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AUTOMATED RECORD MANAGEMENT
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FERMI 2 TECHNICAL REQUIREMENTS MANUAL – VOL I
Revision 40 dated 08/30/00

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Technical Requirements Manual

Volume I

**Detroit
Edison**

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TR 3.12 FIRE PROTECTION

TR 3.12.2 Fire Suppression Water System

TRLCO 3.12.2 The fire suppression water system shall be OPERABLE with:

- a. Two fire suppression pumps, each with a capacity of 2500 gpm, with their discharge aligned to the fire suppression header;
- b. The general service water intake structure water level $\geq$ 562 feet; and
- c. An OPERABLE flow path capable of taking suction from the general service water intake structure and transferring the water through distribution piping with OPERABLE sectionalizing control or isolation valves to the yard hydrant curb valves, the last valve ahead of the water flow alarm device in each sprinkler or hose standpipe and the last valve ahead of the spray system required to be OPERABLE per TRLCO 3.12.3, TRLCO 3.12.6, and TRLCO 3.12.7.

APPLICABILITY: At all times.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One fire suppression pump inoperable.	A.1 Restore the inoperable pump to OPERABLE status.	7 days
	<u>OR</u> A.2 Provide an alternate backup pump.	7 days
B. The fire suppression water system inoperable for reasons other than Condition A.	B.1 Establish backup fire suppression water system.	24 hours
C. Required Actions and associated Completion Time of Condition B not met.	C.1 Be in MODE 2.	7 hours
	<u>AND</u> C.2 Be in MODE 3.	13 hours
	<u>AND</u> C.3 Be in MODE 4.	37 hours

SURVEILLANCE REQUIREMENTS

SURVEILLANCE		FREQUENCY
TRSR 3.12.2.1	Verify the general service water intake structure water level is $\geq$ 562 ft.	7 days
TRSR 3.12.2.2	Verify the electrolyte level of each diesel-driven fire pump starting 24-volt battery bank battery is above the plates.	7 days
TRSR 3.12.2.3	Verify the battery specific gravity of the diesel-driven fire pump starting 24-volt battery bank corrected to 77°F, is $\geq$ 1.235.	7 days
TRSR 3.12.2.4	-----NOTE----- The voltage is to be checked with the battery charger connected. ----- Verify the diesel-driven fire pump starting 24-volt battery bank battery voltage, is $\geq$ 26.2 volts.	7 days
TRSR 3.12.2.5	Start the electric motor-driven fire suppression pump and operate it for 15 minutes on recirculation flow.	31 days
TRSR 3.12.2.6	-----NOTE----- For valves that are not accessible during unit operation, not required to be performed in MODES 1, 2, and 3, or MODE 4 of $\leq$ 24 hours. ----- Verify that each manual, powered-operated, or automatic valve in the flow path is in the correct position.	31 days

(continued)