

## INSTRUMENTATION

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### FIRE DETECTION INSTRUMENTATION

#### LIMITING CONDITION FOR OPERATION

3.3.3.8 As a minimum, the fire detection instrumentation for each fire detection zone shown in Table 3.3-11 shall be OPERABLE.

APPLICABILITY: Whenever equipment protected by the fire detection instrument is required to be OPERABLE.

#### ACTION:

- a. With any, but not more than one-half the total in any fire zone, Function A fire detection instruments shown in Table 3.3-11 inoperable, restore the inoperable instrument(s) to OPERABLE status within 14 days or within the next 1 hour establish a fire watch patrol to inspect the zone(s) with the inoperable instrument(s) at least once per hour, unless the instrument(s) is located inside the containment, then inspect that containment zone at least once per 8 hours or monitor the containment air temperature at least once per hour at the locations listed in Specification 4.6.1.5.
- b. With more than one-half of the Function A fire detection instruments in any fire zone shown in Table 3.3-11 inoperable, or with any Function B fire detection instruments shown in Table 3.3-11 inoperable, or with any two or more adjacent fire detection instruments shown in Table 3.3-11 inoperable, within 1 hour establish a fire watch patrol to inspect the zone(s) with the inoperable instrument(s) at least once per hour, unless the instrument(s) is located inside the containment, then inspect that containment zone at least once per 8 hours or monitor the containment air temperature at least once per hour at the locations listed in Specification 4.6.1.5.
- c. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

#### SURVEILLANCE REQUIREMENTS

4.3.3.8.1 Each of the above required fire detection instruments which are accessible during plant operation shall be demonstrated OPERABLE at least once per 6 months by performance of a TRIP ACTUATING DEVICE OPERATIONAL TEST. Fire detectors which are not accessible during plant operation shall be demonstrated OPERABLE by the performance of a TRIP ACTUATING DEVICE OPERATIONAL TEST during each COLD SHUTDOWN exceeding 24 hours unless performed in the previous 6 months.

4.3.3.8.2 The NFPA Standard 72D supervised circuits supervision associated with the detector alarms of each of the above required fire detection instruments shall be demonstrated OPERABLE at least once per 6 months.

~~4.3.3.8.3 The nonsupervised circuits, associated with detector alarms, between the instrument and the control room shall be demonstrated OPERABLE at least once per 31 days.~~

TABLE 3.3-11  
FIRE DETECTION INSTRUMENTS

				MINIMUM INSTRUMENTS OPERABLE*			
Fire Zone	Description	Location		Smoke	Flame	Heat	Function**
1	R.H.R. PUMP 1B	GG-53	EL.522 + 0	1	0	1	A
2	R.H.R. PUMP 1A	FF-53	EL.522 + 0	1	0	1	A
3	CONT. SPRAY PUMP 1B	GG-54	EL.522 + 0	3	0	3	A
4	CONT. SPRAY PUMP 1A	GG-55	EL.522 + 0	2	0	2	A
9	AUX. F. W. PUMPS	BB-51	EL.543 + 0	13	0	<del>11</del> 11(6)	A(B)
10	MECH. PENE. ROOM	JJ-52	EL.543 + 0	3	0	3	A
11	CORRIDOR/CABLES	NN-51	EL.543 + 0	6	0	6	A
12	RECIP. CHG. PUMP	JJ-53	EL.543 + 0	1	0	1	A
13	SAFETY INJ PUMP 1B	HH-53	EL.543 + 0	1	0	1	A
14	SAFETY INJ PUMP 1A	GG-53	EL.543 + 0	1	0	1	A
15	CENT. CHG. PUMP 1B	JJ-54	EL.543 + 0	2	0	2	A
16	CENT. CHG. PUMP 1A	JJ-55	EL.543 + 0	2	0	2	A
17	AISLES/CABLES	KK-56	EL.543 + 0	18	0	18	A
18	AISLES/CABLES	EE-55	EL.543 + 0	6	0	6	A
21	AISLES/CABLES	NN-61	EL.543 + 0	6	0	6	A
27	AISLES/CABLES	KK-59	EL.543 + 0	15	0	15	A
28	AISLES/CABLES	EE-58	EL.543 + 0	1	0	1	A
29	SW GEAR EQUIP. ROOM	AA-50	EL.560 + 0	7	0	0	A
30	ELECT. PENE. ROOM	CC-50	EL.560 + 0	8	0	0	A
31	CORRIDOR/CABLES	EE-53	EL.560 + 0	5	0	5	A
32	CORRIDOR/CABLES	KK-52	EL.560 + 0	8	0	8	A
33	CORRIDOR/CABLES	NN-54	EL.560 + 0	10	0	10	A
34	AISLES/CABLES	JJ-56	EL.560 + 0	14	0	14	A
35	MOTOR CONTROL CENTERS	GG-56	EL.560 + 0	2	0	2	A
36	CABLE TRAY ACCESS	FF-56	EL.568 + 0	2	0	2	A
37	EQUIP. BATTERIES	DD-55	EL.554 + 0	5	0	4	A
38	EQUIP. BATTERIES	CC-55	EL.554 + 0	5	0	4	A
39	BATTERY ROOM	CC-56	EL.554 + 0	17	0	0	A
45	AISLES/CABLES	NN-60	EL.560 + 0	13	0	13	A
46	AISLES/CABLES	HH-59	EL.560 + 0	6	0	6	A
53	SW GEAR EQUIP. ROOM	AA-49	EL.577 + 0	7	0	0	A
54	ELEC. PENE. ROOM	CC-50	EL.577 + 0	10	0	0	A
55	AISLES/CABLES	NN-52	EL.577 + 0	9	0	9	A
56	AISLES/CABLES	PP-55	EL.577 + 0	13	0	13	A
57	AISLES/CABLES	LL-55	EL.577 + 0	11	0	11	A

