

PLUTONIUM FINISHING PLANT  
PLUTONIUM RECLAMATION FACILITY

ALARM RESPONSES FOR PRF ALARM PANEL B-7

ZO-180-804  
Rev/Mod A-0  
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ISSUE DATE 4-21-93



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## 1. INTRODUCTION

### 1.1. Purpose

This procedure provides responses to alarms identified on the PRF Control Room alarm panel B-7 located on the south end of the east control panel of Room 44.

### 1.2. Scope

The alarms associated with these panels are as follows:

1. High Weight Factor (tank level) alarms for miscellaneous canyon tanks in PRF.
2. Low Weight Factor (tank level) alarms for miscellaneous canyon tanks in PRF.
3. High temperature alarm for TK-21 (filtrate evaporator).
4. Tube bundle failure conductivity alarms for TK-21 (filtrate evaporator) and TK-43 (product concentrator).

### 1.3. Applicability

Alarms on these panels may alarm during any plant or process condition and the specific alarm responses will address these conditions.

## 2. PRECAUTION AND LIMITATIONS

### 2.1. Criticality

All posted criticality prevention limits shall be read and followed.

The maximum depth of any solid and solution accumulations in gloveboxes shall not exceed 1 inch.

Liquid spills up to weir height shall be cleaned up to less than 1 inch within 24 hours, or verified to be less than 2500 g/ft<sup>2</sup> Pu.

## 3. PREREQUISITE ACTION

An alarm condition exists.

## 4. TOOLS, EQUIPMENT AND MATERIAL

### 4.1. References

Radiation Work Permits, Z-007, Z-012  
 Hanford Site Radiological Control Manual, HSRCM-1  
 Plutonium Finishing Plant Administration, WHC-CM-5-8  
 CPS-Z-165-80010, -80707, -80708, -80710, -80701

#### 4.1.1. Referenced Documents

ZO-101-023, SAMPLE TANKS D-4, D-5, D-7 AND D-8  
 ZO-180-029, DRAIN PRF TANKS  
 ZO-180-600, PERFORM 236-Z SURVEILLANCE AND RESPONSES  
 ZO-182-003, SHUT DOWN FILTRATE EVAPORATOR AND CONDENSER  
 ZO-182-011, SHUT DOWN PRODUCT CONCENTRATOR

OSR/OPERATING MATRIX				
OPERATING LIMIT			OSR LIMIT	
CONDITION/ VARIABLE	OPERATING RANGE	ACTION FOR OPERATING RANGE VIOLATION	LIMITING CONDITION FOR OPERATION (LCO)	ACTION FOR LCO NON- CONFORMANCE*
Glovebox gloves and bags	Failed or leaking glovebox gloves shall be replaced before operation within the glovebox.	Same as OSR LCO violation	Failed or leaking glovebox gloves shall be replaced before operation within the glovebox.	STOP WORK IN GLOVEBOX See RHO-CD-1244 Sect. 11.3.1
	Gloves which fail during operation shall be identified and replaced before operation continues.	Same as OSR LCO violation.	Gloves which fail during operation shall be identified and replaced before operation continues.	STOP WORK IN GLOVEBOX See RHO-CD-1244 Sect. 11.3.1
Glovebox negative pressure	Must be between -0.5 in. WG and -2.0 in. WG.	Stop work, check for hood leaks, and adjust to operating range.	Must be more negative than -0.3 in. WG.	STOP WORK IN GLOVEBOX See RHO-CD-1244 Sect. 11.3.1
Exhaust HEPA Filter DP	Must be less than 3 in. WG.	Schedule filter change.	Must be less than 4 in. WG.	STOP WORK IN GLOVEBOX See SD-HS-SAR-007 Sect. 11.3.2

\* Supervision shall initiate recovery steps per Section 11.6.1.2 of RHO-CD-1244 or Section 11.6.6.2 of SD-HS-SAR-007, as applicable, within 24 hr. Supervision shall immediately contact the Duty Manager, Manager of process effected, Plant Manager, PFP Process Engineering, and Facility Safety Engineer. The situation, notifications and start time of the event shall be recorded in operations logbook.

