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TO: CHADACH ROSE M 01/30/2006 LOCATION: CALIFORNIA

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

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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

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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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PPL Rev. 2	TRM Isolation Actuation Instrumentation 3.3.6
3.3 Instrumentation	
3.3.6 TRM Isolation Actuation Instrumentation	
TRO 3.3.6 The TRM containment isolation instru- Table 3.3.6-1 shall be OPERABLE.	umentation for each Function in
APPLICABILITY: As specified in Table 3.3.6-1	
ACTIONS	
NOTES	
1. Penetration flow paths isolated to comply with under administrative controls.	n Action C may be unisolated intermittently

2. Separate Condition entry is allowed for each channel.

	CONDITION		REQUIRED ACTION	COMPLETION TIME	
Α.	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	

EFFECTIVE DATE 09/13/2005

PPL Rev. 2

# 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

		FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS PER TRIP SYSTEM	SURVEILLANCE REQUIREMENTS	ALLOWABLE VALUE	
1.	Ma	in Steam Line Isolation				1	1
	а.	Reactor Building Main Steam Tunnel ∆ Temperature - High	1,2,3	2	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	≤ 108°F	
	<b>b.</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	≤ 200°F	
2.	Prir Isol	mary Containment lation		¢			
	а.	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>	≤ 21 x full power background without hydrogen injection	:
3.	Hig Inje Isol	h Pressure Coolant ection (HPCI) System lation					
	а.	HPCI Pipe Routing Area ∆ Temperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	≤ 98°F	
	b.	HPCI Equipment Room ∆ Temperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	≤ 98°F	

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

(continued)

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

SUSQUEHANNA - UNIT 1

No.

## EFFECTIVE DATE 10/22/2003

TRM Isolation Actuation Instrumentation 3.3.6

# PPL Rev. 2

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		FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS PER TRIP SYSTEM	SURVEILLANCE REQUIREMENTS	ALLOWABLE VALUE
. 4.	Re Co Iso	actor Core Isolation oling (RCIC) System lation				
	а.	RCIC Pipe Routing Area ∆ Temperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	≤ 98°F
	b.	RCIC Equipment Room ∆ Temperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	≤ 98°F
5.	Re (R\	actor Water Cleanup WCU) System Isolation				
	а.	RWCU Penetration Area ∆ Temperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	≤ 72°F
	b.	RWCU Pump Area ∆ Temperature - High	<sup>-</sup> 1,2,3	<u>    1</u>	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	≤ 72°F
	C.	RWCU Heat Exchanger Area ∆ Temperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	≤ 72°F
6.	Sh	utdown Cooling System Isolation (a)				
	а.	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	≤ 26,000 gpm

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

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

SUSQUEHANNA - UNIT 1

## EFFECTIVE DATE 06/27/2001

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Jan. 30, 2006

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USER INFORMATION:

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TRANSMITTAL INFORMATION:

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 3E UTILIZED TO ELIMINATE THE CHANCE OF ERRORS.

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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.

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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------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
Α.	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
В.	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

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## 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

		FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS PER TRIP SYSTEM	SURVEILLANCE REQUIREMENTS	ALLOWABLE VALUE
1.	Ma Isol	in Steam Line lation				
	a.	Reactor Building Main Steam Tunnel ∆ Temperature - High	1,2,3	2	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	≤ 108°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	≤ 200°F
2.	Prir Isol	mary Containment lation				
	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>	≤ 21 x full power background without hydrogen injection
3.	Hig Inje Isol	h Pressure Coolant ection (HPCI) System lation	-			
	<b>a.</b> ,	HPCI Pipe Routing Area ∆ Temperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	≤ 98°F
	b.	HPCI Equipment Room ∆ Temperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	≤ 98°F

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

(continued)

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

SUSQUEHANNA - UNIT 2

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TRM / 3.3-15

## EFFECTIVE DATE 10/22/2003

	1	FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS PER TRIP SYSTEM	SURVEILLANCE REQUIREMENTS	ALLOWABLE VALUE
4.	Rea Coo Isola	ctor Core Isolation ling (RCIC) System ation				
	a.	RCIC Pipe Routing Area ∆ Temperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	≤ 98°F
	b.	RCIC Equipment Room ∆ Tëmperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	≤ 98°F
5.	Rea (RV Isol	ictor Water Cleanup VCU) System ation				
	а.	RWCU Penetration Area ∆ Temperature - High	- <b>1,2,3</b> -	<b>1</b>	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	≤ 72°F
	b.	RWCU Pump Area ∆ Temperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	≤ 72°F
	C.	RWCU Heat Exchanger Area ∆ Temperature - High	1,2,3	1	TRS 3.3.6.2 TRS 3.3.6.3 TRS 3.3.6.5	≤ 72°F
6.	Shute Syste	down Cooling em Isolation (a)				
	а.	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	≤ 26,000 gpm

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

(a)

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