



FORT ST. VRAIN NUCLEAR GENERATING STATION
PUBLIC SERVICE COMPANY OF COLORADO

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FIRE PROTECTION OPERABILITY REQUIREMENTS

Fire Detectors

FPOR-12 The minimum number of detectors for each area and each zone given in Table FPOR-12-1 and the Control Room fire annunciator shall be operable.

APPLICABILITY: At all times.

ACTIONS:

- a. With the Control Room annunciator system inoperable or number of operable detectors in each area or zone less than the minimum required, within 1 hour, the Operations Manager or designee shall review the activities taking place or planned in the area, and the potential fire hazards, and determine the need for and frequency of a fire watch.
- b. If no fire watch is determined necessary, the minimum number of required fire detectors shall be returned to operable state within 30 days or establish an hourly fire watch within the next one hour.

SURVEILLANCE REQUIREMENTS:

- a. For all detectors, operability shall be demonstrated at least annually, by:
 - 1) Functionally testing all supervised circuits associated with the detectors.
 - 2) Functionally testing all the detectors and alarms.
- b. Every 2 years perform a sensitivity test on all detectors.

BASIS FOR FPOR-12:

Operability of the Fire Detectors ensures that adequate warning capability is available for the prompt detection of fires. This capability is required in order to detect and locate fires in their early stages. Prompt detection of fires will reduce the potential for damage to equipment and is an integral element in the overall facility Fire Protection Program.

In the event that a portion of the Fire Detection System is inoperable, the establishment of a fire watch in the affected areas may be required to provide detection capability until the inoperable instrumentation is restored to operable.

The Control Room alarm function of detectors in any zone or area may be disabled as described in the detailed surveillance procedure provided the affected zone is assigned a fire watch, if necessary.

The smoke detection and alarm systems provide detection and alarm capability for the Control Room, Auxiliary Electric Equipment Room, the 480 Volt Switch Gear Room, the congested cable areas located at the "G" and "J" walls, selected Reactor Building HVAC Return Air Ducts, Technical Support Center, Turbine Building, Reactor Building, Service Water Pump House, and other selected areas.

During Decommissioning, there is little or no activity in most Reactor and Turbine Building areas. The majority of the normally operating systems and equipment are shut down and power has been snut off or disconnected. Cable trays remain in place, but most electrical cables have been deenergized. Most hydraulic systems/components have been drained and are no longer operational. When a fire detector or annunciator becomes inoperable or is removed from service, the Operations Manager's (or designee's) review will determine the severity of the situation and subsequent need for compensatory measures. Should the number of operable detectors in an area or zone be less than the minimum required, 30 days is sufficient time to restore inoperable detectors to operable status or establish an hourly fire watch within the next one hour.

The Surveillance Requirements specified for this instrumentation are adequate to ensure proper operation in the event of a fire.

TABLE: FPOR-12-1

ZONE (1 through 19 Pyrotronic) (27 through 35 Kidde)	NUMBER OF DETECTORS	MINIMUM NUMBER OF OPERABLE	DETECTOR NUMBER ID-45 _____
1) Control Room, El 4829'	6	4	103,104,105,106 107,108
2) Auxiliary Electric Room, El 4811'	3	2	110,112,114
3) Auxiliary Electric Room, El 4811'	3	2	111,113,115
4) Auxiliary Electric Room Duct	1	0	109
5) 480 Volt Switchgear Room, El 4791'	3	1	116,118,120
6) 480 Volt Switchgear Room, El 4791'	3	1	117,119,121
7) Rx Bldg "J" Wall, El 4740' to 4781'	4	3	126,127,128,148
8) Rx Bldg "J" Wall, El 4791' to 4829'	4	1	129,130,131,132
9) Rx Bldg "J" Wall, El 4829' to 4849'	2	1	133,134
10) Rx Bldg "J" Wall, El 4849' to 4881'	2	1	135,136
11) Turb Bldg "G" Wall, El 4791'	2	1	122,123
12) Turb Bldg "G" Wall, El 4811' to 4829'	2	1	124,125
13) Rx Bldg HVAC Return Air Duct, El 4881'	1	0	137
14) Rx Bldg HVAC Return Air Duct, El 4849' to 4854'	4	0	138,139,140,141
15) Rx Bldg HVAC Return Air Duct, El 4769' to 4781'	6	0	142,143,144,145 146,147
16) Deleted			
17) Tech Support Center	2	2	208,209
19) Control Room Ceiling, El 4829'	2	1	401,402
27) Bldg 10 HVAC Duct Detection	1	1	242
28) Bldg 10, El 4835'-6"	4	3	243,244,245,246
29) Bldg 10 walkover El 4829' (stairs)	1	1	247
30) Bldg 10 walkover, El 4829' (bullpen)	1	1	248
31) Bldg 10, El 4824' (equipment room)	2	1	249,250
32) Bldg 10, El 4824' (equipment room)	2	1	251,252
33) Bldg 10, El 4824' (offices)	4	3	253,254,255,256
34) Bldg 10, El 4811' (comp room S)	2	2	257,258
35) Bldg 10, El 4811' (comp room S) a) Computer room b) Computer room below floor	2 1	1 1	260,261 259

