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FACIL: 50-287 Oconee Nuclear Station, Unit 3, Duke Power Co.

05000287

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AUTHOR AFFILIATION

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Duke Power Co.

RECIP. NAME

RECIPIENT AFFILIATION

Document Control Branch (Document Control Desk)

SUBJECT: Application for amend to License DPR-55, changing Tech Specs
to increase boron concentration in borated water storage
tank from 1,835 ppm to 2,010 ppm for Cycle 10 only. Fee paid.

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HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

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February 11, 1987

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

Subject: Oconee Nuclear Station
Docket Nos. 50-287
Oconee 3, Cycle 10 BWST Boron Concentration

Gentlemen:

By letter dated December 12, 1986, Duke Power Company (Duke) submitted proposed Technical Specifications to support operation of Oconee 3 at full rated power during Cycle 10. Subsequently, December 17, 1986 Oconee 3 was shutdown due to indications of possible wear in the 3B2 reactor coolant pump. The Oconee 3, Cycle 10 core was then redesigned based on the shortened Cycle 9 length of 349 EFPD. Results of this redesign indicate that to ensure the core will be shutdown in conformance with applicable criteria, the Beginning of Cycle, All Rods Out, 70°F, 1% Delta K/K shutdown boron concentration should be increased from the present 1835 ppm to 1873 ppm. Duke has elected to conservatively increase the minimum concentration in the Unit 3 BWST to 2010 ppm for Cycle 10.

Therefore, pursuant to 10CFR 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 (T.S.). The proposed revisions supplied in this amendment request increase the minimum boron concentration in the Borated Water Storage Tank (BWST) from 1835 ppm to 2010 ppm for Oconee Unit 3, Cycle 10 only. In addition, an expired footnote is deleted from T.S. 3.3.5.

Boron concentration in the BWST is maintained such that:

- o per T.S. 3.8.4 requirements, during reactor vessel head removal and while loading and unloading fuel from the reactor, the boron concentration shall be maintained at not less than that required to shutdown the core to a K_{eff} less than or equal to .99 if all control rods were removed.
- o per T.S. 3.3 Bases, in the event of a Loss of Coolant Accident (LOCA), boron concentration in the BWST which supplies the Emergency Core Cooling System (ECCS) and Reactor Building Spray shall be set at the amount of boron required to maintain the core 1 percent subcritical at 70°F with all control rods removed.

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February 11, 1987
Page 2

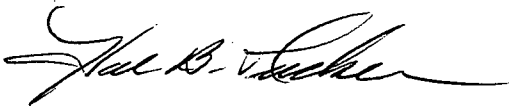
Duke has determined the attached proposed amendment as having no Significant Hazards Considerations. Attachment 2 provides the No Significant Hazards Consideration Evaluation.

Due to the early shutdown of Unit 3, Duke has determined that exigent circumstances exist for the approval of this proposed change to support startup of Unit 3, Cycle 10 on March 17, 1987. Therefore, pursuant to the provisions of 10CFR50, §50.91(a)(6), please review and approve these exigent changes in a timely manner to support operation of Oconee 3, Cycle 10.

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 Staff.

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

Very truly yours,



Hal B. Tucker

PJN/117/jgm

Attachment

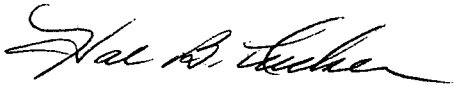
xc: Dr. J. Nelson Grace, Regional Administrator
U.S. Nuclear Regulatory Commission - Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Ga. 30323

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

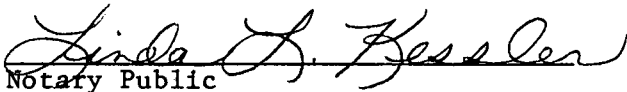
Mr. Heyward Shealy, Chief
Bureau of Radiological Health
S.C. Dept. of Health and Environmental Control
2600 Bull Street
Columbia, S.C. 29201

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.

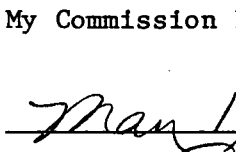
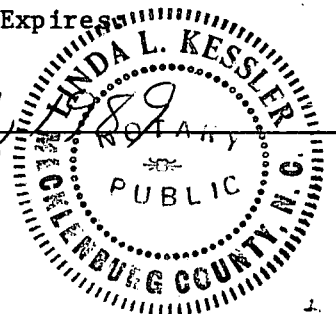


Hal B. Tucker, Vice President

Subscribed and sworn to before me this 11th day of February, 1987.


Notary Public

My Commission Expires

Duke Power Company
Oconee Nuclear Station

Attachment 1

Proposed Technical Specification Revision
Oconee 3, Cycle 10

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3.2-2

3.3-3

3.3-6

3.8-3

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3.2-2

3.3-3

3.3-6

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