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## 6. PERFORMANCE

## 6.1. Respond to PRF Control Room Panel B-7 Alarms

## A. Respond to PRF Control Room Panel B-7 Alarms

1. Silence alarm by pressing ACKNOWLEDGE button.

## CAUTION

Running pump dry can result in pump seal damage.

2. IF High WF alarm actuates due to normal process evolutions, end transfer. No further actions required.
3. IF Low WF alarm actuates due to normal process evolutions, end transfer prior to running pump dry to prevent pump seal damage. No further actions required.
4. Respond to alarms per section of Attachment 3 as indicated by Attachment 1.
5. Record alarms and actions taken in PRF Control Room Logbook. High and Low WF alarms that occur due to normal process evolutions should not be recorded.
6. Notify supervision of alarms and actions taken, with the exception of alarms that occur due to normal process evolutions.



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Attachment 2 - WEIGHT FACTOR LEVEL INDICATION SYSTEM DESCRIPTION  
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- WF - Weight Factor: Unit of level indication equivalent to liquid height in inches of water. Actual height of solution in tank may be lower than indication for solution with densities greater than water (1.00). Measured by differential pressure between top and bottom dip tubes due to weight of liquid.
- Dip Tube - Air sensing tubing running from the WF Transmitter to the tank. Low leg indicates low pressure and is attached to the tank vent. High leg indicates high pressure and terminates at the bottom of the tank. Air rotameters on 3rd floor provide control and indication of air flow through the dip tubes to ensure proper operation.
- WFT - Weight Factor Transmitter: Converts the differential pressure from the dip tubes to electric signal (10-50 mA) that provides level signal for control room indication and alarms.
- WFAS - Weight Factor Alarm Switch: Monitors electric signal (10-50 mA) from WFT for either Low and/or High current flow and trips alarm relay at values below and/or above set points.
- WFR - Weight Factor Recorder: Converts electric signal (10-50 mA) to a strip chart recorder and indication on a 0-100% scale. PRF tank calibration manual (located in the Control Room) may be used to convert chart readings to actual tank volumes.

Attachment 3 - RESPONSES TO PANEL B-7 ALARMS  
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ALARM	POSSIBLE CAUSES	RESPONSE
<p><b>HIGH WF TK-128</b></p> <p>Volume: 57 liters WFT Range: 0-60" H<sub>2</sub>O Set Point: 52" H<sub>2</sub>O</p> <p>Actuated when TK-128 WFAS senses greater than 35 mA (61% of chart or a maximum of 52 liters). TK-128 overflows through the vent header to tanks 52.3 and 52.4 (level indication on panel B-9). Alarm should acknowledge but not clear until level is below set point. TK-128 is used to store highly pure concentrated Pu Nitrate product solutions and should never be overflowed. Source tanks are limited to 42, 45, 46, 36, 15, 16, 29 and Room 227.</p> <p>Equipment Locations: TK-128 - 2nd WW. WFT - 3rd West. AS - behind panel B-8 FR - Chart 96 panel B-8 TK-52.3 and TK-52.4 - 1st WW (In ...)</p>	<ul style="list-style-type: none"> <li>- Increase in tank level</li> <li>- Plugged high dip tube</li> <li>- Instrument air upset</li> <li>- Power interruption</li> <li>- Instrument failure</li> </ul> <p><u>REFERENCES:</u></p> <p>Drawings: EFD; H-2-28027 GPL; H-2-28379 H-2-28373</p> <p>CBRS: Loop #; A0091 Sequence #; 1, 2, 3 &amp; 5 Frequency; 6 mo</p>	<p><u>AUTOMATIC ACTION:</u> None</p> <p><u>OPERATOR ACTION:</u></p> <ol style="list-style-type: none"> <li>1. Check present readings for TK-128 WF recorder (B-8) and TK-52.4 indicator (B-9) along with recent trend for TK-128.             <ol style="list-style-type: none"> <li>a. <u>IF</u> TK-128 Wf has not exceeded 61% of chart, notify supervision of equipment failure. No further actions required.</li> <li>b. <u>IF</u> sudden TK-128 WF changes correspond to outages in electrical power or instrument air and reading returned to previous value, no actions required.</li> <li>c. <u>IF</u> WF increased suddenly to 100%, this indicates possible high leg dip tube plugging. Continue to verify.</li> </ol> </li> <li>2. Verify that selector switch 45-SS-B (B-8) is in position 1 or 2 and TK-128 booster pump green indicator light is ON (switch 128-SS-E to STOP, B-8).</li> <li>3. On first and second floors:             <ol style="list-style-type: none"> <li>a. Verify that valves 550 (WU-4) and 342 (WR-2) are CLOSED.</li> <li>b. Verify that no solution is entering tanks 52.3 or 52.4 (1st WW).</li> </ol> </li> <li>4. <u>IF</u> no transfers were in progress in PRF, perform PRF "Standby Surveillance - Process Vessel" surveillance checks per ZO-180-600 and identify any changes in tank levels.</li> <li>5. Evaluate all transfers and changes in tank levels to determine possible causes of alarm and/or source of solution entering TK-128.</li> </ol>

