



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

December 3, 2015

Mr. Joseph W. Shea
Vice President, Nuclear Licensing
Tennessee Valley Authority
1101 Market Street, LP 3R-C
Chattanooga, TN 37402-2801

SUBJECT: BROWNS FERRY NUCLEAR PLANT, UNIT 1 – REQUEST FOR ADDITIONAL
INFORMATION REGARDING LICENSE AMENDMENT REQUEST FOR SAFETY
LIMIT MINIMUM CRITICAL POWER RATIO (CAC NO. MF6760)

Dear Mr. Shea:

By letter dated September 25, 2015, Tennessee Valley Authority (TVA, the licensee) submitted a license amendment request (LAR) for Browns Ferry Nuclear Plant, Unit 1. The LAR proposes to revise the value of the safety limit minimum critical power ratio values for two-loop and single-loop operation.

The U.S. Nuclear Regulatory Commission (NRC) staff is reviewing your submittal and has determined that additional information is required to complete the review. The specific information requested is addressed in the enclosure to this letter. A draft request for additional information (RAI) that contained proprietary markups was e-mailed to the licensee on November 18, 2015. The NRC staff discussed this draft RAI, as well a revised non-proprietary version, during a clarification call with the licensee on November 20, 2015. By an e-mail dated November 23, 2015, the licensee confirmed that the original draft RAI did not contain any proprietary information. In addition, during the conference call TVA agreed to respond to the enclosed RAI by December 31, 2015.

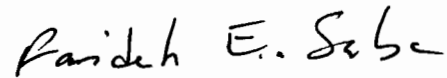
The NRC staff considers that timely responses to RAIs help ensure sufficient time is available for staff review and contribute toward the NRC's goal of efficient and effective use of staff resources.

J. Shea

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If circumstances result in the need to revise the requested response date, please contact me at (301) 415-1447 or Farideh.Saba@nrc.gov.

Sincerely,

A handwritten signature in black ink that reads "Farideh E. Saba". The signature is written in a cursive style with a large, stylized 'F' and 'S'.

Farideh E. Saba, Senior Project Manager
Plant Licensing II-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-259

Enclosure:
Request for Additional Information

cc w/enclosure: Distribution via Listserv

REQUEST FOR ADDITIONAL INFORMATION
REGARDING LICENSE AMENDMENT REQUEST FOR
SAFETY LIMIT MINIMUM CRITICAL POWER RATIO
TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT, UNIT 1

DOCKET NO. 50-259

(CAC NO. MF6760)

By letter dated September 25, 2015 (Agencywide Documents Access and Management System Accession No. ML15268A566), Tennessee Valley Authority submitted a license amendment request (LAR) for Browns Ferry Nuclear Plant, Unit 1 (BFN-1). The LAR proposes to revise the value of the safety limit minimum critical power ratio values for two-loop and single-loop operation.

The Nuclear Regulatory Commission (NRC) staff has reviewed the submitted LAR and determined additional information is needed to complete its review. The purpose of this Request for Additional Information (RAI) is to gain a more detailed understanding of the restrictions in the topical reports referenced. The following RAI describes the additional information needed by the NRC staff.

SRXB RAI-1

In the critical power ratio correlations referenced in the submittal (ANP-10298P-A, Rev. 0, "ACE/ATRIUM 10XM Critical Power Correlation," and EMF-2209(P)(A) Rev. 3, "SPCB Critical Power Correlation"), there is a Safety Evaluation restriction for local peaking factors. Confirm that no rods in the BFN-1 Cycle 12 core are expected to exceed the local peaking factor limit for the range of applicability of the critical power correlations given in Table 2-1 of ANP-10298P. Describe how high-peaking rods are identified.

Enclosure

J. Shea

- 2 -

If circumstances result in the need to revise the requested response date, please contact me at (301) 415-1447 or Farideh.Saba@nrc.gov.

Sincerely,

/RA/

Farideh E. Saba, Senior Project Manager
Plant Licensing II-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-259

Enclosure:
Request for Additional Information

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**by email*

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DATE	12/03/2015	12/02/2015	12/03/2015	12/03/2015	12/03/2015

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