

April 16, 2004

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

SUBJECT: BROWNS FERRY NUCLEAR PLANT, UNIT 1 — REQUEST FOR ADDITIONAL
INFORMATION REGARDING THE SCRAM DISCHARGE VOLUME WATER
LEVEL SETPOINT (TAC NO. MC1427)

Dear Mr. Scalice:

By letter dated November 3, 2003, the Tennessee Valley Authority submitted an application to revise the Technical Specifications (TSs) for the Browns Ferry Nuclear Plant, Unit 1. The proposed revision would lower the allowable value in TS Table 3.3.1.1.1-1, Reactor Protection System Instrumentation, Function 7.b, Scram discharge Volume Water Level - High Float Switches.

The U.S. Nuclear Regulatory Commission staff has reviewed your submittal and finds that a response to the enclosed request for additional information is needed before we can complete the review. This request was discussed with your staff on April 15, 2004, and it was agreed that a response would be provided within 30 days of receipt of this letter. If you have any questions, please contact me at (301) 415-1496.

Sincerely,

/RA by W. Burton for/

Kahtan N. Jabbour, Senior Project Manager, Section 2
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-259

Enclosure: Request for Additional Information

cc w/encl: See next page

April 16, 2004

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

SUBJECT: BROWNS FERRY NUCLEAR PLANT, UNIT 1 — REQUEST FOR ADDITIONAL
INFORMATION REGARDING THE SCRAM DISCHARGE VOLUME WATER
LEVEL SETPOINT (TAC NO. MC1427)

Dear Mr. Scalice:

By letter dated November 3, 2003, the Tennessee Valley Authority submitted an application to revise the Technical Specifications (TSs) for the Browns Ferry Nuclear Plant, Unit 1. The proposed revision would lower the allowable value in TS Table 3.3.1.1.1-1, Reactor Protection System Instrumentation, Function 7.b, Scram discharge Volume Water Level - High Float Switches.

The U.S. Nuclear Regulatory Commission staff has reviewed your submittal and finds that a response to the enclosed request for additional information is needed before we can complete the review. This request was discussed with your staff on April 15, 2004, and it was agreed that a response would be provided within 30 days of receipt of this letter. If you have any questions, please contact me at (301) 415-1496.

Sincerely,

/RA by W. Burton for/

Kahtan N. Jabbour, Senior Project Manager, Section 2
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-259

Enclosure: Request for Additional Information

Distribution:

PUBLIC	RidsOgcRp	FAkstulewicz
PDII-2 R/F	RidsAcrsAcnwMailCenter	GThomas
RidsNrrDlpmLpdii-2 (WBurton)	RidsRgn2MailCenter (SCahill)	HLi
RidsNrrLABClayton (Hard Copy)	RidsNrrDlpmDpr	
RidsNrrPMKJabbour	EMarinos	

ADAMS Accession No. ML041110665

OFFICE	PDII-2/PM	PDII-2/LA	EEIB/SC	SRXB/SC	PDII-2/SC
NAME	KJabbour	BClayton	EMarinos	FAkstulewicz	MLMarshall for: WBurton
DATE	04/15/04	04/15/04	04/15/04	04/16/04	04/16/04

OFFICIAL RECORD COPY

Mr. J. A. Scalice
Tennessee Valley Authority

BROWNS FERRY NUCLEAR PLANT

cc:

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

Mr. Robert G. Jones
Browns Ferry Unit 1 Plant Restart Manager
Browns Ferry Nuclear Plant
Tennessee Valley Authority
P.O. Box 2000
Decatur, AL 35609

Mr. James E. Maddox, Vice President
Engineering & Technical Services
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. Ashok S. Bhatnagar, Site Vice President
Browns Ferry Nuclear Plant
Tennessee Valley Authority
P.O. Box 2000
Decatur, AL 35609

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

General Counsel
Tennessee Valley Authority
ET 11A
400 West Summit Hill Drive
Knoxville, TN 37902

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

Mr. T. J. Niessen, Acting General Manager
Nuclear Assurance
Tennessee Valley Authority
6A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

State Health Officer
Alabama Dept. of Public Health
RSA Tower - Administration
Suite 1552
P.O. Box 303017
Montgomery, AL 36130-3017

Mr. Michael D. Skaggs, Plant Manager
Browns Ferry Nuclear Plant
Tennessee Valley Authority
P.O. Box 2000
Decatur, AL 35609

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

Mr. Jon R. Rupert, Vice President
Browns Ferry Unit 1 Restart
Browns Ferry Nuclear Plant
Tennessee Valley Authority
P.O. Box 2000
Decatur, AL 35609

REQUEST FOR ADDITIONAL INFORMATION
SCRAM DISCHARGE VOLUME WATER LEVEL SETPOINT
TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT, UNIT 1
DOCKET NO. 50-259

1. Please discuss the instrument setpoint methodology used to calculate the allowable values of the float switches to monitor the scram discharge volume water level. Please identify the method discussed in the Instrument Society of America Standard 67.04.02, which has been used to determine the allowable values for this function. If your methodology has not been previously reviewed by the U.S. Nuclear Regulatory Commission staff, then please submit a copy of plant instrument setpoint methodology for review and approval.
2. Please provide simplified drawings showing the configuration of the scram discharge volume, the instrument volume, and the location of all level switches.
3. It appears that there is a slight discrepancy between the Updated Final Safety Analysis Report, Section 3.4.5.3, and the November 3, 2003, submittal regarding the number of switches. Please address this discrepancy.
4. Please discuss, in detail, the function and the allowable setpoint values of the resistance temperature devices that are provided for the scram discharge volume level monitoring.