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USER INFORMATION

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TO: GERLACH\*ROSE M 01/30/2006

LOCATION: [REDACTED]

FROM: NUCLEAR RECORDS DOCUMENT CONTROL CENTER (NUCSA-2)

THE FOLLOWING CHANGES HAVE OCCURRED TO THE HARDCOPY OR ELECTRONIC MANUAL ASSIGNED TO YOU. HARDCOPY USERS MUST ENSURE THE DOCUMENTS PROVIDED MATCH THE INFORMATION ON THIS TRANSMITTAL. WHEN REPLACING THIS MATERIAL IN YOUR HARDCOPY MANUAL, ENSURE THE UPDATE DOCUMENT ID IS THE SAME DOCUMENT ID YOU'RE REMOVING FROM YOUR MANUAL. TOOLS FROM THE HUMAN PERFORMANCE TOOL BAG SHOULD BE UTILIZED TO ELIMINATE THE CHANCE OF ERRORS.

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

TRM1 - TECHNICAL REQUIREMENTS MANUAL UNIT 1

REMOVE MANUAL TABLE OF CONTENTS DATE: 01/18/2006

ADD MANUAL TABLE OF CONTENTS DATE: 01/27/2006

CATEGORY: DOCUMENTS TYPE: TRM1

ID: TEXT 3.3.6

REPLACE: REV:2

ANY DISCREPANCIES WITH THE MATERIAL PROVIDED, CONTACT DCS @ X3107 OR X3136 FOR ASSISTANCE. UPDATES FOR HARDCOPY MANUALS WILL BE DISTRIBUTED WITHIN 5 DAYS IN ACCORDANCE WITH DEPARTMENT PROCEDURES. PLEASE MAKE ALL CHANGES AND ACKNOWLEDGE COMPLETE IN YOUR NIMS INBOX UPON COMPLETION OF UPDATES. FOR ELECTRONIC MANUAL USERS, ELECTRONICALLY REVIEW THE APPROPRIATE DOCUMENTS AND ACKNOWLEDGE COMPLETE IN YOUR NIMS INBOX.

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## 3.3 Instrumentation

## 3.3.6 TRM Isolation Actuation Instrumentation

TRO 3.3.6 The TRM containment isolation instrumentation for each Function in Table 3.3.6-1 shall be OPERABLE.

APPLICABILITY: As specified in Table 3.3.6-1

## ACTIONS

## NOTES

1. Penetration flow paths isolated to comply with Action C may be unisolated intermittently under administrative controls.
2. Separate Condition entry is allowed for each channel.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more required channels inoperable	A.1 Place channel in trip.	12 hours for Function 1.a and 2.a  <u>AND</u>  24 hours for Functions other than Functions 1.a and 2.a
B. One or more Functions with isolation capability not maintained.	B.1 Restore isolation capability.	1 hour
C. Required Action and associated Completion Time of Condition A or B not met.	C.1 Initiate appropriate compensatory measures for the degraded condition.	24 hours

## TECHNICAL REQUIREMENT SURVEILLANCE

## NOTES

1. Refer to Table 3.3.6-1 to determine which TRSs apply for each TRM Isolation Actuation 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 associated function maintains isolation capability.

SURVEILLANCE	FREQUENCY
TRS 3.3.6.1 Perform CHANNEL CHECK	12 hours
TRS 3.3.6.2 Perform CHANNEL FUNCTIONAL TEST	92 days
TRS 3.3.6.3 Perform CHANNEL CALIBRATION	92 days
TRS 3.3.6.4 Perform CHANNEL CALIBRATION	24 months
TRS 3.3.6.5 Perform LOGIC SYSTEM FUNCTIONAL TEST	24 months
TRS 3.3.6.6 Perform RESPONSE TIME TEST	24 months on a staggered test basis