Attachment 3 - RESPONSES TO PANEL B-7 ALARMS (Cont.)  
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ALARM	POSSIBLE CAUSES	RESPONSE
<p><b>LOW WF TK-128</b></p> <p>Volume: 57 liters WFT Range: 0-60" H<sub>2</sub>O Set Point: 9" H<sub>2</sub>O</p> <p>Actuated when TK-128 WFAS senses less than 16 mA (15% of chart or a minimum of 9 liters). TK-128 has no drain line but may siphon to TK-42, TK-45 or TK-46. Solution may drain to glovebox floor via sample valve. Alarm should acknowledge but not clear until level is above set point. Tank 128 contains highly pure concentrated Pu Nitrate solutions.</p> <p>Equipment Locations: TK-128 - 2nd WV. WFT - 3rd West. WFAS - behind panel B-8 WFR - Chart 96 panel B-8</p>	<ul style="list-style-type: none"> <li>- Decrease in tank level</li> <li>- Plugged low dip tube</li> <li>- Leak on High dip tube</li> <li>- Instrument air upset</li> <li>- Power interruption</li> <li>- Instrument failure</li> <li>- Siphon to TK-42, 45 or 46</li> <li>- Misroute</li> </ul> <p><u>REFERENCES:</u></p> <p>Drawings: EFD; H-2-28027 GPL; H-2-28379 H-2-28373</p> <p>CBRS: Loop #; A0091 Sequence #; 1, 2, 3 &amp; 4 Frequency; 6 mo</p>	<p><u>AUTOMATIC ACTION:</u> None</p> <p><u>OPERATOR ACTIONS:</u></p> <ol style="list-style-type: none"> <li>1. Check present readings for TK-128 WF recorder (B-8) and Tanks 42 (B-6), 45 (B-8) and 46 (B-8) along with recent trend for TK-128.             <ol style="list-style-type: none"> <li>a. <u>IF</u> TK-128 WF has not dropped below 15 % of chart, notify supervision of equipment failure. No further actions required.</li> <li>b. <u>IF</u> sudden TK-128 WF changes correspond to outages in electrical power or instrument air and reading returned to previous value, no actions required.</li> <li>c. <u>IF</u> WF decreased suddenly to 0%, this indicates possible instrument problem. Continue to verify.</li> </ol> </li> <li>2. Verify tank 128 pump green indicator light is ON (switch 128-SSD to STOP, B-8) and switch 45/46 SS (B-8) is in position 1 "OFF".</li> <li>3. On second floor, verify that valves 551 (WV-3) and 560 (WV-3) are CLOSED.             <ol style="list-style-type: none"> <li>a. <u>IF</u> sample valve 560 was open, check solution level in glovebox WV.</li> <li>b. <u>IF</u> block valve 551 was open and pump 128-MOP-D was ON, determine solution destination by performing step 4.</li> <li>c. <u>IF</u> all valves are closed, perform visual check of canyon and access gloveboxes for leaks.</li> </ol> </li> <li>4. Compare changes in tank levels and gloveboxes to previous PRF "Standby Surveillance - Process Vessel" surveillance checks per ZO-180-600 to determine possible causes of alarm and/or loss of solution from TK-128.</li> </ol>

