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SUBJECT: Provides responses to NRC request for info supporting INEL work to update NRC RG 1.154. Items 7, 8 & 9 addressed.

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Carolina Power & Light Company
Robinson Nuclear Plant
3581 West Entrance Road
Hartsville SC 29550

Robinson File No.: 13510I
Serial: RNP-RA/95-0049

MAR 13 1995

United States Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-261/LICENSE NO. DPR-23
RESPONSE TO REQUEST FOR INFORMATION DATED FEBRUARY 7, 1995

Gentlemen:

By letter dated February 7, 1995, the NRC requested certain information in support of Idaho National Engineering Laboratory's (INEL's) work under an NRC contract to update Regulatory Guide 1.154, "Format and Content of Plant Specific Pressurized Thermal Shock Safety Analysis Reports for Pressurized Water Reactors." The INEL work will involve thermal hydraulic calculations using the RELAP5/MOD3 code using an existing input deck for H. B. Robinson Steam Electric Plant, Unit No. 2 which has not been updated since 1984. The requested information will be used to update the input deck. The NRC requested that responses to items 7, 8, and 9 be provided within 30 days of receipt of the request, with responses to the remaining items within sixty days of receipt of the request. The enclosure to this letter provides Carolina Power & Light Company's response to items 7, 8, and 9.

Questions regarding this matter may be referred to Mr. K. R. Jury at (803) 857-1363.

Very truly yours,

R. M. Krich
Manager - Regulatory Affairs

Enclosure

c: Mr. S. D. Ebnetter, Regional Administrator, USNRC, Region II
Ms. B. L. Mozafari, USNRC Project Manager, HBRSEP
Mr. W. T. Orders, USNRC Senior Resident Inspector, HBRSEP

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ENCLOSURE
RESPONSE TO ITEMS 7, 8, AND 9 CONTAINED IN NRC'S FEBRUARY 7, 1995
REQUEST FOR INFORMATION

Item 7

"The range of accumulator temperature given in Table 6.3.2-2 of the Updated Final Safety Analysis Report (UFSAR) for HBR is 70 to 120° F. Can you verify that this is accurate? What is the seasonal mean water temperature for the accumulators?"

Response

Accumulator water temperature is not monitored at the H. B. Robinson Steam Electric Plant (HBRSEP), Unit No. 2. The seasonal mean water temperature for the accumulators is presumably the seasonal mean temperature for the containment bulk temperature. This temperature is recorded daily; however, these data have not been reduced to obtain a mean temperature. This information will be developed and provided with our 60 day response.

Item 8

"The HPI and low pressure injection (LPI) draw from the refueling water storage tank (RWST) and the RWST is no longer heated. The UFSAR states in Table 6.3.2-4 that the RWST operating temperature is ambient. The UFSAR description of the site temperature in Section 2.3.2.2.1.2 lists the onsite meteorological conditions in Tables 2.3.2-5, 2.3.2-6, and 2.3.2-7. Since the RWST must always be available to HPI and LPI, the operators must have some procedure to keep the RWST from freezing when record cold weather occurs. What is the seasonal temperature range for the RWST water? What is the mean water temperature for the RWST water?"

Response

There is no means to routinely monitor temperature of the water in the RWST at HBRSEP; the mean water temperature should be reasonably close to the steady-state ambient temperature. Operating Procedure (OP) - 925, "Cold Weather Operations," has a temporary change which requires periodic monitoring of the suction line from the RWST, and includes provisions for supplementary heating, if needed. Since the tank is insulated the overall range should be less than the seasonal extremes. It is not expected that the RWST temperature would be greater than 95° F or less than 40° F for any significant time period.

Item 9

"The auxiliary feedwater (AFW) is fed by the condensate storage tank (CST). The CST water temperatures are not given in the UFSAR. What is the seasonal temperature range and the mean water temperature for the CST?"

Response

There is no means to routinely monitor temperature of the water in the CST at HBRSEP; the mean water temperature should be reasonably close to the steady-state ambient temperature. OP - 501, "Condensate System," provides measures to ensure that the CST water temperature is maintained below 85° F. The overall range should be close to seasonal extremes as the tank is not insulated. However, it is not expected that the CST temperatures would be greater than 85° F or less than 40° F for any significant period of time.