLANT FACILITIES

DATE 12-27-93

Step No.	START OF SHIFT SURVEILLANCE (This Section Performed During 1st Hour of Shift)		
F.3	Ventilation Room Equip. Condition	Sat ✓	UNSAT ___
F.4	ACT-1 Annunciator Panel: All alarms activate	YES ✓	NO ___
F.6	Fire Riser Room Status	SAT ✓	UNSAT ___
F.7	Fire Riser Room Heater Operational	YES ✓	NO ___
F.9	Electrical Room	SAT ✓	UNSAT ___
F.11	HVAC Units: #1 SAT ✓ UNSAT ___ #2	SAT ✓	UNSAT ___
	#3 SAT ✓ UNSAT ___ #4	SAT ✓	UNSAT ___
F.12	Backflow Preventer:	SAT ___	UNSAT ✓
F.13	211-T Sump Pump Operational	YES ___	NO ✓
F.15	Building Lights Operational	YES ✓	NO ___
F.16	Process Air Pressure	N/A	PSI
F.17	Process Air Lines: Leaks?	YES ___	NO ✓
	Sanitary Water Lines: Leaks?	YES ___	NO ✓
F.18	Fire Protection Lines: Leaks?	YES ___	NO ✓
F.19	All Annunciator Alarms Actuate:	YES ___	NO ✓
F.20	Sump Level	0715	Gal.
F.21	Building FCUs #1 SAT ✓ UNSAT ___ #2	SAT ✓	UNSAT ___
	#3 SAT ✓ UNSAT ___ #4	SAT ✓	UNSAT ___
	Building Temperature 60 °F (Range 50 - 80°F)		
	Storage Area Heaters SAT ✓ UNSAT ___		
F.23	8' 6" Clearance for Rail Spur Area	YES ✓	NO ___
F.24	2706-T Yard, LLW Stations, RMW SAA Deficiencies	YES ___	NO ✓
F.25	Flammable/Haz. Storage Bldg.	SAT ✓	UNSAT ___
F.27	Storage Bldg. Interior Condition	SAT ✓	UNSAT ___
F.28	Fans & Lights Operable	YES ✓	NO ___
F.29	Stored Hazardous/Flammable Status	SAT ✓	UNSAT ___

END OF SHIFT SURVEILLANCE (This Section is Performed During Last Hour of Shift)

F.31 Chemical Usage and Storage

Type/Name	Amount Used	Restored (Bldg/Loc.)

		Initials
F.32	Storage Bldg Locked; Vents/Lights Secured	[illegible]
F.34	Decon Process Equipment Secured:	
	ACT-I	[illegible]
	PARTEK Blaster	N/A
	SIOUX Cleaner	N/A
F.35	Bldg Sump Pumps Secured	[illegible]
F.36	Ending Sump Level 0715 Gal.	
F.37	Sanitary Water "End-of-Line" Control Valves OFF/ Hoses Disconnected and Properly Stowed	[illegible]
F.38	Bldg Lights Secured/Access Doors Locked	[illegible]
F.40	ACT-1 Ventilation Room & System Secured	[illegible]

** NOTE - Record all discrepencies/difficiencies and comments on reverse.

Operator's Name BRADFORD
Signature

Manager's Name [illegible]
Signature

2706-T DAILY SURVEILLANCE LOG (Page 2 of 2)
(COMMENTS & DISCREPENCIES SHEET)

DATE_____

START OF SHIFT SURVEILLANCE	END OF SHIFT SURVEILLANCE
F-12 BACKFLOW PREVENTER LEAKING F-19 ALPHA ALARMS C.C.S.	Maint. Electricians did PM on Annunciator Panels in Vent Pur. & Drain Tny. All Sump level appr 5'9" ACT 1 Vent System started for Electrical PM. AND FOR TRAINING FOR FINE Solid WASTE Tny Depts.

Operator's Name BRAUTORD

Operator's Signature_____

Manager's Name Ken Dougley

Manager's Signature_____

DESCRIPTION OF CHANGE (page no./item no./change)

Page 36/ Replace F20 w/ the following

F.20 Sump Level: 2715 gal Waste Description: Liquid/Sludge Activity Code:
Waste Codes: The waste codes are F001, F002, F003, F004, F005, and D008.

Dimensions: Same as Page 1

2706-T DAILY SURVEILLANCE LOG (Page 1 of 2)
T-PLANT FACILITIES

DATE 12-26-93

START OF SHIFT SURVEILLANCE
(This Section Performed During 1st Hour of Shift)

Step No.			
F.3	Ventilation Room Equip. Condition	Sat ✓	UNSAT
F.4	ACT-1 Annunciator Panel: All alarms activate	YES	NO ✓
F.6	Fire Riser Room Status	SAT ✓	UNSAT
F.7	Fire Riser Room Heater Operational	YES ✓	NO
F.9	Electrical Room	SAT ✓	UNSAT
F.11	HVAC Units: #1 SAT ✓ UNSAT ___ #2	SAT ✓	UNSAT
	#3 SAT ✓ UNSAT ___ #4	SAT ✓	UNSAT
F.12	Backflow Preventer:	SAT ✓	UNSAT
F.13	211-T Sump Pump Operational	YES	NO ✓
F.15	Building Lights Operational	YES ✓	NO
F.16	Process Air Pressure	NA	PSI
F.17	Process Air Lines: Leaks?	YES	NO ✓
	Sanitary Water Lines: Leaks?	YES	NO ✓
F.18	Fire Protection Lines: Leaks?	YES	NO ✓
F.19	All Annunciator Alarms Actuate:	YES	NO ✓
F.20	Sump Level		Gal.
F.21	Building FCUs #1 SAT ✓ UNSAT ___ #2	SAT ✓	UNSAT
	#3 SAT ✓ UNSAT ___ #4	SAT ✓	UNSAT
	Building Temperature 69 °F (Range 50 - 80°F)		
	Storage Area Heaters SAT ✓ UNSAT		
F.23	8' 6" Clearance for Rail Spur Area	YES ✓	NO
F.24	2706-T Yard, LLW Stations, RHW SAA Deficiencies	YES	NO ✓
F.25	Flammable/Haz. Storage Bldg.	SAT ✓	UNSAT
F.27	Storage Bldg. Interior Condition	SAT ✓	UNSAT
F.28	Fans & Lights Operable	YES ✓	NO
F.29	Stored Hazardous/Flammable Status	SAT ✓	UNSAT

See attached sheet

END OF SHIFT SURVEILLANCE
(This Section is Performed During Last Hour of Shift)

F.31 Chemical Usage and Storage

Type/Name	Amount Used	Restored (Bldg/Loc.)
NONE		
NONE		
NONE		
NONE		

		Initials
F.32	Storage Bldg Locked; Vents/Lights Secured	PSB
F.34	Decon Process Equipment Secured:	
	ACT-1	PSB
	PARTEK Blaster	PSB
	SIOUX Cleaner	PSB
F.35	Bldg Sump Pumps Secured	PSB
F.36	Ending Sump Level 2715 Gal.	
F.37	Sanitary Water "End-of-Line" Control Valves OFF/ Hoses Disconnected and Properly Stowed	PSB
F.38	Bldg Lights Secured/Access Doors Locked	PSB
F.40	ACT-1 Ventilation Room & System Secured	PSB

** NOTE - Record all discrepancies/difficiencies and comments on reverse.

Operator's Name Patrick Brummett
Signature Patrick K Brummett

Manager's Name S.L. METZGER
Signature [signature]

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2706-T DAILY SURVEILLANCE LOG (Page 2 of 2)
(COMMENTS & DISCREPENCIES SHEET)

DATE 12-26-93

START OF SHIFT SURVEILLANCE	END OF SHIFT SURVEILLANCE
2711 sump pump tag out of service F19 alp annunciator alarm off	No changes from ~~first~~ starting 12-26-93 of shift reading

Operator's Name Patrick S Brummett

Operator's Signature Patrick S Brummett

Manager's Name S. C. METZGER

Manager's Signature [signature]

F.20 Sump Level: 27/5 gal Waste Description: Liquid/Sludge Activity Code: S02
Waste Codes: The waste codes are F001, F002, ~~F003~~, ~~F004~~, F005; and D008.

2706-T DAILY SURVEILLANCE LOG (Page 1 of 2)
T-PLANT FACILITIES

DATE [illegible]

Step No.	START OF SHIFT SURVEILLANCE (This Section Performed During 1st Hour of Shift)	
F.3	Ventilation Room Equip. Condition	Sat ✓ UNSAT___
F.4	ACT-1 Annunciator Panel: All alarms activate	YES ✓ NO___
F.6	Fire Riser Room Status	SAT ✓ UNSAT___
F.7	Fire Riser Room Heater Operational	YES ✓ NO___
F.9	Electrical Room	SAT ✓ UNSAT___
F.11	HVAC Units: #1 SAT ✓ UNSAT___ #2	SAT ✓ UNSAT___
	#3 SAT ✓ UNSAT___ #4	SAT ✓ UNSAT___
F.12	Backflow Preventer:	SAT ✓ UNSAT___
F.13	211-T Sump Pump Operational	YES___ NO ✓
F.15	Building Lights Operational	YES ✓ NO___
F.16	Process Air Pressure	N/A PSI
F.17	Process Air Lines: Leaks?	YES___ NO ✓
	Sanitary Water Lines: Leaks?	YES___ NO ✓
F.18	Fire Protection Lines: Leaks?	YES___ NO ✓
F.19	All Annunciator Alarms Actuate:	YES ✓ NO___
F.20	Sump Level	2715 [illegible] Gal.
F.21	Building FCUs #1 SAT ✓ UNSAT___ #2	SAT ✓ UNSAT [illegible]
	#3 SAT ✓ UNSAT___ #4	SAT ✓ UNSAT___
	Building Temperature 69 °F (Range 50 - 80°F)	
	Storage Area Heaters SAT ✓ UNSAT___	
F.23	8' 6" Clearance for Rail Spur Area	YES ✓ NO___
F.24	2706-T Yard, LLW Stations, RMW SAA Deficiencies	YES___ NO ✓
F.25	Flammable/Haz. Storage Bldg.	SAT ✓ UNSAT___
F.27	Storage Bldg. Interior Condition	SAT ✓ UNSAT___
F.28	Fans & Lights Operable	YES ✓ NO___
F.29	Stored Hazardous/Flammable Status	SAT ✓ UNSAT___

Step No.	END OF SHIFT SURVEILLANCE (This Section is Performed During Last Hour of Shift)	
F.31	Chemical Usage and Storage	
	Type/Name	Amount Used / Restored (Bldg/Loc.)
	None Used	
		Initials
F.32	Storage Bldg Locked; Vents/Lights Secured	[illegible]
F.34	Decon Process Equipment Secured: ACT-1	[illegible]
	PARTEK Blaster	[illegible]
	SIOUX Cleaner	[illegible]
F.35	Bldg Sump Pumps Secured	[illegible]
F.36	Ending Sump Level 2715 Gal.	
F.37	Sanitary Water "End-of-Line" Control Valves OFF/ Hoses Disconnected and Properly Stowed	[illegible]
F.38	Bldg Lights Secured/Access Doors Locked	[illegible]
F.40	ACT-1 Ventilation Room & System Secured	[illegible]

** NOTE - Record all discrepencies/difficiencies and comments on reverse.

Operator's Name [illegible] / [illegible]
Signature [illegible] / R.J. Justo

Manager's Name S.L. METCALF
Signature [illegible]

2706-T DAILY SURVEILLANCE LOG (Page 2 of 2)
(COMMENTS & DISCREPENCIES SHEET)

DATE [illegible]

START OF SHIFT SURVEILLANCE	END OF SHIFT SURVEILLANCE
* F-13, 211 T SUMP PUMP, TAGED OUT * F-19, ANNUNCIATOR PANEL BOARD OFF	

Operator's Name PHIL PEPP / RICHARDSON

Operator's Signature Phil Pepp / R.J. Justo

Manager's Name S.L. METZGER

Manager's Signature [illegible]

DESCRIPTION OF CHANGE (page number and no change)

Page 36/ Replace F.20 w/ the following

F.20 Sump Level: ~~2715~~ 2715 gal Waste Description: Liquid/Sludge Activity Code: S
Waste Codes: The waste codes are F001, F002, ~~F003~~, ~~F004~~, F005, and D008.