TABLE 3.3-11 (Continued)

## FIRE DETECTION INSTRUMENTS

				MINIMUM INSTRUMENTS OPERABLE*			
Fire Zone	Description	Location		Smoke	Flame	Heat	Function
58	AISLES/CABLES	HH-55	EL. 577 + 0	21	0	21	A
59	MOTOR CONTROL CENTER	EE-54	EL. 577 + 0	2	0	2	A
60	CABLE ROOM	CC-56	EL. 574 + 0	18	0	15	A
65	AISLES/CABLES	PP-59	EL. 577 + 0	15	0	15	A
66	AISLES/CABLES	LL-59	EL. 577 + 0	4	0	4	A
71	ELECT. PENE. ROOM	CC-51	EL. 594 + 0	10	0	0	A
72	CONTROL ROOM	CC-56	EL. 594 + 0	23	0	6	A
73	VENT. EQUIP. ROOM	FF-56	EL. 594 + 0	9	0	0	A
74	AISLES/CABLES	LL-56	EL. 594 + 0	25	0	25	A
76	AISLES/CABLES	PP-54	EL. 594 + 0	15	0	15	A
80	CONTROL ROOM	BB-59	EL. 594 + 0	22	0	6	A
81	VEN. EQUIP. ROOM	FF-58	EL. 594 + 0	12	0	0	A
82	AISLES/CABLES	KK-58	EL. 594 + 0	2	0	2	A
84	AISLES/CABLES	NN-58	EL. 594 + 0	7	0	7	A
89	FUEL POOL AREA #1	PP-50	EL. 605 + 10	19	7	19	A
128	UHI BLDG.	HH-44	EL. 550 + 0	2	3	2	A
129	FUEL POOL PURGE ROOM	NN-50	EL. 631 + 6	6	0	6	A
131	REACTOR BLDG.	BEL. 0°-45°	EL. 565 + 3	4	0	0	A
132	REACTOR BLDG.	BEL. 45°-90°	EL. 565 + 3	3	0	0	A
133	REACTOR BLDG.	BEL. 90°-135°	EL. 565 + 3	4	0	0	A
134	REACTOR BLDG.	BEL. 135°-180°	EL. 565 + 3	5	0	0	A
135	REACTOR BLDG.	BEL. 180°-225°	EL. 565 + 3	4	0	0	A
136	REACTOR BLDG.	BEL. 270°-315°	EL. 565 + 3	3	0	0	A
137	REACTOR BLDG.	BEL. 315°-0°	EL. 565 + 3	8	0	0	A
138	REACTOR BLDG.	BEL. 0°-45°	EL. 586 + 3	6	0	0	A
139	REACTOR BLDG.	BEL. 45°-90°	EL. 586 + 3	4	0	0	A
140	REACTOR BLDG.	BEL. 90°-135°	EL. 565 + 3 586 + 3	3	0	0	A
141	REACTOR BLDG.	BEL. 135°-180°	EL. 586 + 3	8	0	0	A
142	REACTOR BLDG.	BEL. 180°-225°	EL. 586 + 3	5	0	0	A
143	REACTOR BLDG.	BEL. 315°-0°	EL. 586 + 3	5	0	0	A
144	REACTOR BLDG.	BEL. 0°-45°	EL. 593 + 2½	14	0	0	A
145	REACTOR BLDG.	BEL. 45°-90°	EL. 593 + 2½	17	0	0	A
146	REACTOR BLDG.	BEL. 90°-135°	EL. 593 + 2½	11	0	0	A
147	REACTOR BLDG.	BEL. 135°-180°	EL. 593 + 2½	10	0	0	A