Attachment 3 - RESPONSES TO PANEL B-7 ALARMS  
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ALARM	POSSIBLE CAUSES	RESPONSE
<p><b>HIGH WF TK-39</b></p> <p>Volume: 210 liters WFT Range: 0-250" H<sub>2</sub>O Set Point: 150" H<sub>2</sub>O</p> <p>Actuated when TK-39 WFAS senses greater than 34 mA (60% of chart or a maximum of 208 liters). TK-39 overflows to tanks 52.3 and 52.4 (level indication on panel B-9). Alarm should acknowledge but not clear until level is below set point. TK-39 is used to store low Pu concentration waste solutions prior to transfer to TK-D5. Source tanks include the SX process, 19, 40, 41 and WM-1.</p> <p>Equipment Locations: TK-39 - 1st &amp; 2nd WL. WFT - 3rd West. WFAS - behind panel B-1 WFR - Chart 44 panel B-1 52.3 and TK-52.4 - 1st WW (In glovebox)</p>	<ul style="list-style-type: none"> <li>- Increase in tank level</li> <li>- Plugged high dip tube</li> <li>- Instrument air upset</li> <li>- Power interruption</li> <li>- Instrument failure</li> </ul> <p><u>REFERENCES:</u></p> <p>Drawings: EFD; H-2-28041 GPL; H-2-28373 H-2-28379</p> <p>CBRS: Loop #; A0046 Sequence #; 1, 2, 3 &amp; 5 Frequency; 6 mo</p>	<p><u>AUTOMATIC ACTION:</u> None</p> <p><u>OPERATOR ACTIONS:</u></p> <ol style="list-style-type: none"> <li>1. Check present readings for TK-39 WF recorder (B-1) and TK-52.4 indicator (B-9) along with recent trend for TK 39.             <ol style="list-style-type: none"> <li>a. IF TK-39 WF has not exceeded 60 % of chart, notify supervision of equipment failure. No further actions required.</li> <li>b. IF sudden TK-39 WF changes correspond to outages in electrical power or instrument air and reading returned to previous value, no actions required.</li> <li>c. IF WF increased suddenly to 100%, this indicates possible high leg dip tube plugging. Continue to verify.</li> </ol> </li> <li>2. Verify that selector switch 32-SS-W (B-4) is <u>NOT</u> in position 3 "CAW TO TK-39" and 39-SSG (B-1) is OFF.</li> <li>3. On first and second floors:             <ol style="list-style-type: none"> <li>a. Verify that valves 289 (WL-1), 329 (WP-2), 435 (WE-4), 489 (WL-3) and 493 (WL-3) are CLOSED.</li> <li>b. Verify that no solution is entering tanks 52.3 or 52.4 (1st WW).</li> </ol> </li> <li>4. IF no transfers were in progress in PRF, perform PRF "Standby Surveillance - Process Vessel" surveillance checks per ZO-180-600 and identify any changes in tank levels.</li> <li>5. Evaluate all transfers and changes in tank levels to determine possible causes of alarm and/or source of solution entering TK-39.</li> </ol>

