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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: 07/17/2006

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A001

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SSSES MANUAL

1. Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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TRM1 text LOES
7/25/06

3.10 Miscellaneous

3.10.2 Shutdown Margin Test RPS Instrumentation

TRO 3.10.2 The Shutdown Margin Test RPS instrumentation for each Function in Table 3.10.2-1 shall be OPERABLE with "shorting links" removed.

APPLICABILITY: MODE 5, During shutdown margin demonstrations per LCO 3.1.1

ACTIONS

NOTES

Separate Condition entry is allowed for each channel.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more required channels inoperable	A.1 Enter the Condition referenced in Table 3.10.2-1 for the channel	Immediately
B. As required by Required Action A.1 and referenced in Table 3.10.2-1	B.1 Suspend all operations involving CORE ALTERATIONS and initiate actions to insert all insertable control rods	Immediately
C. As required by Required Action A.1 and referenced in Table 3.10.2-1	C.1 Restore RPS trip capability	1 hour
	<u>AND</u> C.2 Place channel in trip	12 hours
D. Required Action and associated Completion Times of Condition C not met <u>OR</u> Requirements of the TRO otherwise not met	D.1 Suspend all operations involving CORE ALTERATIONS and initiate actions to insert all insertable control rods	Immediately

TECHNICAL REQUIREMENT SURVEILLANCE

NOTES

1. Refer to Table 3.10.2-1 to determine which TRSs apply for each TRM RPS Instrumentation 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 the trip function is maintained.

SURVEILLANCE	FREQUENCY
TRS 3.10.2.1 Verify SRM is OPERABLE per TRO 3.1.3 "Control Rod Block Instrumentation"	12 hours
TRS 3.10.2.2 Verify that the RPS circuitry "shorting links" have been removed	12 hours
TRS 3.10.2.3 Perform CHANNEL FUNCTIONAL TEST	7 days
TRS 3.10.2.4 Perform LOGIC SYSTEM FUNCTIONAL TEST with "shorting links" removed	184 days
TRS 3.10.2.5 Perform CHANNEL CALIBRATION	24 months
TRS 3.10.2.6 Perform LOGIC SYSTEM FUNCTIONAL TEST	24 months

TABLE 3.10.2-1
TRM RPS INSTRUMENTATION

FUNCTION	REQUIRED CHANNELS PER TRIP SYSTEM	CONDITIONS REFERENCED FROM REQUIRED ACTION A.1	SURVEILLANCE REQUIREMENTS	ALLOWABLE VALUE
1. Source Range Monitor	(a)	B	TRS 3.10.2.1 TRS 3.10.2.2 TRS 3.10.2.3 TRS 3.10.2.4 TRS 3.10.2.5	$\leq 3.3E5$ CPS
2. Intermediate Range Monitor				
a. Neutron Flux-High	6	C	TRS 3.10.2.2 TRS 3.10.2.4	(b)
b. Inop	6	C	TRS 3.10.2.2 TRS 3.10.2.4	N/A
3. Average Power Range Monitor ¹				
a. Neutron Flux-High (Setdown)	(b)	C	TRS 3.10.2.2 TRS 3.10.2.6	(b)
b. Inop	(b)	C	TRS 3.10.2.2 TRS 3.10.2.6	N/A
c. 2-Out-of-4 Voter	(b)	C	TRS 3.10.2.2 TRS 3.10.2.6	N/A

¹ APRM not required for mode 5 as per LCO 3.3.1.1, but is required for other conditions during shutdown margin demonstrations required per LCO 3.1.1.

(a) As specified in LCO 3.3.1.2

(b) As specified in LCO 3.3.1.1

3.11 Radioactive Effluents

3.11.4 Radiological Environmental Monitoring

3.11.4.1 Monitoring Program

TRO 3.11.4.1 The radiological environmental monitoring program shall be conducted as specified in Table 3.11.4.1-1.

APPLICABILITY: At all times

ACTIONS

NOTE

1. The provisions of TRO 3.0.4 are not applicable.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Radiological Environmental monitoring program not being conducted as specified in Table 3.11.4.1-1	A.1. Generate a Condition Report to describe the deficiency and any actions taken to prevent their recurrence in the applicable Annual Radiological Environmental Operating Report	72 hours
B. The average level of radioactivity over any calendar quarter as the result of an individual radionuclide in plant effluents in a particular environmental exposure pathway in a particular environmental sampling medium, at a specified location exceeds the applicable reporting level of Table 3.11.4.1-2	B.1 Generate a Condition Report to prepare and submit a Special Report to the Commission within 30 days of identification of the Condition.	72 hours

(continued)