21" INSTRUMENTATION

6 1/2" TAPE READING MANUAL

2706-T DAILY SURVEILLANCE LOG (Page 1 of 2)
T-PLANT FACILITIES

DATE 12-20-93

Step No.	START OF SHIFT SURVEILLANCE (This Section Performed During 1st Hour of Shift)	
F.3	Ventilation Room Equip. Condition	Sat ✓ UNSAT ___
F.4	ACT-1 Annunciator Panel: All alarms activate	YES ✓ NO ___
F.6	Fire Riser Room Status	SAT ✓ UNSAT ___
F.7	Fire Riser Room Heater Operational	YES ✓ NO ___
F.9	Electrical Room	SAT ✓ UNSAT ___
F.11	HVAC Units: #1 SAT ✓ UNSAT ___ #2	SAT ✓ UNSAT ___
	#3 SAT ✓ UNSAT ___ #4	SAT ✓ UNSAT ___
F.12	Backflow Preventer:	SAT ✓ UNSAT ___
F.13	211-T Sump Pump Operational	YES ___ NO ✓
F.15	Building Lights Operational	YES ✓ NO ___
F.16	Process Air Pressure	N/A PSI
F.17	Process Air Lines: Leaks?	YES ___ NO ✓
	Sanitary Water Lines: Leaks?	YES ___ NO ✓
F.18	Fire Protection Lines: Leaks?	YES ___ NO ✓
F.19	All Annunciator Alarms Actuate:	YES ✓ NO ___
~~F.20~~	~~Sump Level~~	~~Gal.~~
F.21	Building FCUs #1 SAT ✓ UNSAT ___ #2	SAT ✓ UNSAT ___
	#3 SAT ✓ UNSAT ___ #4	SAT ✓ UNSAT ___
	Building Temperature 60 °F (Range 50 - 80°F)	
	Storage Area Heaters SAT ✓ UNSAT ___	
F.23	8' 6" Clearance for Rail Spur Area	YES ✓ NO ___
F.24	2706-T Yard, LLW Stations, RMW SAA Deficiencies	YES ___ NO ✓
F.25	Flammable/Haz. Storage Bldg.	SAT ✓ UNSAT ___
F.27	Storage Bldg. Interior Condition	SAT ✓ UNSAT ___
F.28	Fans & Lights Operable	YES ✓ NO ___
F.29	Stored Hazardous/Flammable Status	SAT ✓ UNSAT ___

Step No.	END OF SHIFT SURVEILLANCE (This Section is Performed During Last Hour of Shift)	
F.31	Chemical Usage and Storage	
	Type/Name	Amount Used / Restored (Bldg/Loc.)
		No Use
		Initials
F.32	Storage Bldg Locked; Vents/Lights Secured	[illegible]
F.34	Decon Process Equipment Secured:	
	ACT-1	[illegible]
	PARTEK Blaster	[illegible]
	SIOUX Cleaner	[illegible]
F.35	Bldg Sump Pumps Secured	[illegible]
F.36	Ending Sump Level Some Gal.	
F.37	Sanitary Water "End-of-Line" Control Valves OFF; Hoses Disconnected and Properly Stowed	[illegible]
F.38	Bldg Lights Secured/Access Doors Locked	[illegible]
F.40	ACT-1 Ventilation Room & System Secured	[illegible]

** NOTE - Record all discrepencies/difficiencies and comments on reverse.

Operator's Name [illegible]
Signature [illegible] Start of Shift Surv. 12-20-93

Manager's Name [illegible]
Signature

DO-00153 Page 2 of 2

2706-T DAILY SURVEILLANCE LOG (Page 2 of 2)
(COMMENTS & DISCREPENCIES SHEET)

DATE 12-20-93

START OF SHIFT SURVEILLANCE	END OF SHIFT SURVEILLANCE
F.13 2117 [illegible] Locked/Tagged out.	
	Good Nite!
Ops., HPT relocated ogf. from SCA to RCA	
End of Shift Surveillance turned over to Dwhite	

Operator's Name AE White

Operator's Signature AE White

Manager's Name [illegible]

Manager's Signature [illegible]

PROCEDURE CHANGE AUTHORIZATION	Impact Level 3 S	PCA No. DO-00153	Page 2 of 2

DESCRIPTION OF CHANGE (page no./step no./change)

Page 36/ Replace F 20 w/ the following

F.20 Sump Level: 2715 gal Waste Description: Liquid/Sludge Activity Code: S02
Waste Codes: The waste codes are F001, F002, F003, F004, F005, and D008.

21 inches by gage reading

Distribution: Same as Page 1

A-4400-242 1 (10/88)

2706-T DAILY SURVEILLANCE LOG (Page 1 of 2)
T-PLANT FACILITIES

DATE 12-15-93

Step No.	START OF SHIFT SURVEILLANCE (This Section Performed During 1st Hour of Shift)	
F.3	Ventilation Room Equip. Condition	Sat ✓ UNSAT___
F.4	ACT-1 Annunciator Panel: All alarms activate	~~YES~~ RRE NO ✓
F.6	Fire Riser Room Status	SAT ✓ UNSAT___
F.7	Fire Riser Room Heater Operational	YES ✓ NO___
F.9	Electrical Room	SAT ✓ UNSAT___
F.11	HVAC Units: #1 SAT ✓ UNSAT___ #2	SAT ✓ UNSAT___
	#3 SAT ✓ UNSAT___ #4	SAT ✓ UNSAT___
F.12	Backflow Preventer:	SAT ✓ UNSAT___
F.13	211-T Sump Pump Operational	YES___ NO ✓
F.15	Building Lights Operational	YES ✓ NO___
F.16	Process Air Pressure	N/A PSI
F.17	Process Air Lines: Leaks?	YES___ NO ✓
	Sanitary Water Lines: Leaks?	YES___ NO ✓
F.18	Fire Protection Lines: Leaks?	YES___ NO ✓
F.19	All Annunciator Alarms Actuate:	YES___ NO ✓
~~F.20~~	~~Sump Level~~	~~Gal.~~
F.21	Building FCUs #1 SAT ✓ UNSAT___ #2	SAT ✓ UNSAT___
	#3 SAT ✓ UNSAT___ #4	SAT ✓ UNSAT___
	Building Temperature 61 °F (Range 50 - 80°F)	
	Storage Area Heaters SAT ✓ UNSAT___	
F.23	8' 6" Clearance for Rail Spur Area	YES ✓ NO___
F.24	2706-T Yard, LLW Stations, RMW SAA Deficiencies	YES___ NO ✓
F.25	Flammable/Haz. Storage Bldg.	SAT ✓ UNSAT___
F.27	Storage Bldg. Interior Condition	SAT ✓ UNSAT___
F.28	Fans & Lights Operable	YES ✓ NO___
F.29	Stored Hazardous/Flammable Status	SAT ✓ UNSAT___

Step No.	END OF SHIFT SURVEILLANCE (This Section is Performed During Last Hour of Shift)	
F.31	Chemical Usage and Storage	
	Type/Name	Amount Used / Restored (Bldg/Loc.)
		None used
		Initials
F.32	Storage Bldg Locked; Vents/Lights Secured	RRE
F.34	Decon Process Equipment Secured:	
	ACT-1	RRE
	PARTEK Blaster	RRE
	SIOUX Cleaner	RRE
F.35	Bldg Sump Pumps Secured	RRE
F.36	Ending Sump Level 2715 Gal.	
F.37	Sanitary Water "End-of-Line" Control Valves OFF/ Hoses Disconnected and Properly Stowed	RRE
F.38	Bldg Lights Secured/Access Doors Locked	RRE
F.40	ACT-1 Ventilation Room & System Secured	RRE

** NOTE - Record all discrepencies/difficiencies and comments on reverse.

Operator's Name RREverham
Signature [signature] 12-15-93

Manager's Name [signature]
Signature

Document No.	Rev/Mod	Page
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DO-00153

Page 2 of

2706-T DAILY SURVEILLANCE LOG (Page 2 of 2)
(COMMENTS & DISCREPENCIES SHEET)

DATE 12-15-93

START OF SHIFT SURVEILLANCE	END OF SHIFT SURVEILLANCE
F 13 211T Sump Pump locked/Tagged OOS.	211T Transfer line hydro tested-failed
2706 T Sump Pump #1 & #2 also L/T OOS	Maintenance performed troubleshoot on
1.19 ACT 1 annunciator panel not tested in morning	ACT 1 annunciator panel
1.4 Annunciator panel not tested in morning	
2 Tank Farm Backlog Boxes brought into 706-T one placed in building and 1 staged on concrete pad	

Operator's Name PR Everham

Operator's Signature PR Everham 12-15-93

Manager's Name Bill Dougherty

Manager's Signature

DESCRIPTION OF CHANGE (page no./step no./change)

Page 36/Replace F20 w/ the following

F.20 Sump Level: 2715 gal Waste Description: Liquid/Sludge Activity Code: S02
Waste Codes: The waste codes are F001, F002, F003, F004, F005, and D008.

21 inches by gage reading

2706-T DAILY SURVEILLANCE LOG (Page 1 of 2)
T-PLANT FACILITIES

DATE 12-13-93

Step No.	START OF SHIFT SURVEILLANCE (This Section Performed During 1st Hour of Shift)	
F.3	Ventilation Room Equip. Condition	Sat ✓ UNSAT ___
F.4	ACT-1 Annunciator Panel: All alarms activate	YES ✓ NO ___
F.6	Fire Riser Room Status	SAT ✓ UNSAT ___
F.7	Fire Riser Room Heater Operational	YES ✓ NO ___
F.9	Electrical Room	SAT ✓ UNSAT ___
F.11	HVAC Units: #1 SAT ✓ UNSAT ___ #2	SAT ✓ UNSAT ___
	#3 SAT ✓ UNSAT ___ #4	SAT ✓ UNSAT ___
F.12	Backflow Preventer:	SAT ✓ UNSAT ___
F.13	211-T Sump Pump Operational	YES ___ NO ✓
F.15	Building Lights Operational	YES ✓ NO ___
F.16	Process Air Pressure	N/A PSI
F.17	Process Air Lines: Leaks?	YES ___ NO ✓
	Sanitary Water Lines: Leaks?	YES ___ NO ✓
F.18	Fire Protection Lines: Leaks?	YES ___ NO ✓
F.19	All Annunciator Alarms Actuate:	YES ✓ NO ___
~~F.20~~	~~Sump Level~~	~~___ Gal.~~
F.21	Building FCUs #1 SAT ✓ UNSAT ___ #2	SAT ✓ UNSAT ___
	#3 SAT ✓ UNSAT ___ #4	SAT ✓ UNSAT ___
	Building Temperature 60 °F (Range 50 - 80°F)	
	Storage Area Heaters	SAT ✓ UNSAT ___
F.23	8' 6" Clearance for Rail Spur Area	YES ✓ NO ___
F.24	2706-T Yard, LLW Stations, RMW SAA Deficiencies	YES ___ NO ✓
F.25	Flammable/Haz. Storage Bldg.	SAT ✓ UNSAT ___
F.27	Storage Bldg. Interior Condition	SAT ✓ UNSAT ___
F.28	Fans & Lights Operable	YES ✓ NO ___
F.29	Stored Hazardous/Flammable Status	SAT ✓ UNSAT ___

Step No.	END OF SHIFT SURVEILLANCE (This Section is Performed During Last Hour of Shift)	
F.31	Chemical Usage and Storage	
	Type/Name	Amount Used / Restored (Bldg/Loc.)
		No usage
		Initials
F.32	Storage Bldg Locked; Vents/Lights Secured	[illegible]
F.34	Decon Process Equipment Secured:	
	ACT-1	[illegible]
	PARTEK Blaster	[illegible]
	SIOUX Cleaner	[illegible]
F.35	Bldg Sump Pumps Secured	[illegible]
F.36	Ending Sump Level 2715 Gal.	
F.37	Sanitary Water "End-of-Line" Control Valves OFF	[illegible]
	Hoses Disconnected and Properly Stowed	[illegible]
F.38	Bldg Lights Secured/Access Doors Locked	[illegible]
F.40	ACT-1 Ventilation Room & System Secured	[illegible]

** NOTE - Record all discrepencies/difficiencies and comments on reverse.

Operator's Name A.E. White
Signature [illegible]

Manager's Name Ken Quigley
Signature [illegible]

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2706-T DAILY SURVEILLANCE LOG (Page 2 of 2)
(COMMENTS & DISCREPENCIES SHEET)

DATE 12-13-93

START OF SHIFT SURVEILLANCE	END OF SHIFT SURVEILLANCE
F-13 Locked & Taped	
F-3 WATER ON/FLOOR IN Vent. Room.	

