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TO:       GERLACH\*ROSEY M           10/18/2016

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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

REMOVE MANUAL TABLE OF CONTENTS   DATE: 09/12/2016

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CATEGORY: DOCUMENTS   TYPE: TRM1

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NRR

ID: TEXT 3.11.2.6

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ID: TEXT LOES

REMOVE: REV:87

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## SSSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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**Title:** ELECTRICAL POWER BASES DEGRADED VOLTAGE PROTECTION

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Title: RADIOACTIVE EFFLUENTS BASES LAND USE CENSUS

TEXT B3.11.4.3 0 11/19/2002

Title: RADIOACTIVE EFFLUENTS BASES INTERLABORATORY COMPARISON PROGRAM

TEXT B3.12.1 1 10/04/2007

Title: LOADS CONTROL PROGRAM BASES CRANE TRAVEL-SPENT FUEL STORAGE POOL

TEXT B3.12.2 1 12/03/2010

Title: LOADS CONTROL PROGRAM BASES HEAVY LOADS REQUIREMENTS

## SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT B3.12.3

0

11/19/2002

Title: LOADS CONTROL PROGRAM BASES LIGHT LOADS REQUIREMENTS

SUSQUEHANNA STEAM ELECTRIC STATION  
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## 3.3 Instrumentation

## 3.3.4 TRM Post-Accident Monitoring Instrumentation

TRO 3.3.4 The TRM post-accident monitoring instrumentation channels shown in Table 3.3.4-1 shall be OPERABLE.

APPLICABILITY: According to Table 3.3.4-1

## ACTIONS

## -----NOTES-----

1. Separate condition entry is allowed for each Function.
2. The provisions of TRO 3.0.6 are not applicable.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more required channel inoperable.	A.1 Enter the Condition referenced in Table 3.3.4-1 for the channel.	Immediately
B. As required by Required Action A.1 and referenced in Table 3.3.4-1.	B.1 Initiate the preplanned alternate method of monitoring the appropriate parameter(s).	72 hours
	<u>AND</u> B.2 Restore the required channel to OPERABLE status.	7 days / 30 days <sup>(c)</sup>
C. As required by Required Action A.1 and referenced in Table 3.3.4-1	C.1 Restore the required channel(s) to OPERABLE status.	30 days
D. As required by Required Action A.1 and referenced in Table 3.3.4-1	D.1 Verify a minimum 14 of the associated acoustic monitor channels and 5 of the ADS SRV acoustic monitor channels are operable.	Immediately <u>AND</u> Once per 24 hours thereafter

<sup>(c)</sup> COMPLETION TIME for REQUIRED ACTION B.2 is extended from 7 to 30 days during construction activities associated with the replacement of SPING equipment with VERMS equipment.

## ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
	<u>OR</u>  D.2 Verify SRV tailpipe temperature indication and alarm are available for the tailpipe associated with the inoperable acoustic monitor.	Immediately  <u>AND</u> Once per 24 hours thereafter
	<u>OR</u>  D.3 Verify that the following alternate monitoring methods in TS Table 3.3.3.1-1 are OPERABLE: <ul style="list-style-type: none"> <li>• Function 1</li> <li>• Function 2</li> <li>• Function 3</li> <li>• Function 10</li> </ul>	Immediately  <u>AND</u> Once per 24 hours thereafter
	<u>AND</u>  D.4 Restore the required channel(s) to OPERABLE status.	30 days  <u>OR</u> At next outage with containment entry, not to exceed the next refueling outage for in-accessible containment components.

## TECHNICAL REQUIREMENT SURVEILLANCE

## ----- NOTES -----

1. Refer to Table 3.3.4-1 to determine which TRSs apply for each Post Accident Monitoring Function.
2. When a channel is placed in an inoperable status solely for performance of required Surveillances, entry into associated Conditions and Required Actions may be delayed for up to 6 hours provided an alternate means of monitoring the parameter or an associated function is available.

SURVEILLANCE	FREQUENCY
TRS 3.3.4.1 Perform CHANNEL CHECK	31 days
TRS 3.3.4.2 Perform CHANNEL FUNCTIONAL TEST	92 days
TRS 3.3.4.3 Perform a CHANNEL CALIBRATION. The Trip Setpoint shall be less than or equal to 0.25 of the full open noise level.	24 months
TRS 3.3.4.4 Perform CHANNEL CALIBRATION	24 months
TRS 3.3.4.5 Perform CHANNEL CALIBRATION of the Primary Containment H <sub>2</sub> and O <sub>2</sub> Analyzers.	92 days

