

DUKE POWER COMPANY
OCONEE UNIT 1

Report No.: RO-269/77-30

Report Date: January 19, 1978

Occurrence Date: December 20, 1977

Facility: Oconee Unit 1, Seneca, South Carolina

Identification of Occurrence: Primary leak through pressurizer spray
bypass valve

Conditions Prior to Occurrence: Unit at 100% full power

Description of Occurrence:

On December 20, 1977 at 1558 the Reactor Building (RB) particulate monitor RIA-47 and RB iodine monitor RIA-48 alarmed. The rate of change of level of the RB Normal Sump indicated a primary leak of approximately 2.8 gpm. At 1716 a unit shutdown was commenced in compliance with T.S. 3.1.6.2 which requires unit shutdown within 24 hours for unidentified leakage in excess of 1 gpm. At 2223 personnel entered RB and determined that the leak was in the area of the pressurizer but were unable to find the exact location of the leak. At 2245 the reactor was fully shut down. At 0700 on December 21, personnel re-entered the RB and determined that the leak was from the pressurizer spray valve bypass valve RC-2. The valve was repacked. At 0800 on December 22, reactor startup was commenced.

Apparent Cause of Occurrence:

The cause of the incident was a packing leak on the pressurizer spray steam bypass valve.

Analysis of Occurrence:

The leakage was contained entirely within the RB. The leakage rate was considerably less than the capacity of one high pressure injection pump. The health and safety of the public were not endangered by this occurrence.

Corrective Action:

Valve RC-2 was repacked. A leak check was satisfactorily conducted after repairs were completed.

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