Operator's Name _____ Manager's Name _____

Operator's Signature _____ Manager's Signature _____

PROCEDURE CHANGE AUTHORIZATION | Impact Level 3 S | PCA No. DO-00153 | Page A5

DESCRIPTION OF CHANGE (page no./step no./change)

Page 36/ Replace F 20 with the following

6½ in

F.20 Sump Level: 2715 gal Waste Description: Liquid/Sludge Activity Code: S02
Waste Codes: The waste codes are F001, F002, F003, F004, F005, and D008.

Distribution: Same as Page 1

T PLANT TANK-TO-TANK WASTE TRANSFER DATA/CHECKSHEET (Cont.)

I. TRANSFER LIQUID WASTE FROM 2706-T TO TK 5-7

Step No.			
I.1	2706-T Sump Initial Gallons	2715 gal.	
I.3.a	Tank 5-7 Initial Gallons	1100 gal.	
I.3.b	Volume Available in TK 5-7	5900 gal.	
I.5	Operations Manager's Approval	1300 (Time)	(Initials)
I.7	2706-T Sump Pump Used	#1 #2 (Circle One)	
I.8	Flow to Tank 5-7 Confirmed	RRE (Initials)	
I.8	"Start-of-Transfer" Time	13:23	

I.10.b	2706-T Sump "End-of-Transfer" Gallons	0 gal.
I.10.c	Gallons Sent	2715 gal.
I.11.c	Tank 5-7 "End-of-Transfer" Gallons	4000 gal.
I.11.d	Gallons Received	2900 gal.
..13	"End-of-Transfer" Time	1512

Date 12-29-93

Operator's Name: R R Everham (Print) Operator's Signature R R Everham

Supervisor's Signature: [signature] Date 12/29/93

1. Document Number 2T-93-00747/W *GENERIC WORK ITEM*
   Work Item Title 211-T CHEM TRANSFER LINE VALVE

	Signature	Date	Telephone No.
2. Originator	X LEACH,CA	12/28/93	3-3030

3. WCN Number 06 Non-ADP WCN Number

4. Change Instructions

Page Step/Para Description

ADD TO WCN 05

PAGE 3 STEP 13A

ELECTRICIANS TO POSITION BREAKERS AN SWITCHES FOR PUMPS AS NEEDED TO SUPPORT LIQUID TRANSFER ACTIVITIES.

PAGE 3 STEP 13B

2 CRAFT TO TORQUE NUTS AND BOLTS OF 2" BALL VALVE INSTALLED AT 211-T PIT.

*******QUALITY CONTROL HOLD POINT*******

CRAFT TO TORQUE NUTS AND BOLTS TO 80 FT.LBS WITH A CALIBRATED TORQUE WRENCH.

13 THE COGNIZANT QUALITY CONTROL INSPECTOR WILL VERIFY THAT THE TORQUEING PRESCRIBED MEETS 80 FT. LBS.. ALSO, THE QUALITY CONTROL INSPECTOR WILL VERIFY THAT THE DEVICE USED TO TORQUE IS CALIBRATED.

Q.C TO RECORD TORQUE WRENCH NO. 815-88-01-015

Q.C.TO RECORD CALIBRATION DUE DATE 1-28-94

Q.C. SIGNATURE _____ DATE 12-29-93

**********END OF HOLD POINT**********

5. Reason for Change

VALVE LEAKED WITH 40 FT LB. TORQUE

6. Impact Level of Change/Approval Requirements 3-Q

7. Approval Signatures	Signature	Date
Cognizant Engineer	X BLACKFORD,LT	12/28/93
Cognizant Manager	X BOTTENUS,RJ	12/28/93
Environmental Assurance	N/A	
Health/Safety Assurance	N/A	
Quality Assurance	X POWELL,BR	12/29/93
Operations	X LAUREN,LL	12/28/93
PIC	X JOHNSON,RC	12/28/93
Other		

Signature	Date	Telephone No.

1. **Document Number** 2T-93-00747/W *GENERIC WORK ITEM*
   Work Item Title 211-T CHEM TRANSFER LINE VALVE

==========

8. **Incorporated By** X LEACH,CA 12/29/93 3-3030

==========

1. **Document Number** 2T-93-00747/W *GENERIC WORK ITEM*
   Work Item Title 211-T CHEM TRANSFER LINE VALVE

==========

	Signature	Date	Telephone No.
2. Originator	X LEACH,CA	12/16/93	3-3030

3. **WCN Number** 05 **Non-ADP WCN Number**

4. **Change Instructions**

Page **Step/Para Description**

THESE STEPS ARE TO REPLACE EXISTING STAINLESS FLANGED 150# 2" GATE VALVE WITH STAINLESS FLANGED 150# 2" BALL VALVE, WHICH WILL BE BETTER SUITED FOR REPEATED USE.

1 REPLACMENT BALL VALVE TO BE STAGED AT A SUITABLE LOCATION FOR Q.C. INSPECTION. GREEN TAG TO BE ON HAND FOR INSPECTION SEE ATTACHED B.O.M.

**********Q.C. HOLD POINT**********

COGNIZANT QUALITY CONTROL INSPECTOR WILL VERIFY THAT VALVE IDENTIFIED BELOW IS ACCEPTED AND CORRECT.

ITEM	QTY	NONMENCLATURE/DESCRIPTION	QTY ACCEPTED	QC STAMP& DATE
1	1EA	VALVE 2" S.S. FLANGED #150 BALL TYPE,	1	MB 12-21-93

**********END OF Q.C. HOLD POINT**********

2 CRAFT TO MEASURE, LAYOUT AND FABRICATE 2" GASKETS FROM GARLOCK 3000 MATERIAL PER ATTACHED B.O.M. AT A SUITABLE LOCATION OUTSIDE OF RCA ZONE TO COMPLY WITH ALARA GOALS.

3 CRAFT TO FABRICATE EXTENSION HANDLE TO ADAPT TO USE WITH REPLACMENT BALL VALVE. THIS CAN BE DONE AT ANY TIME AT DISCRETION OF DESIGNATED PIC.

4 PIPING CONNECTION TO BE LOOSEN AT A SUITABLE LOCATION ABOVE GROUND TO ENURE BREAK OF POSSIBLE VACUUM AND TO CREATE NATURAL DRAINAGE OF PIPE TO SUMP.

5 ATMOSPHERIC TESTING WILL BE PERFORMED PER SECTION 6.0 OF ATTACHED WHC-CM-4-40 3.1 PRIOR TO ENTRY INTO PIT AND AT TIME OF VALVE REPLACEMENT.

6 AT THIS TIME, PREPARATIONS FOR WORK TO BE PERFORMED CAN BE MADE. PREPARATIONS MAY INCLUDE, BUT NOT BE LIMITED TO, PROVIDING LIGHTING AND ELECTRICAL

1. Document Number 2T-93-00747/W *GENERIC WORK ITEM*
Work Item Title 211-T CHEM TRANSFER LINE VALVE

POWER (ANY ELECTRICAL POWER WILL BE GFCI PROTECTED), BREATHING AIR LINES, TOOLS, ETC. ALL TOOLS, EQUIPMENT AND MATERIALS TO BE SURVEYED BEFORE REMOVAL FROM DESIGNATED RCA ZONE. IF DECON IS NEEDED, BAG AND REMOVE TO 2706-T FOR APPROPRIATE DECON. DECON AS NEEDED.

7 PLASTIC APRON TO BE INSTALLED WITH BONNET LARGE ENOUGH TO TRAP AND CONTAIN RESIDUAL LIQUID WHEN PIPING IS BREACHED.

8 PIPE CONNECTION TO BE LOOSENED ENOUGH TO BREACH CONTAINMENT FOR HPT SURVEY

**********HPT HOLDPOINT**********

AFTER THE LINE HAS BEEN OPENED, THE LINE HAS BEEN SURVEYED AND FOUND TO BE FREE OF REMOVABLE

CONTAMINATION (~~<220 D/M/<2,200 D/M~~ 150 C/M PER 100SQ.CM.)
HPT SIGNATURE EK DATE 12-21-93

**********END OF HPT HOLD POINT**********

9 AFTER HOLD POINT OF PREVIOUS STEP HAS BEEN SIGNED, CRAFT TO, UNBOLT, AND REMOVE EXISTING 2" STAINLESS VALVE AND GASKETS.

10 CRAFT TO CLEAN FLANGE FACES OF PIPING AND PREPARE PIPE & VALVE ENDS AS NEEDED TO INSTALL REPLACEMENT VALVE.

11 CRAFT TO INSTALL 2" STAINLESS VALVE THAT HAS BEEN ACCEPTED BY Q.C. PER STEP 1. INSTALL FLANGE GASKETS FABRICATED PER STEP 2. UTILIZE EXISTING NUTS AND BOLTS.

12 ENSURE PROPER ALIGNMENT OF FLANGED CONNECTIONS AND TIGHTEN BOLTS/NUTS, USING ROTATION METHOD.

*******QUALITY CONTROL HOLD POINT*******

CRAFT TO TORQUE NUTS AND BOLTS TO 40 FT.LBS WITH A CALIBRATED TORQUE WRENCH.

13 THE COGNIZANT QUALITY CONTROL INSPECTOR WILL VERIFY THAT THE TORQUEING PRESCRIBED MEETS 40 FT. LBS.. ALSO, THE QUALITY CONTROL INSPECTOR WILL VERIFY THAT THE DEVICE USED TO TORQUE IS CALIBRATED.

Q.C TO RECORD TORQUE WRENCH NO. 815-88-01-015

Q.C.TO RECORD CALIBRATION DUE DATE 01-28-94

1. Document Number 2T-93-00747/W *GENERIC WORK ITEM*
   Work Item Title 211-T CHEM TRANSFER LINE VALVE

==========

Q.C. SIGNATURE mb DATE 12-21-93
**********END OF HOLD POINT**********

14 PLACE PAN OR BUCKET BENEATH VALVE TO CATCH ANY POSSIBLE LIQUID LEAK FROM LEAK TESTING. (PLASTIC PAN RCW) WITH ABSORBENT.

* 15 CONNECTIONS TO BE INSPECTED FOR ANY VISIBLE LEAKAGE DURING THE INITIAL OPERATION OF TRANSFER LINE SYSTEM. Q.C. TO BE CONTACTED TO BE PRESENT WHEN TRANSFER TAKES PLACE.

**********Q.C. HOLD POINT**********
THE COGNIZANT QUALITY CONTROL INSPECTOR WILL PERFORM A VISUAL INSPECTION OF THE VALVE CONNECTIONS TO VERIFY THAT THE FOLLOWING VALVES ARE LEAK FREE.

VALVES
(1) P-LWD-06-001 (LOCATED IN PIPE GALLERY)
(2) T-PS-211T-006 (LOCATED AT 211T)
(3) T-PS-211T-003 (LOCATED AT 211T)

Q.C. SIGNATURE _____ DATE 12-29-93
********** END OF Q.C. HOLD POINT**********

16 AFTER PIPING SYSTEM HAS BEEN FOUND ACCEPTABLE FOR USE, REMOVE PAN/BUCKET.

17 CRAFT TO RIG SLEEVE AND EXTENSION HANDLE. CONNECT VALVE EXTENSION HANDLE TO VALVE STEM.

18 MATERIALS/EQUIPMENT/TOOLS ARE TO BE SURVEYED AND RELEASED PRIOR TO REMOVAL FROM RCA/SCA ZONES SEE ATTACHED EC STATEMENT FOR CLARIFICATION ON REMOVAL OF VALVE.

19 DOCUMENT WORK PERFORMED ON ATTACHED J-5. POST JOB MEETING HELD AND DOCUMENTED ON ATTACHED POST JOB MEETING SHEET.

********** QC HOLD POINT **********
THE COGNIZANT QUALITY CONTROL INSPECTOR WILL PERFORM A RECORD REVIEW OF THIS WORK PACKAGE FOR COMPLETENESS.

