



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

June 9, 2009

Mr. Preston D. Swafford
Chief Nuclear Officer and
Executive Vice President
Tennessee Valley Authority
3R Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

SUBJECT: BROWNS FERRY NUCLEAR PLANT, UNIT 1 – REQUEST FOR ADDITIONAL
INFORMATION FOR EXTENDED POWER UPRATE - ROUND 24
(TAC NO. MD5262) (TS-431)

Dear Mr. Swafford:

By letter dated June 28, 2004, the Tennessee Valley Authority (TVA, the licensee) submitted an amendment request for Browns Ferry Nuclear Plant (BFN), Unit 1, as supplemented by letters dated August 23, 2004, February 23, April 25, June 6, December 19, 2005, February 1 and 28, March 7, 9, 23, and 31, April 13, May 5, 15, and 16, June 15, 23, and 27, July 6, 21, 26, and 31, August 4, 16, 18, and 31, September 1, 15, and 22, October 3, 5, and 13, November 7, December 1, 5, 11, and 21, 2006, January 31, February 16 and 26, April 6, 18, and 24, July 27, September 24, November 15 and 21, December 14, 2007, January 25 and 31, February 11 and 21, March 6, April 4 and 9, May 1, June 3, 12, and 16, August 15, September 2 and 19, October 3, 17, and 31, November 11 and 14, December 15, 2008, January 9, 16, and 23, February 18 and 24, March 11, 12, and 27, April 3, 10, 21, and 29, and May 7, 2009. The proposed amendment would change the BFN operating license for Unit 1 to increase the maximum authorized power level by approximately 15 percent.

Enclosed is a non-proprietary version Request for Additional Information (RAI). A proprietary version of the RAI was provided in separate correspondence. Your response to our RAI is needed before the Nuclear Regulatory Commission staff can complete the review. This request was discussed with Mr. Denzel Housely of your staff on May 20, 2009, and it was agreed that TVA would respond by June 5, 2009.

If you have any questions, please contact me at (301) 415-2315.

Sincerely,

/RA/

Eva A. Brown, Senior Project Manager
Plant Licensing Branch II-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-259

Enclosure: RAI Non-Proprietary Version

cc w/enclosure: Distribution via ListServ

opportunity to confirm the accuracy of the current approach of dynamic stress analysis of boiling-water reactor steam dryer using the ACM Revision 4 to predict the dryer pressure loading for each planned dryer configuration for the three Browns Ferry units.

Therefore, TVA is requested to provide a Unit 2 dryer stress analysis for the existing dryer configuration, based on the dryer pressure loading for the current licensed thermal power [105 percent original licensed thermal power], as predicted by the ACM Rev. 4 Code, in order to demonstrate the analytical predictability of the above noted deformations of the tie bars and the center divider plate, as well as failures of certain tie bars.

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