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SUBJECT: Provides suppl response to NRC request for info in support of INEL work under NRC contract to update RG 1.154, "Format & Content of Plant Specific Pressurized Thermal Shock SAR for Pressurized Water Reactors."

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MAY 17 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
SUPPLEMENTAL 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 (HBRSEP), 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 30 day response was provided by letter dated March 13, 1995; the 60 day response was provided by letter dated April 13, 1995. The responses to items 6 and 7 required that archived data be obtained from the Emergency Response Facility Information System (ERFIS) and were not available to be provided with the 60 day response. The enclosures to this letter provide Carolina Power & Light (CP&L) Company's responses to items 6 and 7, which were forecast in the 60 day response to be available by early May 1995.

In the 60 day response, CP&L identified new criteria for Reactor Coolant Pump tripping during a plant transient at less than 35 ^{0}F subcooling for normal containment conditions or less than 55 ^{0}F subcooling for adverse containment conditions. The larger than previously implemented values was due to a recalculation of instrument uncertainty which included a recently increased calibration periodicity from annual to refueling intervals.

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The 30 day response provided CP&L's response to Item 8 regarding the temperature range for the refueling water storage tank (RWST). CP&L stated "...it is not expected that the RWST temperature would be greater than 95 ^{0}F or less than 40 ^{0}F for any significant time period." This statement remains accurate. Based on a recent analysis for very conservative weather conditions (i.e., three weeks of constant 20 ^{0}F temperatures), the RWST temperature would decrease to only 38 ^{0}F.

The enclosed diskette contains the information requested in items 6 and 7 of the NRC request for HBRSEP. The diskette is being provided as an enclosure only to the USNRC Project Manager.

CP&L requests that INEL provide a copy of the RELAP5 model input data listing on diskette when available.

Questions regarding this matter may be referred to Mr. A. L. Garrou at (803) 857-1544.

Very truly yours,

R. M. Krich
Manager - Regulatory Affairs

Enclosures:
1. Response to Items 6 and 7 Contained in NRC's February 7, 1995, Request for Information
2. Diskette - H. B. Robinson Steam Electric Plant, Unit No. 2 ERFIS Data

c: Mr. S. D. Ebneter, Regional Administrator, USNRC, Region II (w/o enclosure 2)
Ms. B. L. Mozafari, USNRC Project Manager, HBRSEP
Mr. W. T. Orders, USNRC Senior Resident Inspector, HBRSEP (w/o enclosure 2)

ENCLOSURE 1
H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2
RESPONSES TO ITEMS 6 AND 7 CONTAINED IN NRC'S FEBRUARY 7, 1995, REQUEST FOR INFORMATION

Item 6

"CP&L's Emergency Response Facility Information System data for available plant transients for validation of RELAP5/MOD3 response."

Response

H. B. Robinson Steam Electric Plant (HBRSEP), Unit No. 2 experienced reactor trips on April 3, 1994, and on August 2, 1994. The archived data from the Emergency Response Facility Information System (ERFIS) was obtained and compiled on the enclosed diskette. A description of the files on the diskette is provided below.

FILES ON ATTACHED DISKETTE
H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO.2 ERFIS DATA

040394.EXE	Self extracting zip file containing ERFIS data for the April 3, 1994, trip. This was a manual trip of the reactor caused by the failure to recover from an electro-hydraulic control system fluid leak.
080294.EXE	Self extracting zip file containing ERFIS data for the August 2, 1994, trip. This was a manual trip initiated in response to all four turbine governor valves going shut.
CNTMTEMP.EXE	Self extracting zip file containing ERFIS data files for containment air temperatures.
CNTMTEMP.WK4	Spreadsheet containing containment air temperatures for February, 1994, through January, 1995. The data were taken from the ERFIS files in CNTMTEMP.EXE.
README	A summary of these files and how to extract the contained data.

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

There is no direct measurement of accumulator fluid temperature. Because the air temperature in the reactor containment building may give some indication of water temperature, archived containment air temperature data for the period of February 1994 to January 1995 from ERFIS was obtained and compiled on the enclosed diskette. The mean containment air temperature during this period as measured by an average of instrument locations is 105 °F. It should be noted that HBRSEP was shutdown from February 1, 1994, until February 8, 1994 at the end of an outage.