

PNPS Table 3.1.1 REACTOR PROTECTION SYSTEM (SCRAM) INSTRUMENTATION REQUIREMENT

Operable Inst. Channels per Trip System (1)	Minimum/Avail.	Trip Function	Trip Level Setting	Modes in Which Function Must Be Operable			Action (1)
				Refuel (7)	Startup/Hot Standby	Run	
1	1	Mode Switch in Shutdown		X	X	X	A
1	1	Manual Scram		X	X	X	A
3	4	IRM High Flux	≤120/125 of full scale	X	X	(5)	A
3	4	Inoperative		X	X	(5)	A
2	3	APRM High Flux	(15)	(17)	(17)	X	A or B
2	3	Inoperative	(13)	X	X(9)	X	A or B
2	3	High Flux (15%)	≤15% of Design Power	X	X	(16)	A or B
2	2	High Reactor Pressure	≤1063.5 psig	X(10)	X	X	A
2	2	High Drywell Pressure	≤2.22 psig	X(8)	X(8)	X	A
2	2	Reactor Low Water Level	≥11.6 In. Indicated Level	X	X	X	A
2	2	SDIV High Water Level:	≤38 Gallons	X(2)	X	X	A
2	2	East					
2	2	West					
4	4	Main Steam Line Isolation Valve Closure	≤10% Valve Closure	X(3)(6)	X(3)(6)	X(6)	A or C
2	2	Turbine Control Valve Fast Closure	≥150 psig Control Oil Pressure at Acceleration Relay	X(4)	X(4)	X(4)	A or D
4	4	Turbine Stop Valve Closure	≤10% Valve Closure	X(4)	X(4)	X(4)	A or D

Revision 177

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3/4.1-2

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TABLE 3.2.A

INSTRUMENTATION THAT INITIATES PRIMARY CONTAINMENT ISOLATION

Operable Instrument Channels Per Trip System (1)		Instrument	Trip Level Setting	Action (2)
Minimum	Available			
2(7)	2	Reactor Low Water Level	$\geq 11.6$ " indicated level (3)	A and D
1	1	Reactor High Pressure	$\leq 110$ psig	D
2	2	Reactor Low-Low Water Level	at or above - 46.4 in. indicated level (4)	A
2	2	Reactor High Water Level	$\leq 55.4$ " indicated level (5)	B
2(7)	2	High Drywell Pressure	$\leq 2.22$ psig	A
2	2	Low Pressure Main Steam Line	$\geq 810$ psig (8)	B
2(6)	2	High Flow Main Steam Line	$\leq 136\%$ of rated steam flow	B
2	2	Main Steam Line Tunnel Exhaust Duct High Temperature	$\leq 170^{\circ}\text{F}$	B
2	2	Turbine Basement Exhaust Duct High Temperature	$\leq 150^{\circ}\text{F}$	B
1	1	Reactor Cleanup System High Flow	$\leq 300\%$ of rated flow	C
2	2	Reactor Cleanup System High Temperature	$\leq 150^{\circ}\text{F}$	C

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3/4.2-7

NOTES FOR TABLE 3.2.A (Cont)

3. Instrument set point corresponds to 137.86 inches above top of active fuel.
4. Instrument set point corresponds to 79.86 inches above top of active fuel.
5. Not required in Run Mode (bypassed by Mode Switch).
6. Two required for each steam line.
7. These signals also start SBGTS and initiate secondary containment isolation.
8. Only required in Run Mode (interlocked with Mode Switch).
9. Deleted.

Attachment C

PNPS Table 3.1.1 REACTOR PROTECTION SYSTEM (SCRAM) INSTRUMENTATION REQUIREMENT

Operable Inst. Channels per Trip System (1)		Trip Function	Trip Level Setting	Modes in Which Function Must Be Operable			Action (1)
Minimum	Avail.			Refuel (7)	Startup/Hot Standby	Run	
1	1	Mode Switch in Shutdown		X	X	X	A
1	1	Manual Scram		X	X	X	A
3	4	IRM					
3	4	High Flux	≤120/125 of full scale	X	X	(5)	A
		Inoperative		X	X	(5)	A
2	3	APRM					
2	3	High Flux	(15)	(17)	(17)	X	A or B
2	3	Inoperative	(13)	X	X(9)	X	A or B
		High Flux (15%)	≤15% of Design Power	X	X	(16)	A or B
2	2	High Reactor Pressure	≤1063.5 psig	X(10)	X	X	A
2	2	High Drywell Pressure	≤2.22 psig	X(8)	X(8)	X	A
2	2	Reactor Low Water Level	11.7 In. Indicated Level	X	X	X	A
2	2	SDIV High Water Level:	≤38 Gallons	X(2)	X	X	A
		East					
		West					
4	4	Main Steam Line					
		Isolation Valve Closure	≤10% Valve Closure	X(3)(6)	X(3)(6)	X(6)	A or C
2	2	Turbine Control Valve	≥150 psig Control Oil				
		Fast Closure	Pressure at				
			Acceleration Relay	X(4)	X(4)	X(4)	A or D
4	4	Turbine Stop Valve	≤10% Valve Closure	X(4)	X(4)	X(4)	A or D
		Closure					

Revision 177

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PNPS  
TABLE 3.2.A

INSTRUMENTATION THAT INITIATES PRIMARY CONTAINMENT ISOLATION

Operable Instrument Channels Per Trip System (1)		Instrument	Trip Level Setting	Action (2)
Minimum	Available			
2(7)	2	Reactor Low Water Level	$\geq 11.6$ " indicated level (3)	A and D
1	1	Reactor High Pressure	$\leq 110$ psig	D
2	2	Reactor Low-Low Water Level	at or above $-46.3$ in. indicated level (4)	A
2	2	Reactor High Water Level	$\leq 45.3$ indicated level (5)	B
2(7)	2	High Drywell Pressure	$\leq 2.22$ psig	A
2	2	Low Pressure Main Steam Line	$\geq 810$ psig (8)	B
2(6)	2	High Flow Main Steam Line	$\leq 136\%$ of rated steam flow	B
2	2	Main Steam Line Tunnel Exhaust Duct High Temperature	$\leq 170^{\circ}\text{F}$	B
2	2	Turbine Basement Exhaust Duct High Temperature	$\leq 150^{\circ}\text{F}$	B
1	1	Reactor Cleanup System High Flow	$\leq 300\%$ of rated flow	C
2	2	Reactor Cleanup System High Temperature	$\leq 150^{\circ}\text{F}$	C

Revision 177

Amendment No. 34, -42, -86, -147, -150, -151, -154

NOTES FOR TABLE 3.2.A (Cont)

3. Instrument set point corresponds to 128.26 inches above top of active fuel. <sup>137.86 \*</sup>
4. Instrument set point corresponds to 77.26 inches above top of active fuel. <sup>79.86 \*</sup>
5. Not required in Run Mode (bypassed by Mode Switch).
6. Two required for each steam line.
7. These signals also start SBGTS and initiate secondary containment isolation.
8. Only required in Run Mode (interlocked with Mode Switch).
9. Deleted.

\* Editorial Note

(128.26" and 77.26")

The instrument setpoint values in Notes 3 and 4 were changed in Technical Specification Amendment 151 to 137.96" and 79.96". Amendment 154 inadvertently reverted back to the old setpoint values. The correct values, as presented in Amendment 151, were 137.96" and 79.96". This proposed amendment will correct the editorial error introduced in Amendment 154 and ~~change~~ the setpoint values to 137.86" and 79.86" to reflect the revised instrument calibration range.