

May 27, 2005

Mr. Karl W. Singer
Chief Nuclear Officer and
Executive Vice President
Tennessee Valley Authority
6A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

SUBJECT: BROWNS FERRY NUCLEAR PLANT, UNITS 2 AND 3 —
EXTENDED POWER UPRATE ACCEPTANCE REVIEW RESULTS
(TAC NOS. MC3743 AND MC3744) (TS-418)

Dear Mr. Singer:

By letter dated June 25, 2004, Tennessee Valley Authority (TVA), the licensee, submitted an amendment request for Browns Ferry Nuclear Plant (BFN), Units 2 and 3. The proposed amendment would change the BFN, Units 2 and 3, operating licenses to increase the maximum authorized power level from 3458 megawatts thermal (MWt) to 3952 MWt. This change represents an increase of approximately 15 percent above the current maximum authorized power level, and is commonly referred to as an extended power uprate (EPU).

In a letter dated November 18, 2004, and during a teleconference held on February 17, 2005, the U.S. Nuclear Regulatory Commission (NRC) staff provided the results of its acceptance review and described the areas where additional information was required to complete the application. TVA responded in letters dated February 23, and April 25, 2005. The NRC staff has reviewed the information provided and determined that sufficient information has been provided to begin the technical review of your application.

The EPU review standard, associated topical reports, and other related EPU regulatory guidance, indicates that unique features require the submission of site-specific information at a level of detail consistent with the complexity of the issues. A core analysis that provides fuel-dependent analyses that demonstrate, at the EPU condition, the core and fuel performance will satisfy all safety and regulatory requirements is needed. It is the NRC staff's understanding that Unit 2 will be fueled with a mix of Framatome ATRIUM-10 and General Electric GE14 fuel types and Unit 3 will be fueled with a full core of Framatome ATRIUM-10 fuel at the time of EPU implementation. In addition, as discussed with your staff on February 10, 2005, the results of a site-specific operating cycle core safety analysis (supplemental reload licensing report), which should be bounding for the first cycle of EPU operation, should be provided as soon as it becomes available, but no later than 6 months prior to your planned EPU implementation dates.

K. Singer

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In your letter dated June 25, 2004, you stated that you intend to implement the power uprate, if approved, on Unit 2 in the spring of 2007, and on Unit 3 in the spring of 2008. The NRC staff understands that these dates are your "need dates" and will endeavor to complete review of your application by the spring of 2007. If our understanding of your "need date" is incorrect, or if your "need date" changes, please send written notification to the staff promptly.

If you have any questions, please contact the BFN, Units 2 and 3, Project Manager, Ms. Eva Brown, at (301) 415-2315.

Sincerely,

/RA/

Edwin M. Hackett, Director
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-260 and 50-296

cc: See next page

K. Singer

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Edwin M. Hackett, Director
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NAME	MChernoff for EBrown via e-mail	BClayton	FAkstulewicz	MMarshall	EHackett
DATE	5/26/05	5/26/05	5/16/2005	5/26/05	5/27/05

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SUBJECT: BROWNS FERRY NUCLEAR PLANT, UNITS 2 AND 3 — EXTENDED
POWER UPRATE ACCEPTANCE REVIEW (TAC NOS. MC3743 AND MC3744)

DATE: May 27, 2005

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Mr. Karl W. Singer
Tennessee Valley Authority

BROWNS FERRY NUCLEAR PLANT

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