

PRIORITY ATTENTION REQUIRED MORNING REPORT - REGION II MAY 27, 1993

Licensee/Facility:

Notification:

Duke Power Co.
Oconee 1 2 3
Seneca, South Carolina

MR Number: 2-93-0059
Date: 05/27/93

Dockets: 50-269, 50-270, 50-287
PWR/B&W-L-LP, PWR/B&W-L-LP, PWR/B&W-L-LP

Subject: ERROR IN MAIN STEAM LINE BREAK ACCIDENT ANALYSIS AND POTENTIAL
L
TO EXCEED CONTAINMENT DESIGN PRESSURE

Reportable Event Number: 25570

Discussion:

During a review of the Final Safety Analysis Report Chapter 15 accidents to support longer cycle fuel, the licensee identified errors in the Main Steam Line Break analysis. The vendor analysis did not consider the contribution of energy due to the heat capacity of metal structures inside containment. Further review by the licensee determined inadequate consideration of energy from continued feedwater addition. Oconee does not have a logic scheme to automatically isolate feedwater to a faulted steam generator. If feedwater is not promptly isolated, the potential exists to exceed the containment design pressure of 59 psig. The licensee's review also identified that Environmental Qualification limits on equipment inside containment may also be exceeded.

In a telephone call on May 26, 1993, the licensee informed NRR and RII of their findings and proposed short-term corrective action in accordance

ML020630427.txt

with NRC GL 91-18. Short-term compensatory measures include reliance on operator action to isolate feedwater to the faulted steam generator in accordance with their emergency operating procedures. The licensee also indicated that potential offsite doses due to increased containment leakage would be bounded by the Main Steam Line Break outside containment analysis. The licensee is reviewing its response to IE Bulletin 80-04 'Analysis of a PWR Main Steam Line Break with Continued Feedwater Addition.

Regional Action:

NRR and RII will review the licensee's evaluation and adequacy of corrective action.

Contact: M. Lesser

(404) 331-0342