Docket No. 50-269

March 27, 1987

Mr. Hal B. Tucker Vice President - Nuclear Production Duke Power Company P.O. Box 33189 Charlotte, North Carolina 28242

Dear Mr. Tucker:

Subject: Projected Values of Material Properties for Fracture Toughness Requirements for Protection Against Pressurized Thermal Shock Events

We have reviewed your letter dated January 23, 1986 which was submitted in response to the Pressurized Thermal Shock (PTS) Rule, 10 CFR 50.61, for the Oconee Nuclear Station, Unit 1. We have found the material properties of reactor vessel beltline materials, the projected fluence at the inner surface of the reactor vessel at the expiration date of the license and the calculated RT_{PTS} at the expiration date of the license, November 6, 2007, to be acceptable. The calculated RT_{PTS} is below the screening criterion of 300°F for longitudinal weld material at the expiration date of the license. This meets the requirements of the PTS Rule.

On January 14, 1986 with later supplements, you applied for an amendment to extend your license for Oconee Unit 1, and you have provided information to support operation of your plant to the proposed expiration date of the license without exceeding the PTS screening criteria. In our January 30, 1987 amendment approving the extention, we addressed in the evaluation your request to extend the expiration date of your license. We found that for Oconee Unit 1 the staff estimated that for 40 calendar years of operation, the RT_{PTS} will not exceed the PTS screening criterion.

The PTS Rule requires that the projected assessment of the RT_{PTS} must be updated whenever changes in core loadings, surveillance measurements or other information (including changes in capacity factor) indicate a significant change in the projected values. This ensures that the licensees will track the fluence at the limiting beltline materials throughout the life of the plant to verify their assumptions. In this regard, we request you to submit a reevaluation of the RT_{PTS} and comparison of the predicted value with future Pressure-Temperature submittals which are required by 10 CFR 50, Appendix G. This request is covered under OMB clearance No. 3150-0011.

Our associated Safety Evaluation is enclosed.

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Enclosure

Office: Concurrees: Date:



Division of PWR Licensing-B

John F. Stolz, Director PWR Project Directorate #6

Sincerely,

/S/

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BC/PBEB PD/7896 TMarsh JStolz 3/91/87 2/27/87

Mr. H. B. Tucker Duke Power Company

cc: Mr. A. V. Carr, Esq. Duke Power Company P. O. Box 33189 422 South Church Street Charlotte. North Carolina 28242

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Honorable James M. Phinney County Supervisor of Oconee County Walhalla, South Carolina 29621

Oconee Nuclear Station Units Nos. 1, 2 and 3

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