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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  
 OWEN, W.H. Duke Power Co.  
 RECIPIENT AFFILIATION  
 Document Control Branch (Document Control Desk)

SUBJECT: Application for amends to Licenses DPR-38, DPR-47 & DPR-55,  
 revising Tech Specs to support operation during Cycle 11.

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# DUKE POWER COMPANY

POWER BUILDING, BOX 33189, CHARLOTTE, N. C. 28242

W. H. OWEN  
EXECUTIVE VICE PRESIDENT  
ENGINEERING & CONSTRUCTION

(704) 373-4120

May 16, 1988

U.S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555

Subject: Oconee Nuclear Station  
Docket Nos. 50-269, -270, -287  
Unit 3 Cycle 11 Reload Technical Specifications

Gentlemen:

Pursuant to 10CFR 50, Part 50.90, please find attached (Attachment 1) a proposed amendment to the Oconee Nuclear Station (ONS) Facility Operating Licenses and revisions to the ONS Technical Specifications. The proposed revisions are required to support operation of Unit 3 at full rated power during Cycle 11.

Duke has determined the attached proposed amendment as having no significant hazards considerations. Attachment 2 provides the No Significant Hazards Consideration Evaluation. Attachment 3 is the "Oconee Unit 3, Cycle 11 Reload Report". A summary of cycle operating parameters is included in the report, along with safety analyses supporting operation of the Unit 3 Cycle 11 core at full rated power in accordance with the Technical Specifications provided. Duke requests NRC approval of this proposal prior to Unit 3 Cycle 11 startup currently scheduled for September 18, 1988. Changes which effect Units 1 and 2 will be implemented upon Unit 3 Cycle 11 startup.

As discussed in Section 7 of the Reload Report, a generic LOCA analysis for the B&W 177-FA, lowered loop NSSS has been performed using the Final Acceptance Criteria ECCS Evaluation Model (as reported in BAW-10103, Rev. 3). The LOCA-Limited Maximum Allowable Linear Heat Rate given in BAW-10103 has been impacted by TACC2, NUREG-0630, and FLECSET. The net effect of these factors is summarized by the LOCA kw/ft limits in BAW-1915P. A Safety Evaluation Report (SER) from A.C. Thadani (NRC) to C.H. Turk (BWOG) provided NRC acceptance of BAW-1915P. The LOCA kw/ft limits given in BAW-1915P were used in the design of Oconee 3, Cycle 11.

Within this amendment request, the Bases of Specifications 3.2, 3.3, and 3.8 have been updated to provide consistency with the revised BWST boron concentration and CBAST volume requirements in Specifications 3.2, 3.3.4.b, and 3.8. As Bases are not a part of the Technical Specifications (in accordance with 10CFR 50.36(a)) and are therefore not incorporated into the facility operating licenses, no license amendment is required prior to updating the Bases.

In addition, the Bases of Specification 2.1 have been updated to reflect an increase in the reactor coolant flow assumed in the thermal hydraulic analyses for Oconee 3, Cycle 11. The assumed reactor coolant flow in the thermal hydraulic analysis for Unit 3 has been increased from 106.5% to 109.5% of design

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May 16, 1988  
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flow to offset beginning of cycle power distribution predictions. The thermal hydraulic analysis performed for Unit 3 is in accordance with NRC approved methodology. The thermal hydraulic analyses for Oconee Units 1 and 2 continue to be based on 106.5% of design flow.

Duke is forwarding a copy of the application to the South Carolina Department of Health and Environmental Control for review and, as appropriate, subsequent consultation with the staff.

Pursuant to 10CFR 170, Part 170.12, please find enclosed a check in the amount of \$150.00 for the application fee.

Very truly yours,



Warren H. Owen

PJN/19/sbn

Attachment

xc: Dr. J. Nelson Grace, Regional Administrator  
U.S. Nuclear Regulatory Commission  
Region II  
101 Marietta St., NW, Suite 2900  
Atlanta, Georgia 30323

Mr. Heyward Shealy, Chief  
Bureau of Radiological Health  
S.C. Department of Health and  
Environmental Control  
2600 Bull Street  
Columbus, SC 29201

Ms. Helen Pastis  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Mr. P.H. Skinner  
NRC Resident Inspector  
Oconee Nuclear Station

WARREN H. OWEN, being duly sworn, states that he is Executive 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 revision to the Oconee Nuclear Station License Nos. 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.

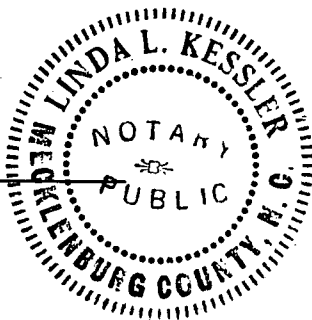
Warren H. Owen  
Warren H. Owen, Executive Vice President

Subscribed and sworn to before me this 16th day of May, 1988.

Linda L. Kessler  
Notary Public

My Commission Expires:

May 1, 1989



DUKE POWER COMPANY  
OCONEE NUCLEAR STATION

Attachment 1

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