TABLE 3.3-3 (Continued)

ENGINEERED SAFETY FEATURE ACTUATION SYSTEM INSTRUMENTATION

FUNC	CTIONAL UNIT	TOTAL NO. OF CHANNELS	CHANNELS TO TRIP	MINIMUM CHANNELS OPERABLE	APPLICABLE MODES	ACTION
4.	STEAM LINE ISOLATION					
	a. Manual i. One Switch/line	1/steam line	1/steam line	1/operating steam line	1, 2, 3	23
	ii. One Switch/all lin	ies 1	1	1	1, 2, 3	23
	b. Automatic Actuation Logic and Actuation Re	2	1	2	1, 2, 3	1254
	c. Reactor Building Press High-2	sure 3	2	2	1, 2, 3	15*
	d. Steam Flow in Two Steam LinesHigh	2/steam line	1/steam line any 2 steam lines	1/steam line	1, 2, 3	15*
	COINCIDENT WITH TavgLow-Low	1 Tavg/loop	1 T avg any 2 loops	1 Tavg any 2 loops	1, 2, 3	15*

TABLE 3.3-3 (Continued)

ENGINEERED SAFETY FEATURE ACTUATION SYSTEM INSTRUMENTATION

FUNC	TION	AL UNIT	TOTAL NO. OF CHANNELS	CHANNELS TO TRIP	MINIMUM CHANNELS OPERABLE	APPLICABLE MODES	ACTION	
6.	EME	RGENCY FEEDWATER						
	a.	Manual Initiation	1 per pump	1 per pump	1 per pump	1, 2, 3	22	
	b.	Automatic Actuation Logic and Actuation Relays	2	1	2	1, 2, 3	21	
	с.	Stm. Gen. Water Level-Low-Low						
		i. Start Motor Driven Pumps	3/stm. gen.	2/stm. gen. any stm gen.	2/stm. gen.	1, 2, 3	15*	
		ii. Start Turbine- Driven Pump	3/stm. gen.	2/stm. gen. any 2 stm. ge	2/stm. gen	1, 2, 3	15*	
	d.	Undervoltage-both ESF Bu Start Turbine- Driven Pump	sses 2-1/bus	2	2	1, 2, 3	19	
	е.	S.I. Start Motor- Driven Pumps	See 1 above (all S.I. initiating functions and requirements)					
	f.	Undervoltage-one ESF bus Start Motor-Driven Pumps	2-1/bus	1	2	1, 2	22	
	g.	Trip of Main Feedwater Pumps Start Motor- Driven Pumps	3-1/pump	3-1/pump	3-1/pump	1, 2	19	
	h.	Suction Transfer on Low Pressure	4	2	3	1, 2, 3	2516	

TABLE 3.3-3 (Continued)
ENGINEERED SAFETY FEATURE ACTUATION SYSTEM INSTRUMENTATION

		TOTAL NO. OF CHANNELS	CHANNELS TO TRIP	MINIMUM CHANNELS OPERABLE	APPLICABLE MODES	ACTION
7.	LOSS OF POWER					
	a. 7.2 kv Emergency Bus Un (Loss of Voltage)	dervoltage 2-1/bus	1 🗼	2	1, 2, 3, 4	18
	7.2 kv Emergency Bus Ur (Degraded Voltage)	dervoltage 2-1/bus	1	2	1, 2, 3, 4	18
8.	AUTOMATIC SWITCHOVER TO CONTAINMENT SUMP					
	a. RWST level low-low	4	2	3	1, 2, 3	1816
	b. Automatic Actuation Logic and Actuation Relays	2	1	2	1, 2, 3	2514
9.	ENGINEERED SAFETY FEATURE ACTUATION SYSTEM INTERLOCKS					
	a. Pressurizer Pressure,P-11	3	2	2	1, 2, 3	20
	b. Low-Low Tavg, P-12	3	2	2	1, 2, 3	20
	c. Reactor Trip, P-4	2	2	2	1, 2, 3	22