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Table 3.6.2g (cont'd)

INSTRUMENTATION THAT INITIATES CONTROL ROD WITHDRAWAL BLOCK

Limiting Condition for Operation

<u>Parameter</u>	<u>Minimum No. of Tripped or Operable Trip Systems</u>	<u>Minimum No. of Operable Instrument Channels per Operable Trip System</u>	<u>Set Point</u>	<u>Reactor Mode Switch Position in Which Function Must Be Operable</u>			
				<u>Shutdown</u>	<u>Refuel</u>	<u>Startup</u>	<u>Run</u>
(4) Recirculation Flow							
a. Comparator Off Normal	2	1	≤6.8%				X
b. Flow Unit Inoperative	2	1	--				X
c. Flow Unit Upscale	2	1	≤103.7%				X
(5) Refuel Platform and Hoists	2 (f)	1	--		X		
(6) Mode Switch in Shutdown	1	1	--	X			



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Table 4.6.2g (cont'd)

INSTRUMENTATION THAT INITIATES CONTROL ROD WITHDRAWAL BLOCKSurveillance Requirement

<u>Parameter</u>	<u>Sensor Check</u>	<u>Instrument Channel Test</u>	<u>Instrument Channel Calibration</u>
(3) APRM			
a. Inoperative	None	Once per month	None
b. Upscale (Biased by Recirculation Flow)	None	Once per month	Once per 3 months
c. Downscale	None	Once per month	Once per 3 months
(4) Recirculation Flow			
a. Comparator Off Normal	None	Once per month	Once per 3 months
b. Flow Unit Inoperative	None	Once per month	Once per 3 months
c. Flow Unit Upscale	None	Once per month	Once per 3 months



6 3 1 2 3 4 5 6 7 8 9 10 11 12

## BASES FOR 3.6.2 AND 4.6.2 PROTECTIVE INSTRUMENTATION

The set points on the generator load rejection and turbine stop valve closure scram trips are set to anticipate and minimize the consequences of turbine trip with failure of the turbine bypass system as described in the bases for Specification 2.1.2. Since the severity of the transients is dependent on the reactor operating power level, bypassing of the scrams below the specified power level is permissible.

Although the operator will set the setpoints at the values indicated in Tables 3.6.2.a-1, the actual values of the various set points can differ appreciably from the value the operator is attempting to set. The deviations include inherent instrument error, operator setting error and drift of the set point. These errors are compensated for in the transient analyses by conservatism in the controlling parameter assumptions as discussed in the bases for Specification 2.1.2. The deviations associated with the set points for the safety systems used to mitigate accidents have negligible effect on the initiation of these systems. These safety systems have initiation times which are orders of magnitude greater than the difference in time between reaching the nominal set point and the worst set point due to error. The maximum allowable set point deviations are listed below:

### Neutron Flux

APRM Scram,  $\pm 2.3\%$  of rated neutron flux (analytical limit is 120% of rated flux)

APRM Rod Block,  $\pm 2.3\%$  of rated neutron flux (analytical limit is 110% of rated flux)

IRM,  $\pm 2.5\%$  of rated neutron flux

Recirculation Flow Upscale,  $\pm 1.6\%$  of rated recirculation flow (analytical limit is 107.1% of rated flow)

Recirculation Flow Comparator,  $\pm 2.09\%$  of rated recirculation flow (analytical limit is 10% flow differential)

Reactor Pressure,  $\pm 15.8$  psig

Containment Pressure  $\pm 0.053$  psig

Reactor Water Level,  $\pm 2.6$  inches of water

Main Steam Line Isolation Valve Position,  $\pm 2.5\%$  of stem position

Scram Discharge Volume, +0 and -1 gallon

Condenser Low Vacuum,  $\pm 0.5$  inches of mercury



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