

April 21, 2006

Mr. Karl W. Singer
Chief Nuclear Officer
and Executive Vice President
Tennessee Valley Authority
6A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

SUBJECT: SUPPLEMENTAL SAFETY EVALUATION REPORT RELATED TO THE
LICENSE RENEWAL OF BROWNS FERRY NUCLEAR PLANT, UNITS 1, 2,
AND 3 (TAC NOS. MC1704, MC1705, AND MC1706) - TRANSMITTAL OF
SUPPLEMENT 1 TO THE SAFETY EVALUATION REPORT (NUREG-1843)

Dear Mr. Singer:

By letter dated December 31, 2003, Tennessee Valley Authority (TVA or the applicant) submitted an application to the U.S. Nuclear Regulatory Commission (NRC or the staff) for the renewal of the Browns Ferry Nuclear Plant, Units 1, 2 and 3 operating licenses for up to an additional 20 years. The license renewal application (LRA) was submitted pursuant to Title 10 of the *Code of Federal Regulations* Part 54, "Requirements for Renewal of Operating Licenses for Nuclear Power Plants." The staff determined that the LRA was complete and acceptable for docketing on March 4, 2004. Since that time, the staff has reviewed TVA LRA, issued requests for additional information (RAIs), reviewed the applicant's responses to the staff's RAIs and developed a safety evaluation report (SER) with open items dated August 9, 2005, and a final SER dated January 12, 2006, to document its findings associated with the safety review of the LRA. Subsequent to these transmittals and based on further recommendations from the Advisory Committee on Reactor Safeguards, the staff has now developed a Supplement 1 to the final SER, which is enclosed. This completes our safety review of your renewal application.

If you have any questions regarding this matter, please contact the License Renewal Project Manager, Ram Subbaratnam, at 301-415-1478 or via e-mail at RXS2@nrc.gov.

Sincerely,

/RA/ P.T. Kuo for

Frank P. Gillespie, Director
Division of License Renewal
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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DATE	04/ 19 /06	04/ 21 /06	04/ 19 /06	04/ 19 /06	04/21/06 (PT Kuo for)

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BROWNS FERRY NUCLEAR PLANT

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BROWNS FERRY NUCLEAR PLANT

- 2 -

Tennessee Valley Authority

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Letter to Karl W. Singer From Frank Gillespie dated: April 21, 2006

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