

August 3, 1999

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

SUBJECT: SAFETY EVALUATION SUPPLEMENT, BROWNS FERRY NUCLEAR PLANT
UNITS 2 AND 3 - RADIOLOGICAL DOSE CALCULATIONS ASSOCIATED
WITH POWER UPRATE LICENSE AMENDMENTS 254 AND 214
(TAC NOS. MA5991 AND MA5992)

Dear Mr. Scalice:

By letter dated March 30, 1999, Mr. T.E. Abney of Tennessee Valley Authority forwarded information related to reanalysis of control room, site boundary and low population zone doses. This information was provided in response to Units 2 and 3 license conditions that were imposed as part of the power uprate amendments (TAC Nos. M99711 and M99712).

The U.S. Nuclear Regulatory Commission (NRC) staff has reviewed the information and prepared a safety evaluation (enclosed) which supplements its safety evaluation of August 11, 1998. The new dose calculations are acknowledged to be the analyses of record for the radiological consequences of a design basis loss-of-coolant accident. This action resolves the part of the license conditions which require you to submit, for NRC approval, the methodology and results of dose consequences analyses by March 31, 1999. This completes action on TAC Nos. MA5991 and MA5992. The license conditions will remain in the licenses until the necessary modifications are completed.

If you have any questions regarding this action, contact the undersigned at 301-415-3026.

Sincerely,
Original signed by:
William O. Long, Senior Project Manager, Section 2
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-260, 50-296

Enclosure: Safety Evaluation

cc w/enclosure: See next page

NRC FILE CENTER COPY

//
DF01

DISTRIBUTION:

Docket File
PUBLIC
BFN Reading
BClayton
WLong
RScholl (e-mail SE)

OGC
ACRS
SLaVie
RBarrett
SPeterson
PFredrickson, RII

DOCUMENT NAME: G:\PDII-2\BFNA5991.WPD

To receive a copy of this document, indicate in the box: "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

| | | | | | | |
|--------|-----------|-----------|---|------------------|-----------|---------|
| OFFICE | PDII-2\PM | PDII-2\LA | E | SPSB\BC | PDII-2\SC | C |
| NAME | WLong | BClayton | | RBarrett #99-139 | SPeterson | |
| DATE | 07/1/99 | 07/1/99 | | 07/1/99 | 07/1/99 | 07/1/99 |

9908090186 990803
PDR ADDCK 05000260
P PDR

ORIGINAL RECORD COPY





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

August 3, 1999

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

**SUBJECT: SAFETY EVALUATION SUPPLEMENT, BROWNS FERRY NUCLEAR PLANT
UNITS 2 AND 3 - RADIOLOGICAL DOSE CALCULATIONS ASSOCIATED
WITH POWER UPRATE LICENSE AMENDMENT NOS. 254 AND 214
(TAC NOS. MA5991 AND MA5992)**

Dear Mr. Scalice:

By letter dated March 30, 1999, Mr. T.E. Abney of Tennessee Valley Authority forwarded information related to reanalysis of control room, site boundary and low population zone doses. This information was provided in response to Units 2 and 3 license conditions that were imposed as part of the power uprate amendments (TAC Nos. M99711 and M99712).

The U.S. Nuclear Regulatory Commission (NRC) staff has reviewed the information and prepared a safety evaluation (enclosed) which supplements its safety evaluation of August 11, 1998. The new dose calculations are acknowledged to be the analyses of record for the radiological consequences of a design basis loss-of-coolant accident. This action resolves the part of the license conditions which require you to submit, for NRC approval, the methodology and results of dose consequences analyses by March 31, 1999. This completes action on TAC Nos. MA5991 and MA5992. The license conditions will remain in the licenses until the necessary modifications are completed.

If you have any questions regarding this action, contact the undersigned at 301-415-3026.

Sincerely,

A handwritten signature in black ink, appearing to read "William O. Long".

William O. Long, Senior Project Manager, Section 2
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-260, 50-296

Enclosure: Safety Evaluation

cc w/enclosure: See next page



Mr. J. A. Scalice
Tennessee Valley Authority

BROWNS FERRY NUCLEAR PLANT

cc:

Senior Vice President
Nuclear Operations
Tennessee Valley Authority
6A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

Mr. Mark J. Burzynski, Manager
Nuclear Licensing
Tennessee Valley Authority
4X Blue Ridge
1101 Market Street
Chattanooga, TN 37402-2801

Mr. Jack A. Bailey, Vice President
Engineering & Technical Services
Tennessee Valley Authority
6A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

Mr. Timothy E. Abney, Manager
Licensing and Industry Affairs
Browns Ferry Nuclear Plant
Tennessee Valley Authority
P.O. Box 2000
Decatur, AL 35609

Mr. Karl W. Singer, Site Vice President
Browns Ferry Nuclear Plant
Tennessee Valley Authority
P.O. Box 2000
Decatur, AL 35609

Senior Resident Inspector
U.S. Nuclear Regulatory Commission
Browns Ferry Nuclear Plant
10833 Shaw Road
Athens, AL 35611

General Counsel
Tennessee Valley Authority
ET 10H
400 West Summit Hill Drive
Knoxville, TN 37902

Mr. Kirk E. Whatley
Office of Radiation Control
Alabama Dept. of Public Health
2001 Monroe Street, Suite 700
Montgomery, AL 36104

Mr. N. C. Kazanas, General Manager
Nuclear Assurance
Tennessee Valley Authority
5M Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

Chairman
Limestone County Commission
310 West Washington Street
Athens, AL 35611

Mr. Robert G. Jones, Plant Manager
Browns Ferry Nuclear Plant
Tennessee Valley Authority
P.O. Box 2000
Decatur, AL 35609