Attachment 3 - RESPONSES TO PANEL B-7 ALARMS (Cont.)  
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ALARM	POSSIBLE CAUSES	RESPONSE
<p><b>LOW WF TK-39</b></p> <p>Volume: 210 liters WFT Range: 0-250" H<sub>2</sub>O Set Point: 25" H<sub>2</sub>O</p> <p>Actuated when TK-39 WFAS senses less than 14 mA (10% of chart or a minimum of 38 liters). TK-39 drains to tanks 52.3 and 52.4 (level indication of panel B-9). Alarm should acknowledge but not clear until level is above set point. Tank 39 is used to store low Pu concentration waste solutions prior to transfer to TK-D5.</p> <p>Equipment Locations: TK-39 - 1st &amp; 2nd WL. WFT - 3rd West. WFAS - behind panel B-1 WFR - Chart 44 panel B-1 TK-52.3 and TK-52.4 - 1st WW (In glovebox)</p>	<ul style="list-style-type: none"> <li>- Decrease in tank level</li> <li>- Plugged low dip tube</li> <li>- Leak on High dip tube</li> <li>- Instrument air upset</li> <li>- Power interruption</li> <li>- Instrument failure</li> </ul> <p><u>REFERENCES:</u></p> <p>Drawings: EFD; H-2-28041 GPL; H-2-28373 H-2-28379</p> <p>CBRS: Loop #; A0046 Sequence #; 1, 2, 3 &amp; 4 Frequency; 6 mo</p>	<p><u>AUTOMATIC ACTION:</u> None</p> <p><u>OPERATOR ACTIONS:</u></p> <ol style="list-style-type: none"> <li>1. Check present readings for TK-39 WF recorder (B-1) and TK-52.4 indicator (B-9) along with recent trend for TK 39.             <ol style="list-style-type: none"> <li>a. IF TK-39 WF has not dropped below 10 % of chart, notify supervision of equipment failure. No further actions required.</li> <li>b. IF sudden TK-39 WF changes correspond to outages in electrical power or instrument air and reading returned to previous value, no actions required.</li> <li>c. IF WF decreased suddenly to 0%, this indicates possible instrument problem. Continue to verify.</li> </ol> </li> <li>2. Verify tank 39 pump green indicator light is ON (switch 39-SSE to STOP, B-1) and switch 39-SSG (B-1) is OFF.</li> <li>3. On first floor, verify that valves 290 (WL-1), 291 (WL-1) and 292 (WL-1) are CLOSED.             <ol style="list-style-type: none"> <li>a. IF drain valve 290 was open, check solution level in tanks 52.3 or 52.4 (WW) and gloveboxes WW and WW.</li> <li>b. IF sample valve 292 was open, check solution level in glovebox WL.</li> <li>c. IF block valve 291 was open and pump 39-MOP-E was ON, determine solution destination by performing step 4.</li> <li>d. IF all valves are closed, perform visual check of canyon and access gloveboxes for leaks.</li> </ol> </li> <li>4. Compare changes in tank levels and gloveboxes to previous PRF "Standby Surveillance - Process Vessel" surveillance checks per ZO-180-600 to determine possible causes of alarm and/or loss of solution from TK-39.</li> </ol>

Attachment 3 - RESPONSES TO PANEL B-7 ALARMS (Cont.)  
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ALARM	POSSIBLE CAUSES	RESPONSE
<p><b>TUBE FAILURE TK-21</b></p> <p>Conductivity Probe C21-E Set Point = 20 mS/cm or 7.2 mA</p> <p>Alarm indicates high conductivity on steam condensate stream from the filtrate evaporator heating jacket to waste tank TK-D4 (non-critically safe). Conductivity element is located in 1st East glovebox (ET). Conductivity transmitter behind "A" Control Panel converts signal to 4-20 mA. Signal indicator and alarm relay are behind the A-2 control panel on the west wall of Room 44. Converter also provides indication of conductivity from 0-100 mS/cm.</p> <p>Transmitter and probe are NOT fail safe and will NOT generate an alarm upon failure.</p>	<ul style="list-style-type: none"> <li>- Tube bundle failure TK-21</li> <li>- Start up of filtrate evaporator following work on steam condensate piping.</li> <li>- Electric power outage</li> <li>- Instrument failure</li> </ul> <p><u>REFERENCES:</u> OSD-2-184-00007</p> <p><u>Drawings:</u> EFD; H-2-28026 GPL; H-2-13374 H-2-28388</p> <p><u>CBRS:</u> Loop #; A0259 Sequence #; 1, 2, 3 &amp; 4 Frequency; 6 mo</p>	<p><u>AUTOMATIC ACTION:</u> None</p> <p><u>OPERATOR ACTIONS:</u></p> <ol style="list-style-type: none"> <li>1. On first floor, verify valve 163 (ET-1) is CLOSED.</li> <li>2. Verify pump 20-MOP-D green indicator light is ON (switch 20-SSD to STOP, B-7) and controllers 21-WFRC-A (chart 92, B-7, feed) and 21-FC-E (chart 88, B-7, steam) are in Manual mode with output at zero.</li> <li>3. In the PRF control room logbook, record TK-21 temperature (chart 89, B-7), TK-21 WF (chart 92, B-7) and TK-21 steam flow (chart 88, B-7) and note any trends.</li> <li>4. On first floor, verify valve 148 (ES-1) is CLOSED.</li> <li>5. On third floor, verify valves 21-E1 and 21-E2 are closed (located across from the bathroom west wall on 3rd east).</li> <li>6. Additional recovery may include full shutdown of filtrate evaporator per ZO-182-003, draining of TK-21 per ZO-180-029 and sampling of TK-D4 per ZO-101-023.</li> </ol>

