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Revision 75 dated 7/26/05

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Fermi 2

Technical Requirements Manual

Volume I

Detroit
Edison

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TR 3.12 FIRE PROTECTION

TR 3.12.1 Fire Detection Instrumentation

TRLCO 3.12.1 The fire detection instrumentation for each fire detection zone shown in Table TR3.12.1-1 shall be OPERABLE.

APPLICABILITY: When equipment protected by the fire detection instrumentation is required to be OPERABLE.

ACTIONS

----------NOTE----------
Separate Condition entry is allowed for each instrument.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more zones with < the total number of instruments shown in Table TR3.12.1-1 for Function A, but > one half of the total number of instruments shown in Table TR3.12.1-1 for Function A.	A.1 Restore Function A instrument(s) to OPERABLE status.	14 days

(continued)

TR 3.12 FIRE PROTECTION

TR 3.12.3 Spray and Sprinkler Systems

TRLCO 3.12.3 The spray and sprinkler system shown in Table TR3.12.3-1 shall be OPERABLE.

APPLICABILITY: When equipment protected by the spray and/or sprinkler systems is required to be OPERABLE.

ACTIONS

----------NOTE----------
Separate Condition entry is allowed for each system.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more required spray and/or sprinkler systems inoperable.	A.1 --------NOTE--------- Only applicable to areas 1.a, 1.d, 1.e, 2.a, 2.b, and 2.d. ---------- Establish a continuous fire watch with backup fire suppression equipment.	1 hour
	AND	
	A.2 --------NOTE--------- Only applicable to areas 1.b, 1.c, 1.f, 2.c, 3.a, and 4.a. ---------- Establish an hourly fire watch patrol.	1 hour

TR 3.12 FIRE PROTECTION

TR 3.12.4 CO_2 Systems

TRLCO 3.12.4 The following low pressure CO_2 systems shall be OPERABLE:

a. Emergency diesel generators, RHR complex;

b. Standby gas treatment system charcoal filters, Auxiliary Building, elevation 677 ft 6 in;

c. Cable tray area, Auxiliary Building, elevation 631 ft; and

d. Outside Division II switchgear room, Auxiliary Building, elevation 643 ft 6 in.

APPLICABILITY: When equipment protected by the CO_2 systems is required to be OPERABLE.

ACTIONS

----------NOTE----------
Separate Condition entry is allowed for each system.

CONDITION	REQUIRED ACTION		COMPLETION TIME
A. One or more of the above required CO_2 systems inoperable.	A.1	---------NOTE-------- Only applicable to systems c and d above. ---------- Establish a continuous fire watch with backup fire suppression equipment.	1 hour
	AND		
	A.2	---------NOTE-------- Only applicable to systems a and b above. ---------- Establish an hourly fire watch patrol.	1 hour

TR 3.12 FIRE PROTECTION

TR 3.12.5 Halon Systems

TRLCO 3.12.5 The following halon systems shall be OPERABLE with the storage tanks of either the main bank or the reserve bank having at least 95% of the main bank or the reserve bank full charge weight and 90% of the main bank or the reserve bank full charge pressure:

a. Relay room, elevation 613 ft 6 in;

b. Cable spreading room, elevation 630 ft 6 in; and

c. Computer room, and under floor, elevation 655 ft 6 in.

APPLICABILITY: When equipment protection by the halon systems is required to be OPERABLE.

ACTIONS

----------NOTE----------
Separate Condition entry is allowed for each system.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more of the above required Halon systems inoperable.	A.1 ---------NOTE-------- Only applicable to systems a and b above. ---------- Establish a continuous fire watch with backup fire suppression equipment.	1 hour
	AND	
	A.2 ---------NOTE-------- Only applicable to system c above. ---------- Establish an hourly fire watch patrol.	1 hour

TR 3.12 FIRE PROTECTION

TR 3.12.6 Fire Hose Stations

TRLCO 3.12.6 The fire hose stations shown in Table TR3.12.6-1 shall be OPERABLE.

APPLICABILITY: When equipment in the areas protected by the fire hose stations is required to be OPERABLE.

ACTIONS

----------NOTE----------
Separate Condition entry is allowed for each fire hose station.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more fire hose stations shown in Table TR3.12.6-1 inoperable.	----------NOTES---------- 1. One outlet of the wye shall be connected to the standard length of hose provided for the hose station. 2. The second outlet of the wye shall be connected to a length of hose sufficient to provide coverage for the area left unprotected by the inoperable hose station. 3. Where it can be demonstrated that the physical routing of the fire hose would result in a recognizable hazard to operating technicians, plant equipment, or the hose itself, the fire hose shall be stored in a roll at the outlet of the OPERABLE hose station. 4. Signs shall be mounted above the gated wye(s) to identify the proper hose to use. ----------	

(continued)

TR 3.12 FIRE PROTECTION

TR 3.12.7 Yard Fire Hydrants and Hydrant Hose Houses

TRLCO 3.12.7 The yard fire hydrants and associated hydrant hose houses shown in Table TR3.12.7-1 shall be OPERABLE.

APPLICABILITY: When equipment in the areas protected by the yard fire hydrants is required to be OPERABLE.

ACTIONS

----------NOTE----------
Separate Condition entry is allowed for each yard fire hydrant.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more of the yard fire hydrants or associated hydrant houses shown in Table TR3.12.7-1 inoperable.	A.1 ---------NOTE-------- Only applicable if the inoperable fire hydrant or associated hydrant hose house is the primary means of fire suppression. ---------- Have additional lengths of 2 ½ inch diameter hose located in an adjacent OPERABLE hydrant hose house to provide service to the unprotected area(s).	1 hour
	AND	
	A.2 ---------NOTE-------- Only applicable if the inoperable fire hydrant or associated hydrant hose house is not the primary means of fire suppression. ---------- Have additional lengths of 2 ½ inch diameter hose located in an adjacent OPERABLE hydrant hose house to provide service to the unprotected area(s).	24 hours

TR 3.12 FIRE PROTECTION

TR 3.12.8 Fire Rated Assemblies

TRLCO 3.12.8 All fire rated assemblies, including walls, floor/ceilings, cable tray enclosures and other fire barriers, separating safety related fire areas or separating portions of redundant systems important to safe shutdown within a fire area, and all sealing devices in fire rated assembly penetrations including fire doors, fire dampers, cable, piping and ventilation duct penetration seals and ventilation seals, shall be OPERABLE.

APPLICABILITY: At all times.

ACTIONS

----------NOTE----------
Separate Condition entry is allowed for each fire rated assembly.

CONDITION	REQUIRED ACTION		COMPLETION TIME
A. One or more of the above required fire rated assemblies and/or sealing devices inoperable.	A.1	Establish a continuous fire watch on at least one side of the affected assembly(s) and/or sealing device(s).	1 hour
	OR		
	A.2.1	Verify the OPERABILITY of fire detectors on at least one side of the inoperable assembly(s) and sealing device(s).	1 hour
	AND		
	A.2.2	Establish an hourly fire watch patrol.	1 hour