ZONE (36 through 51 Kidde) (10 through 19 Gamewell)	NUMBER OF DETECTORS	MINIMUM NUMBER OF OPERABLE	DETECTOR NUMBER ID-45 _____
36) Turb Bldg West, Maintenance areas a) Office area b) Welding area c) Shop area, North d) Shop area, South	2 1 3 1	1 1 1 1	289,290 332 291,292,422 293
37) Bldg 10, El 4811' (comp room N)	2	2	264,265
38) Bldg 10, El 4811' walkover	1	1	266
39) Bldg 10, El 4791' (S end)	3	1	267,268,269
40) Bldg 10 North Mezz, El 4791' to 4800'	3	1	270,271,272
41) Bldg 10, El 4791' (N end)	2	1	273,274
42) Bldg 10, El 4791' (N end)	3	1	275,276,277
43) Bldg 10, El 4791' Battery Room 1C	1	1	278
44) Bldg 10, El 4791' Battery Room 1C	1	0	279
45) Bldg 10, El 4791' walkover	1	1	280
46) Rx Bldg Rad Waste Storage Area, El 4771'	1	1	184
47) Turb Bldg, El 4811' Hydraulic Valve Area	6	3	185,186,187,188 189,190
48) Rx Bldg, El 4740' Hydraulic Power Units	2	1	197,198
49) Turb Bldg, El 4791', MCC2 & MCC3	2	1	191,192
50) Serv Water Pump Bldg	2	1	193,194
51) Circ Water Makeup Pump Bldg	2	1	195,196
10) Fuel Storage Bldg, El 4791'	2	1	435,436
12) Turb Bldg, Access Bay Area, El 4846'	8	7	334,335,343,344 345,346,347,348
13) Turb Bldg, North, Hydraulic Valve Area, El 4811' a) East b) Central	2 3	1 1	a) 326,329 b) 327,328,413
14) Turb Bldg West, Generator Stator Coolers, El 4811'	1	1	330
15) Turb Bldg West, Heat Sys Heat Exch 5 & HP/LP Htr Area, El 4811'	4	3	322,391,342,416
16) Turb Bldg East, HP/LP FW Htrs, El 4811'	1	1	325
17) Turb Bldg Southeast, Vent Fans, El 4811'	2	1	323,417
18) Turb Bldg 480V Switchgear & Sample Panel, El 4811'	1	1	324
19) Turb Bldg HRH Bypass Valves, #5 FW Htr, El 4811'	1	1	331

ZONE (20 through 39 Gamewell)	NUMBER OF DETECTORS	MINIMUM NUMBER OF OPERABLE	DETECTOR NUMBER ID-45 _____
20) Main Office Area Hlwy, El 4811'	1	1	390
a) North hallway	1	1	333
b) Closet	3	2	311, 316, 319
c) Hallway			
21) Main Office Area South, El 4811'	8	8	312, 313, 314, 315 317, 318, 320, 321
22) Main Office Area North, El 4811'	4	2	306, 307, 308, 309
a) Documents room	1	1	310
b) Office			
23) Turb Bldg West, Circ/Serv Water Valve Room, El 4791'	1	1	288
24) Turb Bldg - Northwest, El 4791'	2	1	a) 286, 287
a) Electric Shop Hallway	3	1	b) 281, 282, 283
b) Electric Shop Open Area	1	1	c) 284
c) Electric Shop Storage Area	2	1	d) 285, 349
d) Telephone Room			
25) Turb Bldg Northeast, Serv Water Booster Pumps, El 4791'	1	1	302
26) Turb Bldg North, Inst Air Comps 1A & 1B, El 4791'	1	1	303
27) Turb Bldg NW Stairs, El 4791'	1	1	304
28) Turb Bldg Passageways Northwest of Condenser, El 4791'	2	1	305, 341
29) Turb Bldg Northwest Pasgwy from Condenser to Aux Blr, El 4791'	2	1	352, 419
30) Turb Bldg South, Pasgwy from Train Bay to Diesel Gen Rooms, El 4791'	4	2	295, 338, 339, 340
31) Turb Bldg SE, BFP 1A, El 4791'	3	2	297, 337, 418
32) Turb Bldg East, BFP 1A & 1B, El 4791'	1	1	298
33) Turb Bldg Southeast Demineralizer Room, El 4791'	2	2	296, 299
34) Turb Bldg East, Condensate Polishers, El 4791'	2	1	300, 424
35) Turb Bldg North, BFP 1C, EHC Pumps, El 4791'	1	1	301
36) Turb Bldg West, Mntc Areas, El 4791'	7	6	289, 290, 291, 292 293, 332, 422
37) Rx Bldg East, Cable Trays S-N, El 4864'	1	1	389
38) Rx Bldg Northeast Stairs, FSW Valve Station, El 4864'	2	1	387, 388
39) Rx Bldg, Purge Vacuum Pump Room, El 4864'	1	1	386