QUALITY CONTROL _____ DATE 12-29-93

********** END OF QC HOLD POINT **********

5. Reason for Change
   REPLACE GATE WITH BALL VALVE

1. Document Number 2T-93-00747/W *GENERIC WORK ITEM*
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6. Impact Level of Change/Approval Requirements 3-Q

7. Approval Signatures		Signature	Date
Cognizant Engineer	X	ANDERSON,SP	12/17/93
Cognizant Manager	X	BELCHER,JT	12/20/93
Environmental Assurance		N/A	
Health/Safety Assurance		N/A	
Quality Assurance	X	POWELL,BR	12/21/93
Operations	X	LAUREN,LL	12/17/93
PIC	X	JOHNSON,RC	12/20/93
Other			

		Signature	Date	Telephone No.
8. Incorporated By	X	LEACH,CA	12/21/93	3-3030

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1. Document Number 2T-93-00747/W *GENERIC WORK ITEM*
   Work Item Title 211-T CHEM TRANSFER LINE VALVE

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	Signature	Date	Telephone No.
2. Originator	X LEACH,CA	12/13/93	3-3030

3. WCN Number 04 Non-ADP WCN Number

4. Change Instructions

Page	Step/Para Description
ADD TO J-4A	ADD TO STEP 7.13B

STEPS FOR FABRICATION OF EXTENSION VALVE HANDLE
CRAFT TO PERFORM WELDING PER ATTACHED WELD PROCEDURE WHC-W-SD-MA-SPP-001 REV 2-C. WELDING AND FABRICATION TO BE AT CRAFT DISCRETION. CRAFT TO DRAW AND ATTACH SKETCH OF HANDLE, SHOWING HANDLE CONFIGURATION LOCATION OF WELDING PERFORMED.

5. Reason for Change
   TO CLARIFY WELDING TO BE PERFORMED

6. Impact Level of Change/Approval Requirements 4-

7. Approval Signatures

	Signature	Date
Cognizant Engineer	X BLACKFORD,LT	12/13/93
Cognizant Manager	X AYERS,WS	12/13/93
Environmental Assurance	N/A	
Health/Safety Assurance	N/A	
Quality Assurance	N/A	
Operations	[signature]	12/13/93
PIC	X LEACH,CA	12/13/93
Other		

	Signature	Date	Telephone No.
8. Incorporated By	X LEACH,CA	12/13/93	3-3030

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1. Document Number 2T-93-00747/W *GENERIC WORK ITEM*
   Work Item Title 211-T CHEM TRANSFER LINE VALVE

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	Signature	Date	Telephone No.
2. Originator	X LEACH,CA	12/09/93	3-3030

3. WCN Number 03 Non-ADP WCN Number

4. Change Instructions

Page	Step/Para	Description
ADD TO J-4A		
	7.13A	SLEEVE WAS UNABLE TO BE MOVED DURING EXCAVATION SINCE IT IS CONNECTED TO VALVE STEM. CRAFT TO RIG SLEEVE TO A POSITION TO ACCESS CONNECTION. CRAFT WILL CUT FORKS ATTACHING EXTENSION HANDLE TO VALVE STEM. SLEEVE AND HANDLE WILL BE SET ASIDE IN PIT.
	7.13B	CRAFT TO MEASURE FOR, LAYOUT AND FABRICATE EXTENSION HANDLE OF ADEQUATE LENGTH FOR EXISTING SLEEVE. EXTENSION HANDLE TO BE MADE TO CONNECT TO STEM OF REPLACEMENT VALVE, UTILIZING MATERIAL FROM STOCK. CRAFT TO MEASURE FACE TO FACE DISTANCE OF VALVE TO BE REPLACED AND COMPARE WITH FACE TO FACE DIMENSION OF REPLACEMENT VALVE. IF DIFFERANCE MORE THAN 1/8", NOTIFY ENGINEERING.
	7.13C	ENSURE VALVE P-LW-D-06-001 AT PIPE GALLERY LOCATION AND VALVE T-PS-211T-003 AT 211-T ARE IN OPEN POSITION.REMOVE FILL PORT CAP FOR VENTING PURPOSES. SEE ATTTACHED SKETCH FOR CLARIFICATION FOR THESE STEPS. NOTE: ENSURE THAT THESE COMPONENTS ARE RETURNED TO PROPER CONFIGURATION BEFORE HYDRO-TESTING BEGINS
	7.13D	VALVE WILL HAVE PLASTIC APRON INSTALLED TO CATCH RESIDUAL LIQUID WHEN VALVE CONNECTION IS BREACHED. INSTALL PLASTIC IN A MANNER THAT WILL PROTECT PERSONNEL AT WORK LOCATION FROM ANY POSSIBLE CONTACT OF LIQUID. INSTALL APRON IN A MANNER THAT WILL ALLOW THE BONNET OF THE APRON TO CONTAIN AS MUCH LIQUID AS POSSIBLE (AT LEAST SEVERAL GALLONS).
	7.13E	ALL PERSONNEL WORKING IN THE PIT WILL WEAR PLASTIC SUIT PROTECTION FOR THE FOLLOWING STEP STEPS
	7.14B	CONTAIN ANY DRAINAGE IN PLASTIC APRON. IF

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DRAINAGE BECOMES EXCESSIVE, CONTROL AND REMOVAL OF DRAINAGE WILL BE PER DIRECTION OF P.I.C., AIR MONITORING PERSON AND HPT. A PLASTIC APRON WILL REMAIN AT VALVE LOCATION UNTIL HYDRO-TESTING HAS BEEN COMPLETED

ADD TO STEP 7.18

*******QUALITY CONTROL HOLD POINT*******

CRAFT TO TORQUE NUTS AND BOLTS TO 40 FT.LBS WITH A CALIBRATED TORQUE WRENCH.

1. THE COGNIZANT QUALITY CONTROL INSPECTOR WILL VERIFY THAT THE TORQUING PRESCRIBED MEETS 40 FT. LBS.. ALSO, THE QUALITY CONTROL INSPECTOR WILL VERIFY THAT THE DEVICE USED TO TORQUE IS CALIBRATED.

Q.C TO RECORD TORQUE WRENCH NO. 815-88-01-015

Q.C.TO RECORD CALIBRATION DUE DATE 01-28-94

Q.C. SIGNATURE WB (WHC 123 Q.A/C) DATE 12-13-93

**********END OF HOLD POINT**********

ADD TO STEP 7.21

AFTER PLASTIC WRAP IS REMOVED, RIG SLEEVE IN A POSITION TO CONNECT EXTENSION HANDLE TO VALVE. CONNECT HANDLE AND SET SLEEVE IN POSITION.

CHANGE TO STEP 7.25

CHANGE LAST SENTENCE TO READ " SUPPORT SLEEVE AS NEEDED TO KEEP IT CENTERED AND PLUMBED WHILE HOLE IS BEING FILLED. TAKE CARE TO KEEP SLEEVE PROPERLY POSITIONED WHILE HOLE IS BEING FILLED.

5. Reason for Change

STEPS TO REMOVE SLEEVE; ADDITIONAL PRE-CAUTIONARY STEPS BEFORE BREACHING PIPE SYSTEM.

6. Impact Level of Change/Approval Requirements -

7. Approval Signatures

		Signature	Date
Cognizant Engineer	X	BLACKFORD,LT	12/10/93
Cognizant Manager	X	BOTTENUS,RJ	12/10/93
Environmental Assurance		N/A	
Health/Safety Assurance		N/A	
Quality Assurance		B.R. BOWELL PER TEL COMM ~~C.A.C~~	12.10.93 11:17 AM.
Operations			12/10/93
PIC	X	LEACH,EA	12/10/93
HP			12/10/93

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Other _____ _____

	Signature	Date	Telephone No.
8. Incorporated By	X LEACH,CA	12/10/93	3-3030

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==========J-7 WORK CHANGE NOTICE - Detail (W175)==========

Page: 1 10:43:38 30 NOV 1993

1. Document Number 2T-93-00747/W *GENERIC WORK ITEM*
   Work Item Title 211-T CHEM TRANSFER LINE VALVE

	Signature	Date	Telephone No.
2. Originator	X EMERICK,SK	11/30/93	373-4227

3. WCN Number 02 Non-ADP WCN Number

4. Change Instructions

CHL 12-1-93

Air Mon. Tony 12-1-93

Page	Step/Para	Description
THIS SUPERSEDES J-7 01		
3	6.2	REPLACE SAMPLE TECHNICIAN WITH ~~HP~~ TECHNICIAN
6	7.14	ELIMATE <220 D/M/<2200 D/M PER 100SQ. CM PER HP REQUEST.
7	7.22	ELIMATE <220 D/M/<2200 D/M CM SQ. PER HP REQUEST

5. Reason for Change
   RECLARIFICATION FROM HP REPRESENTATIVE.

6. Impact Level of Change/Approval Requirements 4-

7. Approval Signatures	Signature	Date
Cognizant Engineer	X ANDERSON,SP	11/30/93
Cognizant Manager	X BOTTENUS,RJ	11/30/93
Environmental Assurance	N/A	
~~Health/Safety Assurance~~ HPT	[signature]	11/30/93
Quality Assurance	N/A	
Operations	X LAUREN,L	11/30/93
PIC	X QUIGLEY,K	11/30/93
Other	N/A	

	Signature	Date	Telephone No.
8. Incorporated By	[signature]	11/30/93	373-4227

==========J-7 WORK CHANGE NOTICE - Detail (W175)==========

==========J-7 WORK CHANGE NOTICE - Detail (W175)==========

1. Document Number 2T-93-00747/W *GENERIC WORK ITEM*
   Work Item Title 211-T CHEM TRANSFER LINE VALVE

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	Signature	Date	Telephone No.
2. Originator	X EMERICK,SK	11/30/93	373-4227

3. WCN Number 01 Non-ADP WCN Number N/A

4. Change Instructions

Page	Step/Para	Description
3	6.2	REPLACE SAMPLE TECHNICIANS WITH HP TECHNICIANS
6	7.14	ELIMATE <1200 DP PER HP INSTRUCTION
7	7.22	ELIMATE <1200 DM PER HP INSTRUCTION

5. Reason for Change
   HP REQUESTED CHANGES TO CLARIFY WORK INSTRUCTIONS

6. Impact Level of Change/Approval Requirements 4-

7. Approval Signatures

		Signature	Date
Cognizant Engineer	X	ANDERSON,SP	11/30/93
Cognizant Manager	X	BOTTENUS,RJ	11/30/93
Environmental Assurance		N/A	
Health/Safety Assurance		N/A	
Quality Assurance		N/A	
Operations	X	LAUREN,L	11/30/93
PIC	X	QUIGLEY,K	11/30/93
Other	HPT	[illegible] (HPT)	11/30/93

	Signature	Date	Telephone No.
8. *Incorporated By*			

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T-PS-211-T-00

Supersedes WCN 02

==========J-7 WORK CHANGE NOTICE - Detail (W175)==========

1. **Document Number** 2T-93-00747/W *GENERIC WORK ITEM*
   Work Item Title 211-T CHEM TRANSFER LINE VALVE

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3. **Resolution**

1.0 Purpose
TO PERFORM REPAIRS, INCLUDING REPLACEMENT OF 2" ISOLATION VALVE OF CHEMICAL TRANSFER LINE AT 211-T

2.0 References
WHC-CM-1-3 WHC Management Requirements and Procedures
WHC-CM-1-6 WHC Radiological Control Manual
WHC-CM-4-3 WHC Industrial Safety Manual
~~WHC-CM-4-40 SECT 3.1 CONFINED SPACE ENTRY~~ N/A CAL 12-1-93
ASME B31.1 Pressure Piping Code
DRWG H-2-31750 PIPING MATERIAL CODE
CM-4-3 - CM-8 EXCAVATION TRENCHING + SHORING CAC 12-1-93

3.0 PRECAUTIONS AND LIMITATIONS

3.1 INFORM OPERATIONS MANAGEMENT AND MAINTENANCE MANAGEMENT IMMEDIATELY IF PROBLEMS ARE ENCOUNTERED WITH THESE WORK STEPS.

3.2 IF WORK CANNOT BE PERFORMED AS WRITTEN, STOP WORK. RETURN EQUIPMENT TO SAFE CONFIGURATION AND INFORM MAINTENANCE SUPERVISOR THAT WORK STEPS CANNOT BE PERFORMED AS WRITTEN. INITIATE A CHANGE AS REQUIRED.