TABLE 3.3-11 (Continued)  
FIRE DETECTION INSTRUMENTS

				MINIMUM INSTRUMENTS OPERABLE*			
Fire Zone	Description	Location		Smoke	Flame	Heat	Function**
148	REACTOR BLDG	BEL. 180°-225°	EL. 593 + 2½	2	0	0	A
149	REACTOR BLDG	BEL. 315°-0°	EL. 593 + 2½	7	0	0	A
169	RCP-1A	REACTOR BLDG.	EL. 593 + 2½	0	0	1	A
170	RCP-1B	REACTOR BLDG.	EL. 593 + 2½	0	0	1	A
171	RCP-1C	REACTOR BLDG.	EL. 593 + 2½	0	0	1	A
172	RCP-1D	REACTOR BLDG.	EL. 593 + 2½	0	0	1	A
177	FILTER BED UNIT 1B	REACTOR BLDG.	EL. 565 + 3 BEL.	2	0	2	A
178	FILTER BED UNIT 1A	REACTOR BLDG.	EL. 565 + 3 BEL.	2	0	2	A
181a	ANNULUS		EL. 561 + 0	0	0	1	A
181b	ANNULUS		EL. 583 + 11	0	0	1	A
181c	ANNULUS		EL. 604 + 0	0	0	1	A
181d	ANNULUS		EL. 629 + 5	0	0	1	A
181e	ANNULUS		EL. 649 + 5	0	0	1	A
181f	ANNULUS		EL. 664 + 0	0	0	1	A
212	AISLES/CABLES	GG-57	EL. 522 + 0	2	0	2	A
213	AUX. BATT. ROOM	AA-55	EL. 554 + 0	4	0	4	A
215	D/G CORRIDOR	BB-45	EL. 556 + 0	3	0	3	A
216	D/G CORRIDOR	AA-45	EL. 556 + 0	2	0	2	A
219	MECH. PEN. ROOM	HH-52	EL. 577 + 0	6	0	6	A
222	AIRLOCK ACCESS	JJ-51	EL. 605 + 10	1	0	1	A
225	RN PUMP STRUCTURE	WEST SECTION	EL. 600 + 0	8	0	8	A
226	RN PUMP STRUCTURE	EAST SECTION	EL. 600 + 0	8	0	8	A
231	REACTOR BLDG.	260°-303°	EL. 668 + 10	10	0	0	A

\*The fire detection instruments located within the containment are not required to be operable during the performance of Type A Containment Leakage Rate tests.

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\*\* Function A: Early warning fire detection and notification only.

Function B: Actuation of fire suppression system and early warning and notification.



TABLE 3.3-11

FIRE DETECTION INSTRUMENTS

Fire Zone	Description	Location	MINIMUM INSTRUMENTS OPERABLE*			
			Smoke	Flame	Heat	Function*
184	Seal Water Heat Exchanger	54-66, 560+0	1 (Duct)	0	0	A
185	Waste Gas Decay Tanks Waste Gas Hydrogen Recombiner Waste Gas Compressor Package A & B	61-NN, 5 +0	1 (Duct)	0	0	A
186	Boric Acid Transfer Pumps 1A, 1B, 2A & 2B	59-PP, 560+0	1 (Duct)	0	0	A
RF 1A	Diesel Generator 1A	EE-41, 556+0	0	0	0 (10)	A (B)
RF 1B	Diesel Generator 1B	AA-41, 556+0	0	0	0 (10)	A (B)