Attachment 3 - RESPONSES TO PANEL B-7 ALARMS (Cont.)  
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ALARM	POSSIBLE CAUSES	RESPONSE
<p><b>HIGH TEMPERATURE TK-21</b></p> <p>21-TR-C      0-150°C Set point:    125°C OSD Limit:    130°C OSR Limit:    140°C (LCS)</p> <p>Thermocouple temperature element inside the top of TK-21 senses vapor temperature above heating tubes. Transmitter converts mV signal to a 10-50 mA which provides signal for recorder 21-TR-C and alarm switch 21-TAS-C. Alarm switch feeds both annunciator panel and relay 21-K-C which provides interlock via 21-EV-E to shut off steam.</p> <p>Equipment Locations: 21-TR-C - Chart 89, B-7 21-TT-C - 21-TAS-C - Behind B-7 21-K-C - 3rd Instr. shop 1-EV-E - 3rd east, west wall</p>	<ul style="list-style-type: none"> <li>- High steam pressure (above 30 psig)</li> <li>- Steam regulator failure</li> <li>- Instrumentation failure</li> </ul> <p><u>REFERENCES:</u></p> <p>OSD-Z-184-00007</p> <p><u>Drawings:</u> EFD; H-2-28026 GPL; H-2-28374       H-2-28380       H-2-28388</p> <p><u>CBRS:</u> Loop #;        A0019 Sequence #;   1,2,3,4,5 &amp; 6 Frequency;    6 mo</p>	<p><u>AUTOMATIC ACTION:</u> Alarm interlock deenergizes 21-EV-E on 3rd East which shuts off air supply to 21-EPC-E closing DOV-21-E which shuts off steam supply to TK-21.</p> <p><u>OPERATOR ACTIONS:</u></p> <ol style="list-style-type: none"> <li>1. On third floor, verify valves 21-E1 and 21-E2 are closed (located across from the bathroom west wall on 3rd east).</li> <li>2. Verify TK-21 temperature is &lt;130°C (Chart 89, B-7).</li> <li>3. Note TK-21 steam pressure reading on gage 21-PI-B (3rd East, near the ceiling above steam valves). Reading should be below 30 psig.</li> <li>4. Verify pump 20-MOP-D green indicator light is ON (switch 20-SSD to STOP, B-7) and controllers 21-WFRC-A (chart 92, B-7, feed) and 21-FC-E (chart 88, B-7, steam) are in Manual mode with output at zero.</li> <li>5. In the PRF control room logbook, record TK-21 temperature (chart 89, B-7), TK-21 steam pressure reading from 3rd floor, TK-21 WF (chart 92, B-7) and TK-21 steam flow (chart 88, B-7) and note any trends.</li> <li>6. On first floor, verify valve 148 (ES-1) is CLOSED.</li> <li>7. Additional recovery may include full shutdown of filtrate evaporator per ZO-182-003.</li> </ol>