3.3 THIS PLAN TAKES INTO ACCOUNT QUALIFICATIONS OF CRAFT AND ASSIGNED PIC AND THEREFORE MAY NOT LIST ALL WORK STEPS TO ACCOMPLISH THE TASK. THE PIC IS DESIGNATED AS THE PERSON IN CHARGE TO INSURE THAT THE CRAFT PERFORMS ALL FACETS OF THE TASK SAFELY AND COMPLETES THE JOB EXPEDITIOUSLY TO MEET THE PURPOSE OF THIS PLAN. NO ADDITIONAL WORK MAY BE ACCOMPLISHED OUTSIDE OF THE PURPOSE LISTED BOVE WITHOUT FORMAL MODIFICATIONS TO THIS PLAN

3.4 VERIFY THAT ALL LOCK AND TAG OR OVER-TAGGING REQUIREMENTS HAVE BEEN SATISFIED.

3.5 ACCESS TRENCH TO BE DUG AND PREPARED FOR WORK TO BE PERFORMED PER ATTACHED EXCAVATION PERMIT AND STANDARD CM-8 (ATTACHED) OF WHC-CM-4-3.

3.6 HPT/OPERATIONS SUPPORT TO BE UTILIZED FOR ALL WORK TO BE PERFORMED.

3.7 GOOD HOUSEKEEPING PRACTICES WILL BE UTILIZED AT ALL TIMES FOR WORK TO BE PERFORMED. COMPLY WITH WESTINGHOUSE HANFORD, WASHINGTON DEPARTMENT OF ECOLOGY AND DEPARTMENT OF ENERGY ENVIRONMENTAL STANDARDS, AS APPLICABLE WHEN DISPOSING OF ANY WASTE GENERATED BY THESE STEPS. COMPLY WITH ENVIRONMENTAL CONTROL ASSESSMENT SECTION OF THIS PROCEDURE FOR WASTES INDICATED. IF OTHER TYPES OF WASTES ARE GENERATED,

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THE T PLANT ENVIRONMENTAL CONTROL GROUP IS TO BE CONTACTED FOR APPROPRIATE INSTRUCTIONS.

3.8 ENSURE THAT WORK PACKAGE, INCLUDING ALL ATTACHMENTS, ARE READ AND UNDERSTOOD BEFORE BEGINNING WORK STEPS. Ensure that all HOLD POINTS have been appropriately SIGNED BEFORE CONTINUING TO NEXT STEP. CHECK FOR POSSIBLE HOLD POINTS ON INSPECTION PLAN (IF Inspection Plan is used). READ AND UNDERSTAND ATTACHED RWP.

4.0 SPECIAL TOOLS AND EQUIPMENT

BACKHOE OR SIMULAR MECH. DIGGING EQUIPMNET

5.0 WASTE MINIMIZATION AND ENVIRONMENTAL CONTROL ASSESSMENT
THE FOLLOWING SUBSTANCES ARE ANTICIPATED TO BE USED TO COMPLETE THIS MAINTENANCE.

CHEMICAL OR PRODUCT NAME	MSDS	INTENDED USE

SEE ATTACHED ENVIORNMENTAL CONTROL ASSESSMENT FORM

THE FOLLOWING WASTE STREAMS ARE ANTICIPATED TO BE GENERATED IN COMPLETION OF THIS WORK. (NUMBER AND IDENTIFY THE CONTAMINANTS FOR EACH ITEM.)

SEE ATTACHED EC FORM

THE FOLLOWING WASTE MINIMIZATION TECHNIQUES WILL BE ADDRESSED.

SEE ATTACHED EC FORM

SPECIAL INSTRUCTIONS

SEE ATTACHED EC FORM

IDENTIFIED WASTE STREAMS	PIN

SEE ATTACHED EC FORM

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6.0 PREREQUISITES

6.1 PRE-JOB MEETING WILL BE HELD AND ATTENDED BY ALL PERSONNEL INVOLVED IN WORK STEPS. THIS MEETING WILL BE DOCUMENTED ON PRE-JOB FORM AND ATTENDANCE SHEET. PRE JOB TO BE DONE ON DAILY BASIS.

6.2 AIR SAMPLING TO BE PERFORMED DURING DIGGING. AIR SAMPLES TO BE TAKEN AT ONE FOOT INTERVALS OR AT ~~SAMPLE TECHNICIANS~~ ~~HP~~ DISCRETION

WCN 08 11/30/93 SAE

6.3 EXACATION WILL BE 1:2 SLOPE AS SHOWN ON ATTACHED SKETCH. THIS SLOPE IS DESIGNED TO PROVIDE ADEQUATE MEANS OF ENTRY AND EGRESS.

6.4 AN HPT SHALL PERFORM SURVEY AT REGULAR INTERVALS TO SAMPLE SOIL WHILE EXCAVATION IS BEING PERFORMED.

6.5 HPT TO PERFORM SURVEY OF PIPING AND PIPING COMPONENTS BEFORE PIPE WORK IS BEGUN

6.6 HPT TO PERFORM SURVEY WHEN PIPE CONTAINMENT IS BREACHED BEFORE WORK CONTINUES.

6.7 HAVE ALL REQUIRED TOOLS AND MATERIALS ON HAND BEFORE ENTERING PIT FOR WORK TO BE PERFORMED. HAVE FAN BLOWER ON HAND, IN EVENT THAT IT IS NEEDED DURING WORK STEPS.

CAPT SEASWIT FIREHOUSE 200 373 2745

7.0 WORK INSTRUCTIONS

~~7.1 SIGN TO BE FABRICATED AND POSTED THAT SAYS;~~
~~" DANGER - CONFINED SPACE~~
~~CONFINED SPACE PERMIT REQUIRED FOR ENTRY"~~
~~SEE ATTACHED WHC-CM-4-40 3.1 PARA 3.5 FOR MORE INFO~~

N/A CAL 12-1-93

7.2 ALL IMPACT LEVEL 3 MATERIAL TO BE GATHERED AND STAGED AT A FOR Q.C. INSPECTION. GREEN TAGS TO BE AFFIXED TO THEIR RESPECTIVE COMPONENTS.

**********Q.C. HOLD POINT**********

AT THE POINT OF INSTALLATION THE COGNIZANT QUALITY CONTROL INSPECTOR WILL VERIFY THAT ALL MATERIAL IDENTIFIED BELOW ARE ACCEPTED AND CORRECT.

ITEM	QTY	NONMENCLATURE/DESCRIPTION	QTY ACCEPTED	QC STAMP& DATE
1	1EA	VALVE 2" S.S. FLANGED #150 BOLT BONNET TEFLON PACKING AND GASKET RISING STEMM OS-Y TYPE 304 OR 316	1	WHC 123 MB 12-9-93

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2	8EA	BOLTS 5/8" X 4" LONG ALLOY STEEL HEAVY HEX ASTM A193 GR B7	8	WB 12-9-93
3	16EA	NUTS 5/8" HEAVY HEX ASTM A194 GR 4 OR 7	16	WB 12-9-93

**********END OF Q.C. HOLD POINT**********

7.3 CRAFT TO MEASURE, LAYOUT AND FABRICATE 2" GASKETS FROM GARLOCK 3000 MATERIAL PER ATTACHED B.O.M. AT A SUITABLE LOCATION OUTSIDE OF RCA ZONE TO COMPLY WITH ALARA GOALS.

7.4 VERIFY COMPONENTS TO BE ISOLATED FOR LOCK & TAG PURPOSES TO ENSURE ZERO ENERGY STATUS. DOCUMENT INFORMATION ON ATTACHED J-5. BE SPECIFIC.

7.5A CRAFT TO ENSURE ZERO ENERGY STATUS AT 211-T PUMP. DESIGNATED LOCK AND TAG CUSTODIAN TO APPLY LOCK AND TAG AT 211-T PUMP.
**********LOCK & TAG HOLD POINT**********
DESIGNATED LOCK & TAG CUSTODIAN TO CONCUR THAT LOCK & TAG IS IN PLACE.
CUSTODIAN SIGNATURE J. A. Watson DATE 12-3-93
**********END OF LOCK & TAG HOLD POINT**********

7.5B CRAFT TO ENSURE ZERO ENERGY STATUS AT ~~271-T CONDENSATE~~ 2706-T SUMP PUMP

DESIGNATED LOCK AND TAG CUSTODIAN TO APPLY LOCK AND TAG AT 2706-T SUMP PUMP #1.
**********LOCK & TAG HOLD POINT**********
DESIGNATED LOCK & TAG CUSTODIAN TO CONCUR THAT LOCK & TAG IS IN PLACE.
CUSTODIAN SIGNATURE N/A J. A. Watson DATE 12-6-93 UNIT REMOVED FROM SERVICE
**********END OF LOCK & TAG HOLD POINT**********

7.5C CRAFT TO ENSURE ZERO ENERGY STATUS AT ~~271-T CONDENSATE~~ 2706-T SUMP PUMP

DESIGNATED LOCK AND TAG CUSTODIAN TO APPLY LOCK AND TAG AT 2706-T SUMP PUMP #2.
**********LOCK & TAG HOLD POINT**********
DESIGNATED LOCK & TAG CUSTODIAN TO CONCUR THAT LOCK & TAG IS IN PLACE.
CUSTODIAN SIGNATURE J. A. Watson DATE 12-7-93

1. **Document Number** 2T-93-00747/W *GENERIC WORK ITEM*
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**********END OF LOCK & TAG HOLD POINT**********

7.6 CRAFT TO TURN VALVE HANDLE OF 2" VLAVE TO BE REPLACED TO OPEN POSITION.

7.7 PIPING CONNECTION TO BE LOOSEN AT A SUITABLE LOCATION ABOVE GROUND TO ENURE BREAK OF POSSIBLE VACUUM AND TO CREATE NATURAL DRAINAGE OF PIPE TO SUMP.

7.8 AREA OF EXCAVATION WORK TO BE BARRICADED TO PREVENT UNAUTHORIZED PERSONNEL FROM ENTERING WHERE EQUIPMENT MIGHT BE MOVING AND WHERE TRIPPING AND FALLING HAZARDS MAY EXIST.

7.9 ATMOPHERIC TESTING IS TO BE PERFORMED FOR OXYGEBN, LEL , CARBON MONOXIDE AND ORGANIC VAPORS AT INTERMITANT LEVELS OF EXCAVATION. ANY APPROPRIATE CONTROLS RECOMMENDED BY SAFETY WILL BE IMPLEMENTED(I.E. SUCTION VENTILATOR) BY CRAFT DESIGNATED BY PIC. IF LEVELS ARE FOUND TO BE ABNORMAL, CONTACT INDUSTRIAL HYGIENE OR SAFETY ENGINEER FOR APPROPRIATE ACTIONS TO BE TAKEN.

7.10 RADIOLOGICAL SURVEY WILL BE PERFORMED AT ALL TIMES DIGGING IS BEING PERFORMED. SOIL FOUND TO BE CONTAMINATED WILL BE HANDLED AS WASTE PER DIRECTION OF ENVIORNMENTAL CONTROL. (EC DIRECTION WILL BE ADDRESSED ON ENVIORNMENTAL CONTROL ASSESSMENT FORM WHICH WILL INCLUDE P.I.N. LABELED CONTAINERS, IF CONTAMINATION IS FOUND.)

7.11 EXCAVATION TO BE PERFORMED TO DIG ACCESS WORKING PIT AS NEEDED TO PERFORM REPLACEMENT OF VALVE AT LOCATION PER ATTACHED EXCAVATION PERMIT. EXCAVATION TO BE PERFORMED PER ATTACHED SKETCH. ASPHALT AND DIRT TO BE REMOVED AS NEEDED TO FORM PROPER ACCESS FOR WORK TO BE PERFORMED. TAKE CARE NOT TO UNDERMINE EXISTING STEAM LINE SUPPORT. IF POSSIBILITY OF UNDERMINING SUPPORT IS APPARENT, ENGINEERING IS TO BE CONTACTED FOR RESOLUTION BEFORE DIGGING CAN COMMENCE. AS DIGGING IS BEING PERFORMED, PIPE SLEEVE FOR EXTENSION HANDLE IS TO BE CAREFULLY REMOVED AND SET ASIDE AT SUITABLE LOCATION FOR RE-INSTALLATION.

