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FERMI 2 TECHNICAL REQUIREMENTS MANUAL – VOL I
Revision 132 dated 04/27/2022

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Note: The changes above reflect those justified and described in LCR#s 21-040-TRM, 21-041-TRM, 22-008-TRM, 22-009-TRM, 22-010-TRM, 22-011-TRM, 22-012-TRM, and 22-013-TRM.

END

Fermi 2

Technical Requirements Manual

Volume I

**DTE
Electric**

<i>ARMS - INFORMATION</i>			
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SURVEILLANCE REQUIREMENTS

- NOTES-----
1. Refer to Table TR3.3.2.1-1 to determine which SRs apply to each Control Rod Block Function.
 2. When a Control Rod Block Instrument channel is placed in an inoperable status solely for performance of required Surveillances, entry into associated Conditions and Required Actions may be delayed for up to 6 hours provided the associated Function maintains control rod block capability.
-

SURVEILLANCE	FREQUENCY
TRSR 3.3.2.1.1 Perform CHANNEL CHECK.	12 hours
TRSR 3.3.2.1.2 -----NOTES----- 1. For Function 1, not required to be performed until 12 hours after IRMs on Range 2 or below. 2. For Function 2, not required to be performed when entering MODE 2 from MODE 1 until 12 hours after entering MODE 2. ----- Perform CHANNEL FUNCTIONAL TEST.	7 days
TRSR 3.3.2.1.3 Perform CHANNEL FUNCTIONAL TEST.	184 days
TRSR 3.3.2.1.4 -----NOTE----- For Function 3.d, not required to be performed when entering MODE 2 from MODE 1 until 12 hours after entering MODE 2. ----- Perform CHANNEL FUNCTIONAL TEST.	184 days

(continued)

Suppression Pool Water Temperature Instrumentation
TR 3.3.6.4

ACTIONS (Continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
B. Two or more suppression pool water temperature instrumentation channels inoperable.	B.1 Restore at least seven temperature instrumentation channels to OPERABLE status.	8 hours
C. Required Action and associated Completion Time of Condition B not met.	C.1 Perform OPERABILITY assessment on Technical Specification LCO 3.6.2.1, Suppression Pool Average Temperature.	Immediately

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
TRSR 3.3.6.4.1 Perform CHANNEL CHECK.	24 hours
TRSR 3.3.6.4.2 Perform CHANNEL FUNCTIONAL TEST.	92 days
TRSR 3.3.6.4.3 Perform CHANNEL CALIBRATION. The water high temperature alarm setpoint is $\leq 105^{\circ}\text{F}$.	24 months

SURVEILLANCE REQUIREMENTS

-----NOTE-----
Refer to Table TR3.3.7.2-1 to determine which TRSRs apply for each Seismic
Monitoring Instrumentation Function.

SURVEILLANCE	FREQUENCY
TRSR 3.3.7.2.1 -----NOTE----- For Function 1.b.1, CHANNEL CHECK does not include seismic trigger. ----- Perform CHANNEL CHECK.	92 days
TRSR 3.3.7.2.2 Perform CHANNEL FUNCTIONAL TEST.	184 days
TRSR 3.3.7.2.3 Perform CHANNEL CALIBRATION.	24 months

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
C. Required Action and associated Completion Time of Required Action A.3 not met.	C.1 Submit a Corrective Action Document explaining why the inoperability was not corrected in a timely manner.	Immediately
D. Offgas hydrogen concentration not within limit.	D.1 Restore hydrogen concentration to within the limit.	48 hours

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
TRSR 3.3.12.1 Perform CHANNEL CHECK of the hydrogen monitor.	24 hours
TRSR 3.3.12.2 Perform CHANNEL FUNCTIONAL TEST of the hydrogen monitor.	92 days
TRSR 3.3.12.3 Perform CHANNEL CALIBRATION of the hydrogen monitor. The alarm setpoint shall be $\leq 4\%$ hydrogen by volume. Include the use of standard gas samples containing a nominal: <ul style="list-style-type: none"> a. One volume percent hydrogen, balance nitrogen, and b. Four volume percent hydrogen, balance nitrogen. 	92 days

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
C. For Function 1.b, both required channels inoperable while moving fuel.	C.1 Implement the preplanned alternate method for monitoring using a continuous monitor.	Immediately
	<u>OR</u>	
	C.2 Suspend fuel movement.	Immediately

SURVEILLANCE REQUIREMENTS

-----NOTE-----
 These SRs apply to each Function in Table TR3.3.14-1.

SURVEILLANCE	FREQUENCY
TRSR 3.3.14.1 Perform CHANNEL CHECK.	12 hours
TRSR 3.3.14.2 Perform CHANNEL FUNCTIONAL TEST.	92 days
TRSR 3.3.14.3 Perform CHANNEL CALIBRATION.	24 months

TR 3.4 REACTOR COOLANT SYSTEM (RCS)

TR 3.4.3 Reactor Coolant System (RCS) Leakage Detection System

TRLCO 3.4.3 The drywell equipment drain sump level, flow and pump-run-time system shall be OPERABLE.

APPLICABILITY: MODES 1, 2, and 3.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. The drywell equipment drain sump level, flow or pump-run-time system inoperable.	A.1 Restore the inoperable detection system to OPERABLE status.	30 days
B. Required Action and associated Completion Time not met.	B.1 Initiate a Corrective Action Document outlining the action taken, the cause of the inoperability, and the plans and schedule for restoring the system to OPERABLE status.	Immediately

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
TRSR 3.4.3.1 Perform CHANNEL FUNCTIONAL TEST.	92 days
TRSR 3.4.3.2 Perform CHANNEL CALIBRATION.	48 months

SURVEILLANCE REQUIREMENTS

SURVEILLANCE		FREQUENCY
TRSR 3.6.8.1	Verify each valve (manual, power-operated, or automatic) in the flow path that is not locked, sealed, or otherwise secure in position, is in its correct position	92 days
TRSR 3.6.8.2	Verify that each spray nozzle is unobstructed by performance of an air or smoke flow test of the drywell spray nozzles.	5 years