Attachment 3 - RESPONSES TO PANEL B-7 ALARMS (Cont.)  
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ALARM	POSSIBLE CAUSES	RESPONSE
<p><b><u>TUBE FAILURE TK-43</u></b></p> <p>Conductivity Probe C43-E Set Point = 20 mS/cm or 7.2 mA</p> <p>Alarm indicates high conductivity on steam condensate stream from the product concentrator heating jacket to waste tank TK-D4 (non-critically safe). Conductivity element is located in 1st West glovebox (WR). Conductivity Transmitter is behind "A" Control Panel and converts signal to 4-20 mA. Signal indicator and alarm relay are behind the A-2 control panel on the west wall of Room 44. Converter also provides indication of conductivity from 0-100 mS/cm.</p> <p>The transmitter and probe are not fail safe and will NOT generate an alarm upon failure.</p>	<ul style="list-style-type: none"> <li>- Heat Jacket failure TK-43</li> <li>- Start up of product concentrator following work on steam condensate piping.</li> <li>- Electric power outage</li> <li>- Instrument failure</li> </ul> <p><u>REFERENCES:</u></p> <p>OSD-Z-184-00007</p> <p><u>Drawings:</u> EFD; H-2-28027 GPL; H-2-28373 H-2-28379 H-2-28392</p> <p><u>CBRS:</u> Loop #; A0260 Sequence #; 1, 2, 3 &amp; 4 Frequency; 6 mo</p>	<p><u>AUTOMATIC ACTION:</u> None</p> <p><u>OPERATOR ACTION:</u></p> <ol style="list-style-type: none"> <li>1. On first floor, verify valve 341 (WR-1) is CLOSED.</li> <li>2. Verify pump 42-MOP-D green indicator light is ON (switch 42-SS-D to STOP, B-6), steam control switch 43-SS-C (B-7) is OFF and feed controller 42-FC-B (chart 82, B-6) is in Manual mode with output at zero.</li> <li>3. In the PRF control room logbook, record TK-43 temperature (chart 84; B-7) and note any trends.</li> <li>4. On second floor, verify valve 532 (WS-3) is CLOSED.</li> <li>5. On third floor, verify valves 43-C1 and 43-C2C are closed (located north end, east wall on 3rd west).</li> <li>6. Additional recovery may include full shutdown of product concentrator per ZO-182-011 and sampling of TK-D4 per ZO-101-023.</li> </ol>

ORIGINAL

Date Received: 10-4-93 CW

INFORMATION RELEASE REQUEST

Reference: WHC-CM-3-4

Complete for all Types of Release

Purpose		ID Number (include revision, volume, etc.)	
<input type="checkbox"/> Speech or Presentation	<input checked="" type="checkbox"/> Reference	20-180-804 Rev A-0	
<input type="checkbox"/> Full Paper (Check only one suffix)	<input type="checkbox"/> Technical Report	List attachments.	
<input type="checkbox"/> Summary	<input type="checkbox"/> Thesis or Dissertation	See attachments	
<input type="checkbox"/> Abstract	<input type="checkbox"/> Manual	Date Release Required	
<input type="checkbox"/> Visual Aid	<input type="checkbox"/> Brochure/Flier		
<input type="checkbox"/> Speakers Bureau	<input type="checkbox"/> Software/Database		
<input type="checkbox"/> Poster Session	<input type="checkbox"/> Controlled Document		
<input type="checkbox"/> Videotape	<input checked="" type="checkbox"/> Other 93-037		

Title Documents requested by Laura Russel, Ecology during PFP inspection on 7/24/93

Unclassified Category UC- Impact Level

New or novel (patentable) subject matter? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", has disclosure been submitted by WHC or other company? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Disclosure No(s).	Information received from others in confidence, such as proprietary data, trade secrets, and/or inventions? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Identify)
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Title of Conference or Meeting N/A	Group or Society Sponsoring N/A
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N/A

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Classification/Uncontrolled Nuclear Information	<input type="checkbox"/>	<input checked="" type="checkbox"/>	JWBERRIN	<i>[Signature]</i>	10/4/93
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Applied Technology/Export Controlled Information or International Program	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Jim Brand	<i>[Signature]</i>	9/28/93
WHC Program/Project	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
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Information conforms to all applicable requirements. The above information is certified to be correct.

References Available to Intended Audience	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date Cancelled: 10/9/93  
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