**********SAFETY HOLD POINT**********
EXCAVATION HAS BEEN FOUND TO HAVE ACCEPTABLE SLOPE OR SHORING TO PROCEED TO STEP 7.6
INDUSTRIAL HEALTH & SAFETY SIGN. [illegible] DATE 12/8/93
**********END OF HOLD POINT**********

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7.12 ATMOPHERIC TESTING WILL BE PERFORMED PER SECTION 6.0 OF ATTACHED WHC-CM-4-40 3.1 AT TIME OF VALVE REPLACEMENT. ANY APPROPRIATE CONTROLS RECOMMENDED BY SAFETY WILL BE IMPLEMENTED (I.E. SUCTION VENTILATOR) BY APPROPRIATE CRAFT BEFORE ANY ENTRY IS MADE.

7.13 AT THIS TIME, PREPERATIONS FOR WORK TO BE PERFORMED CAN BE MADE. PREPERATIONS MAY INCLUDE BUT NOT BE LIMITED TO PROVIDING LIGHTING AND ELECTRICAL POWER (ANY ELECTRICAL POWER WILL BE GFCI PROTECTED), BREATHING AIR LINES, TOOLS, ETC. ALL TOOLS, EQUIPMENT AND MATERIALS TO BE SURVEYED BEFORE REMOVAL FROM DESIGNATED RCA ZONE. IF DECON IS NEEDED, BAG AND REMOVE TO 2706-T FOR APPROPRIATE DECON. DECON AS NEEDED.

SEE WCN03 CAL 12-09-93

7.14 PIPE CONNECTION TO BE LOOSENED ENOUGH TO BREACH CONTAINMENT FOR HPT SURVEY
**********HPT HOLDPOINT**********
AFTER THE LINE HAS BEEN OPENED, THE LINE HAS BEEN SURVEYED AND FOUND TO BE FREE OF REMOVABLE
CONTAMINATION (~~<220 D/M/<2,200 D/M PER 100SQ.CM.~~ <2,200) WCN02 11/30/93 SLE
HPT SIGNATURE R.A. Hdonlie DATE 12-12-93
**********END OF HPT HOLD POINT**********

7.15 AFTER HOLD POINT OF PREVIOUS STEP HAS BEEN SIGNED, CRAFT TO REMOVE ANY PIPE COATING, UNBOLT, AND REMOVE EXISTING 2" STAINLESS VALVE. EXISTING GASKETS ARE TO BE HANDLED AS SUSPECTED ASBESTOS GASKET MATERIAL PER ATTACHED 7-GN-091. DISPOSE OF PER ATTACHED EC ASSESSMENT FORM.

7.16 CRAFT TO CLEAN FLANGE FACES OF PIPING AND PREPARE PIPE & VALVE ENDS AS NEEDED TO INSTALL REPLACEMENT VALVE.

7.17 CRAFT TO INSTALL 2" STAINLESS VALVE AND BOLTS/NUTS THAT HAVE BEEN ACCEPTED BY Q.C. PER STEP 7.2. INSTALL FLANGE GASKETS FABRICATED PER STEP 7.3.

SEE WCN03 12-09-93 CAL

7.18 ENSURE PROPER ALIGNMENT OF FLANGED CONNECTIONS AND TIGHTEN BOLTS/NUTS, USING ROTATION METHOD.

7.19 AFTER CONNECTIONS HAVE BEEN MADE, PLASTIC WRAP INSTALLED VALVE.

7.20 LEAK CHECK PER WORK PACKAGE 2T-93-0825 TO BE PERFORMED.

7.21 AFTER PIPING SYSTEM HAS BEEN FOUND ACCEPTABLE FOR USE,

1. **Document Number** 2T-93-00747/W *GENERIC WORK ITEM*
   Work Item Title 211-T CHEM TRANSFER LINE VALVE

==========

REMOVE PLASTIC WRAP.

7.22 MATERIALS/EQUIPMENT/TOOLS ARE TO BE SURVEYED PRIOR TO REMOVAL FROM RCA ZONE. OPERATIONS TO PERFORM APPROPRIATE DECON ACTIVITIES AT 2706-T (AFTER BAGGING), IF REQUIRED.
**********HPT HOLD POINT**********
THE EQUIPMENT/TOOLS/MATERIALS HAVE BEEN SURVEYED AND FOUND TO BE FREE OF REMOVABLE CONTAMINATION
Surveyed Tools only
R. H. Holcombe
~~(<220 D/M/< 2,220 D/M PER 100 CM SQ.).~~
Survey of old Valve
HPT SIGNATURE R. H. Holcombe DATE 12-13-93 ← WCN 02 11/30/93 SLE
**********END OF HPT HOLDPOINT**********

7.23 REMOVE ALL ITEMS TO APPROPRIATE LOCATIONS AS DETERMINED BY RESULTS OF SURVEY/DECON AND DIRECTION OF HPT/OPERATIONS.

7.24 REMOVE SHORING PER ATTACHED CM-8 OF CM 4-3.

7.25 HOLE TO BE FILLED WITH CONTAMINATION-FREE FILL AND COMPACTED AS NEEDED TO RESTORE AREA TO ORIGINAL CONFIGUATION. RESET PIPE SLEEVE AS HOLE IS BEING FILLED.

7.26 IF ASPHALT WAS REMOVED, 7.32 REPLACE ASPHALT AS NEEDED TO RESTORE AREA TO ORIGINAL CONFIGURATION OR CONFIGURATION DETERMINED BY OPERATIONS SUPERVISOR MANAGER

7.27 REMOVE BARRIERS

8.0 RESTORATION

Inform Operations management and Maintenance management that maintenance is complete.

LOCK & TAGS TO BE REMOVED BY DESIGNATED LOCK & TAG CUSTODIAN
**********LOCK & TAG HOLDPOINT**********
DESIGNATED LOCK & TAG CUSTODIAN TO CONCUR THAT LOCK & TAG HAS BEEN REMOVED FROM 211-T PUMP
CUSTODIAN SIGNATURE [illegible] DATE 12-28-93
**********END OF LOCK & TAG HOLDPOINT**********

**********LOCK & TAG HOLDPOINT**********
DESIGNATED LOCK & TAG CUSTODIAN TO CONCUR THAT LOCK & TAG HAS BEEN REMOVED FROM 2706-T SUMP PUMP #1
CUSTODIAN SIGNATURE [illegible] DATE 12-28-93
**********END OF LOCK & TAG HOLDPOINT**********

1. **Document Number** 2T-93-00747/W *GENERIC WORK ITEM*
   Work Item Title 211-T CHEM TRANSFER LINE VALVE

==========

**********LOCK & TAG HOLDPOINT**********
DESIGNATED LOCK & TAG CUSTODIAN TO CONCUR THAT LOCK & TAG HAS BEEN REMOVED FROM 2706-T SUMP PUMP #2.
CUSTODIAN SIGNATURE [illegible] DATE 12-28-93
**********END OF LOCK & TAG HOLDPOINT**********

10.0 DISPOSITION
10.1 Record as found/as left conditions and work performed on Craft Usage Log J-5.
10.2 Record deficiencies or cause of early failure on Craft Usage Log J-5 and inform Maintenance Manager of findings.
10.3 Post-Job meeting will be conducted and attended by all personnel involved in work steps. Details of meeting to be documented on attached j-5.
10.4 Return Work Package to Maintenance Manager.

==========

==========J-4 RESOLUTION/RETEST (W140)==========

1. Document Number 2T-93-00747/W *GENERIC WORK ITEM*
   Work Item Title 211-T CHEM TRANSFER LINE VALVE

==========

2. Essential Systems N/A
3. Resolution

SEE ATTACHED J-4A

4. Impact Level/Approval Requirements 3-E S Q

5. Tech Spec/OSR Requirements/Reference
   N/A

6. Reference Documents

	Type
7-GN-091	0003
T-0	0018
EXC PERMIT	0011
ASBESTOS PERMIT	0019
CONFINED SP PERMIT	

7. Comments
   N/A

8. Retest Requirement Y
9. Mode D
10. Retest
    INITIAL SERVICE LEAK CHECK PER WORK PACKAGE 2T-93-0825

11. QC Involvement in Retest WITNESS

12. PIC QUIGLEY,K

13. PIC Org. 87420

	Signature	Date
14. Resolution By	X LEACH,CA	09/23/93

15. Plant Forces Work Review Required N Number N/A

16. Approvals

	Signature	Date
Cognizant Engineer	X ANDERSON,SP	10/18/93
Cognizant Manager	X BELCHER,JT	10/18/93
Environmental Assurance	X BOOM,RJ	10/27/93
Health/Safety Assurance	Paul H. Moorman	12/1/93
Quality Assurance	X POWELL,BR	10/19/93 → Billy Powell 30 Nov
Additional Approvals	H.P.T.	11/30/93
MAINT	K.C. Jones 12-1-93 9:00 pm	
	A.I.C.	12/1/93

17. Resources Required

Res Code	Description	No.	Est Hrs	Act Hrs
04A	OPERATIONS PERSONNEL	4	24	
13B	Heavy Equipment Operator	1	4	
15	Carpenter	2	8	

==========J-4 RESOLUTION/RETEST (W140)==========

1. Document Number 2T-93-00747/W *GENERIC WORK ITEM*
   Work Item Title 211-T CHEM TRANSFER LINE VALVE

22	Electrician	1	2
24	Plumber Steamfitter	2	8
35	Ironworker/Rigger	2	4
38	Painter/Sign	1	6
54A	Radiation Protection Technicia	2	16
94	PLANNER	1	8
96	RESPIRATORY PROTECTION	1	16
97	QUALITY CONTROL	1	1
14, 14A	TEAMSTER		

RQ 12/29/93

	Signature	Date
18. Field Work Complete		
19. Retest Satisfactory		
20. QC Verify Retest (If Required)		12-29-93

IPF# 8

ENGINEERING CHANGE NOTICE

1. ECN 60213

Proj. ECN

2. ECN Category (mark one)	3. Originator's Name, Organization, MSIN, and Telephone No.		4. Date
Supplemental [X] Direct Revision [ ] Change ECN [ ] Temporary [ ] Standby [ ] Supersedure [ ] Cancel/Void [ ]	ANDERSON, SCOTT, T PLANT ENG, T3-28, 373-1912		12/20/93
	5. Project Title/No./Work Order No. 211-T VALVE REPLACEMENT	6. Bldg./Sys./Fac. No. 2706-T/211-T/CHEM TRANSFER	7. Impact Level 3Q
	8. Document Numbers Changed by this ECN (includes sheet no. and rev.) H-2-91264 SH1 REV 3 2 SPA 12/20/93	9. Related ECN No(s). NONE	10. Related PO No. 539836-1-2

11a. Modification Work	11b. Work Package No.	11c. Modification Work Complete	11d. Restored to Original Condition (Temp. or Standby ECN only)
[ ] Yes (fill out Blk. 11b) [X] No (NA Blks. 11b, 11c, 11d)	2T-93-747	N/A Cog. Engineer Signature & Date	N/A Cog. Engineer Signature & Date

12. Description of Change

ADDED NOTE NEXT TO VALVE T-PS-211T-006 PER PAGE 3 OF THIS ECN. ADDED NOTE PERTAINING TO VALVE T-PS-211T-006 PER PAGE 4 OF THIS ECN.

13a. Justification (mark one)							
	Criteria Change	[ ]	Design Improvement	[X]	Environmental	[ ]	
As-Found	[ ]	Facilitate Const.	[ ]	Const. Error/Omission	[ ]	Design Error/Omission	[ ]

13b. Justification Details

CLARIFICATION OF VALVE TYPE, SIZE AND MATERIAL NECESSARY.

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

S P ANDERSON T3-28
B R POWELL, JR. T4-06
J T BELCHER T3-28
CDWS# 4 R1-29
CDWS# 5 T4-30

RELEASE STAMP

OFFICIAL RELEASE BY WHC 63

DATE DEC 20 1993

Sta# 6

A-7900-013-2 (06/92) GEF095
Engineering Change Notice

A-7900-013-1 (06/9

ENGINEERING CHANGE NOTICE	Page 2 of 4	1. ECN (use no. from pg. 1) 602137

15. Design Verification Required	16. Cost Impact				17. Schedule Impact (days)	
	ENGINEERING		CONSTRUCTION			
[] Yes	Additional	[] $	Additional	[] $	Improvement	[]
[X] No	Savings	[] $	Savings	[] $	Delay	[]

N/A

18. Change Impact Review: Indicate the related documents (other than the engineering documents identified on Side 1) that will be affected by the change described in Block 12. Enter the affected document number in Block 19.

