

Docket No. 50-261

August 19, 1994

Mr. C. S. Hinnant, Vice President
Carolina Power & Light Company
H. B. Robinson Steam Electric Plant,
Unit No. 2
Post Office Box 790
Hartsville, South Carolina 29551-0790

Dear Mr. Hinnant:

SUBJECT: CORRECTION OF THE STAFF EVALUATION OF THE H. B. ROBINSON STEAM
ELECTRIC PLANT, UNIT NO. 2, INDIVIDUAL PLANT EXAMINATION (IPE)
SUBMITTAL - INTERNAL EVENTS (TAC NO. M74460)

On August 17, 1994, the NRC sent a letter to Carolina Power & Light Company incorrectly referring to a Safety Evaluation of the H. B. Robinson Steam Electric Plant, Unit No. 2 (HBR2), Individual Plant Examination (IPE) in response to Generic Letter (GL) 88-20 and its associated supplements. The enclosure to the letter was a Staff Evaluation and not a Safety Evaluation. Please replace the original transmittal letter and the cover page of the Staff Evaluation with the enclosed pages.

We regret any inconvenience this may have caused.

Original Signed by:

Brenda L. Mozafari, Project Manager
Project Directorate II-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosure:
Reissued pages

cc w/enclosure
See next page

OFC	LA:PD21:DRPE	PM:PD21:DRPE	AD:PD21:DRPE	
NAME	<i>BAC for</i>	<i>BRM</i>	<i>[Signature]</i>	
DATE	<i>8/19/94</i>	<i>8/19/94</i>	<i>8/19/94</i>	

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

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We regret any inconvenience this may have caused.

A handwritten signature in cursive script that reads "Brenda Mozafari".

Brenda L. Mozafari, Project Manager
Project Directorate II-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosure:
Reissued pages

cc w/enclosure
See next page

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Carolina Power & Light Company

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SUBJECT: STAFF EVALUATION OF THE H. B. ROBINSON STEAM ELECTRIC PLANT,
UNIT NO. 2, INDIVIDUAL PLANT EXAMINATION (IPE) SUBMITTAL - INTERNAL
EVENTS (TAC NO. M74460)

Dear Mr. Hinnant:

On August 31, 1992, the Carolina Power & Light Company (the licensee) submitted the H. B. Robinson Steam Electric Plant, Unit No. 2 (HBR2), Individual Plant Examination (IPE) in response to Generic Letter (GL) 88-20 and its associated supplements. The IPE submittal described the application of a Level 2 probabilistic risk assessment to identify vulnerabilities consistent with GL 88-20. The IPE submittal contains the results of an evaluation of internal events, including internal flooding.

The licensee's IPE analysis of HBR2 resulted in a mean core damage frequency (CDF) for internal events, including internal flooding, of $3.2E-04/\text{yr}$. Contributions from the most important initiating events include loss-of-cooling accidents (LOCAs) (23 percent), loss of offsite power (18 percent), loss of either division of emergency AC power bus E1 or E2 (10 percent), loss of service water (9 percent), and loss of component cooling water (5 percent). In addition, a large fraction of the CDF is associated with sequences that are contained in functional groupings like reactor coolant pump seal LOCAs (21 percent), internal flooding (21 percent) and station blackout (10 percent). The submittal also provides a discussion of the 23 highest frequency sequences, the first 10 of which account for about 85 percent of the total CDF.

Enclosed is the NRC staff evaluation (SE) on the internal events portion of submittal. The staff's conclusions are based on a "step 1" review performed by the staff with the assistance of Science and Engineering Associates, Inc.; Scientech, Inc.; and Concord Associates, Inc. The staff's observations are summarized in the Executive Summary provided with the enclosed SE. Other significant insights are presented in the Appendix to the SE.

The licensee's improvements under consideration include development of a more extensive preventative maintenance program for the dedicated shutdown diesel and modification of plant safety-related batteries, including possible extension of battery capacity from one to four hours. The IPE also identified numerous other improvements listed in the SE that could further reduce the

REISSUED

STAFF EVALUATION

RELATED TO INDIVIDUAL PLANT EXAMINATION

CAROLINA POWER & LIGHT COMPANY

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2

DOCKET NO. 50-261

(INTERNAL EVENTS ONLY)