



Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402

CNL-15-100

June 19, 2015

10 CFR 50.4

ATTN: Document Control Desk
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

Browns Ferry Nuclear Plant, Unit 2
Renewed Facility Operating License No. DPR-52
NRC Docket No. 50-260

Subject: **Browns Ferry Nuclear Plant (BFN) - Identification of Non-Consequential Error in TS-478 Documentation**

- Reference:
1. Letter from NRC to TVA, "Browns Ferry Nuclear Plant, Units 1, 2, and 3 – Issuance of Amendments Regarding Technical Specifications (TS) Change TS-478 Addition of Analytical Methodologies to TS 5.6.5 and Revision of TS 2.1.1.2 for Unit 2 (TAC NOS. MF0877, MF0878, and MF0879)," dated July 31, 2014 (ADAMS Accession No. ML14108A334)
 2. Letter from TVA to NRC, "Browns Ferry Nuclear Plant (BFN), Unit 3 - Application to Modify Technical Specification 2.1.1.2, Reactor Core Minimum Critical Power Ratio Safety Limits (TS-499)," dated March 6, 2015 (ADAMS Accession No. ML15090A436)
 3. AREVA NP Inc., "Browns Ferry Unit 2 Cycle 19 MCPR Safety Limit Analysis With SAFLIM3D Methodology," 51-9191258-001, Revision 1, October 2012
 4. AREVA NP Inc., "Browns Ferry Unit 2 Cycle 19 Reload Analysis," ANP-3167(P), Revision 0, November 2012
 5. AREVA NP Inc., "ACE/ATRIUM 10XM Critical Power Correlation," ANP-10298PA, Revision 0, March 2010.
 6. AREVA NP Inc., "Improved K-factor Model for ACE/ATRIUM 10XM Critical Power Correlation," ANP-10298PA Revision 0, Supplement 1P, Revision 0, December 2011

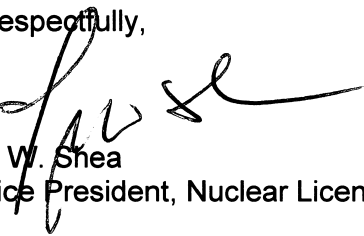
The purpose of this letter is to notify the Nuclear Regulatory Commission (NRC) of a non-consequential error in a previously submitted and subsequently approved License Amendment Request (LAR).

In Reference 1, Tennessee Valley Authority (TVA) received approval for Technical Specifications (TS) Change Request TS-478 for Browns Ferry Nuclear Plant (BFN), Units 1, 2, and 3. The change allowed, in part, the addition of the SAFLIM-3D methodology to the Technical Specifications for all three units. The amendment also modified the BFN Unit 2 TS 2.1.1.2 value of the safety limit minimum critical power ratio (SLMCPR) for two-loop operation to 1.06 and the SLMCPR for single loop operation to 1.08. The revised SLMCPR values reflect a reduction from the current values, and are supported by the application of the SAFLIM-3D methodology approved for all three BFN units.

During preparation of the LAR TS-499 (Reference 2) that requested a similar reduction in SLMCPR for BFN Unit 3, it was discovered that the critical power correlation additive constant uncertainty for the ACE/ATRIUM-10XM correlation was incorrectly stated in two documents that were part of the TS-478 submittal. Table 1 of Reference 3 and Table 4.1 of Reference 4 incorrectly list the additive constant uncertainty value associated with the original ACE/ATRIUM-10XM correlation (Reference 5) rather than the uncertainty value associated with the supplement correlation (Reference 6). The original correlation had been modified to address an issue with the calculation of the K-factor parameter which resulted in the adjustment of the additive constants and the associated additive constant uncertainty. The correct additive constant uncertainty value for the revised correlation is contained in Reference 6 (Page 3-15 and Table 3-1 on page 3-16) which was approved by NRC; the correct value was used in the actual calculations that supported the BFN Unit 2 revised SLMCPR analysis. None of the analytical results are affected. This error was discussed with Ms. Farideh Saba, BFN Project Manager in the Office of Nuclear Reactor Regulation (NRR), and entered in the TVA Corrective Action Program (Condition Report #990520).

No action is being requested of NRC; this letter is solely for notification purposes. There are no new regulatory commitments associated with this submittal. If there are any questions or if additional information is needed, please contact Mr. Edward D. Schrull at (423) 751-3850.

Respectfully,



J. W. Shea
Vice President, Nuclear Licensing

cc:

NRC Regional Administrator - Region II
NRC Senior Resident Inspector - Browns Ferry Nuclear Plant
State Health Officer, Alabama State Department of Public Health