PLANT SYSTEMS

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SURVEILLANCE REQUIREMENTS

4.7.10.1.1 The Fire Suppression Water System shall be demonstrated OPERABLE:

- a. At least once per 31 days on a STAGGERED TEST BASIS by starting each electric motor-driven pump and operating it for at least 15 minutes on recirculation flow, *which is accessible during plant operation*
- b. At least once per 31 days by verifying *(that each valve (manual, power-operated, or automatic) in the flow path is in its correct position,*
- c. At least once per 6 months by performance of a system flush of the outside distribution loop to verify no flow blockage, *by fully opening the hydraulically most remote hydrant,*
- d. At least once per 12 months by cycling each testable valve in the flow path through at least one complete cycle of full travel, *(IP 1)*
- e. At least once per 18 months *By* performing a system functional test which includes simulated automatic actuation of the system throughout its operating sequence, and:
  - a. ~~2~~ Verifying that each automatic valve in the flow path actuates to its correct position,
  - b. ~~2~~ Verifying that each pump develops at least 2500 gpm at a system pressure of 144 psig,
  - c. ~~2~~ Cycling each valve in the flow path that is not testable during plant operation through at least one complete cycle of full travel, and
  - d. ~~2~~ Verifying that each fire suppression pump starts ~~(sequentially)~~ *to maintain the Fire Suppression Water System pressure greater than or equal to 144 psig within 10 psig of its intended starting pressure (A pump, primary switch - 95 psig; B pump, primary switch - 90 psig; C pump, primary switch - 85 psig).*
- f. At least once per 3 years by performing a flow test of the system in accordance with Chapter 8, Section 16 of the Fire Protection Handbook, 15th Edition, published by the National Fire Protection Association.

2) By verifying that each valve (manual, power-operated, or automatic) in the flow path, which is inaccessible during plant operation, is in its correct position.

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PLANT SYSTEMS

SPRAY AND/OR SPRINKLER SYSTEMS

LIMITING CONDITION FOR OPERATION

3.7.10.2 The following Spray and/or Sprinkler Systems shall be OPERABLE:

a. Elevation 522 + 0 ft - Auxiliary Building

<u>Room No.</u>	<u>Equipment</u>
100	RHR & Containment Spray Room & Sump Pumps
101	Corridor
104	RHR Pump 1B
105	RHR Pump 1A
106	Corridor
111	Corridor

b. Elevation 543 + 0 ft - Auxiliary Building

230	Cent. Chg. Pump 1A
231	Cent. Chg. Pump 1B
250	Unit 1 Aux. Feedwater Pump Room

d. Elevation 560 + 0 ft - Auxiliary Building

300	Component Cooling Pumps 1A1, 1A2, 1B1 & 1B2
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f. Reactor Building

-	Annulus
-	Pipe Corridor
-	<del>Reactor Coolant Pumps 1A, 1B, 1C &amp; 1D</del>

APPLICABILITY: Whenever equipment protected by the Spray/Sprinkler System is required to be OPERABLE.

ACTION:

a. With one or more of the above required Spray and/or Sprinkler Systems inoperable, within 1 hour establish a continuous fire watch with backup fire suppression equipment for those areas in which redundant systems or components could be damaged; for other areas, establish an hourly fire watch patrol.

b. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

c. Elevation 554 + 0 ft. - Auxiliary Building  
350 Battery Room Corridor (DD-EE)

e. Elevation 574 + 0 ft - Auxiliary Building  
490 Cable Room Corridor (DD-EE)

PLANT SYSTEMS

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SURVEILLANCE REQUIREMENTS

4.7.10.2 Each of the above required Spray and/or Sprinkler Systems shall be demonstrated OPERABLE:

- a. At least once per 31 days by verifying that each valve (manual, power-operated, or automatic) in the flow path <sup>which is accessible during plant operation</sup> is in its correct position,
- b. At least once per 12 months by cycling each testable valve in the flow path through at least one complete cycle of full travel, and
- c. At least once per 18 months:
  - 1) By performing a system functional test which includes simulated automatic actuation of the system, and:
    - ~~Verifying that the automatic valves in the flow path actuate to their correct positions on a Fire Detection test signal, and~~
    - a.) Cycling each valve in the flow path that is not testable during plant operation through at least one complete cycle of full travel.
  - 2) By a visual inspection of <sup>each</sup> ~~the~~ sprinkler <sup>system starting at the system isolation valve</sup> ~~head~~ to verify ~~chain~~ the system's integrity; and
  - 3) By a visual inspection of each nozzle's spray area to verify the spray pattern is not obstructed.
  - 4) By verifying that each valve (manual, power-operated or automatic) in the flow path, which is inaccessible during plant operation, is in its correct position.