TABLE 3.3.6-1 (Page 1 of 2)  
PRIMARY CONTAINMENT ISOLATION INSTRUMENTATION

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS PER TRIP SYSTEM	SURVEILLANCE REQUIREMENTS	ALLOWABLE VALUE
1. Main Steam Line Isolation				
a. Reactor Building Main Steam Tunnel $\Delta$ Temperature - High	1,2,3	2	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	$\leq 108^{\circ}\text{F}$
b. Turbine Building Main Steam Line Tunnel Temperature - High	1,2,3	2	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	$\leq 200^{\circ}\text{F}$
2. Primary Containment Isolation				
a. Main Steam Line Radiation - High, High	1,2,3	2	TRS 3.3.6.1 TRS 3.3.6.2 TRS 3.3.6.4 TRS 3.3.6.5 TRS 3.3.6.6 <sup>(a)</sup>	$\leq 21 \times$ full power background without hydrogen injection
3. High Pressure Coolant Injection (HPCI) System Isolation				
a. HPCI Pipe Routing Area $\Delta$ Temperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	$\leq 98^{\circ}\text{F}$
b. HPCI Equipment Room $\Delta$ Temperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	$\leq 98^{\circ}\text{F}$

(continued)

<sup>(a)</sup> Radiation detectors are exempt from response time testing.

TABLE 3.3.6-1 (Page 2 of 2)  
PRIMARY CONTAINMENT ISOLATION INSTRUMENTATION

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS PER TRIP SYSTEM	SURVEILLANCE REQUIREMENTS	ALLOWABLE VALUE
4. Reactor Core Isolation Cooling (RCIC) System Isolation				
a. RCIC Pipe Routing Area $\Delta$ Temperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	$\leq 98^{\circ}\text{F}$
b. RCIC Equipment Room $\Delta$ Temperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	$\leq 98^{\circ}\text{F}$
5. Reactor Water Cleanup (RWCU) System Isolation				
a. RWCU Penetration Area $\Delta$ Temperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	$\leq 72^{\circ}\text{F}$
b. RWCU Pump Area $\Delta$ Temperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	$\leq 72^{\circ}\text{F}$
c. RWCU Heat Exchanger Area $\Delta$ Temperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	$\leq 72^{\circ}\text{F}$
6. Shutdown Cooling System Isolation (a)				
a. RHR Flow - High	3,4,5	1	TRS 3.3.6.1 TRS 3.3.6.2 TRS 3.3.6.4 TRS 3.3.6.5	$\leq 26,000$ gpm

(a) Not required when the penetration is isolated from the reactor vessel via manual isolation valve, blind flange, or deactivated auto isolation valve.

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USER INFORMATION:

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TRANSMITTAL INFORMATION:

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TO: GERLACH\*ROSE M      01/30/2006

LOCATION: USNRC

FROM: NUCLEAR RECORDS DOCUMENT CONTROL CENTER (NUCSA-2)

THE FOLLOWING CHANGES HAVE OCCURRED TO THE HARDCOPY OR ELECTRONIC MANUAL ASSIGNED TO YOU. HARDCOPY USERS MUST ENSURE THE DOCUMENTS PROVIDED MATCH THE INFORMATION ON THIS TRANSMITTAL. WHEN REPLACING THIS MATERIAL IN YOUR HARDCOPY MANUAL, ENSURE THE UPDATE DOCUMENT ID IS THE SAME DOCUMENT ID YOU'RE REMOVING FROM YOUR MANUAL. TOOLS FROM THE HUMAN PERFORMANCE TOOL BAG SHOULD BE UTILIZED TO ELIMINATE THE CHANCE OF ERRORS.

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

TRM2 - TECHNICAL REQUIREMENTS MANUAL UNIT 2

REMOVE MANUAL TABLE OF CONTENTS    DATE: 01/13/2006

ADD      MANUAL TABLE OF CONTENTS    DATE: 01/27/2006

CATEGORY: DOCUMENTS    TYPE: TRM2

ID: TEXT 3.3.6

REPLACE:    REV:2

ANY DISCREPANCIES WITH THE MATERIAL PROVIDED, CONTACT DCS @ X3107 OR X3136 FOR ASSISTANCE. UPDATES FOR HARDCOPY MANUALS WILL BE DISTRIBUTED WITHIN 5 DAYS IN ACCORDANCE WITH DEPARTMENT PROCEDURES. PLEASE MAKE ALL CHANGES AND ACKNOWLEDGE COMPLETE IN YOUR NIMS INBOX UPON COMPLETION OF UPDATES. FOR ELECTRONIC MANUAL USERS, ELECTRONICALLY REVIEW THE APPROPRIATE DOCUMENTS AND ACKNOWLEDGE COMPLETE IN YOUR NIMS INBOX.

