# INSTRUMENTATION

3/4.3.9 PLANT SYSTEMS ACTUATION INSTRUMENTATION

## LIMITING CONDITION FOR OPERATION

3.3.9 The plant systems actuation instrumentation channels shown in Table 3.3.9-1 shall be OPERABLE with their trip setpoints set consistent with the values shown in the Trip Setpoint column of Table 3.3.9-2.

APPLICABILITY: As shown in Table 3.3.9-1.

ACTION:

- a. With a plant system actuation instrumentation channel trip setpoint less conservative than the value shown in the Allowable Values column of Table 3.3.9-2; declare the channel inoperable and either place the inoperable channel in the tripped condition until the channel is restored to OPERABLE status with its trip setpoint adjusted consistent with the Trip Setpoint value, or declare the associated system inoperable.
- b. For the suppression pool (and drywell) spray system:
  - With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip System requirement for one trip system, place at least one inoperable channel in the tripped condition within one hour or declare the associated system inoperable.
  - With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip System requirement for both trip systems, declare the associated system inoperable.
- c. For the feedwater system/main turbine trip system:
  - With the number of OPERABLE channels one less than required by the Minimum OPERABLE Channels requirement, restore the inoperable channel to OPERABLE status within 7 days or be in at least STARTUP within the next 6 hours.
  - 2. With the number of OPERABLE channels two less than required by the Minimum OPERABLE Channels requirement, restore at least one of the inoperable channels to OPERABLE status within 72 hours or be in at least STARTUP within the next 6 hours.

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PROPOSED TECHNICAL SPECIFICATION CHANGES

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### INSTRUMENTATION

# 3/4.3.5 REACTOR CORE ISOLATION COOLING SYSTEM ACTUATION INSTRUMENTATION

### LIMITING CONDITION FOR OPERATION

3.3.5 The reactor core isolation cooling (RCIC) system actuation instrumentation channels shown in Table 3.3.5-1 shall be OPERABLE with their trip setpoints set consistent with the values shown in the Trip Setpoint column of Table 3.3.5-2.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2 and 3 with reactor steam dome pressure greater than 150 psig.

### ACTION:

- a. With a RCIC system actuation instrumentation channel trip setpoint less conservative than the value shown in the Allowable Values column of Table 3.3.5-2, declare the channel inoperable until the channel is restored to OPERABLE status with its trip setpoint adjusted consistent with the Trip Setpoint value.
- b. With one or more RCIC system actuation instrumentation channels inoperable, take the ACTION required by Table 3.3.5-1.

### SURVEILLANCE REQUIREMENTS

4.3.5.1 Each RCIC system actuation 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 4.3.5.1-1.

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

TABLE 3.3.5-1

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REACTOR CORE ISOLATION COOLING SYSTEM ACTUATION INSTRUMENTATION

IORAL UNITS		OPERABLE CHANNELS a) PER TRIP SYSTEM(a)	ACTION
. Reactor Vessel Low Water	Level - Level 2	\$ 4 (tb)	50
. Reactor Vessel High Wate	r Level - Level 8	2(10) (c)	50
. Condensate Storage Tank	Water Level - Low	5(et (d)	51
I. Manual Initiation		1/valve	52

A channel may be placed in an inoperable status for up to 2 hours for required surveillance without placing the trip system in the tripped condition provided at least one other OPERABLE channel in the same trip system is monitoring that parameter. (e) 3/4

 $\frac{1}{2}$  (c) (b) One trip system with two-out-of-two logic. (d) (c) ne trip system with one-out-of-two logic.

taken twice logic. one -out - of -two -(b) One trip system. with

FERMI - UNIT 2

# TABLE 3.3.5-1 (Continued)

### REACTOR CORE ISOLATION COOLING SYSTEM

# ACTION STATEMENTS

ACTION 50 - With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip System requirementy, either:

and/or the cip system, place the inoperable channel(s) and/or the cip system in the tripped condition within 1 hour profestare the RELE system inoperable.

b For both ing systems, declare the RCIC system moperable.

- ACTION 51 With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip System requirement, place at least one inoperable channel in the tripped condition within 1 hour\* or align RCIC to take suction from the suppression pool or declare the RCIC system inoperable.
- ACTION 52 Restore the manual initiation function to OPERABLE status within 8 hours or declare the RCIC system inoperable.

c. Place the inoperable channel (s) in the tripped condition within I hour, provided that this does not cause an actuation of the Functional Unit, or b. Declare the RCIC system inoper the.

\*The provisions of Specification 3.0.4 are not applicable.

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INSTRUMENTATION

3/4.3.9 FEEDWATER/MAIN TURBINE TRIP SYSTEM ACTUATION INSTRUMENTATION

LIMITING CONDITION FOR OPERATION

3.3.9 The feedwater/main turbine trip system actuation instrumentation channels shown in Table 3.3.9-1 shall be OPERABLE with their trip setpoints set consistent with the values shown in the Trip Setpoint column of Table 3.3.9-2.

APPLICABILITY: As shown in Table 3.3.9-1.

- ACTION: See Insert
  - With a feedwater/main turbine trip system actuation instrumentation channel trip setpoint less conservative than the value shown in the Allowable Values column of Table 3.3.9-2, declare the channel inoperable and either place the inoperable channel in the tripped condition until the channel is restored to OPERABLE status with its trip setpoint adjusted consistent with the Trip Setpoint value, or declare the associated system inoperable.
  - b. With the number of OPERABLE channels one less than required by the Minimum OPERABLE Channels per Trip System requirement, rescore the inoperable channel to OPERABLE status within 7 days or be in at least STARTUP within the pext 6 hours.
  - c. With the number of OPERABLE channels two less than required by the Minimum OPERABLE Channels per Trip System requirement, restore at least two channels to OPERABLE status within 72 hours or be in at least STARTUP within the next 6 hours.

# SURVEILLANCE REQUIREMENTS

4.3.9.1 Each fredwater/main turbine trip system actuation instrumentation channel shall be demonstrated OPERABLE by the performance of the CHANNEL CHECK, CHANNEL FUNCTIONAL TEST and CHANNEL CALIBRATION operations for the OPERATIONAL CONDITIONS and at the frequencies shown in Table 4.3.9.1-1.

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

- a. With a feedwater/main turbine trip system actuation instrumentation channel trip setpoint less conservative than the value shown in the Allowable Values column of Table 3.3.9-2, declare the channel inoperable until the channel is restored to OPERABLE status with its trip setpoint adjusted consistent with the Trip Setpoint value.
- b. With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip System requirement, either place the inoperable channel(s) in the tripped condition, provided that this does not cause a feedwater/main turbine trip system actuation or:
  - With the number of OPERABLE channels one less that required, restore the inoperable channel to OPERABLE status within 7 days or be in at least STARTUP within the next 6 hours.
  - 2. With the number of OPERABLE channels two or more less than required, establish at least three channels in an OPERABLE status within 72 hours or be in at least STARTUP within the next 6 hours.

TABLE 3.3.9-1

1

# FEEDWATER/MAIN TURBINE TRIP SYSTEM ACTUATION INSTRUMENTATION

APPLICABLE OPERATIONAL CONDITIONS	I
MINIMUM OPERABLE CHANNELS PER TRIP SYSTEM	2 4 (a)
	Vessel High Water Level - Level 8
FUNCTIONAL UNIT	a. Reactor /

FERMI - UNIT 2

(a) One trip system with one -out-of-two taken twice togic.

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