

February 14, 2008

LICENSEE: Tennessee Valley Authority

FACILITY: Browns Ferry Nuclear Plant, Units 1, 2, and 3

SUBJECT: SUMMARY OF JANUARY 25, 2008, MEETING WITH TENNESSEE VALLEY AUTHORITY, ON EXTENDED POWER UPRATE REVIEW (TAC NOS. MD5262, MD5263, AND MD5264)

On January 25, 2008, a Category 1 public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) and representatives of Tennessee Valley Authority (TVA, the licensee) at NRC Headquarters, One White Flint North, 11555 Rockville Pike, Rockville, Maryland. The purpose of the meeting was to discuss revisions to the licensee's analyses of the affects of flow induced vibration on the steam dryers and main steam line components at extended power uprate (EPU) and their Request for Additional Information (RAI)-15 submittal. A portion of this meeting was closed to the public due to the discussion of proprietary information. A list of attendees is enclosed.

The licensee's slides used in their presentation may be accessed from the NRC's Agencywide Documents Access and Management System under No. ML080360067.

DISCUSSION

TVA representatives presented an update on several nonconservative Finite Element Model (FEM) discrepancies (included in ML080360067). This update included a summary of the discrepancies found and what changes were made to verify the FEM. This discussion also included the difference between the Unit 1 steam dryer and the steam dryers of Units 2 and 3. The licensee found that some modifications previously made to Unit 1 were not necessary and, therefore, will not be made to Units 2 and 3. The modifications to Units 2 and 3 steam dryers will be completed in 2009 and 2010 respectively.

The TVA representative presented a summary of the testing that is ongoing to identify, and if present, work to mitigate resonance when increasing their power levels to EPU. They have currently completed 1/5 Scale Model testing of the steam dryers. This testing showed resonance frequency onset. Due to this they are now working on 1/8 Scale Model testing to quantify the effects of potential resonance at EPU. The 1/5 Scale Model test only included the main steam lines. The 1/8 Scale Model test included the reactor vessel, steam dryer, nozzles, four main steam lines and other components. The NRC staff had several questions of the conservativeness of the results.

Due to the fact that a resonance frequency was found in initial testing, the licensee is unable use the same methods other licensee's used for previously approved EPU submittals. Therefore, they have proposed a bump up factor to account for this frequency and track its changes as power is increased to EPU. The NRC staff counseled the licensee on the use of this method.

TVA had several questions about RAI-15 questions 139/106 and 145/112. After discussion with NRC staff question 139/106 will be answered for Unit 2 only. The NRC staff emphasized that it might become necessary for the licensee to answer the question for the other units at a later date. After discussion, question 145/112 was deleted. The NRC staff has an additional question which will be added to the next round of RAI questions.

The licensee indicated that the answers to all RAI questions would be completed by March 31, 2008 except for Unit 3. Unit 3 data would be provided by June 2008.

A member of the public was in attendance. Public Meeting Feedback form was not received. No commitments or regulatory decisions were made by the NRC staff during the meeting.

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

Docket No(s). 50-259, 50-260, and 50-296

Enclosure:
List of attendees

cc w/encl: See next page

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/RA/

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List of Attendees
U. S. Nuclear Regulatory Commission
Public Meeting with Tennessee Valley Authority
Regarding Browns Ferry Extended Power Uprate
January 25, 2008

U. S. NUCLEAR REGULATORY COMMISSION

Patrick Sekerak
Andrey Turilin
Kamal Manoly
Cameron Goodwin
Thomas Scarbrough
Chakrapani Basavaraju
John Wu
Thomas Boyce
Eva Brown

ARGONNE NATIONAL LABORATORY

Vik Shah

TENNESSEE VALLEY AUTHORITY
INCORPORATED

Robert Marks
James Emens
Frank Hartwig
Beth Wetzel
Kenneth Spates
J.D. Wolcott
George Nelson

CONTINUUM DYNAMICS

Alan Bilanin

CONSTELLATION ENERGY

Gary Pavis

MCMASTER UNIVERSITY

Samir Ziada

Tennessee Valley Authority

cc:

Mr. Ashok S. Bhatnagar
Senior Vice President
Nuclear Generation Development
and Construction
Tennessee Valley Authority
6A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

Mr. James R. Douet
Vice President
Nuclear Support
Tennessee Valley Authority
3R Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

Mr. H. Rick Rogers
Vice President
Nuclear Engineering & Technical Services
Tennessee Valley Authority
3R Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

Mr. D. Tony Langley, Manager
Licensing and Industry Affairs
Browns Ferry Nuclear Plant
Tennessee Valley Authority
P.O. Box 2000
Decatur, AL 35609

General Counsel
Tennessee Valley Authority
6A West Tower
400 West Summit Hill Drive
Knoxville, TN 37902

Mr. John C. Fornicola, General Manager
Nuclear Assurance
Tennessee Valley Authority
3R Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

BROWNS FERRY NUCLEAR PLANT

Mr. Steven M. Douglas
General Manager
Browns Ferry Site Operations
Browns Ferry Nuclear Plant
Tennessee Valley Authority
P.O. Box 2000
Decatur, AL 35609

Ms. Beth A. Wetzel, Manager
Corporate Nuclear Licensing
and Industry Affairs
Tennessee Valley Authority
4X Blue Ridge
1101 Market Street
Chattanooga, TN 37402-2801

Mr. James E. Emens, Jr., Interim Manager
Licensing and Industry Affairs
Browns Ferry Nuclear Plant
Tennessee Valley Authority
P.O. Box 2000
Decatur, AL 35609

James B. Baptist
Browns Ferry Senior Project Engineer
Division of Reactor Projects, Branch 6
U.S. Nuclear Regulatory Commission
61 Forsyth Street, SW.
Suite 24T85
Atlanta, GA 30303-8931

Tomy A. Nazario
Browns Ferry Project Engineer
Division of Reactor Projects, Branch 6
U.S. Nuclear Regulatory Commission
61 Forsyth Street, SW.
Suite 24T85
Atlanta, GA 30303-8931

Senior Resident Inspector
U.S. Nuclear Regulatory Commission
Browns Ferry Nuclear Plant
10833 Shaw Road
Athens, AL 35611-6970

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

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

Mr. Larry E. Nicholson, General Manager
Performance Improvement
Tennessee Valley Authority
3R Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

Mr. Michael A. Purcell
Senior Licensing Manager
Nuclear Power Group
Tennessee Valley Authority
4X Blue Ridge
1101 Market Street
Chattanooga, TN 37402-2801

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