TABLE 3.3.4-1  
TRM POST-ACCIDENT MONITORING INSTRUMENTATION

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS	CONDITIONS REFERENCED FROM REQUIRED ACTION A.1	REQUIRED SURVEILLANCE
1. Suppression Chamber Air Temperature	1,2	2	C	TRS 3.3.4.1 TRS 3.3.4.4
2. Main Steam Safety/Relief Valve Position Indicator (Acoustic Monitor)	1,2	1/valve	D	TRS 3.3.4.1 TRS 3.3.4.2 TRS 3.3.4.3
3. Reactor Building Vent Noble Gas Monitor				
a. Mid Range <sup>(b)</sup>	1,2, (a)	1	B	TRS 3.3.4.1 TRS 3.3.4.4
b. High Range <sup>(b)</sup>	1,2, (a)	1	B	TRS 3.3.4.1 TRS 3.3.4.4
4. Standby Gas Treatment System Vent Noble Gas Monitor				
a. Mid Range <sup>(b)</sup>	1,2, (a)	1	B	TRS 3.3.4.1 TRS 3.3.4.4
b. High Range <sup>(b)</sup>	1,2, (a)	1	B	TRS 3.3.4.1 TRS 3.3.4.4
5. Turbine Building Vent Noble Gas Monitor				
a. Mid Range(b)	1,2	1	B	TRS 3.3.4.1 TRS 3.3.4.4
b. High Range(b)	1,2	1	B	TRS 3.3.4.1 TRS 3.3.4.4

(continued)

TABLE 3.3.4-1 (continued)  
TRM POST-ACCIDENT MONITORING INSTRUMENTATION

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS	CONDITIONS REFERENCED FROM REQUIRED ACTION A.1	REQUIRED SURVEILLANCE
6. Standby Gas Treatment System Vent Stack Sampling System Flow				
a. Effluent System flow rate monitor <sup>(b)</sup>	1,2, (a)	1	C	TRS 3.3.4.1 TRS 3.3.4.4
b. Sample flow rate monitor <sup>(b)</sup> (Mid/High Range & Bypass)	1,2, (a)	1	C	TRS 3.3.4.1 TRS 3.3.4.4
7. Turbine Building Vent Stack Sampling System Flow				
a. Effluent System flow rate monitor <sup>(b)</sup>	1,2	1	C	TRS 3.3.4.1 TRS 3.3.4.4
b. Sample flow rate monitor <sup>(b)</sup> (Mid/High Range & Bypass)	1,2	1	C	TRS 3.3.4.1 TRS 3.3.4.4
8. Containment H <sub>2</sub> and O <sub>2</sub> Analyzer <sup>(b)</sup>	1,2	2	C	TRS 3.3.4.1 TRS 3.3.4.5

- (a) When moving irradiated fuel in the secondary containment.  
 (b) TRO 3.0.4.c is applicable.



## 3.11 Radioactive Effluents

## 3.11.2 Gaseous Effluents

## 3.11.2.6 Radioactive Gaseous Effluent Monitoring Instrumentation

TRO 3.11.2.6 The radioactive gaseous effluent monitoring instrumentation channels shown in Table 3.11.2.6-1 shall be OPERABLE with their setpoints established in accordance with the ODCM to ensure that the limits of Requirement 3.11.2.1 are not exceeded.

APPLICABILITY: According to Table 3.11.2.6-1

## ACTIONS

## NOTE

1. Separate condition entry is allowed for each channel.
2. The provisions of TRO 3.0.6 are not applicable.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Radioactive gaseous effluent monitoring instrumentation channel alarm/trip setpoint less conservative than required to ensure that the limits of Requirement 3.11.2.1 are not exceeded	A.1 Suspend the release of radioactive gaseous 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
B. Reactor Building Ventilation System Noble Gas Activity Monitor low range channel inoperable	B.1 Take grab samples  <u>AND</u>  B.2 Analyze grab samples for isotopic activity to the required LLDs for principal noble gas gamma emitters (Table 3.11.2.1-1)  <u>AND</u>  B.3 Restore monitoring instrumentation	Once per 8 hours while release is in progress.   Within 24 hours of grab sample   30 days
C. Deleted		
D. Reactor Building Ventilation Monitoring System Effluent System Flow Rate Monitor or Sampler Flow Rate Monitor inoperable	D.1 Estimate flow rate  <u>AND</u>  D.2 Restore monitoring instrumentation	Once per 4 hours while release is in progress   30 days

(continued)

## ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
E. Turbine Building Ventilation System Noble Gas Activity Monitor low range channel inoperable	E.1 Verify mechanical vacuum pump is not in operation	Immediately
	<u>AND</u>	
	E.2 Take grab samples	Once per 8 hours while release is in progress
	<u>AND</u>	
	E.3 Analyze grab samples for isotopic activity to the required LLDs for the principal noble gas gamma emitters (Table 3.11.2.1-1).	Within 24 hours after sample
	<u>AND</u>	
	E.4 Restore monitoring instrumentation	30 days
F. Deleted		
G. Turbine Building Ventilation Monitoring System: Effluent Flow Rate Monitor or Sample (Bypass or Low Range) Flow Rate Monitor inoperable	G.1 Estimate flow rate	Once per 4 hours while release is in progress.
	<u>AND</u>	
	G.2 Restore monitoring instrumentation	30 days

