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## INSTRUMENTATION

### 3/4.3.4 RECIRCULATION PUMP TRIP ACTUATION INSTRUMENTATION

#### ATWS RECIRCULATION PUMP TRIP SYSTEM INSTRUMENTATION

#### LIMITING CONDITION FOR OPERATION

3.3.4.1 The anticipated transient without scram recirculation pump trip (ATWS-RPT) system instrumentation channels shown in Table 3.3.4.1-1 shall be OPERABLE with their trip setpoints set consistent with the values shown in the Trip Setpoint column of Table 3.3.4.1-2.

APPLICABILITY: OPERATIONAL CONDITION 1.

#### ACTION:

- a. With an ATWS-RPT system instrumentation channel trip setpoint less conservative than the value shown in the Allowable Value column of Table 3.3.4.1-2, declare the channel inoperable until the channel is restored to OPERABLE status with the channel trip setpoint adjusted consistent with the Trip Setpoint value.

- ~~b. With the number of OPERABLE channels one less than required by the Minimum OPERABLE Channels per Trip System requirement for one trip function in one trip system, restore the inoperable channel to OPERABLE status within 48 hours or be in at least STARTUP within the next 6 hours.~~

INSERT

#### SURVEILLANCE REQUIREMENTS

4.3.4.1.1 Each ATWS-RPT system instrumentation channel shall be demonstrated OPERABLE by the performance of the CHANNEL CHECK, CHANNEL FUNCTIONAL TEST and CHANNEL CALIBRATION operations at the frequencies shown in Table 4.3.4.1-1.

4.3.4.1.2 LOGIC SYSTEM FUNCTIONAL TESTS and simulated automatic operation of all channels shall be performed at least once per 18 months.

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- b. With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip System requirement for one trip system, place the inoperable channel(s) in the tripped condition within 72 hours or be in at least STARTUP within the next 6 hours. ~~The provisions of Specification 3.0.4 are not applicable.~~
- c. With the number of OPERABLE channels one less than required by the Minimum OPERABLE Channels per Trip System requirement for both trip systems, place at least one inoperable channel in the tripped condition within one hour, and place the second inoperable channel in the tripped condition within 72 hours. Otherwise, be in at least STARTUP within the next 6 hours. ~~The provisions of Specification 3.0.4 are not applicable.~~
- d. With both trip systems otherwise inoperable, restore at least one trip system to OPERABLE status within one hour or be in at least STARTUP within the next 6 hours.

TABLE 3.3.4.1-1

## ATWS RECIRCULATION PUMP TRIP SYSTEM INSTRUMENTATION

TRIP FUNCTION	MINIMUM OPERABLE CHANNELS PER TRIP SYSTEM (a)
1. Reactor Vessel Water Level - Low Low, Level 2	2
2. Reactor Vessel Pressure - High	2

- (a) One channel may be placed in an inoperable status for up to 2 hours for required surveillance provided the redundant trip system is OPERABLE and monitoring that parameter.
- trip system