

50-341

DETROIT EDISON - FERMI 2
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TMTRM	TRM VOL I	44		11	IR	05/04/01		AFC

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Revision 44 dated 05/04/01

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Fermi 2

Technical Requirements Manual

Volume I

Detroit
Edison

<i>ARMS - INFORMATION</i>			
DTC: TMTRM	File: 1754	DSN: TRM VOL I	Rev: 44
Date: 05/04/2001	Recipient 935		

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SURVEILLANCE REQUIREMENTS

-----NOTES-----

1. Each sealed source shall be tested for contamination by the licensee, or other persons specifically authorized by the Commission or an Agreement State.
 2. The test method shall have a detection sensitivity of at least 0.005 μCi per test sample.
-

SURVEILLANCE	FREQUENCY
<p>TRSR 3.7.5.1 -----NOTE-----</p> <p>Only applicable to: sources with half-life >30 days. Tritium and gaseous sources; startup sources and fission detectors previously subjected to core flux; and sources not in use are excluded from testing.</p> <p>-----</p> <p>Verify each sealed source leakage and/or contamination is within limit.</p>	<p>6 months</p>
<p>TRSR 3.7.5.2 -----NOTE-----</p> <p>Only applicable to sealed startup sources and fission detectors not previously subjected to core flux.</p> <p>-----</p> <p>Verify each sealed source leakage and/or contamination is within limit.</p>	<p>Once within 31 days prior to use</p> <p><u>AND</u></p> <p>Following repair or maintenance to the source</p>
<p>TRSR 3.7.5.3 -----NOTE-----</p> <p>Only applicable to sources not in use.</p> <p>-----</p> <p>Verify each sealed source leakage and/or contamination is within limit.</p>	<p>Once within 6 months prior to transfer</p>

SURVEILLANCE REQUIREMENTS (continued)

SURVEILLANCE	FREQUENCY
<p>TRSR 3.12.2.13 -----NOTE----- Measured performance shall be recorded at minimum and rated loads. ----- Verify that each fire pump develops a discharge of 150% rated capacity at 65% of rated pressure [$>(3750 - 10\%) \text{ gpm at } \geq (104 - 10\%) \text{ psig}$].</p>	18 months
<p>TRSR 3.12.2.14 Cycle each valve in the flow path that is not testable during plant operation through at least one complete cycle of full travel.</p>	18 months
<p>TRSR 3.12.2.15 Verify that each fire suppression pump starts sequentially to maintain the fire suppression water system pressure ≥ 105 psig.</p>	18 months
<p>TRSR 3.12.2.16 Inspect the diesel of the diesel-driven fire suppression pump to an inspection in accordance with procedures prepared in conjunction with its manufacturer's recommendations for the class of service.</p>	18 months
<p>TRSR 3.12.2.17 Verify the diesel-driven fire pump starting 24-volt battery bank battery and battery racks, show no visual indication of physical damage or abnormal deterioration.</p>	18 months

(continued)

TR B3.12 FIRE PROTECTION

TR B3.12.2 Fire Suppression Water System

BASES

The OPERABILITY of the fire suppression systems ensures that adequate fire suppression capability is available to confine and extinguish fires occurring in any portion of the facility where safety-related equipment is located. The fire suppression systems consists of the water system, spray and/or sprinkler systems, CO₂ systems, Halon systems, and fire hose stations. The collective capability of the fire suppression systems is adequate to minimize potential damage to safety-related equipment and is a major element in the facility fire protection program.

In the event that portions of the fire suppression systems are inoperable, alternate backup fire fighting equipment is required to be made available in the affected areas until the inoperable equipment is restored to service. When the inoperable fire fighting equipment is intended for use as a backup means of fire suppression, a longer period of time is allowed to provide an alternate means of fire fighting than if the inoperable equipment is the primary means of fire suppression.

The surveillance requirements provide assurances that the minimum OPERABILITY requirements of the fire suppression systems are met. An allowance is made for ensuring a sufficient volume of Halon in the Halon storage tanks by verifying the weight and pressure of the tanks.

An exception is made to TRSR 3.12.2.6 and TRSR 3.12.2.11 for valves not accessible during unit operation. The valve that meets this criterion is T8000F037.

In the event the fire suppression water system becomes inoperable, immediate corrective measures must be taken since this system provides the major fire suppression capability of the plant.