(continued)

## ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
H. Standby Gas Treatment System Noble Gas Activity Monitor low range channel inoperable	H.1 Take grab samples  <u>AND</u>  H.2 Analyze grab samples for isotopic activity to the required LLDs for principal noble gas gamma emitters (Table 3.11.2.1-1)  <u>AND</u>  H.3 Restore monitoring instrumentation	Once per 4 hours during operation of SGTS          Within 24 hours of grab sample being taken          30 days
I. Deleted		
J. SGTS Ventilation Monitoring System: Effluent flow rate monitor or sample (Bypass or Low Range) flow rate monitor inoperable	J.1 Estimate flow rate  <u>AND</u>  J.2 Restore monitoring instrumentation	Once per 4 hours during operation of SGTS          30 days

(continued)

## ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
K. Required Actions and Completion Times not met for Conditions B through J	K.1 Explain why this inoperability was not corrected in a timely manner	In the next Radioactive Effluent Release Report per TS Section 5.6

## TECHNICAL REQUIREMENT SURVEILLANCE

----- NOTE -----  
Refer to Table 3.11.2.6-1 to determine which TRSs apply for each Monitoring Function.

SURVEILLANCE	FREQUENCY
TRS 3.11.2.6.1 Perform CHANNEL CHECK	24 hours
TRS 3.11.2.6.2 Deleted	
TRS 3.11.2.6.3 Perform Source Check	31 days
TRS 3.11.2.6.4 Perform CHANNEL FUNCTIONAL TEST	92 days
TRS 3.11.2.6.5 Perform CHANNEL CALIBRATION	24 months

TABLE 3.11.2.6-1 (Page 1 of 3)  
RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION

FUNCTION	APPLICABILITY	REQUIRED CHANNELS	SURVEILLANCE REQUIREMENTS
1. REACTOR BUILDING VENTILATION MONITORING SYSTEM			
a. Noble Gas Activity Monitor (Low Range)	At all Times	1	TRS 3.11.2.6.1 TRS 3.11.2.6.3 TRS 3.11.2.6.4 TRS 3.11.2.6.5
b. Deleted			
c. Deleted			
d. Effluent System Flow Rate Monitor	At all Times	1	TRS 3.11.2.6.1 TRS 3.11.2.6.4 TRS 3.11.2.6.5
e. Sampler Flow Rate Monitor	At all Times	1	TRS 3.11.2.6.1 TRS 3.11.2.6.4 TRS 3.11.2.6.5

(continued)

TABLE 3.11.2.6-1 (Page 2 of 3)  
RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION

FUNCTION	APPLICABILITY	REQUIRED CHANNELS	SURVEILLANCE REQUIREMENTS
2. TURBINE BUILDING VENTILATION MONITORING SYSTEM			
a. Noble Gas Activity Monitor (Low Range)	At all Times	1	TRS 3.11.2.6.1 TRS 3.11.2.6.3 TRS 3.11.2.6.4 TRS 3.11.2.6.5
b. Deleted			
c. Deleted			
d. Effluent System Flow Rate Monitor	<u>At all Times</u>	1	TRS 3.11.2.6.1 TRS 3.11.2.6.4 TRS 3.11.2.6.5
e. Sample Flow Rate Monitor (Bypass)	At all Times	1	TRS 3.11.2.6.1 TRS 3.11.2.6.4 TRS 3.11.2.6.5
f. Sample Flow Rate Monitor (Low Range)	At all Times	1	TRS 3.11.2.6.1 TRS 3.11.2.6.4 TRS 3.11.2.6.5

(continued)

TABLE 3.11.2.6-1 (Page 3 of 3)  
RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION

FUNCTION	APPLICABILITY	REQUIRED CHANNELS	SURVEILLANCE REQUIREMENTS
3. STANDBY GAS TREATMENT SYSTEM (STGS) MONITOR			
a. Noble Gas Activity Monitor (Low Range)	During operation of SGTS <sup>(a)</sup>	1	TRS 3.11.2.6.1 TRS 3.11.2.6.3 TRS 3.11.2.6.4 TRS 3.11.2.6.5
b. Deleted			
c. Deleted			
d. Effluent System Flow Rate Monitor	During operation of SGTS <sup>(a)</sup>	1	TRS 3.11.2.6.1 TRS 3.11.2.6.4 TRS 3.11.2.6.5
e. Sample Flow Rate Monitor (Bypass)	During operation of SGTS <sup>(a)</sup>	1	TRS 3.11.2.6.1 TRS 3.11.2.6.4 TRS 3.11.2.6.5
f. Sample Flow Rate Monitor (Low Range)	During operation of SGTS <sup>(a)</sup>	1	TRS 3.11.2.6.1 TRS 3.11.2.6.4 TRS 3.11.2.6.5

<sup>(a)</sup> TRO 3.0.4.c is applicable.