



**OFFICIAL USE ONLY – PROPRIETARY INFORMATION**

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

March 31, 2017

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

**SUBJECT: BROWNS FERRY NUCLEAR PLANT, UNITS 1, 2, AND 3 – TRANSMITTAL OF DRAFT SAFETY EVALUATION FOR PROPOSED EXTENDED POWER UPRATE LICENSE AMENDMENTS (CAC NOS. MF6741, MF6742, AND MF6743)**

Dear Mr. Shea:

By letter dated September 21, 2015,<sup>1</sup> as supplemented by additional letters,<sup>2</sup> Tennessee Valley Authority (the licensee) submitted a license amendment request for Browns Ferry Nuclear Plant, Units 1, 2, and 3. The proposed amendments would authorize an increase in the maximum power level from 3,458 megawatts thermal (MWt) to 3,952 MWt. The requested change, referred to as an extended power uprate (EPU), represents an increase of approximately 14.3 percent above the current licensed thermal power level.

Enclosed is the draft safety evaluation (SE), which the U.S. Nuclear Regulatory Commission (NRC) staff has prepared to support the proposed EPU license amendment. The draft SE has also been provided to the Advisory Committee on Reactor Safeguards (ACRS) in preparation for the upcoming meetings that are currently scheduled as follows:

- ACRS Subcommittee meeting on May 3, 2017, in Rockville, Maryland, and
- ACRS Full Committee meeting on June 7, 2017, in Rockville, Maryland.

**The stated enclosure transmitted herewith contains proprietary information. When separated from its enclosure, this document is decontrolled.**

<sup>1</sup> Agencywide Documents Access and Management System (ADAMS) Accession No. ML15282A152.

<sup>2</sup> November 13, 2015 (ML15317A361); December 15, 2015 (two letters) (ML15351A097 and ML15351A113); December 18, 2015 (ML15355A413); February 16, 2016 (ML16049A248); March 8, 2016 (ML16069A142); March 9, 2016 (ML16070A189); March 24, 2016 (ML16085A143); March 28, 2016 (ML16089A054); April 4, 2016 (ML16095A293); April 5, 2016 (ML16096A411); April 14, 2016 (ML16106A072); April 22, 2016 (two letters) (ML16113A393 and ML16159A040); April 27, 2016 (ML16118A298); May 11, 2016 (ML16133A580); May 20, 2016 (two letters) (ML16141B248 and ML16141B255); May 27, 2016 (ML16197A563); June 9, 2016 (ML16166A151); June 17, 2016 (ML16169A332); June 20, 2016 (ML16173A254); June 24, 2016 (ML16179A348); July 13, 2016 (two letters) (ML16195A510 and ML16204A089); July 27, 2016 (ML16210A501); July 29, 2016 (two letters) (ML16211A393 and ML16211A393); August 3, 2016 (three letters) (ML16216A699, ML16217A144, and ML16217A161); September 12, 2016 (two letters) (ML16257A540 and ML16267A374); September 23, 2016 (ML16269A001); October 13, 2016 (ML16288A546); October 28, 2016 (ML16302A441); October 31, 2016 (ML16305A370); January 20, 2017 (ML17023A200); February 3, 2017 (ML17034A562); and March 3, 2017 (ML17062A998).

~~OFFICIAL USE ONLY -- PROPRIETARY INFORMATION~~

- 2 -

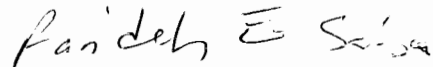
The draft SE is being withheld from public disclosure at this time because it contains proprietary information pursuant to Title 10 of the *Code of Federal Regulations* Section 2.390. The NRC staff has made some preliminary proprietary markings in the draft SE identified by bolded text enclosed within double brackets.

The NRC staff requests that the licensee provide comments regarding the proprietary content in the draft SE by April 28, 2017. Comments may also be provided regarding the factual accuracy of the information in the draft SE. The response timeframe was discussed with Mr. Daniel Green of your staff on March 29, 2017.

Since the NRC review is not yet complete, this letter and the enclosure do not convey or represent an NRC staff position regarding the licensee's request. Should the amendments be approved, the NRC staff will issue a publicly available, nonproprietary version of the SE.

If you have any questions, please contact me at (301) 415-1447 or by e-mail to [Farideh.Saba@nrc.gov](mailto:Farideh.Saba@nrc.gov).

Sincerely,



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

Docket Nos. 50-259, 50-260, and 50-296

Enclosure:  
Draft Safety Evaluation (proprietary)

cc w/o encl: Distribution via Listserv

~~OFFICIAL USE ONLY -- PROPRIETARY INFORMATION~~

SUBJECT: BROWNS FERRY NUCLEAR PLANT, UNITS 1, 2, AND 3 – TRANSMITTAL OF DRAFT SAFETY EVALUATION FOR PROPOSED EXTENDED POWER UPRATE LICENSE AMENDMENTS (CAC NOS. MF6741, MF6742, AND MF6743) DATED MARCH 31, 2017

**DISTRIBUTION:**

Public  
LPL2-2 R/F  
RidsNrrDorlLpl2-2 Resource  
RidsNrrPMBrownsFerry Resource  
RidsNrrLABClayton Resource  
RidsACRS\_MailCTR Resource  
RidsRgn1MailCenter Resource

**ADAMS Accession Nos.**

**LTR ML17088A752**

**Proprietary SE ML17032A118 (non-public)**

**Package ML16314C023 (non-public)**

OFFICE	DORL/LPL2-2/PM	DORL/LPL2-2/LA	DORL/LPL2-2/BC	DORL/LPL2-2/PM
NAME	FSaba	BClayton (LRonewicz for)	BBeasley (DGalvin for)	FSaba
DATE	03/29/2017	03/29/2017	03/29/2017	03/31/2017

**OFFICIAL RECORD COPY**