PLANT SYSTEMS

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CO<sub>2</sub> SYSTEMS

LIMITING CONDITION FOR OPERATION

3.7.10.3 The following High Pressure and Low Pressure CO<sub>2</sub> Systems shall be OPERABLE:

- a. Low Pressure CO<sub>2</sub> System - Diesel generator rooms, and
- b. High Pressure CO<sub>2</sub> System - Auxiliary feedwater pump rooms.

APPLICABILITY: Whenever equipment protected by the CO<sub>2</sub> Systems is required to be OPERABLE.

ACTION:

- a. With one or more of the above required CO<sub>2</sub> Systems inoperable, within 1 hour establish a continuous fire watch with backup fire suppression equipment for those areas in which redundant systems or components could be damaged; for other areas, establish an hourly fire watch patrol.
- b. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.7.10.3.1 Each of the above required CO<sub>2</sub> Systems shall be demonstrated OPERABLE at least once per 31 days by verifying that each valve (manual, power operated, or automatic) in the flow path is in its correct position.

4.7.10.3.2 Each of the above required Low Pressure CO<sub>2</sub> Systems shall be demonstrated OPERABLE:

- a. At least once per 7 days by verifying the CO<sub>2</sub> storage tank level to be greater than 44% of full capacity, and

~~At least once per 12 months by verifying the heat detectors and associated equipment function properly, and~~

- b. ~~At least once per 18 months by verifying:~~

- 1) ~~Each~~  
~~The system including valves, associated ventilation system, fire dampers, and fire door release mechanisms actuates manually and automatically, upon receipt of a simulated actuation signal, and~~

3) ~~Flow from each nozzle during a "Duff Test."~~ By a visual inspection of the discharge nozzles to assure no blockage.

- 2) Damper closure devices receive an actuation signal upon system operation, and

SURVEILLANCE REQUIREMENTS (Continued)

4.7.10.3.3 Each of the above required High Pressure CO<sub>2</sub> Systems shall be demonstrated OPERABLE:

- a. At least once per 6 months by verifying the weight of each CO<sub>2</sub> storage cylinder to be at least 90% of full charge weight, and

~~b. At least once per 12 months by verifying the heat detectors and associated equipment function properly, and~~

- b. ~~a~~ At least once per 18 months by:

- 1) Verifying <sup>each</sup> ~~the system, including associated ventilation system, fire dampers and fire door release mechanisms,~~ actuates manually and automatically, upon receipt of a simulated actuation signal, ~~and~~

3) ~~A visual inspection of the discharge performance of a flow test through headers and nozzles to assure no blockage.~~

- 2) Verifying that damper closure devices receive an actuation signal upon system operation, and

PLANT SYSTEMS

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FIRE HOSE STATIONS

LIMITING CONDITION FOR OPERATION

3.7.10.4 The fire hose stations given in Table 3.7-4 shall be OPERABLE.

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

ACTION:

- a. With one or more of the fire hose stations given in Table 3.7-4 inoperable, provide gated wye(s) on the nearest OPERABLE hose station(s). One outlet of the wye shall be connected to the standard length of hose provided for the hose station. 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. ~~Where it can be demonstrated that the physical routing of the fire hose would result in a recognizable hazard to~~ *station personnel* ~~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. Signs shall be mounted above the gated wye(s) to identify the proper hose to use. The above ACTION requirement shall be accomplished within 1 hour if the inoperable fire hose is the primary means of fire suppression; otherwise route the additional hose within 24 hours.
- b. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.7.10.4 Each of the fire hose stations given in Table 3.7-4 shall be demonstrated OPERABLE:

- a. At least once per 31 days, by a visual inspection of the fire hose stations accessible during plant operations to assure all required equipment is at the station.
- b. At least once per 18 months, by:
- 1) Visual inspection of the stations not accessible during plant operations to assure all required equipment is at the station,
  - 2) Removing the hose for inspection and reracking, and
  - 3) Inspecting all gaskets and replacing any degraded gaskets in the couplings.
- c. At least once per 3 years, by:
- 1) Partially opening each hose station valve to verify valve OPERABILITY and no flow blockage, and
  - 2) Conducting a hose hydrostatic test at a pressure of 200 psig or at least 50 psig above maximum fire main operating pressure, whichever is greater.

