



Carolina Power & Light Company

USNRC REGION II
ATLANTA, GEORGIA

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Mr. James P. O'Reilly, Director
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, Suite 3100
Atlanta, GA 30303

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-261
LICENSE NO. DPR-23
RESPONSE TO IE BULLETIN 80-18

Dear Mr. O'Reilly:

In response to your letter of July 24, 1980, requesting information regarding maintenance of adequate minimum flow through centrifugal charging pumps following secondary side high energy line rupture, Carolina Power & Light Company (CP&L) provides the following information.

As indicated in the Bulletin, under certain conditions, centrifugal charging pumps could be damaged due to lack of minimum flow before presently applicable safety injection (SI) termination criteria are met. Because of differences in system design, this Bulletin does not specifically apply to H. B. Robinson Unit 2 (HBR 2); however, following discussions with NRC Region II, it was felt that CP&L should address the HBR 2 design.

The H. B. Robinson Unit No. 2 incorporates high pressure (2500 psi) reciprocating charging pumps separate from the Safety Injection System. The Safety Injection System, however, employs three lower pressure (1500 psi) centrifugal pumps. These pumps develop approximately 1100 psi at design flow and 1500 psi when operating in the recirculating mode. Although the Bulletin does not specifically address these intermediate pressure safety injection pumps, a review was initiated to verify that the required minimum flow rate is maintained through each of the pumps under all conditions of Safety Injection. As verified by the pumps' manufacturer (Worthington) this minimum flow rate is 50 GPM (for periods up to 30 minutes).

Field documentation verifying this flow rate is currently unavailable; however, a search for data is continuing. Field testing, to assure the minimum flow rate is maintained, may be required. If following field testing any modifications are required, the modifications

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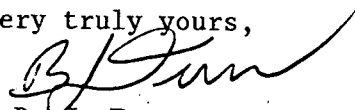
would involve only resizing the orifice, which provides the required flow rate, in the pumps recirculation lines since these lines remain open at all times during pump operation. This review, including any modifications and field testing required, will be completed by the end of October, 1980.

If modifications are necessary as a result of this review, a follow-up to this report will be submitted. Otherwise, no additional action regarding this Bulletin is planned.

Man-hours expended in the review and preparation of this response amount to 55 man-hours. This figure includes an estimate of 24 man-hours for field testing if required. No corrective action is anticipated to be required at this time.

If you have any questions regarding this matter, please contact my staff.

Very truly yours,



B. J. Furr

Vice President
Nuclear Operations

JMC/DCS:kbb*

cc: Mr. Norman C. Moseley