## TABLE 3.3-3 (Continued)

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## ENGINEERED SAFETY FEATURE ACTUATION SYSTEM INSTRUMENTATION

SALEM		TABLE 3.3-3 (Continued) ENGINEERED SAFETY FEATURE ACTUATION SYSTEM INSTRUMENTATION							
- UNIT 1	FUNCTIONAL UNIT		TOTAL NO. TO CHANNELS	TOTAL NO. CHANNELS TO CHANNELS TO TRIP		APPLICABLE	ACTION		
		Four Loops Operating	l pressure/ loop	2 pressures any loops	l pressure any 3 loops		14*		
		Three Loops Operating	l pressure/ operating loop	l### pressure in any oper- ating loop	l pressure in any 2 oper- ating loops		15		
3/4 3-20	5.	TURBINE TRIP & FEEDWATER ISOLATION a. Steam Generator Water level High-High	3/1оор	2/loop in any oper- ating loop	2/loop in each oper- ating loop	1, 2, 3	14*		
	6.	SAFEGUARDS EQUIPMENT CONTROL SYSTEM (SEC)	3	2	3	1, 2, 3, 4	13		
	7.	UNDERVOLTAGE, VITAL BUS				1, 2,-3	delate		
1.1	5	a. Loss of Voltage	3	2	3	1, 2, 3	14*		
	2	b. Sustained Degraded Voltage	3	2	3	1, 2, 3	14*		

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SALEM - UNIT	TABLE 3.3-4 (Continued) ENGINEERED SAFETY FEATURE ACTUATION SYSTEM INSTRUMENTATION TRIP SETPOINTS					
	FUNCTIONAL UNIT		TRIP SETPOINT	ALLOWABLE VALUES		
	5.	TURBINE TRIP AND FEEDWATER ISOLATION		_		
		a. Steam Generator Water Level High-High	<pre>&lt; 67% of narrow range instrument span each steam generator</pre>	< 68% of narrow range instrument span each steam generator		
add 3/4 3-26	6.	UNDERVOLTAGE, VITAL BUS a. Loss of Voltage				
			≥70% of bus voltage	≥ 65% of bus voltage		
	۲ کر ا	b. Sustained Degraded Voltage	≥91% of bus voltage for ≤13 seconds	≥90% of bus voltage for ≤15 seconds		

### TABLE 4.3-2 (Continued)

#### ENGINEERED SAFETY FEATURE ACTUATION SYSTEM INSTRUMENTATION SURVEILLANCE REQUIREMENTS

FUNCTIONAL UNIT		CHANNEL CHECK	CHANNEL CALIBRATION	CHANNEL FUNCTIONAL TEST	MODES IN WHICH SURVEILLANCE REQUIRED	
4.	STEAM LINE ISOLATION					
	a. Manual	N.A.	N.A.	R	1, 2, 3	
	b. Automatic Actuation Logic	N.A.	N.A.	M(2)	1, 2, 3	
	c. Containment Pressure High-High	S	R	M(3)	1, 2, 3	
	d. Steam Flow in Two Steam LinesHigh Coincident with T <sub>avg</sub> Low or Steam Line PressureLow	S	R	M ·	1, 2, 3	
5.	TURBINE TRIP AND FEEDWATER ISOLATION					
	a. Steam Generator Water LevelHigh-High	S	R	М	1, 2, 3	
6.	SAFEGUARDS EQUIPMENT CONTROL SYSTEM (SEC) LOGIC					
	a. Inputs	N.A.	N.A.	M	1, 2, 3, 4	
	b. Logic, Timing and Outputs	N.A.	N.A.	M(1)	1, 2, 3, 4	
7.	UNDERVOLTAGE, VITAL BUS	2 <del>6</del>				
5	a. Loss of Voltage	S	R	Μ	1, 2, 3	
- )	b. Sustained Degraded Voltage	S	R	М	1, 2, 3	

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## TABLE 3.3-3 (Continued)

# ENGINEERED SAFETY FEATURE ACTUATION SYSTEM INSTRUMENTATION

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	FUNC	TIONAL UNIT	TOTAL NO. OF CHANNELS	CHANNELS TO TRIP	MINIMUM CHANNELS OPERABLE	APPLICABLE MODES	ACTION
		Four Loops Operating	l pressure/ loop	l pressure any 2 loops	l pressure any 3 loops		14*
		Three Loops Operating	l pressure/ operating loop	l### pressure in any oper- ating loop	l pressure in any 2 oper- ating loops		15
	5.	TURBINE TRIP & FEEDWATER ISOLATION a. Steam Generator Water level High-High	3/1oop	2/loop in any oper- ating loop	2/loop in each oper- ating loop	1, 2, 3	14*
	6.	SAFEGUARDS EQUIPMENT CONTROL SYSTEM (SEC)	3	2	3	1, 2, 3, 4	13
	7.	UNDERVOLTAGE, VITAL BUS a. Loss of Voltage	3	2	3	1, 2, 3	14*
44	. {	b. Sustained Degraded Voltage	3	2	3	1, 2, 3	14*

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## TABLE 4.3-2 (Continued)

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### ENGINEERED SAFETY FEATURE ACTUATION SYSTEM INSTRUMENTATION SURVEILLANCE REQUIREMENTS

FUNC	CTION	IAL UNIT	CHANNEL CHECK	CHANNEL CALIBRATION	CHANNEL FUNCTIONAL TEST	MODES IN WHICH SURVEILLANCE REQUIRED		
4.	STE	AM LINE ISOLATION						
	a.	Manual	N.A.	N.A.	R	1, 2, 3		
	b.	Automatic Actuation Logic	N.A.	N.A.	M(2)	1, 2, 3		
	C.	Containment Pressure High-High	S	R	M(3)	1, 2, 3		
	d.	Steam Flow in Two Steam LinesHigh Coincident with T <sub>avg</sub> Low or Steam Line PressureLow	S	R	M	1, 2, 3		
5.	TUR Iso	TURBINE TRIP AND FEEDWATER ISOLATION						
	a.	Steam Generator Water LevelHigh-High	S	R	М	1, 2, 3		
6.	SAF Con	SAFEGUARDS EQUIPMENT CONTROL SYSTEM (SEC) LOGIC						
	a.	Inputs	N. A.	N.A.	. <b>M</b>	1, 2, 3, 4		
	b.	Logic, Timing and Outputs	N. Á.	N. A.	M(1)	1, 2, 3, 4		
7. S	UND	DERVOLTAGE, VITAL BUS		·····	······································	delate		
	a.	Loss of Voltage	S	R	М	1, 2, 3		
al	b.	Sustained Degraded Voltage	S	R	М	1, 2, 3		

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