



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

January 30, 2023

Mr. James Barstow
Vice President, Nuclear Regulatory
Affairs and Support Services
Tennessee Valley Authority
1101 Market Street, LP 4A-C
Chattanooga, TN 37402-2801

SUBJECT: BROWNS FERRY NUCLEAR PLANT, UNITS 1, 2, AND 3 – CORRECTION OF SAFETY EVALUATION FOR ISSUANCE OF AMENDMENT NOS. 325, 348, AND 308 REGARDING APPLICATION OF ADVANCED FRAMATOME METHODOLOGIES, AND ADOPTION OF TSTF-564-A, REVISION 2, 'SAFETY LIMIT MCPR,' IN SUPPORT OF ATRIUM 11 FUEL USE (EPID-L-2021-LLA-0132)

Dear Mr. Barstow:

On January 13, 2023, the U.S. Nuclear Regulatory Commission (NRC) issued Amendment Nos. 325, 348, and 308 to Renewed Facility Operating Licenses Nos. DPR-33, DPR-52, and DPR-68 for the Browns Ferry Nuclear Plant (Browns Ferry), Units 1, 2, and 3, respectively (Agencywide Documents Access and Management System (ADAMS) Accession No. ML22348A068 (not publicly available; proprietary information)).

Among other things, the amendments revised Browns Ferry Technical Specification (TS) 5.6.5.b, "Core Operating Limits Report," to allow application of Advanced Framatome Methodologies for determining core operating limits in support of loading Framatome fuel type ATRIUM 11™ under the currently licensed Maximum Extended Load Line Limit Analysis Plus (MELLLA+) operating domain.

A non-proprietary version of the amendments was not yet released to the public to allow Tennessee Valley Authority (TVA) the opportunity to confirm the proprietary markings in the safety evaluation (SE). On January 19, 2023, TVA staff notified the NRC staff of several places in the SE that should have been marked as proprietary. The identified text on SE pages 19, 43, 44, 45, 46, 47, 60, 73, 74, and 93 has been corrected to properly mark the text as proprietary. The text will be redacted in the non-proprietary version of Amendment Nos. 325, 348, and 308, which will be released to the public.

The Enclosure to this letter contains proprietary information. When separated from the Enclosure, this document is decontrolled.

J. Barstow

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Additionally, during its review, TVA identified errors or missing text on the SE pages as described below:

Page 25: “AREVA ATRIUM 11” should read “Framatome ATRIUM 11”
Page 46: correction to LPCI line break
Page 49: “ANP-3934, Appendix A” should be “ANP-3905, Appendix A”
Page 82: the condition for 50 percent core power, with 113 percent core flow was omitted
Page 87: the maximum Δ MCPR was corrected in ANP-3904, Revision 5, dated July 2022
Page 99: the statement “For ECPR values less than...” should be “For ECPR values greater than...”
Page 107: the revision number for Reference 27 is missing
Page 108: the date for Reference 36 should be August 2005

The NRC concludes that these corrections do not change the NRC staff’s previous conclusions in the SE, nor do they affect the no significant hazards consideration, as published in the *Federal Register* on March 8, 2022 (87 FR 13014). The enclosure contains corrected pages 19, 25, 43, 44, 45, 46, 47, 49, 60, 73, 74, 82, 87, 93, 99, 107, and 108 for the proprietary SE for Amendment Nos. 325, 348, and 308. The corrections are denoted by a revision bar in the right margin. These corrections will be reflected in the non-proprietary SE for Amendment Nos. 325, 348, and 308.

If you have any questions regarding this matter, please contact me at (301) 415-1627 or by email at Kimberly.Green@nrc.gov.

Sincerely,

/RA/

Kimberly J. Green, 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:
Corrected Proprietary SE pages 19, 25,
43, 44, 45, 46, 47, 49, 60, 73, 74, 82, 87,
93, 99, 107, and 108

cc: Listserv/without Enclosure

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ENCLOSURE

CORRECTED PAGES 19, 25, 43, 44, 45, 46, 47, 49, 60, 73, 74, 82, 87, 93, 99, 107, AND 108

FOR PROPRIETARY SAFETY EVALUATION

BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO LICENSE AMENDMENT NOS. 325, 348, AND 308

TO RENEWED FACILITY OPERATING LICENSES NOS. DPR-33, DPR-52, AND DPR-68

TENNESSEE VALLEY AUTHORITY

BROWNS FERRY NUCLEAR PLANT, UNITS 1, 2, AND 3

DOCKET NOS. 50-259, 50-260, AND 50-296

This document contains proprietary information pursuant to Section 2.390
of Title 10 of the *Code of Federal Regulations*

**Proprietary information is identified by bolded text enclosed within double brackets
shown here [[proprietary text]].**

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J. Barstow

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SUBJECT: BROWNS FERRY NUCLEAR PLANT, UNITS 1, 2, AND 3 – CORRECTION OF SAFETY EVALUATION FOR ISSUANCE OF AMENDMENT NOS. 325, 348, AND 308 REGARDING APPLICATION OF ADVANCED FRAMATOME METHODOLOGIES, AND ADOPTION OF TSTF-564-A, REVISION 2, ‘SAFETY LIMIT MCPR,’ IN SUPPORT OF ATRIUM 11 FUEL USE (EPID-L-2021-LLA-0132) DATED JANUARY 30, 2023

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ASallman, NRR

ARau, NRR

ADAMS Accession Nos.:

Cover Letter, ML23026A318

Proprietary Enclosure, ML23026A324

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