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TABLE 3.7-4

## FIRE HOSE STATIONS

<u>LOCATION</u>	<u>ELEVATION</u>	<u>HOSE RACK #</u>
1. Auxiliary Building		
59, FF	522+0	1RF235
55, FF	522+0	1RF248
63, MM	543+0	1RF211
60, MM	543+0	1RF212
58, PP	543+0	1RF218
57, JJ	543+0	1RF242
54-55, GG	543+0	1RF249
57, FF	543+0	1RF250
52-53, GG	543+0	1RF255-5
51, CC	543+0	1RF256
50-51, JJ-KK	543+0	1RF262
53, MM	543+0	1RF268
50-51, NN	543+0	1RF271
62, MM-NN	560+0	1RF203
58, PP	560+0	1RF219
56, NN	560+0	1RF220
57, KK	560+0	1RF243
54-55, FF-GG	560+0	1RF251
51, KK	560+0	1RF263
52, MM-NN	560+0	1RF269
56, BB	554+0	1RF487
52, AA-BB	560+0	1RF488
49, BB-CC	560+0	1RF489
45, BB	560+0	1RF997
58, PP	577+0	1RF221
56, KK	577+0	1RF244
54, GG	577+0	1RF252
52-53, KK	577+0	1RF258
51, KK	577+0	1RF264
51-52, NN	577+0	1RF272
56, PP	577+0	1RF278
49, BB-CC	577+0	1RF490
45, BB	577+0	1RF491
55, DD	574+0	1RF492
54, AA	574+0	1RF493
51, AA	577+0	1RF998
57, MM	594+0	1RF222
57, HH	594+0	1RF245
57, EE	594+0	1RF253
51, JJ	594+0	1RF259
53, NN	594+0	1RF275
50, BB	594+0	1RF985
51, KK	605+10	1RF265
51, MM	631+6	1RF495



3/4.7.11 FIRE BARRIER PENETRATIONSLIMITING CONDITION FOR OPERATION

3.7.11 All fire barrier penetrations (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 (fire doors, fire windows, fire dampers, cable, piping, and ventilation duct penetration seals) shall be OPERABLE.

APPLICABILITY: At all times.

ACTION:

- a. With one or more of the above required fire barrier penetrations and/or sealing devices inoperable, within 1 hour either establish a continuous fire watch on at least one side of the affected penetration, or verify the OPERABILITY of fire detectors on at least one side of the inoperable penetration and establish an hourly fire watch patrol.
- b. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.7.11.1 At least once per 18 months the above required fire barrier penetrations and sealing devices shall be verified OPERABLE by performing a visual inspection of:

- a. The exposed surfaces of each fire rated assembly,
- b. ~~Each fire window/fire damper and associated hardware, and~~
- c. At least 10% percent of each type of sealed penetration. If apparent changes in appearance or abnormal degradations are found, a visual inspection of an additional 10% of each type of sealed penetration shall be made. This inspection process shall continue until a 10% sample with no apparent changes in appearance or abnormal degradation is found. Samples shall be selected such that each penetration seal will be inspected every 15 years.

*At least 10% of all fire dampers. If apparent changes in appearance or abnormal degradations are found, a visual inspection of an additional 10% of the dampers shall be made. This inspection process shall continue until a 10% sample with no apparent changes in appearance or abnormal degradation is found. Samples shall be selected such that each fire damper will be inspected every 15 years.*

PLANT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

4.7.11.2 Each of the above required fire doors shall be verified OPERABLE by inspecting the closing mechanism and latches at least once per 6 months, and by verifying:

b. The OPERABILITY of the fire door supervision system for each electrically supervised fire door by performing a TRIP ACTUATING DEVICE OPERATIONAL TEST at least once per 31 days, and

c. That each locked closed fire door is closed at least once per 7 days.

a. The position of each closed fire door at least once per 24 hours.