

DUKE POWER COMPANY

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HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

December 12, 1983

TELEPHONE
(704) 373-4531

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

Attention: Ms. E. G. Adensam, Chief
Licensing Branch No. 4

Subject: McGuire Nuclear Station
Docket Nos. 50-369 and 50-370
McGuire 1/Cycle 2 OFA Reload

Dear Mr. Denton:

Mr. H. B. Tucker's (DPC) November 14, 1983 letter to Mr. H. R. Denton (NRC/ONRR) described planned changes in the fuel design for McGuire Nuclear Station, Units 1 and 2. Commencing with the first refueling of each of the units, the standard fuel assemblies currently in use will be replaced over the next four refuelings with optimized fuel assemblies (OFA). The letter transmitted a reference safety evaluation describing the safety impact of operation with a transition core and an all OFA core, and indicated that since the transition to OFA involves changes in operating limits, license amendments will be required for operation of both Units 1 and 2 beyond the first cycle.

Attached are proposed license amendments to facility operating licenses NPF-9 and NPF-17 for McGuire Nuclear Station Units 1 and 2, respectively. The proposed amendments change plant operating limitations given in the Technical Specifications affected by use of the OFA design for McGuire Unit 1/Cycle 2 to ensure plant operation consistent with the design and safety evaluations. In addition to the reload changes indicated above, two non-reload related changes are included. These involve deletion of the Boron Injection System (i.e. Boron Injection Tank) for Unit 1 (T.S. 3/4.5.4), and revised control rod insertion limits for both McGuire Units 1 and 2 (T.S. 3/4.1.-3.6).

Attachment 1 contains the proposed tech spec changes, and Attachment 2 discusses the Justification and Safety Analysis to support the proposed changes. Included in Attachment 2 are: A) detailed non-LOCA and LOCA accident analyses of the McGuire Units 1 and 2 FSAR impacted by the proposed changes; B) a cycle-specific reload safety evaluation for McGuire Unit 1/Cycle 2 including Fq surveillance and RAOC Technical Specifications; and C) the peaking factor limit report for McGuire Unit 1/Cycle 2 which is provided in accordance with the proposed McGuire Unit 1 Technical Specification paragraph 6.9.1.12 as given in Attachment 1. Pursuant to 10 CFR 50.91, Attachment 3 provides an analysis performed in accordance with the standards contained in 10 CFR 50.92 which concludes that the proposed amendments do not involve a significant hazards consideration. The proposed amendments have been reviewed and determined to have no adverse safety or environmental impact.

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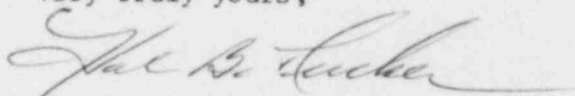
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It is requested that the proposed amendments receive timely review and approval in view of the current McGuire Unit 1/Cycle 2 startup schedule. Unit 1 first refueling shutdown is currently planned for mid-February with return to service planned for late March. Any changes to this schedule will be provided to the NRC staff.

Pursuant to 10 CFR 170.22, Duke Power proposes that this application contains one Class IV license amendment for McGuire Unit 1 and one Class I amendment for McGuire Unit 2. Therefore, a check for \$12,700 is enclosed in accordance with 10 CFR 170.12.

We will be pleased to meet with the NRC staff to discuss this matter at the staff's convenience.

Very truly yours,



Hal B. Tucker

PBN:dyh

Attachments

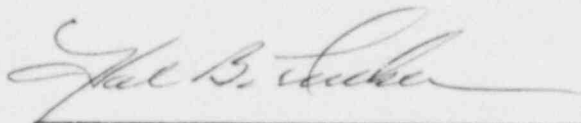
cc: (w/all attachments)
Mr. J. P. O'Reilly, Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30303

Mr. Dayne Brown, Chief
Radiation Protection Branch
Division of Facility Services
Department of Human Resources
P. O. Box 12200
Raleigh, North Carolina 27605

Mr. W. T. Orders
Senior Resident Inspector
McGuire Nuclear Station

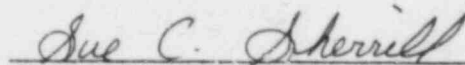
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HAL B. TUCKER, being duly sworn, states that he is Vice President of Duke Power Company; that he is authorized on the part of said Company to sign and file with the Nuclear Regulatory Commission this revision to the McGuire Nuclear Station License Nos. NPF-9 and NPF-17 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 12th day of December, 1983


Notary Public

My Commission Expires:

September 20, 1984