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 50-270 Oconee Nuclear Station, Unit 2, Duke Power Co. 05000270
 50-287 Oconee Nuclear Station, Unit 3, Duke Power Co. 05000287

AUTH. NAME AUTHOR AFFILIATION
 TUCKER, H.B. Duke Power Co.
 RECIP. NAME RECIPIENT AFFILIATION
 DENTON, H.R. Office of Nuclear Reactor Regulation, Director
 STOLZ, J.F. Operating Reactors Branch 4

SUBJECT: Application to amend Licenses DPR-38, DPR-47 & DPR-55,
 revising high flux trip setpoints & changing Unit 2 Tech
 Specs re operation at full-rated power during Cycle 7. Class
 III amend fee encl. Unit 2 reload rept encl.

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EXTRAS to NRR ORB #4BC

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P.O. BOX 33189
CHARLOTTE, N.C. 28242

50-269

HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

TELEPHONE
(704) 373-4531

September 1, 1983

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Mr. John F. Stolz, Chief
Operating Reactors Branch No. 4

Subject: Oconee Nuclear Station, Unit 2
Docket No. 50-270

Dear Sir:

Pursuant to 10 CFR 50, §50.90, please find attached (Attachment 1) proposed changes to the Oconee Nuclear Station (ONS) Technical Specifications which are required to support the operation of Oconee Unit 2 at full rated power during Cycle 7.

This proposal contains changes which concern the following:

1. Core Protection Safety Limits of Specification 2.1;
2. Protective System Maximum Allowable Setpoints of Specification 2.3;
3. Rod Position Limits of Specification 3.5.2.

In addition to the Unit 2 reload related Technical Specification changes, revisions for all Oconee units related to the High Flux Trip setpoint are enclosed. Per the September 10, 1981 correspondence of W. O. Parker, Jr., the High Flux Trip setpoints were changed from 105.5% of full power to 104.9% of full power due to revised instrument accuracies and resultant string errors determined by Babcock and Wilcox. Duke Power subsequently reanalyzed the string errors using the individual instrument accuracies provided by Babcock and Wilcox but employing a Monte-Carlo statistical simulation technique to determine string errors, instead of the algebraic summing methodology of Babcock and Wilcox. The results of the Duke analysis justify the return of the High Flux Trip setpoint to 105.5% of full power with a greater than 95% confidence that 95% of flux levels corresponding to 112% of full power will initiate a reactor trip. The transient Nuclear Instrumentation (NI) flux error and the heat balance error continue to be accounted for algebraically.

Also attached (Attachment 3) is "Oconee Unit 2, Cycle 7 Reload Report". This report includes a summary of Cycle 7 operating parameters and contains the safety analyses supporting the operation of Oconee 2, Cycle 7 core at rated power in accordance with the Technical Specification provided. This reload report employs a LOCA analysis which incorporates the NUREG-0630 data.

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Startup testing of Oconee Unit 2 Cycle 7 will be performed in accordance with a modified version of the report entitled "Oconee Nuclear Station Generic Startup Physics Test Program" which was initially approved by the Staff by a March 23, 1981 letter and as modified by the May 29, 1981 and May 19, 1983 Duke letters.

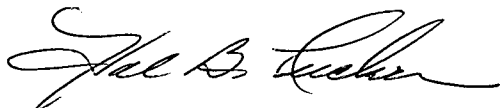
Duke submits that the activities associated with the proposed amendment do not constitute a significant hazard to the public health and safety of the environment. Analysis of the proposed amendment was performed in accordance with the standards contained in §50.92 regarding the issue of no significant hazards consideration. Please find attached (Attachment 2) the No Significant Hazards Consideration Evaluation. Further, Duke is forwarding a copy of this application to the South Carolina Department of Health and Environmental Control for review and, as appropriate, subsequent consultation with the Staff.

At this time, some Reload and Technical Specification figures that are to accompany this reload package are undergoing final review. This reload is being submitted without these figures in order to facilitate a timely initiation of the review. The figures are expected to be submitted no later than September 15, 1983.

Oconee Unit 2 is expected to shut down September 15, 1983 to commence the Cycle 7 refueling outage. The present planned outage duration is 75 days; however, this length may change as a result of activities planned during the outage. The NRC will be kept apprised of the schedule for restart through the Project Manager.

The proposed license amendment concerning the reload design calculation for Oconee 2, Cycle 7 was conducted consistent with Duke Technical Report NFS-1001, "Oconee Nuclear Station Reload Design Methodology", which was reviewed and accepted by the Staff in a letter dated July 29, 1981. As such, it is considered that this proposed revision to the Oconee Technical Specifications is a Class III licensing action. Therefore, pursuant to 10 CFR 170, §170.12, please find enclosed a check in the amount of \$4,000 as set forth in §170.22.

Very truly yours,



Hal B. Tucker

JCP/php

Attachments

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cc: Mr. James P. O'Reilly, Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30303

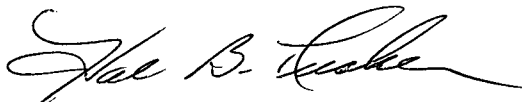
Mr. John F. Suermann
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Mr. J. C. Bryant
NRC Resident Inspector
Oconee Nuclear Station

Mr. Hayward Shealey, Chief
Bureau of Radiological Health
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

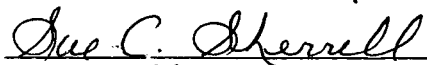
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HAL B. TUCKER, being duly sworn, states that he is Vice President of Duke Power Company; that he is authorized on the part of said Company to sign and file with the Nuclear Regulatory Commission this request for amendment of the Oconee Nuclear Station Technical Specifications, Appendix A to Facility Operating Licenses DPR-38, DPR-47, and DPR-55; and that all statements and matters set forth therein are true and correct to the best of his knowledge.



Hal B. Tucker, Vice President

Subscribed and sworn to before me this 1st day of September, 1983.



Notary Public

My Commission Expires:

September 20, 1984