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TO:       GERLACH\*ROSE M           10/10/2012

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ATTENTION: "REPLACE" directions do not affect the Table of Contents, Therefore no TOC will be issued with the updated material.

TRM1 - TECHNICAL REQUIREMENTS MANUAL UNIT 1

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# SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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# SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT B3.12.3

0 11/19/2002

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3.11 Radioactive Effluents

3.11.1 Liquid Effluents

3.11.1.4 Liquid Radwaste Effluent Monitoring Instrumentation

TRO 3.11.1.4 The Radioactive Liquid Radwaste Effluent Monitoring Instrumentation channels shown in Table 3.11.1.4-1 shall be OPERABLE with their setpoints established in accordance with the ODCM to ensure that the alarm/trip will occur prior to exceeding the limits of TRO 3.11.1.1.

APPLICABILITY: At all times.

ACTIONS

----- NOTE -----

1. Separate condition entry is allowed for each channel
  2. The provisions of TRO 3.0.4 are not applicable
- 

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more radioactive liquid effluent monitoring instrumentation alarm/trip channels setpoint less conservative than the limits allowed by TRO 3.11.1.1	A.1 Suspend the release of radioactive liquid effluents monitored by the affected channel	Immediately
	<u>OR</u> A.2 Declare the channel inoperable	Immediately

(continued)

## ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>B. Liquid Radwaste releases are necessary and Effluent Line Gross Radioactivity Monitoring Instrumentation inoperable.</p>	<p>B.1 Analyze at least two independent samples in accordance with TRO 3.11.1.1 <u>AND</u> B.2 Independently determine release rates for samples analyzed per Action B.1 <u>AND</u> B.3 Perform and independently verify discharge valve lineup <u>AND</u> B.4 Restore monitoring instrumentation</p>	<p>Prior to initiating each release.</p> <p>Prior to initiating each release.</p> <p>Prior to initiating each release.</p> <p>30 days</p>
<p>C. Liquid Radwaste releases are not in progress and the Gross Radioactivity Monitoring instrumentation is inoperable because the inoperable channel is caused by a discharge valve interlock in an off-normal condition or not functioning.</p>	<p>C.1 Maintain at least one isolation valve closed between each source of release and the liquid radwaste discharge valve.</p>	<p>Within 1 hour of securing from release or discovery of inoperable instrument.</p>

(continued)

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>D. Liquid Radwaste releases are necessary and Effluent Line or Cooling Tower Blowdown Flow Monitoring Instrumentation inoperable.</p>	<p>D.1 Estimate Flow Rate. <u>AND</u> D.2 Restore Monitoring Instrumentation.</p>	<p>Once per 4 hours during releases.  30 days</p>
<p>E. Liquid Radwaste releases are not in progress and cooling tower blowdown flow monitoring instrumentation is inoperable because the inoperable channel is a discharge valve interlock in an off-normal condition or not functioning.</p>	<p>E.1 Maintain at least one isolation valve closed between each source of release and the liquid radwaste discharge valve.</p>	<p>Within 1 hour of securing release or discovery of inoperable instrument.</p>
<p>F. Required Action and Associated Completion Time of Conditions B, C, D, or E not met.</p>	<p>F.1 -----NOTE----- Only applicable to Conditions B and D ----- Effluent releases via this pathway may continue (up to 45 days from initial TRO entry) provided that Required Actions B.1, B.2, B.3 and D.1 are performed as applicable (within associated Completion Times). Otherwise, suspend release of radioactive effluents via this pathway  <u>AND</u> F.2 Explain why the inoperability was not corrected in a timely manner.</p>	<p>Immediately          In the next Radioactive Effluent Release Report per TS Section 5.6</p>

## TECHNICAL REQUIREMENT SURVEILLANCE

----- NOTE -----  
Refer to Table 3.11.1.4-1 to determine which TRSs apply for each Monitoring Function.  
-----

SURVEILLANCE	FREQUENCY
TRS 3.11.1.4.1 Perform CHANNEL CHECK.	24 hours
TRS 3.11.1.4.2 Perform CHANNEL CHECK including a source check.	Prior to commencing release
TRS 3.11.1.4.3 Perform CHANNEL FUNCTIONAL TEST	92 days
TRS 3.11.1.4.4 Perform CHANNEL CALIBRATION	24 months

TABLE 3.11.1.4-1  
LIQUID RADWASTE EFFLUENT MONITORING INSTRUMENTATION

FUNCTION	REQUIRED CHANNELS	SURVEILLANCE REQUIREMENTS
1. GROSS RADIOACTIVITY MONITORS PROVIDING AUTOMATIC TERMINATION OF RELEASE		
a. Liquid Radwaste Effluent Line	1	TRS 3.11.1.4.2 TRS 3.11.1.4.3 TRS 3.11.1.4.4
2. FLOW RATE MEASUREMENT DEVICES		
a. Liquid Radwaste Effluent Line	1	TRS 3.11.1.4.1 <sup>(a)</sup> TRS 3.11.1.4.3 TRS 3.11.1.4.4
b. Cooling Tower Blowdown	1	TRS 3.11.1.4.1 <sup>(a)</sup> TRS 3.11.1.4.3 TRS 3.11.1.4.4

<sup>(a)</sup> Only required when performing batch releases.