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TRM1 - TECHNICAL REQUIREMENTS MANUAL UNIT 1

REMOVE MANUAL TABLE OF CONTENTS DATE: 04/23/2002

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A001

TRM

APPROVED AMENDMENT TO

UNIT 1 TECHNICAL REQUIREMENTS MANUAL

EFFECTIVE DATE 06/05/2002

Replace the following pages of the Technical Requirements Manual with the enclosed pages. The revised pages are identified by Effective Date and contain vertical lines indicating the area of change.

REMOVE PAGES	EFFECTIVE DATE	INSERT PAGES	EFFECTIVE DATE
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3.10-5 and 3.10-6	8/31/1998	TRM / 3.10-5 and TRM / 3.10-6	06/05/2002

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CONTROL ROD BLOCK INSTRUMENTATION

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS PER TRIP FUNCTION	CONDITIONS REFERENCED FROM REQUIRED ACTION A.1	SURVEILLANCE REQUIREMENTS	ALLOWABLE VALUE
1. APRM					
a. Neutron Flux - High Setdown	2, 5[a]	4	B	TRS 3.1.3.1 TRS 3.1.3.4 TRS 3.1.3.5	≤ 14% RTP
b. Flow Biased Simulated Thermal Power - High	1	4	B	TRS 3.1.3.1 TRS 3.1.3.2 TRS 3.1.3.4 TRS 3.1.3.5	See COLR TRO 3.2[b]
c. Fixed Neutron Flux - High	1	4	B	TRS 3.1.3.1 TRS 3.1.3.4 TRS 3.1.3.5	≤ 111% RTP
d. Downscale	1	4	B	TRS 3.1.3.1 TRS 3.1.3.4 TRS 3.1.3.5	≥ 3% RTP
e. Inop	1, 2	4	B	TRS 3.1.3.4	NA
	5[a]	4	B	TRS 3.1.3.4	NA
2. Source Range Monitors					
a. Detector not full in	2[c]	3	B	TRS 3.1.3.3 TRS 3.1.3.7	NA
	5	2	B	TRS 3.1.3.3 TRS 3.1.3.7	NA
b. Upscale	2[d]	3	B	TRS 3.1.3.3 TRS 3.1.3.6 TRS 3.1.3.7	≤ 4E5 cps
	5	2	B	TRS 3.1.3.3 TRS 3.1.3.6 TRS 3.1.3.7	≤ 4E5 cps
c. Inop	2[d]	3	B	TRS 3.1.3.3 TRS 3.1.3.7	NA
	5	2	B	TRS 3.1.3.3 TRS 3.1.3.7	NA

(continued)

(a) When performing Shutdown Margin Demonstration per Technical Specification 3.10.8.
(b) See COLR for single loop operation per Technical Specification 3.4.1, Recirculation Loops Operating
(c) When not automatically bypassed with SRM counts ≥ 100 cps or the IRM channels on range 3 or higher.
(d) When not automatically bypassed with IRM channels on range 8 or higher.

TABLE 3.1.3-1 (Page 2 of 2)
CONTROL ROD BLOCK INSTRUMENTATION

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS PER TRIP FUNCTION	CONDITIONS REFERENCED FROM REQUIRED ACTION A.1	SURVEILLANCE REQUIREMENTS	ALLOWABLE VALUE
d. Downscale	2[e]	3	B	TRS 3.1.3.3 TRS 3.1.3.6 TRS 3.1.3.7	≥ 0.5 cps[f]
	5[i]	2	B	TRS 3.1.3.3 TRS 3.1.3.6 TRS 3.1.3.7	≥ 0.5 cps[f]
3. Intermediate Range Monitors					
a. Detector not full in	2, 5	6	B	TRS 3.1.3.3 TRS 3.1.3.7	NA
b. Neutron Flux - High	2, 5	6	B	TRS 3.1.3.1 TRS 3.1.3.3 TRS 3.1.3.5 TRS 3.1.3.7	≤ 110/125 divisions of full scale
c. Inop	2, 5	6	B	TRS 3.1.3.3 TRS 3.1.3.7	NA
d. Downscale	2[g] 5	6	B	TRS 3.1.3.1 TRS 3.1.3.3 TRS 3.1.3.5 TRS 3.1.3.7	3/125 divisions of full scale
4. Scram Discharge Volume Water Level - High	1, 2, 5[h]	2	C	TRS 3.1.3.4 TRS 3.1.3.6	≤ 36.5 gallons
5. Reactor Coolant System Recirculation Flow					
a. Upscale	1	2	C	TRS 3.1.3.4 TRS 3.1.3.5	≤ 117/125 divisions of full scale
b. Inop	1	2	C	TRS 3.1.3.4	NA
c. Comparator	1	2	C	TRS 3.1.3.4 TRS 3.1.3.5	≤ 11% flow deviation

(e) When not automatically bypassed with IRMs on range 3 or higher.
(f) Provided signal-to-noise ratio is ≥ 2. Otherwise ≥ 2.8 cps.
(g) When not automatically bypassed with IRM channels on range 1.
(h) When more than one control rod is withdrawn. Not applicable to control rods removed per Technical Specification 3.10.5 or 3.10.6.
(i) Not required when eight or fewer fuel assemblies (adjacent to the SRMs) are in the core.

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 3.10.2.5	Perform CHANNEL CALIBRATION	24 months
TRS 3.10.2.4	Perform LOGIC SYSTEM FUNCTIONAL TEST with "shorting links" removed	184 days

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	≤ 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				
a. Neutron Flux-High, Setdown	4	C	TRS 3.10.2.2 TRS 3.10.2.4	(b)
b. Inop	4	C	TRS 3.10.2.2 TRS 3.10.2.4	N/A

(a) As specified in LCO 3.3.1.2

(b) As specified in LCO 3.3.1.1