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>C. More than one of the radionuclides in Table 3.11.4.1-2 are detected in a particular environmental exposure pathway at a specified monitoring location and are the result of plant effluents</p> <p><u>AND</u></p> <p>The sum of the ratios of the quarterly average activity levels to their corresponding reporting levels of each detected radionuclide, from Table 3.11.4.1-2, is ≥ 1.0</p>	<p>C.1 Generate a Condition Report to prepare and submit a Special Report to the Commission within 30 days of identification of the Condition.</p>	72 hours

(continued)

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>D. One or more Radionuclide(s) other than those in Table 3.11.4.1-2 are detected in a particular environmental exposure pathway at a specified location and are the result of plant effluents</p> <p><u>AND</u></p> <p>The potential annual dose to a MEMBER OF THE PUBLIC from all detected radionuclides that are the result of plant effluents is greater than or equal to the calendar year limits of TROs 3.11.1.2, 3.11.2.2 and 3.11.2.3</p>	<p>D.1 Generate a Condition Report to prepare and submit a Special Report to the Commission within 30 days of identification of the Condition.</p>	72 hours
<p>E. All requirements for a Special Report per either Condition B, C, or D are met except that the radionuclides detected are not the result of plant effluents</p>	<p>E.1 Generate a Condition Report to describe the reasons for not attributing identified radionuclides to plant effluents in the applicable Annual Radiological Environmental Operating Report.</p>	72 hours

(continued)

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
F. Milk or fresh leafy vegetable samples are unavailable from one or more of the sample locations required by Table 3.11.4.1-1	----- NOTE ----- The specific locations from which samples were unavailable may then be deleted from the monitoring program.	
	F.1 Generate a Condition Report to identify locations for obtaining replacement samples and to add them to the radiological environmental monitoring program within 30 days of identification of the Condition	72 hours
	<u>AND</u> F.2 Generate a Condition Report to identify the cause of the unavailability of samples and to identify the new location(s) for obtaining replacement samples in the applicable Radioactive Effluent Release Report	72 hours

NOTE: The provisions of TRS 3.0.3 are not applicable to the below surveillances.

TECHNICAL REQUIREMENT SURVEILLANCE

SURVEILLANCE		FREQUENCY
TRS 3.11.4.1.1	Collect the radiological environmental monitoring samples pursuant to Table 3.11.4.1-1	As required by Table 3.11.4.1-1
TRS 3.11.4.1.2	Analyze samples pursuant to the requirements of Table 3.11.4.1-1 with equipment meeting the detection capabilities required by Table 3.11.4.1-3	As required by Table 3.11.4.1-1
TRS 3.11.4.1.3	Determine annual cumulative potential dose contributions from radionuclides detected in environmental samples in accordance with the methodology and parameters in the ODCM.	Annually

TABLE 3.11.4.1-1 (Page 1 of 3)
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

EXPOSURE PATHWAY AND/OR SAMPLE	NUMBER OF REPRESENTATIVE SAMPLES AND SAMPLE LOCATIONS	SAMPLING AND COLLECTION FREQUENCY	TYPE AND FREQUENCY OF ANALYSIS
1. DIRECT RADIATION	40 routine monitoring stations with two or more dosimeters or with one instrument for measuring and recording dose rate continuously placed as follows: <ol style="list-style-type: none"> 1. An inner ring of stations, one in each meteorological sector, in the general area of the SITE BOUNDARY 2. An outer ring of stations, one in each meteorological sector, in the 3 to 9 mile range from the site 3. The balance of the stations placed in special interest areas such as population centers, nearby residences, schools, and in 1 or 2 areas to serve as control stations 	Quarterly	Gamma dose quarterly
2. AIRBORNE			
Radioiodine and Particulates	Samples from 5 locations <ol style="list-style-type: none"> a. 1 sample from close to each of the 3 SITE BOUNDARY locations (in different sectors) with the highest calculated annual average groundlevel γ/Q b. 1 sample from the vicinity of the community having one of the highest calculated annual ground level γ/Q c. 1 sample from a control location, between 15 and 30 km distant and in the least prevalent wind direction of wind blowing from the plant 	Continual sampler operation with sample collection weekly, or more frequently if required by dust loading.	<u>Radioiodine Canister:</u> I-131 Analysis weekly <u>Particulate Sampler:</u> Gross Beta radio activity analysis following filter change ^(a) Gamma isotopic analysis of composite (by location) quarterly

(continued)

(a) Airborne particulate sample filters shall be analyzed for gross beta radioactivity 24 hours or more after sampling to allow for radon and thorn daughter decay. If gross beta activity in air particulate samples is greater than ten times the yearly mean of control samples, gamma isotopic analysis shall be performed on the individual samples.