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

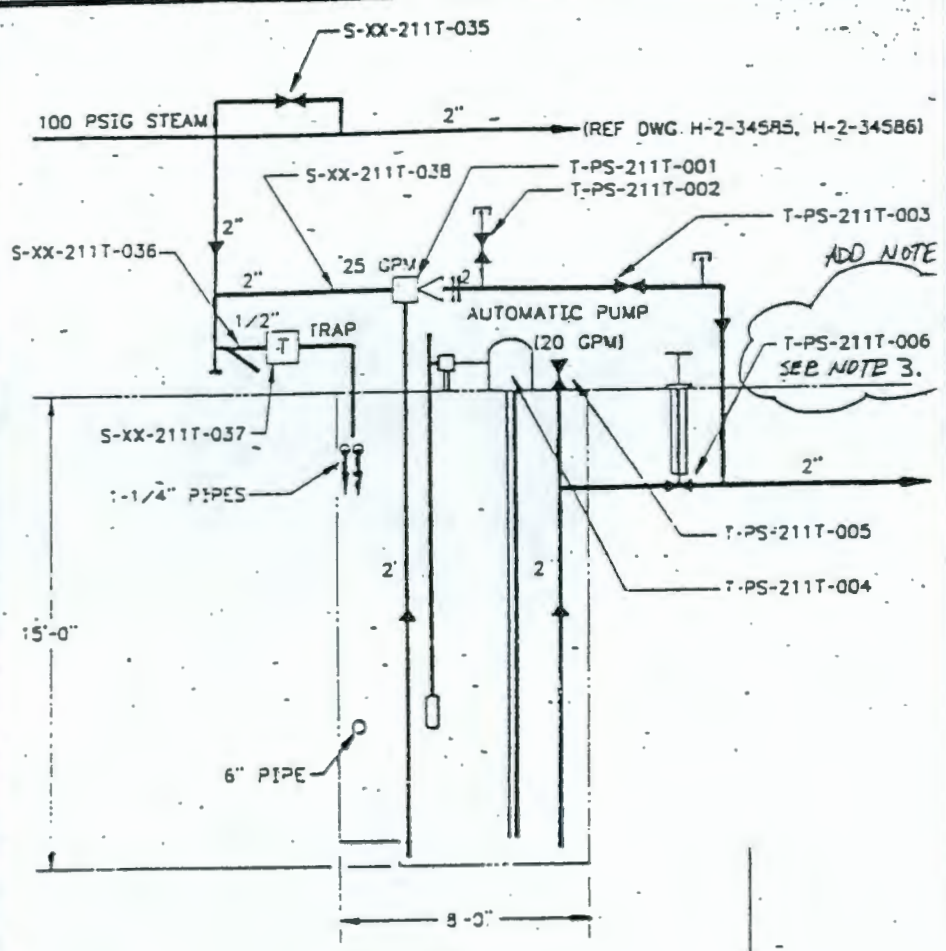
N/A

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

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

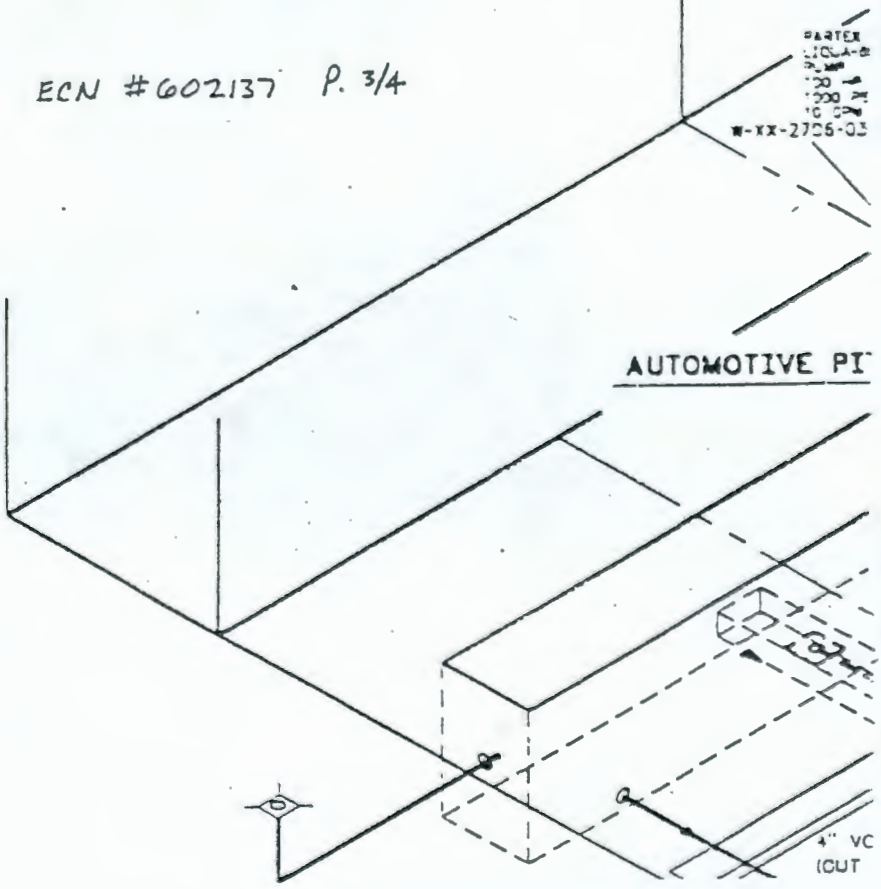
20. Approvals

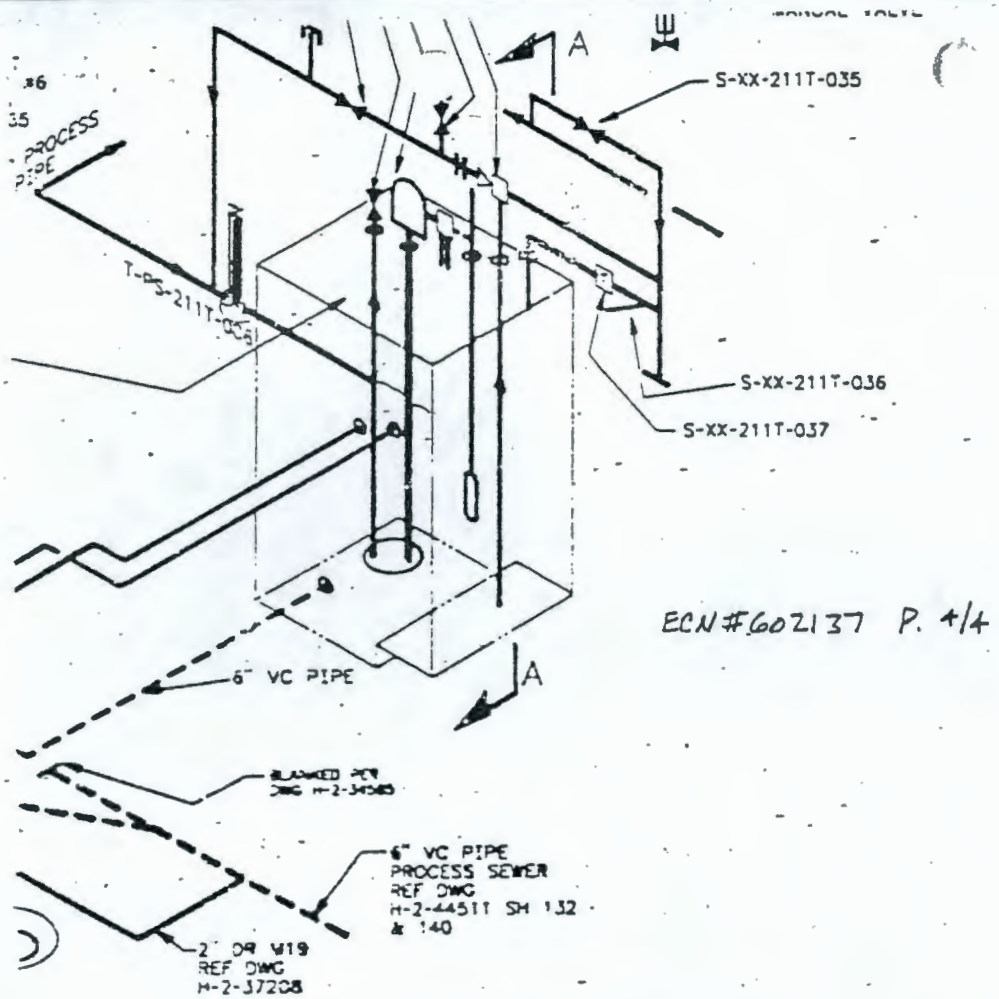
Signature	Date	Signature	Date
OPERATIONS AND ENGINEERING		ARCHITECT-ENGINEER	
Cog Engineer SPA Scott Anderson	12/20/93	PE	
Cog. Mgr. ~~JTB~~ JTB 12/20/93	12/20/93	QA	
QA BRP Billy Ray Powell Jr BR Powell Jr	20 Dec 93	Safety	
Safety		Design	
Security		Environ.	
Environ.		Other	
Projects/Programs			
Tank Waste Remediation System			
Facilities Operations		DEPARTMENT OF ENERGY	
Restoration & Remediation		Signature or Letter No.	
Operations & Support Services			
IRM		ADDITIONAL	
Other			



SECTION A-A

ECN #602137 P. 3/4





ECN#602137 P. 4/4

GENERAL NOTES

1. LIQUID WASTE CONTRIBUTIONS AT 2706-T BUILDING INCLUDE:
   A. LIQUID WASTE FROM DECONTAMINATION OPERATIONS DRAINING INTO AUTOMATIVE AND RAILROAD PITS.
   B. LIQUID WASTE FROM GENERAL FLOOR CLEAN UP DRAINING INTO FLOOR DRAINS AND PITS.
   C. RAIN WATER DRAINAGE FROM CONCRETE PAD BEHIND 2706-T.
   D. WATER DRAINAGE INTO DRAIN IN FRONT OF 2706-T.
2. LIQIUD WASTER FROM 2706-T DRAINS INTO THE SLUDGE COLLECTION SUMP AND IS AUTOMATICALLY PUMPED TO 221-T BUILDING CELL 6-L.
3. VALVE T-PS-211T-006 TO BE A 2" FLANGED S.S. BALL VALVE, 150lb.

ADD NOTE

1993

TION

ETE WITHOUT
OF OUTSTANDING
DATA BASE

CONFIDENCE LEVEL C

PHYSICAL VERIFICATION OF VISUAL OBSERVATIONS ONLY THAT DEPICTED ITEMS ARE PHYSICALLY INSTALLED IN THEIR RELEVANT LOCATIONS

ART 10/93	11/88 9/1/92					
REV BY DATE	CHK BY DATE	DFTG APVD DATE	COG ENGR	OTHER	OTHER	
			APPROVALS BY/DATE			

:ONS

DCODE 2J:IBM:ACD2:11.0:NN

DRAWN SEE PREV REV DATE
CHECKED
DFTG APVD
COG ENGR
QA
OTHER
OTHER
OTHER
APVD FOR APPLICATION
BY
FOR DATE

CHK DATE

CUSTOMER DATE

CDT

U.S. DEPARTMENT OF ENERGY
Richland Operations Office
Westinghouse Hanford Company

IEFD-LIQUID WASTE HANDLING AND DECONTAMINATION FACILITY

SIZE	BLDG NO	MODEL NO	DWG NO	REV
F	2706-T	7000/7004	H-2-91264	2

SCALE NONE | PROJECT C-137 | SHEET 1 OF 1

BILL OF MATERIAL

Sheet 1 of 1

Work Request No. 2T-93-0747 B.O.M. Suppl. _____

ECN No. _____

Title/End Use Replace ~~Gate~~ w Valve at

Cost Code A3M7G

DELIVERY

Date 12-16-93 ☑ Desired ☐ Mandatory

Delivery Location _____

EMERGENCY JUSTIFICATION

ITEM	QTY	UNIT	DESCRIPTION/SPECIFICATION Attach Drawing, Specifications, Catalog Cuts, etc. If applicable include all quality documentation requirements.	EST. COST	IMPACT LEVEL	QC APPROVAL	STOCK NO. / STORAGE LOCATION	SOURCE/ DOCUMENT NO. PR/PO/SO
1	1	EA	VALVE 2" S.S. Flanged Ball 150# RAISED FACE CF8M 680 S.V.F. INC.		3/3Q		From Storage Containment Green TAG ATTACHED	
2	AS Req		Gasket mat'l Garlock 3000 1/8" THK		4		In Stock	

SPECIAL INSTRUCTIONS, INSPECTION REQUIREMENTS

Issued to Carl Leach 12/20/93

	Date	MSIN	Phone
Planner/PIC	12-16-93	T3-25	3-3030
Quality Engineering			
Material Coordinator	12/20/93	T3-25	3-9862
Other	12/20/93	T3-28	3-5384

BC-5600-174.1 (10/88)

211-T FITNESS-FOR-USE-EVALUATION - LEAK TEST

Inspector Name: Paul Crane	Date of Test: 12/27/93
Initial Liquid Level (in.):	135 1/8"
Time at Initial Recording (hr./min.):	1314 hrs
Final Liquid Level (in.):	135 1/8"
Time at Final Recording (hr./min.):	1335 hrs
Change in Liquid Level (in.):	Ø

If Applicable, Identify the nature and completion date of corrective actions performed as a result of the leak test:

NO CORRECTIVE ACTIONS APPLICABLE.

