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SUBJECT: Forwards BAW-2050, "Analysis of Capsule OC1-C..." & BAW-2051, "Analysis of Capsule OCII-E...."

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October 31, 1988

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U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Oconee Nuclear Station
Docket Nos. 50-269, -270, -287

Gentlemen:

Pursuant to 10 CFR 50, Appendix H, please find attached two reports, BAW-2050 dated October, 1988 and BAW-2051 dated October, 1988 on the testing and evaluation of capsules OCI-C and OCII-E for Oconee Nuclear Station Units 1 and 2 reactor vessel material surveillance program, respectively.

The reports' major results are summarized below:

1. The OCI-C and OCII-E capsules received an average fast fluence (E >1.0 Mev) of 9.86×10^{18} n/cm^2 and 1.21×10^{19} n/cm^2, respectively. Based on the calculated fast flux at the vessel wall, an 80% load factor, and the planned fuel management, the projected fast fluence that the Oconee Units 1 and 2 reactor vessel inside surface will receive in 40 calendar years of operation is 1.02×10^{19} n/cm^2 and 9.57×10^{18} n/cm^2, respectively.

2. The increase in RT_{NDT} for both forging and weld materials is conservative with respect to prediction technique, i.e. R.G. 1.99, Rev. 02.

3. The low upper-shelf energy fracture analysis demonstrated that the most limiting weld metal has adequate irradiated toughness properties to assure safe operation of these units to 32 EFPY.

A001

Please note that the results of the examination and analyses contained in these reports have no impact on the current Oconee Nuclear Station Technical Specifications.

Very truly yours,

J. W. Hampton, for

H. B. Tucker

MAH27.D1/lcs

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