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# INFORMATION ONLY

## INSTRUMENTATION

STEAM AND FEEDWATER RUPTURE CONTROL SYSTEM INSTRUMENTATION

#### LIMITING CONDITION FOR OPERATION

3.3.2.2 The Steam and Feedwater Rupture Control System (SFRCS) instrumentation channels shown in Table 3.3-11 shall be OPERABLE with their trip setpoints set consistent with the values shown in the Trip Setpoint column of Table 3.3-12 and with RESPONSE TIMES as shown in Table 3.3-13.

APPLICABILITY: MODES 1, 2 and 3.

### ACTION:

- servative than the value shown in the Allowable Values column of Table 3.3-12, declare the channel inoperable and apply the applicable ACTION requirement of Table 3.3-11, until the channel is restored to OPERABLE status with the trip setpoint adjusted consistent with the Trip Setpoint value.
- b. With a SFRCS instrumentation channel inoperable, take the action shown in Table 3.3-11.

#### SURVEILLANCE REQUIREMENTS

- 4.3.2.2.1 Each SFRCS instrumentation channel shall be demonstrated OPERABLE by the performance of the CHANNEL CHECK, CHANNEL CALIBRATION and CHANNEL FUNCTIONAL TEST during the MODES and at the frequencies shown in Table 4.3-11.
- 4.3.2.2.2 The logic for the bypasses shall be demonstrated OPERABLE during the at power CHANNEL FUNCTIONAL TEST of charge's affected by bypass operation. The total bypass function shall be demonstrated OPERABLE at least once per 18 months during CHANNEL CALIBRATION testing of each channel affected by bypass operation.
- 4.3.2.2.3 The STEAM AND FEEDWATER RUPTURE CONTROL SYSTEM RESPONSE TIME of each SFRCS function shall be demonstrated to be within the limit at least once per 18 months. Each test shall include at least one channel per function such that all channels are tested at least once every N times 18 months where N is the total number of redundant channels in a specific SFRCS function as shown in the "Total No. of Channels" Column of Table 3.3-11.

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TABLE 3.3-11

# STEAM AND FEEDWATER RUPTURE CONTROL SYSTEM INSTRUMENTATION

FLIN	CTIONAL	. WHIT			TOTAL NO. OF CHANNELS	CHANNELS TO TRIP	HINIHUM CHANNELS OPERABLE	ACTION
1.	Main Ster Fressure Low Instrument Channels*				2	1	2	168
	a.	PS 36898	Steam Line 1	Channel 1				
	b.	PS 3689D	Steam Line 2	Channel 1				
	c.	PS 3689F	Steam Line 1	Channel 1				
	d.	PS 3689H	Steam Line 2	Channel 1				
	e.	PS 3687A	Steam Line 2	Channel 2				NFOR
	£.	PS 3687C	Steam Line 1	Channel 2				MATI
	g.	PS 3687E	Steam Line 2	Channel 2				INFORMATION ON
								2

PS 3687G Steam Line 1 Channel 2

# TABLE 3.3-11 (Continued)

# STEAM AND FEEDWATER RUPTIRE CONTROL SYSTEM INSTRUMENTATION

								PP-34	
FUNCTIONAL UNIT				TOTAL NO. OF CHANNELS	CHANNELS TO TRIP	CBANNELS OPERABLE	ACT108		
2.		edvater/Steam	Generator ressure - Bigh						
		strument Char				2	1	2	168
	a.	PDS 2685A	Feedwater/Steam	Generator	2 Channel	2			
		PDS 26858	Peedwater/Steam	Generator	2 Channel	2			
	b.		Feedwater/Steam		The state of the s				
		PDS 2685D	Feedwater/Steam	Generator	2 Channel				
	c.		Peedvater/Steam		The second secon				
		PDS 26868	Feedwater/Steam	Generator	1 Channel 1				
	d.	The state of the s	Feedwater/Steam						
		PDS 2686D	Feedwater/Steam	Genetator	1 Channel 2				
3.		am Generator							
	Lev	el - Fos Ins	trument Channels			2	1	2	168
	a.	LSLL SP988	Steam Generator	1 Channel	1				
		LSLL SP9B9	Steam Generator	1 Channel	1				
	b.	LSLL SP9A6	Steam Generator	2 Channel	1			Z	
		LSLL SP9A7	Steam Generator	2 Channel	1			Š	
	c.	LSLL SP9A8	Steam Generator	2 Channel	2			3	
		LSLL SP9A9	Steam Generator	2 Channel	2			INFORMATION	

# TABLE 3.3-11 (Continued)

# STEAM AND FEEDWATER RUPTURE CONTROL SYSTEM INSTRUMENTATION

FUR	ACTIONAL UNIT	TOTAL NO. OF CHANNELS	CBANNELS TO TRIP	CBANNELS OPERABLE	ACT10f	
3.	Steam Generator Level - Low Instrument Channels (continued)					
	d. LSLL SP986 Steam Generator 1 Channel 2 LSLL SP987 Steam Generator 1 Channel 2					
4.	Loss of RCP Channels	2	1	2	161	
5.	Manual Initiation (Push buttons)					
	a. Initiate AFPT #1	1	1	,	17	
	b. Initiate APPT #2	1	1	1	17	
	c. Initiate APPT #1 and Isolate SG #1	1	1	1	17	
	d. Initiate AFPT #2 and Isolate SG #2	1	1	1	17	

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## TABLE 3.3-11 (Continued)

TABLE NOTATION

\* May be bypassed when steam pressure is below 700 psig. Bypass shall be automatically removed when the steam pressure exceeds 750 psig.

\* The provisions of Specification 3.0.4 are not applicable.

#### ACTION STATEMENTS

ACTION 16 - With the number of OPERABLE Channels one less than the Total Number of Channels. STARTUP and/or POVER OPERATION
may proceed until performance of the next required CHANNEL.
FUNCTIONAL TEST provided the inoperable section of the
channel is placed in the tripped condition within 1 hour.

ACTION 17 - Vith the number of OPERABLE Channels one less than the Total Number of Channels, restore the inoperable channel to OPERABLE status vithin 48 hours or be in at least EOT-STANDBY vithin the next 6 hours and in COLD SHUTDOWN vithin the following 30 hours.