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 FACIL: 50-269 Oconee Nuclear Station, Unit 1, Duke Power Co. 05000269  
 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  
 Document Control Branch (Document Control Desk)

SUBJECT: Application for amends to Licenses DPR-34, DPR-3B & DPR-47,  
 revising interim max allowable power levels & high flux trip  
 setpoints & limited conditions of operation for LPI pump.  
 Fee paid.

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 \$150.00  
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DUKE POWER COMPANY

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HAL B. TUCKER  
VICE PRESIDENT  
NUCLEAR PRODUCTION

TELEPHONE  
(704) 373-4531

April 6, 1987

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

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

Dear Sir:

Pursuant to 10 CFR 50, §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. Duke Power requests the NRC review and approval of the proposed technical specification amendment be performed in an expeditious manner, and, as such, in accordance with the provisions defined in 10 CFR 50.91(a)(5). A discussion explaining why this emergency situation occurred and why it could not have been avoided is provided in Attachment 2.

The proposed amendment establishes interim maximum allowable power levels and RPS High Flux trip setpoints for Units 1 and 2. The proposed revision, also, specifies a Limited Condition of Operation (LCO) for the third Non-Engineered Safeguards (ES) Low Pressure Injection (LPI) pump for Units 1 and 2. The interim maximum allowable power levels for Units 1 and 2 assure that the LPI systems and the Reactor Building Cooling Unit (RBCU) systems are capable of performing their intended safety functions.

The reduced power for Units 1 and 2 are due to the degraded performance of the RBCU coolers and LPI coolers. The degraded performance of these coolers (2 LPI coolers and 3 RBCU coolers) is based on the analysis of the test data to determine their heat transfer capability. The degraded performance has been attributed to fouling. Current speculation of the cause of fouling in these coolers is due to the raw lake water utilized by the Low Pressure Service Water (LPSW) System. The LPSW System provides cooling water for these coolers.

Unit 1 will operate at its reduced power level until the 1A LPI cooler has been cleaned, tested and evaluated for full power operation. Duke anticipates that the 1A LPI cooler will be cleaned, tested and evaluated for full power operation during the refueling outage for the End-Of-Cycle (EOC) 10. Currently, the EOC 10 refueling outage is scheduled to begin August 29, 1987. During this outage the LPI coolers and the RBCU coolers will be cleaned. For Unit 2, operation at its reduced power level will be applicable until April 22, 1987. By this date, Duke anticipates that the 2A LPI cooler would have been cleaned; a post-cleaning performance test of the cooler heat transfer capability completed; and an evaluation supporting full power operation performed. The RBCU coolers and the LPI coolers for Unit 3 will be cleaned and a post-cleaning performance test performed prior to returning the unit to full power operation.

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The cleaning of the 1A LPI cooler is currently scheduled to be completed by no later than April 30, 1987. Duke does not intend to perform a post-cleaning test of the 1A LPI cooler, but will maintain the plant at its current power level until the cooler has been tested and found acceptable for full power operation. Duke estimates that the cleaning will significantly improve the performance capability of the cooler, and, as such, will provide additional margin during the rest of the cycle. Furthermore until a post-cleaning test and evaluation verifying full power operation is acceptable, the lake water temperature will be monitored weekly for Unit 1 and daily for Unit 2.

Duke has determined that the attached proposed amendment constitutes a No Significant Hazards consideration. Attachment 3 provides the No Significant Hazards Consideration evaluation. By copy of this letter, 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. Attachment 4 provides a safety evaluation and a discussion of Duke's testing methods and analysis techniques in determining cooler heat transfer performance capability. The safety evaluation provides a discussion of the methodology, calculation techniques and assumptions utilized in evaluating the capability of the coolers to mitigate the consequences of an accident.

In accordance with 10 CFR 170, §170.12, please find enclosed a check in the amount of \$150.00 for the application fee.

Very truly yours,



Hal B. Tucker

PFG/16/sbn

Attachments

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

Ms. Helen Pastis  
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. Heyward Shealy, Chief  
Bureau of Radiological Health  
South Carolina Department of Health &  
Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201

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 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.

Hal B. Tucker

Hal B. Tucker, Vice President

Subscribed and sworn to before me this 6th day of April, 1987.

Linda L. Kessler  
Notary Public

My Commission Expires:

May 1, 1989