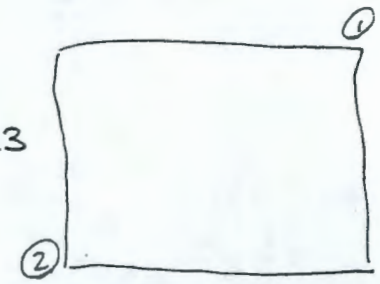
Comments: READINGS: INITIAL TAKEN ON 12/27/93

1ST READING - 1309 - 135' 1/4" } LOCATION 1- Corner (crack) tow and T Plant entrance
2d READING - 1311 - 135' 1/8"

3d READING 1313 - 135' 1/8" } LOCATION 2- Opposite corner
4th 1314 - 135' 1/8"
5th READING 1315 - 135' 1/8"

READINGS - FINAL TAKEN ON 12/28/93
POSITION 2 USED.

1RST READING 1335 - 135 1/8"
2ND READING 1335 - 135 1/8"
3RD READIN 1336 - 135 1/8"



WITNESSED BY: L.T. BLACKFORD 12/28/93

Inspector Signature: Paul A. C

Date: 12/28/93

BACKGROUND

Upgrades to the existing T Plant tank system necessary to meet current dangerous waste tank system requirements were initially proposed to establish the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) M-32-03 interim milestone and associated target actions. Because of the time required for completion of the upgrades (scheduled completion date: September 1999), the Washington State Department of Ecology (Ecology) T Plant unit manager, Mr. Casey Ruud, requested that additional interim actions be added to ensure safe operation of the tank system until the upgrades are completed. Approval of T Plant's interim status expansion request was contingent upon Ecology's agreement of the proposed T Plant Tri-Party Agreement interim milestone target actions.

A meeting was held with Ecology at T Plant on August 26, 1993 to discuss these proposed interim actions. One interim action (proposed target action M-32-03-T01) was to "implement a periodic visual inspection and static leak test program for the 2706-T and 211-T sumps" by October 1993. Ecology representatives had no specific comments regarding the intent or content of this proposed action. Following Ecology's approval of the proposed actions, T Plant's interim status expansion was approved on September 8, 1993.

The Westinghouse Hanford Company (WHC) and the Department of Energy, Richland Operations Office (RL) transmitted a letter to Ecology on November 2, 1993 documenting completion of proposed target action M-32-03-T01. On December 2, 1993, Mr. Ruud inspected T Plant to verify closure of the action. On December 7, 1993, Ecology transmitted a letter stating that the intent of the target action was not met and that the T Plant Part A Permit Application would be revoked if several actions were not completed by December 15, 1993.

DESCRIPTION OF 2706-T AND 211-T SUMPS

The T Plant complex consists of several facilities which include the 2706-T Facility, the 211-T sump, and the 221-T Canyon Facility. The 2706-T Facility contains an automotive sump and a large railroad sump over which decontamination activities are performed. The floor of the automotive sump is sloped to a central drain, which is connected to the adjacent railroad sump. Effluent from the automotive sump drains and accumulates in the railroad sump. Currently, the liquid which accumulates in the railroad sump is primarily from precipitation which accumulates on an adjacent pad and also drains to the sump. Daily liquid levels are recorded on the railroad sump. The railroad sump floor is sloped towards the center where two small sumps are located. Waste liquid in the 2706-T sumps is then pumped to the 211-T sump (adjacent to the 2706-T Facility). From the 211-T sump, the waste is pumped to the 221-T Facility for transfer to the tank farms for disposal. The 211-T sump is a small transfer sump which was originally designed to allow solids to settle from the waste stream prior to transfer to the 221-T tank system.

COMPLETION OF PROPOSED TARGET ACTION

Proposed Tri-Party Agreement target action M-32-03-T01 has been completed. This proposed target action required implementation of a periodic visual inspection and static leak test program for 2706-T and 211-T tanks by October 31, 1993. As discussed in the November 2, 1993 letter from J. M. Hennig, RL, to R. F. Stanley, Ecology, a program to conduct visual inspection and static leak testing of the tanks was implemented. The first visual inspection of the sumps was completed, and in accordance with the implementing procedure, the first static leak test will be completed when sufficient liquid has been accumulated in the tank system. This will eliminate the need to generate additional dangerous waste, via water additions, to complete the test.

The visual inspections were documented on inspection logs identifying each of the items inspected and the results of the inspections. While the visual inspections were conducted in accordance with a draft procedure, WHC and RL believe early completion of visual inspections (i.e. by August 5, 1993) was a prudent action. The inspection of 2706-T was completed last summer to take advantage of the waste transfer conducted on August 5, 1993 which left the large 2706-T sump empty and allowed maximum visibility of the sump floor. Because the sump has held liquid since completion of the August inspection, no new visual inspection could have been conducted prior to October 31, 1993 without transfer of the liquids from the sumps. This would preclude accumulation of the liquids necessary to complete the leak test.

During the visual inspection of the 2706-T sump, it was noted that a thin layer of dirt and debris was present on the sump floor. The small amount of dirt and debris did not, however, preclude the inspector from evaluating the general structural condition of the sump. It is important to note that the visual inspection is performed only to identify the presence or absence of significant visible structural degradation which would obviously affect the fitness of the sump for continued use. Nothing was noted during the inspection indicating significant structural deterioration. The leak test, however, will provide a more quantitative evaluation of the sump's ability to adequately contain liquids.

The 211-T sump visual inspection was completed on July 7, 1993. The sump was emptied to the maximum extent practical by transferring the contents into the 221-T tank system prior to the inspection. As noted on the inspection log, the sump "looks to be in good shape, free of deterioration." Nothing was noted during the inspection indicating significant structural deterioration or that a more intensive inspection was warranted.

Leak tests could not have been completed on the sumps by October 31, 1993, as insufficient waste liquids had accumulated in the tank system to perform the test. Again, in accordance with the approved procedures developed to implement this program, leak tests were planned to be conducted when the sump level was high (i.e., before transfer to 221-T). This would result in a meaningful leak test and eliminate the need to generate additional wastes by adding water to the sumps to complete the tests.

The following pages provide a discussion of the actions Ecology has required to be completed as documented by the December 7, 1993 letter.

DISCUSSION OF ECOLOGY'S 12/15/93 REQUIRED ACTIONS

▸Modify as necessary visual inspection and leak test desk instructions.

Ecology's December 7, 1993 letter does not recommend specific modifications to the desk instruction. WHC and RL are willing to address specific Ecology concerns with the desk instructions.

▸Perform leak test of 211-T sump.

Performing a leak test of the 211-T sump prior to October 31, 1993, would have required that additional liquid waste be transferred from the 2706-T sump, which would further delay leak testing of the 2706-T sump, or the addition of water to the sump, which will generate additional wastes.

As discussed with Mr. Ruud during his December 2, 1993, inspection of T Plant, additional repair and testing of the 211-T sump transfer line was required prior to use. The transfer line failed a leak test conducted on August 12, 1993. Failure was most likely due to leakage downstream of an in-line valve. T Plant would not initiate use of the line until necessary repairs were completed and a successful leak test was completed. At that time, adding additional liquids was not prudent because unconventional methods would have been required to remove the liquids from the sump if required (e.g., to perform visual inspection or initiate repair).

Repair of the transfer line was completed on December 29, 1993. Because it was noted that the level of the 211-T sump was sufficient and that liquid would need to be pumped from the sump to test the repaired transfer line, a leak test was performed on December 27 and 28, 1993. Results of the leak test were positive.

It is anticipated that future sump tests will be completed concurrently. T-Plant operations are made more efficient and leak testing conditions are more effective by leak testing both the 211-T and the 2706-T sumps sequentially. Following completion of the 2706-T test, liquid can be transferred to the 211-T sump. This will allow testing of both the 2706-T sump and the 211-T sump at maximum operating liquid levels, which will provide the most desirable leak test conditions.

▸Initiate leak testing of the 2706-T sump, but only if sufficient liquid exists.

This requirement is consistent with plans identified in our November 2, 1993 correspondence. This action supports waste minimization by <u>not</u> requiring that additional water be added to the tank system, which would generate additional regulated waste. Because it is anticipated that the sump level will be highest by the end of February 1994 (due to increased winter precipitation), a leak test of the 2706-T sump will be completed at that time. The sump will be operated to maintain a level below that at which the leak test is performed. If a higher level is required, additional leak testing will be performed to establish a new boundary. Daily liquid level monitoring will continue.

▸Empty and clean out, as necessary, 211-T sump.

While it may be desirable to completely empty and clean out the 211-T sump for inspection, this action is not appropriate at this time. To completely empty and clean the 211-T sump, an alternate waste transfer method to remove the tank heel; personnel entry into a confined space; and additional radiological exposure would be required.

The visual inspection did not indicate any degradation in the structure or the lining of the 211-T sump. Following completion of the leak test, it will be determined whether further action is justified. The leak test completed on December 28, 1993, indicated that no repair is warranted at this time.

▸Perform visual inspection of 211-T sump.

On July 7, 1993, a visual inspection of the 211-T sump was performed. The visual inspection and leak test desk instructions call for the 211-T sump to be emptied "to the maximum extent practical by transferring the contents into the 221-T tank system." The desk instruction also states that "because the 211-T sump is classified as a confined space, entry will only be required when repair is necessary or when cracks or deterioration are noted which require further evaluation."

It is important to note that the visual inspection is performed only to identify the presence or absence of significant visible structural degradation which might affect the fitness of the sump for continued use. Nothing was noted during the inspection indicating significant structural deterioration which would warrant entry into the sump. The leak test, however, provides a more quantitative evaluation of the sump's ability to adequately contain liquids.

▸Initiate corrective action for poor coating of 2706-T sump.

The proposed Tri-Party Agreement target action M-32-03-T06, "Complete scheduled upgrades to T Plant tank system (Project W-259)," addresses the schedule for completion of upgrades to the 2706-T sump. Corrective action will be undertaken, as necessary, in the event that future inspections, leak tests, or daily level monitoring of the sump warrant action.

▸Report to the Ecology Unit Manager the status of these corrective actions.

Transmittal of this letter documents the WHC/RL report to the Ecology T Plant Unit Manager.

DISCUSSION OF ECOLOGY'S 1/15/94 REQUIRED ACTIONS

While WHC and RL do not believe these actions address regulatory compliance issues, the following discussion is provided.

▸Repair the backflow preventer leaking to the 2706-T sump.

The leaking 2706-T backflow preventer was repaired on December 3, 1993; however, a small amount of leakage has again been noted. T Plant engineers have investigated further repair actions to the backflow preventer with the manufacturer (Hersey). Additional parts are being procured to repair the backflow preventer per the manufacturer's instructions.

▸Repair the leak detection device for 2706-T.

The 2706-T leak detection device shall be repaired as quickly as practical; however, as discussed during Mr. Ruud's December 2, 1993 inspection of T Plant, dangerous waste tank system leak detection requirements are met as 2706-T tank levels are being recorded manually on a daily basis. In addition, repair of the device requires that the sump be emptied, which would preclude accumulation of sufficient liquids to complete the 2706-T leak test.

▸Report on the progress of installing or instituting leak detection for the 211-T sump.

The status of target action M-32-03-T05, "Install level indication device for 211-T Tank," remains as discussed in the December 1, 1993 T Plant Unit Manager's meeting. We remain on schedule to complete this action by June 1994.