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AUTOMATED RECORD MANAGEMENT
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Technical Requirements Manual

Volume I

**Detroit
Edison**

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Fire Detection Instrumentation

FUNCTION	FIRE DETECTION ZONE	TOTAL NUMBER OF INSTRUMENTS ^(a)			
		IONIZATION (X/Y)	PHOTOELECTRIC (X/Y)	THERMAL (X/Y)	INFRARED (X/Y)
1. Reactor Building ^(b)					
a. Torus area	1	8/0			
b. NW corner rooms RHR pump	2	4/0			
c. SW corner rooms RHR pump	3	4/0			
d. SE corner rooms CRD HPCI	4	9/0			
e. NE corner rooms RCIC	5	5/0			
f. First floor	7	20/0		8/0	
g. EECW system area second floor	10	21/0			
h. Third floor	15	15/0			
i. Fourth floor	17	8/0		2/0	
j. Refueling area, fifth floor	17				10/0
2. Auxiliary Building					
a. Basement N control air equipment	4	6/0			
b. Corridors, 562 ft, 563 ft	5	2/0	2/0		
c. First floor mezzanine cable tray, 583 ft, 603 ft	6	17/0			
d. Switchgear room, corridor area second floor	9	10/0			
e. Cable tunnel	9	10/0			

(continued)

(a) (X/Y) X is number of Function A (early-warning fire detection and notification only) instruments.
Y is number of Function B (actuation of fire suppression system and early warning and notification) instruments.

(b) The fire detection instruments located within the containment are not required to be OPERABLE during the performance of Type A Containment Leakage Rate Tests.

TABLE TR3.12.1-1 (Page 2 of 3)
Fire Detection Instrumentation

FUNCTION	FIRE DETECTION ZONE	TOTAL NUMBER OF INSTRUMENTS ^(a)			
		IONIZATION (X/Y)	PHOTOELECTRIC (X/Y)	THERMAL (X/Y)	INFRARED (X/Y)
2. Auxiliary Building (continued)					
f. Cable tray area second floor mezzanine	9A	0/22			
g. DC/MCC room, third floor	14	0/10			
h. Switchgear, battery and M-G rooms, third floor	14	14/0			
i. Fourth floor	16	6/0			
j. Fifth floor	16	25/0			
3. Control Center					
a. Relay room	8	0/27			
b. Cable spreading room	11	0/28			
c. Control room	12	52/0	4/0	2/0	
d. Computer room	13	0/4	0/9		
e. Computer room above drop ceiling	13	5/0	2/0		
4. RHR Complex					
a. Division I pump room	50	8/0			
b. Division II pump room	51	8/0			
c. EDG 11 room suppression				0/8	
d. EDG 12 room suppression				0/8	
e. EDG 13 room suppression				0/8	
f. EDG 14 room suppression				0/8	

(continued)

(a) (X/Y) X is number of Function A (early-warning fire detection and notification only) instruments.
Y is number of Function B (actuation of fire suppression system and early warning and notification) instruments.

TABLE TR3.12.1-1 (Page 3 of 3)
Fire Detection Instrumentation

FUNCTION	FIRE DETECTION ZONE	TOTAL NUMBER OF INSTRUMENTS ^(a)			
		IONIZATION (X/Y)	PHOTOELECTRIC (X/Y)	THERMAL (X/Y)	INFRARED (X/Y)
4. RHR Complex (continued)					
g. EDG 11 switchgear room	52	6/0			
h. EDG 12 switchgear room	53	6/0			
i. EDG 13 switchgear room	54	6/0			
j. EDG 14 switchgear room	55	6/0			
5. General service water pump house					
a. First floor	31	2/0		3/0	

(a) (X/Y) X is number of Function A (early-warning fire detection and notification only) instruments.
Y is number of Function B (actuation of fire suppression system and early warning and notification) instruments.