TABLE 3.11.4.1-1 (Page 2 of 3)
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

EXPOSURE PATHWAY AND/OR SAMPLE	NUMBER OF REPRESENTATIVE SAMPLES AND SAMPLE LOCATIONS	SAMPLING AND COLLECTION FREQUENCY	TYPE AND FREQUENCY OF ANALYSIS
3. WATERBORNE			
a. Surface	1 sample upstream 1 sample downstream	Composite sample over one-month period	Gamma isotopic analysis monthly. Composite for tritium analyses quarterly
b. Ground	Samples from 1 or 2 sources only if likely to be affected	Quarterly	Gamma isotopic and tritium analyses quarterly
c. Drinking	1 sample from each of 1 to 3 of the nearest water supplies that could be affected by its discharge 1 sample from a control location	Composite sample over 2-week period when I-131 analysis is performed, monthly composite otherwise	I-131 analysis on each composite when the dose calculated for the consumption of the water is greater than 1 mrem per year. Composite for gross beta and gamma isotopic analyses monthly. Composite for tritium analyses quarterly
d. Sediment from shoreline	1 sample from downstream area with existing or potential recreational value	Semiannually	Gamma isotopic analyses semiannually

(continued)

TABLE 3.11.4.1-1 (Page 3 of 3)
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

EXPOSURE PATHWAY AND/OR SAMPLE	NUMBER OF REPRESENTATIVE SAMPLES AND SAMPLE LOCATIONS	SAMPLING AND COLLECTION FREQUENCY	TYPE AND FREQUENCY OF ANALYSIS
4. INGESTION			
a. Milk	<p>a. Samples from milking animals in 3 locations within 5km from the plant having the highest dose potential. If there are none, then, 1 sample from milking animals in each of 3 areas between 5 and 8km distant where doses are calculated to be greater than 1 mrem per year.</p> <p>1 sample from milking animals at a control location (between 15 and 30km from the plant preferably in the least prevalent direction for wind blowing from the plant).</p>	Semimonthly when animals are on pasture, monthly at other times.	Gamma isotopic and I-131 analysis semimonthly when animals are on pasture; monthly at other times.
b. Fish and/or Invertebrates	<p>b. 1 sample of each of two recreationally important species in vicinity of plant discharge area.</p> <p>1 sample of same species in areas not influenced by plant discharge.</p>	Sample in season, or semiannually if they are not seasonal.	Gamma isotopic analysis on edible portions.
c. Food Products	<p>c. 1 sample of each principal class of food products from any area which is irrigated by water in which liquid plant wastes have been discharged.</p> <p>Samples of 3 different kinds of broad leaf vegetation grown nearest each of two different offsite locations of highest predicted annual average ground level D/Q if milk sampling is not performed.</p> <p>1 sample of each of the similar broad leaf vegetation grown between 15 to 30km from the plant, preferably, in the least prevalent direction for wind blowing from the plant if milk sampling is not performed.</p>	<p>At time of harvest</p> <p>Monthly when available</p> <p>Monthly when available</p>	<p>Gamma isotopic analysis on edible portions.</p> <p>Gamma isotopic and I-131 analysis.</p> <p>Gamma isotopic and I-131 analysis.</p>

TABLE 3.11.4.1-2
REPORTING LEVELS FOR RADIOACTIVITY CONCENTRATIONS IN ENVIRONMENTAL SAMPLES
Reporting Levels

Analysis	Water (pCi/l)	Airborne Particulate or Gases (pCi/m ³)	Fish (pCi/kg, wet)	Milk (pCi/l)	Food Products (pCi/kg, wet)
H-3	20,000 ^(a)				
Mn-54	1,000		30,000		
Fe-59	400		10,000		
Co-58	1,000		30,000		
Co-60	300		10,000		
Zn-65	300		20,000		
Zr-Nb-95	400 ^(b)				
I-131	2	0.9		3	100
Cs-134	30	10	1,000	60	1,000
Cs-137	50	20	2,000	70	2,000
Ba-La-140	200 ^(b)			300	

(a) For drinking water samples. This is 40 CFR Part 141 value. If no drinking water pathway exists, a value of 30,000 pCi/l may be used.

(b) Total for parent and daughter.

TABLE 3.11.4.1-3
DETECTION CAPABILITIES FOR ENVIRONMENTAL SAMPLE ANALYSIS
LOWER LIMIT OF DETECTION (LLD)

Analysis	Water (pCi/l)	Airborne Particulate Or Gases (pCi/m ³)	Fish (pCi/kg, wet)	Milk (pCi/l)	Food Products (pCi/kg, wet)	Sediments (pCi/kg, dry)
Gross Beta	4	0.01				
H-3	2000					
Mn-54	15		130			
Fe-59	30		260			
Co-58, 60	15		130			
Zn-65	30		260			
Zr-95	30					
Nb-95	15					
I-131	1 ^(a)	0.07		1	60	
Cs-134	15	0.05	130	15	60	150
Cs-137	18	0.06	150	18	80	180
Ba-140	60			60		
La-140	15			15		

(a) LLD drinking water samples