

DUKE POWER COMPANY
OCONEE UNIT 1

Report No.: 50-287/76-13

Report Date: September 21, 1976

Occurrence Date: August 22, 1976

Facility: Oconee Unit 3, Seneca, South Carolina

Identification of Occurrence: Feedwater penetration valve 3FDW-108 inoperable

Conditions Prior to Occurrence: Unit at 100 percent full power

Description of Occurrence:

On August 22, 1976, following chemical sampling of the "3B" once-through steam generator, a feedwater penetration valve, 3FDW-108, failed to close under system pressure. This valve, located outside the Reactor Building, is part of the chemical sampling system and provides containment isolation following an ES actuation. The redundant isolation valve, 3FDW-107, located inside the Reactor Building, was closed and locked as required by Oconee Technical Specification 3.6.4.b.2.

Apparent Cause of Occurrence:

This occurrence apparently resulted from the mechanical failure of the solenoid and spring of the 3FDW-108 air operator. This malfunction prevented the valve from closing when subjected to system pressure.

Analysis of Occurrence:

Valve 3FDW-108 was properly isolated in compliance with Technical Specification 3.6.4.b.2 by securing redundant valve 3FDW-107 in the closed position. In the event that containment isolation had been required prior to securing valve 3FDW-107, valve 3FDW-107 would have closed upon an ES actuation. Containment integrity was not affected by this incident and it is, thus, concluded that the health and safety of the public were not affected.

Corrective Action:

Valve 3FDW-108 will be repaired by replacing the solenoid and spring in the air operator prior to Oconee 3 startup following the current refueling outage.

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