## 3.3 Instrumentation

## 3.3.6 TRM Isolation Actuation Instrumentation

TRO 3.3.6 The TRM containment isolation instrumentation for each Function in Table 3.3.6-1 shall be OPERABLE.

APPLICABILITY: As specified in Table 3.3.6-1

## ACTIONS

## NOTES

1. Penetration flow paths isolated to comply with Action C may be unisolated intermittently under administrative controls.
2. Separate Condition entry is allowed for each channel.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more required channels inoperable	A.1 Place channel in trip.	12 hours for Function 1.a and 2.a  <u>AND</u> 24 hours for Functions other than Functions 1.a and 2.a
B. One or more Functions with isolation capability not maintained.	B.1 Restore isolation capability.	1 hour
C. Required Action and associated Completion Time of Condition A or B not met.	C.1 Initiate appropriate compensatory measures for the degraded condition.	24 hours

## TECHNICAL REQUIREMENT SURVEILLANCE

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

1. Refer to Table 3.3.6-1 to determine which TRSs apply for each TRM Isolation Actuation 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 associated function maintains isolation capability.

SURVEILLANCE		FREQUENCY
TRS 3.3.6.1	Perform CHANNEL CHECK	12 hours
TRS 3.3.6.2	Perform CHANNEL FUNCTIONAL TEST	92 days
TRS 3.3.6.3	Perform CHANNEL CALIBRATION	92 days
TRS 3.3.6.4	Perform CHANNEL CALIBRATION	24 months
TRS 3.3.6.5	Perform LOGIC SYSTEM FUNCTIONAL TEST	24 months
TRS 3.3.6.6	Perform RESPONSE TIME TEST	24 months on a staggered test basis



TABLE 3.3.6-1 (Page 1 of 2)  
PRIMARY CONTAINMENT ISOLATION INSTRUMENTATION

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS PER TRIP SYSTEM	SURVEILLANCE REQUIREMENTS	ALLOWABLE VALUE
1. Main Steam Line Isolation				
a. Reactor Building Main Steam Tunnel $\Delta$ Temperature - High	1,2,3	2	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	$\leq 108^{\circ}\text{F}$
b. Turbine Building Main Steam Line Tunnel Temperature - High	1,2,3	2	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	$\leq 200^{\circ}\text{F}$
2. Primary Containment Isolation				
a. Main Steam Line Radiation - High High	1,2,3	2	TRS 3.3.6.1 TRS 3.3.6.2 TRS 3.3.6.4 TRS 3.3.6.5 TRS 3.3.6.6 <sup>(a)</sup>	$\leq 21 \times$ full power background without hydrogen injection
3. High Pressure Coolant Injection (HPCI) System Isolation				
a. HPCI Pipe Routing Area $\Delta$ Temperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	$\leq 98^{\circ}\text{F}$
b. HPCI Equipment Room $\Delta$ Temperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	$\leq 98^{\circ}\text{F}$

(continued)

<sup>(a)</sup> Radiation detectors are exempt from response time testing.

TABLE 3.3.6-1 (Page 2 of 2)  
PRIMARY CONTAINMENT ISOLATION INSTRUMENTATION

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS PER TRIP SYSTEM	SURVEILLANCE REQUIREMENTS	ALLOWABLE VALUE
4. Reactor Core Isolation Cooling (RCIC) System Isolation				
a. RCIC Pipe Routing Area $\Delta$ Temperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	$\leq 98^{\circ}\text{F}$
b. RCIC Equipment Room $\Delta$ Temperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	$\leq 98^{\circ}\text{F}$
5. Reactor Water Cleanup (RWCU) System Isolation				
a. RWCU Penetration Area $\Delta$ Temperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	$\leq 72^{\circ}\text{F}$
b. RWCU Pump Area $\Delta$ Temperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	$\leq 72^{\circ}\text{F}$
c. RWCU Heat Exchanger Area $\Delta$ Temperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	$\leq 72^{\circ}\text{F}$
6. Shutdown Cooling System Isolation (a)				
a. RHR Flow - High	3,4,5	1	TRS 3.3.6.1 TRS 3.3.6.2 TRS 3.3.6.4 TRS 3.3.6.5	$\leq 26,000$ gpm

(a) Not required when the penetration is isolated from the reactor vessel via manual isolation valve, blind flange, or deactivated auto isolation valve.