ZONE (40 through 65 Gamewell)	NUMBER OF DETECTORS	MINIMUM NUMBER OF OPERABLE	DETECTOR NUMBER ID-45 _____
40) PCRV East, Cable Trays N-S, El 4864'	1	1	384
41) PCRV North, Cable Trays E-W RSD Panels, El 4864'	1	1	385
42) PCRV West, Cable Trays N-S, El 4864'	1	1	382
43) PCRV South, Cable Trays W-E, El 4864'	1	1	383
46) Elevator Machine Room, El 4921'	1	1	423
47) Turb Bldg Southwest, Crane Bay Area, El 4811'	1	1	414
48) Turb Bldg South Bus Duct, El 4811'	1	1	415
49) Rx Bldg Southeast Sys 21 Pressurizing Nash Comp, El 4781'	4	2	370,407,408,409
50) Rx Bldg Elevator Landing, El 4781'	1	1	371
51) Turb Bldg Dispensary, El 4791'	1	1	336
53) Rx Bldg East, Cable Trays N-S, El 4816'	1	1	381
54) Rx Bldg East, Getter Htr MG Sets & NE Stairs, El 4816'	1	1	376
55) Rx Bldg East, Hoisting Access N-S, El 4816'	1	1	377
56) Rx Bldg Central, Gas Waste/Liquid Waste Valve Stations, El 4816'	3	2	378,379,380
57) PCRV East, Cable Trays S-N, El 4816'	1	1	374
58) PCRV North, Cable Trays E-W, El 4816'	1	1	375
59) PCRV West, Cable Trays N-S, El 4816'	1	1	372
60) PCRV South, Cable Trays W-E, El 4816'	1	1	373
61) PCRV West, LP 1 BW Pumps - EFW Coolers, El 4740'	1	1	350
62) PCRV - North, He Recircs RIX, El 4740'	2	1	353,420
63) PCRV East, LP 2 BW Pumps - BW Accumulators, El 4740'	1	1	351
64) Rx Bldg Southeast, Sys 47 Cooling Water Heat Exch, El 4756'	2	1	367,368
65) Rx Bldg Central, Sys 46 Cooling Water Heat Exch, El 4756' a) E-4601 b) E-4603	4	3	363,364,365,366

ZONE (66 through 82 Gamewell)	NUMBER OF DETECTORS	MINIMUM NUMBER OF OPERABLE	DETECTOR NUMBER ID-45 _____
66) Rx Bldg North, Data Acquisition Room, El 4756'	2	1	361,362
67) Rx Bldg Central, Across Hoisting Access N-S, El 4756'	1	1	369
68) Rx Bldg East, Cable Trays, MCC6 & N Stairs, El 4756'	1	1	360
69) PCRV East, Inst Racks/LP Separator, El 4759'	1	1	359
70) PCRV North, Inst Racks/LP Separator, El 4759'	1	1	354
71) PCRV West, Inst Racks LP 1 (N) LP 2 (S), El 4759'	2	1	355,356
72) PCRV South, Steam/Water Dump Valves, El 4759'	3	1	294,357,358
73) Turb Bldg East, Condenser, El 4791'	2	1	427,428
75) Firewater Pump House, El 4791'	2	2	425,426
78) Rx Bldg Crane Bay (R-902), El 4864'	2	2	410,411
79) Rx Bldg PCRV SE, El 4864'	1	0	412
81) 480V Switchgear Battery Rooms a) Battery Rooms b) Storage Room	2 1	2 0	431,432 430
82) Rx Bldg HP Laundry, El 4771'	1	1	421