

TABLE 3.5-1 Continued

INSTRUMENTS OPERATING CONDITIONS

Functional Unit	(A)	(B)	(C)
Engineered Safeguards	Minimum Operable Analog Channels	Minimum Degree of Redundancy	Operator Action If Conditions of Column A and B cannot be met <sup>(a)</sup>
3. Reactor Building Isolation and Reactor Building Cooling System			
a. Reactor Building 4 psig <sup>*</sup> Instrument Channel	2	1	Hot Shutdown
b. Manual Pushbutton	2	1	Hot Shutdown
(a) If minimum conditions are not met within 24 hours, the unit shall then be placed in a cold shutdown condition.			
(b) Also initiates low pressure injection.			
4. Reactor Building Spray System			
a. Reactor Building 30 psig Instrument Channel	2 (b)	1	Hot Shutdown
b. Spray Pump Manual Switches (c)	2	1	Hot Shutdown
(a) If minimum conditions are not met within 24 hours, the unit shall then be placed in a cold shutdown condition.			
(b) Two out of three switches in each actuation channel operable.			
(c) Spray valves opened by manual pushbutton listed in item 3 above.			

\* For hot functional testing, prior to Cycle 5 Criticality the 4 psig signal is not required for Nuclear Service Closed Cycle Cooling Water, Intermediate Cooling and Reactor Coolant Pump Seal Injection. Remote manual and 30 psig isolation signals are required if the 4 psig signal is not operable for these lines.

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### Applicability

This specification applies to the engineered safeguards protection system actuation setpoints.

### Objective

To provide for automatic initiation of the engineered safeguards protection system in the event of a breach of Reactor Coolant System integrity.

### Specification

3.5.3.1 The engineered safeguards protection system actuation setpoints and permissible bypasses shall be as follows:

<u>Initiating Signal</u>	<u>Function</u>	<u>Setpoint</u>
High Reactor Building Pressure (1)	Reactor Building Spray	$\leq 30$ psig
	High Pressure Injection	$\leq 4$ psig
	Low Pressure Injection	$\leq 4$ psig
	Start Reactor Building Cooling & Reactor Building Isolation	$\leq 4$ psig *
Low Reactor Coolant System Pressure	High Pressure Injection	$\geq 1500^{(2)}$ and $\geq 500^{(3)}$ psig
	Low Pressure Injection	$\geq 1500^{(2)}$ and $\geq 500^{(3)}$ psig

(1) May be bypassed for reactor building leak rate test.

(2) May be bypassed below 1650 psig and is automatically reinstated above 1650 psig.

(3) May be bypassed below 900 psig and is automatically reinstated above 900 psig.

### Basis

#### High Reactor Building Pressure

The basis for the 30 psig and 4 psig setpoints for the high pressure signal is to establish a setting which would be reached in adequate time in the event of a LOCA, cover a spectrum of break sizes and yet be far enough above normal operation maximum internal pressure to prevent spurious initiation.

#### Low Reactor Coolant System Pressure

The basis for the 1500 and 500 psig low reactor coolant pressure setpoint for high and low pressure injection initiation is to establish a value which is high enough such that protection is provided for the entire spectrum of break sizes and is far enough below normal operating pressure to prevent spurious initiation.

\* For hot functional testing, prior to Cycle 5 Criticality the 4 psig signal is not required for Nuclear Service Closed Cycle Cooling Water, Intermediate Cooling and Reactor Coolant Pump Seal Injection. Remote manual and 30 psig isolation signals are required if the 4 psig signal is not operable for these lines.