

50-261

CP&L  
Carolina Power & Light Company

November 10, 1972



104  
Mr. John F. O'Leary, Director  
Directorate of Reactor Licensing  
U. S. Atomic Energy Commission  
Washington, D. C. 20545

H. B. ROBINSON UNIT NO. 2  
LICENSE DPR-23  
DILUTION OF BORON INJECTION TANK

Dear Mr. O'Leary:

In accordance with paragraph 6.6.1.a, Technical Specifications and Bases, it is reported that on October 19, 1972, while operating at 99.5% power, "B" boric acid tank and the boron injection tank were found to be low in boron concentration. The boric acid tank concentration was 19,683 ppm, and the boron injection tank was 19,726 ppm.

The dilution occurred as a result of a test of the safety injection system on October 16, 1972. The safety injection pumps were operated to verify flow through all three cold leg safety injection lines. Valve leakage during this test permitted a small quantity of 1950 ppm solution from the refueling water storage tank to recirculate through the boron injection tank. This was due to the improper seating of suction and discharge isolation valves of the boron injection tank. Subsequent recirculation of boric acid tank "B" with the boron injection tank resulted in both of these tanks being diluted below their required boron concentrations.

To correct the problem, the boron injection tank was recirculated with "A" boric acid tank for 1½ hours, after which the boron injection tank concentration was verified to be 20,152 ppm, which was within specifications. A batch of boric acid was prepared and added to "A" boric acid tank, and two batches of solution from "B" boric acid tank were reprocessed through the boric acid evaporator to return the tank to its proper concentration.

The Plant Nuclear Safety Committee has reviewed this evolution and recommended that an analysis of the boric acid tanks and the boron injection tank be made immediately following any test involving the safety injection system which could cause dilution.

11/15  
TRW  
DE  
JK  
22  
HT  
8307250330 730412  
PDR ADOCK 05000261  
P PDR

50-261  
inquiry  
COPY SENT REGION II

6232

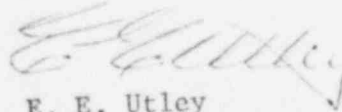
Mr. O'Leary

-2-

November 10, 1972

Mr. Bill Siedle of Region II, Division of Regulatory Operations, was notified by telephone, and Mr. John Davis of the same office was notified by telegraph on October 20, 1972.

Yours very truly,



E. E. Utley  
Vice President  
Bulk Power Supply

SB/NBB:za

cc: Messrs. C. D. Barham  
N. B. Bessac  
B. J. Furr  
S. Grant