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**FERMI 2 TECHNICAL REQUIREMENTS MANUAL – VOL I**  
Revision 124 dated 02/01/2021

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**Note: The changes above reflect those justified and described in LCR# 19-039-TRM.**

END

# Fermi 2

## Technical Requirements Manual

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**DTE  
Electric**

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TR 3.3 INSTRUMENTATION

TR 3.3.6.1 Primary Containment Isolation Instrumentation

The primary containment isolation instrumentation trip setpoints are listed in Table TR3.3.6.1-1.

TABLE TR3.3.6.1-1 (Page 1 of 3)  
Primary Containment Isolation Instrumentation

| FUNCTION   | TRIP SETPOINT                | RESPONSE TIME<br>(seconds) |
|--|------------------------------|----------------------------|
| 1. Main Steam Line Isolation                         |                              |                            |
| a. Reactor Vessel Water Level - Low Low Low, Level 1 | ≥ 31.8 inches <sup>(f)</sup> | ≤ 1.0 <sup>(b) (c)</sup>   |
| b. Main Steam Line Pressure - Low <sup>(g)</sup>     | ≥ 821 psig                   | NA                         |
| c. Main Steam Line Flow - High                       | ≤ 115.4 psid                 | ≤ 0.5 <sup>(b) (c)</sup>   |
| d. Condenser Pressure - High                         | ≤ 6.85 psia                  | NA                         |
| e. Main Steam Tunnel Temperature - High              | ≤ 200°F                      | NA                         |
| f. Deleted   |                              |                            |
| g. Turbine Building Area Temperature - High          | ≤ 200°F                      | NA                         |
| h. Manual Initiation                                 | NA                           | NA                         |

(continued)

- (b) Isolation system instrumentation response time for MSIVs Only. No diesel generator delays assumed for MSIVs.
- (c) Except for Function 1 Main Steam Line Isolation Instrumentation DC Output Relays, the sensor and relays/logic response time need not be measured and may be assumed to be the design sensor response time. Prior to return to service of a new transmitter/relay or following refurbishment of a transmitter (e.g., sensor cell or variable damper components/relay), a response time test will be performed to determine an initial sensor/relay-specific response time value.
- (f) As referenced to instrument zero Top of Active Fuel (TAF).
- (g) The method for determining the Nominal Trip Setpoints, as-found tolerances and as-left tolerances for this function are contained in Fermi 2 setpoint calculations. Setpoint calculations for this function are in accordance with the methods described in GEH Licensing Topical Reports NEDC-31336P-A, "General Electric Instrument Setpoint Methodology," September 1996 and NEDE-33633P-A, "GEH Methodology for Implementing TSTF-493 Revision 4," January 2014.



TABLE TR3.3.6.1-1 (Page 2 of 3)  
Primary Containment Isolation Instrumentation

| FUNCTION   | TRIP SETPOINT   | RESPONSE TIME<br>(seconds) |
|--|---|----------------------------|
| 2. Primary Containment Isolation                           |   |                            |
| a. Reactor Vessel Water Level - Low, Level 3               | ≥ 173.4 inches <sup>(f)</sup>                               | NA                         |
| b. Reactor Vessel Water Level - Low Low, Level 2           | ≥ 110.8 inches <sup>(f)</sup>                               | NA                         |
| c. Drywell Pressure - High                                 | ≤ 1.68 psig   | NA                         |
| d. Main Steam Line Radiation - High                        | ≤ 3.0 x full power<br>background <sup>(e)</sup>             | NA                         |
| e. Manual Initiation                                       | NA  | NA                         |
| 3. High Pressure Coolant Injection (HPCI) System Isolation |   |                            |
| a. HPCI Steam Line Flow - High                             | ≤ 395 inches of<br>water with time<br>delay of 3 seconds    | NA                         |
| b. HPCI Steam Supply Line Pressure - Low                   | ≥ 100 psig  | NA                         |
| c. HPCI Turbine Exhaust Diaphragm Pressure - High          | ≤ 10 psig   | NA                         |
| d. HPCI Equipment Room Temperature - High                  | ≤ 154°F   | NA                         |
| e. Drywell Pressure - High                                 | ≤ 1.68 psig   | NA                         |
| f. Manual Initiation                                       | NA  | NA                         |
| 4. Reactor Core Isolation Cooling (RCIC) System Isolation  |   |                            |
| a. RCIC Steam Line Flow-High                               | ≤ 87.0 inches of<br>water with a time<br>delay of 3 seconds | NA                         |
| b. RCIC Steam Supply Line Pressure - Low                   | ≥ 62 psig   | NA                         |
| c. RCIC Turbine Exhaust Diaphragm Pressure - High          | ≤ 10 psig   | NA                         |
| d. RCIC Equipment Room Temperature - High                  | ≤ 154°F   | NA                         |
| e. Drywell Pressure - High                                 | ≤ 1.68 psig   | NA                         |
| f. Manual Initiation                                       | NA  | NA                         |

(continued)

(e) A new "full power background" level is established for hydrogen water chemistry based on 100% power operation with the established hydrogen injection rate. Actual background radiation levels may be less depending on actual power level or hydrogen injection rate. Setpoint adjustment is not necessary for variations in power or hydrogen injection rate, including interruptions in hydrogen flow. The setpoint associated with this function also trips and isolates the mechanical vacuum pumps (MVPs) and trips the gland seal exhausters (GSEs).

(f) As referenced to instrument zero Top of Active Fuel (TAF).

TABLE TR3.3.6.1-1 (Page 3 of 3)  
Primary Containment Isolation Instrumentation

| FUNCTION  | TRIP SETPOINT                      | RESPONSE TIME<br>(seconds) |
|---|------------------------------------|----------------------------|
| 5. Reactor Water Cleanup (RWCU) System Isolation    |                                    |                            |
| a. Differential Flow - High <sup>(d)</sup>          | $\leq 55.1$ gpm                    | NA                         |
| b. Area Temperature - High                          | $\leq 175^\circ\text{F}$           | NA                         |
| c. Area Ventilation Differential Temperature - High | $\leq 50^\circ\text{F}$            | NA                         |
| d. SLC System Initiation                            | NA                                 | NA                         |
| e. Reactor Vessel Water Level - Low Low, Level 2    | $\geq 110.8$ inches <sup>(f)</sup> | NA                         |
| f. Manual Initiation                                | NA                                 | NA                         |
| 6. Shutdown Cooling System Isolation                |                                    |                            |
| a. Reactor Steam Dome Pressure - High               | $\leq 89.5$ psig <sup>(a)</sup>    | NA                         |
| b. Reactor Vessel Water Level - Low, Level 3        | $\geq 173.4$ inches <sup>(f)</sup> | NA                         |
| c. Manual Initiation                                | NA                                 | NA                         |

(a) Represents steam dome pressure; actual trip setpoint is corrected for cold water head with reactor vessel flooded.

(d) With time delay of 45 seconds.

(f) As referenced to instrument zero Top of Active Fuel (TAF).