

September 19, 2002

Mr. H. B. Barron
Vice President, McGuire Site
Duke Energy Corporation
12700 Hagers Ferry Road
Huntersville, NC 28078-8985

SUBJECT: WILLIAM B. MCGUIRE NUCLEAR STATION, UNITS 1 AND 2 RE: REQUEST
FOR ADDITIONAL INFORMATION ON PROPOSED TECHNICAL
SPECIFICATION AMENDMENTS TO SPENT FUEL ASSEMBLY STORAGE
(TAC NOS. MB5014 AND MB5015)

Dear Mr. Barron:

By letter dated April 18, 2002, you submitted a license amendment request for McGuire Nuclear Station, Units 1 and 2 to revise the spent fuel pool storage criteria and the fuel enrichment and burnup requirements. The staff has identified several issues that are required to be addressed to facilitate completion of this review.

Our questions are provided in the Enclosure. The staff requests a response to this Request for Additional Information within 14 days of the date of this letter.

Please contact Bob Martin at (301) 415-1493 if you have any other questions on these issues.

Sincerely,

/RA/

Robert E. Martin, Senior Project Manager, Section 1
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-369 and 50-370

Enclosure: Request for Additional Information

cc: See next page

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DATE	08/18/02	09/12/02	09/18/02

OFFICIAL RECORD COPY
REQUEST FOR ADDITIONAL INFORMATION

WILLIAM B. MCGUIRE NUCLEAR STATION, UNITS 1 AND 2

1. Provide the boron concentration in the refueling water storage tank.
2. On page 7 of Attachment 6, submitted on April 18, 2002, the third assumption states that most calculations are done in two dimensions (2-D). Provide a basis for why 2-D calculations are still being performed.
3. Reactivity equivalencing is discussed in Attachment 6 on page 11, in the first paragraph of section 3.1.1 and again in Attachment 6 on page 13 in the first paragraph of section 3.1.2. Provide a basis for using reactivity equivalencing.
4. In Attachment 6, on page 16, the second paragraph mentions that biases were determined to account for axial variation in burnup when performing calculations in 2-D. How are these biases determined and why are they conservative?
5. In Attachment 6, on page 33 in Table 9, the values for Region 2A minimum burnup column required for fuel with initial enrichments of 4.00, 4.50 and 4.75 weight percent U-235 are less than the values stated in Attachment 6, page 32, Table 9 of the August 1, 2000, submittal¹. Provide an explanation for these differences.
6. In Attachment 6, on page 35, in Table 11, the values for boron credit requirements are less than the values stated in Attachment 6, page 34, Table 11 of the August 1, 2000, submittal. Provide an explanation for these differences.

¹ The reference to the August 1, 2000, submittal refers to the licensee's previous application for changes to the TS for this issue. That application was addressed by license amendments 197 and 178, as issued on November 27, 2000.

McGuire Nuclear Station

cc:

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