

LIMITING CONDITIONS FOR OPERATIONSURVEILLANCE REQUIREMENTS3.14.C Fire Detection

1. The fire detection instrumentation for each plant listed in Table 3.14.C.1 shall be operable when the equipment in that area is required to be operable.
2. If the number of operable fire detection instruments is less than the minimum instrument operability requirement of Table 3.14.C.1:
 - a. establish a fire watch patrol to inspect each accessible area at intervals of at least:
 - 1) Once per shift for areas with less than the minimum number of operable instruments required by Table 3.14.C.1 but with at least one instrument operable.
 - 2) Once every hour for areas without an operable instrument.
 - b. restore accessible system components to an operable status within 14 days, or submit a Special Report to the the NRC within 31 days outlining the cause of the malfunction and the plans for restoring the instruments to an operable status. Reactor startup and/or continued reactor operation is permissible.

4.14.C Fire Detection

- 1.a. The smoke detectors listed in Table 3.14.C.1 shall be functionally tested semi-annually in accordance with the manufacturer's instructions.
 - b. The heat detectors listed in Table 3.14.C.1 shall be functionally tested semi-annually with a heat source.
 - c. The NFPA Code 72D Class A supervised circuits between the local panel and control room of each of the above required fire detection instruments shall be demonstrated OPERABLE at least once per 6 months.
 - d. Thermal heat detection cable shall be tested for alarm functions (continuity and trouble alarms) at least once per six months. Loop resistance shall be measured, recorded, and compared to that previously recorded.
2. The testing interval for smoke and heat detectors which are inaccessible due to high radiation or inerting may be extended until such time as the detectors become accessible for a minimum of 36 hours. Such detectors shall be functionally tested at a maximum interval of once per refueling cycle.

3.14.D Fire Barriers

1. Fire barriers (including walls, floor, ceilings, electrical cable enclosures, cable, piping and ventilation duct penetration seals, fire doors, and fire dampers) which protect safety related systems required to ensure safe shutdown capability in the event of a fire, shall be functional.

2. If the requirements of 3.14.D.1 cannot be met, within one hour establish a continuous fire watch on at least one side of the affected fire barrier, or verify the operability of fire detectors on at least one side of the inoperable fire barrier and establish an hourly fire watch patrol. Reactor startup and continued reactor operation is permissible.

*Fire barrier inspections requiring access to radiation areas may be deferred until the next refueling outage or shutdown initially expected to be of at least 30-day duration.

4.14.D Fire Barriers

1. Fire barriers required to meet the provisions of 3.14.D.1 (fire doors excluded - see specification 4.14.D.2) shall be verified operable following maintenance or modifications, and by performing the following visual inspection at least once per 18 months:*
 - a. The exposed surface of each fire barrier wall, floor, ceiling, and electrical cable enclosure. Exposed surfaces are those surfaces that can be viewed by the inspector from the floor.
 - b. Each fire damper, excluding those dampers which require scaffolding for inspection or present ALARA concerns.
 - c. At least 25 percent of the fire dampers not inspected under the provisions of 4.14.D.1.b, such that each of these dampers is inspected once per 6 years.
 - d. At least 10 percent of each type of fire barrier penetration seal (including electrical cable, piping, ventilation duct penetration seals, and excluding internal conduit seals) such that each penetration seal will be inspected at least once per 15 years. Difficult-to-view fire barrier (unexposed) walls, ceilings, and electrical cable enclosures that are rendered accessible by the penetration seal inspection program shall also be inspected during each 10 percent inspection.

4.14.D Fire Barriers (Cont'd)

1. (Continued)

If any penetration seal fire damper selected for inspection is found by surveillance requirements 4.14.D.1(d) in a condition which may compromise the operability of the penetration seal, the cause shall be evaluated. If the cause is a failure to adhere to penetration seal procedures, or an identified phenomenon (e.g., physical interference), the cause shall be corrected and potentially affected seals inspected. Otherwise, a visual inspection of an additional 10 percent, selection based on the nature of the degradation, shall be made. This inspection process shall continue until a 10 percent sample with no degradation is found.

2. Fire doors required to meet the provisions of 3.14.D.1 shall be verified operable by inspecting the closing mechanism and latches every 6 months*, and by verifying:
 - a. The operability of the fire door supervision system for each electrically supervised fire door by performing a functional test every month.
 - b. That each locked-closed fire door is in the closed position every week.
 - c. That each unlocked fire door without electrical supervision is in the closed position every day.

*Fire door inspections requiring access to radiation areas may be deferred until the next refueling outage or shutdown initially expected to be of at least a 7-day duration.

TABLE 3.14.C.1

FIRE DETECTORS

<u>Location</u>	<u>Detector Type/ Designation(1)</u>	<u>Minimum Detectors Operable</u>
HPSW Pump Room	S391	1
Condensate Demin. Piping Tunnel (91'6") Rms. 17, 50, 53	S111A, S112A, S113A, S114A S115A, S116A, S117A, S118A S119A, S120A, S121A, S122A,	11
Turbine Bldg.-General Area Corridor (116') Room 170	S123A, S124A, S125A, S126A S127A, S128A, S129A, S130A S131A, S132A, S133A, S134A	11
Turbine Bldg.-General Area Corridor (135') Room 264	S135A, S136A, S137A, S138A S139A, S140A, S141A, S145A	7
<u>COMMON</u>		
Control Room	S21, S22, S23, S24 Thermal Heat Detection Cable	5
Control Room Offices	S137, S138, S139 S140, S141, S142	6
Cable Spreading Room	S4, S7, S9, S10 S47 through S67 (total: 25)	23
Computer Room	S5, S6	2
Diesel Generator Room	H550A,B thru H557A,B (4 in each room)	See (3.14.B.3.c)
D-G Bldg.-Cardox Room	S540, S541, S542	3
HP Utility Room (116') Room 129	S90A	1
Radwaste Bldg. (91'6") Room 33	S73A, S74A, S75A S76A	4
Radwaste Bldg. (116') Room 144, 146	S91A, S92A, S93A	3
Room 141	S94A, S95A, S96A	3
Standby Gas Treatment System	6 per filter train	5
Radwaste Bldgs. Rooms 24, 31 (91'-6")	S8B, S80, S81, S82	4
Rooms 142, 143, 145 147, 154 (116')	S99, S1A, S2A S3A, S4A, S5A S6A	7