

August 2, 2005

LICENSEE: Tennessee Valley Authority (TVA)
FACILITY: Browns Ferry Nuclear Plant (BFN), Units 1, 2, and 3
SUBJECT: SUMMARY OF A CONFERENCE CALL HELD ON JULY 7, 2005, BETWEEN THE U.S. NUCLEAR REGULATORY COMMISSION (NRC) STAFF AND TENNESSEE VALLEY AUTHORITY (TVA) LICENSE RENEWAL STAFF, CONCERNING INFORMATION ON BROWNS FERRY NUCLEAR PLANT, UNITS 1, 2, AND 3, LICENSE RENEWAL APPLICATION (TAC NOS. MC1704, MC1705, AND MC1706)

The NRC, the staff, and representatives of TVA held a telephone conference on July 7, 2005, to discuss and clarify the staff's follow-up to request for additional information (RAI) concerning the Browns Ferry Nuclear Plant, Units 1, 2, and 3, license renewal application. The conference call was useful in clarifying the intent of the staff's follow-up questions.

Enclosure 1 provides the follow-up to the questions discussed with the applicant. Enclosure 2 provides a list of the conference call participants.

Sincerely,

/RA/

Yaira K. Diaz Sanabria, Project Manager
License Renewal Section A
License Renewal and Environmental Impacts Program
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

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

Enclosure: As stated

cc w/encls: See next page

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BROWNS FERRY NUCLEAR PLANT

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BROWNS FERRY NUCLEAR PLANT

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Tennessee Valley Authority

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DISTRIBUTION: Letter to K. Singer, Re: RAI for review of Browns Ferry Nuclear Plant, Units 1 and 2, Dated: August 2, 2005

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**TELEPHONE CONFERENCE CALL BETWEEN THE
U.S. NUCLEAR REGULATORY COMMISSION (NRC) AND
TENNESS VALLEY AUTHORITY (TVA) HELD ON JULY 7, 2005
FOLLOW-UP QUESTIONS REGARDING BFN LRA
MEETING SUMMARY**

The NRC, the staff, and representatives of TVA held a telephone conference call on July 7, 2005, to discuss and clarify the staff's follow-up to a request for additional information (RAI) concerning the Browns Ferry Nuclear Plant, Units 1, 2, and 3, license renewal application. The questions related to previous staff RAI on the Time-Limited Aging Analysis on core shroud hold down bolts stress relaxation. The following follow-up questions were discussed with the applicant.

Follow-up to RAI 4.7.7-1

Figure 1 of the applicant's submittal dated June 29, 2005, compares the stress relaxation for the BFN core plate hold-down bolts, to the stress relaxation from the data derived from springs and bent beam stainless steel specimens. The staff request that the applicant provide information regarding the values of neutron flux and temperature at which the bent beam and spring test specimens were exposed, and compare them to the neutron flux and temperature values of the BFN's core plate hold-down bolts. If the neutron flux and temperature values for the BFN core plate hold-down bolts are different than that for the bent beam and spring test specimen data, evaluate the impact of these differences on the predicted stress relaxation values of the BFN core plate hold-down bolts.

Follow-up to RAI 4.7.7-2

The bending stresses in the hold-down bolts result from the horizontal loads acting on the core plate. Some of these loads may depend on the pre-loading of the hold-down bolts. The core plate is also subject to vertical loads, which could possibly cause portions of the core plate rim to separate from the shroud support, as a result of smaller bolt pre-loads.

Show that under Scenario 3 of BWRVIP-25, the axial and bending stresses for the mean and highest loaded hold-down bolts will not exceed the ASME Section III allowable stresses for Pm and Pm+Pb, as a result of a 20% reduction in the specified bolt pre-load. State clearly the assumptions on which the analysis was based.

It was agreed that the TVA will work with the vendor, General Electric Company, and respond to the staff follow up questions at their earliest.

**LIST OF PARTICIPANTS FOR TELEPHONE CONFERENCE CALL
TO DISCUSS BROWNS FERRY NUCLEAR PLANT, UNITS 1, 2 AND 3
LICENSE RENEWAL APPLICATION
JULY 7, 2005**

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