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SUBJECT: Discusses implications of error in Exxon LOCA analysis computer code per 850320 telcon.Facility LOCA analyses use Apr 1984 version of TOODEE2 w/o coding problem & augmented heat transfer factors from previously accepted WREM-IIA.

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Director of Nuclear Reactor Regulation
Attention: Mr. Steven A. Varga, Chief
Operating Reactors Branch No. 1
Division of Licensing
United States Nuclear Regulatory Commission
Washington, DC 20555

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-261/LICENSE NO. DPR-23
EFFECT OF EXXON CODE ERRORS

Dear Mr. Varga:

The implications for the H. B. Robinson Steam Electric Plant, Unit No. 2 (HBR2) of a recently discovered error in an Exxon LOCA analysis computer code were discussed in a conference call between the NRC and Carolina Power & Light Company on March 20, 1985. This letter documents and expands on those discussions.

We have discussed the NRC's LOCA analysis concerns with Exxon. The current concern arose when the NRC did not accept the Augmented Heat Transfer Factors which Exxon was using. Exxon, in their review of which analysis this affected, discovered a coding problem in versions of TOODEE2 used between January 1982 and April 1984.

The current HBR2 LOCA analysis uses an April 1984 version of TOODEE2 without the coding problem and uses the Augmented Heat Transfer Factors from the previously NRC-accepted WREM-IIA model. Carolina Power & Light Company and Exxon agree the above items do not affect HBR2.

Regarding the status of the HBR2 K(Z) curve, on September 7, 1984, CP&L issued a letter revising the K(Z) curve submitted on July 23, 1984. The change was necessary because confirmatory analyses performed by Exxon could not support the previous curve and verify that PCT would remain below 2200°F during LOCA events. The re-analysis was documented in XN-NF-84-72, Supplement 2.

Questions regarding this matter may be referred to Mr. Jan Kozyra at (919) 836-7924.

Yours very truly,

S. R. Zimmerman
Manager
Nuclear Licensing Section

JSK/ccc (1312JSK)

cc: Dr. J. Nelson Grace (NRC-RII)
Mr. G. Requa (NRC)
Mr. H. Krug (NRC Resident Inspector - RNP)

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