



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

November 4, 2015

LICENSEE: Tennessee Valley Authority

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

SUBJECT: SUMMARY OF JULY 14, 2015, PUBLIC MEETING WITH TENNESSEE VALLEY AUTHORITY TO DISCUSS SEISMIC PROBABLISTIC RISK ASSESSMENT PLANNED FOR BROWNS FERRY NUCLEAR PLANT UNITS 1, 2 AND 3 (TAC NOS. MF3764, MF3765 AND MF3766)

On July 14, 2015¹, the U. S. Nuclear Regulatory Commission (NRC) staff held a Category 1 public meeting with 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 ongoing licensee and staff reviews regarding seismic probabilistic risk assessment (SPRA) associated with the implementation of Recommendation 2.1: Seismic of the March 12, 2012², NRC request for information issued pursuant to Title 10 to the *Code of Federal Regulations* Part 50, Section 50.54(f) (hereafter called the 50.54(f) letter) for Browns Ferry Nuclear Plant, Units 1, 2, and 3 (Browns Ferry).

The NRC staff as part of a public meeting on May 21, 2015³, informed licensees of efforts to reassess the need for completing seismic risk evaluation for Group 2 and Group 3 plants. In support of the reassessment effort, licensees were encourage to provide supplemental information to inform the staff deliberation process.

During the meeting, NRC staff and TVA representatives discussed the specific criteria NRC reviewed in finding that the Browns Ferry IPEEE did not meet SPID⁴ screening criteria⁵. TVA representatives discussed Brown's Ferry⁶ seismic capacity and Generic Issue 199 risk insights. The NRC staff and TVA representatives' discussions the SPRA reassessment process to determine if a SPRA is warranted included the following meeting highlights:

- The NRC staff communicated to TVA representatives that seismic reassessment of the seismic probabilistic risk assessment (SPRA) is in the process of being finalized, but the NRC remains open to considering updated information for work that TVA has already

¹ The meeting notice is available via the Agencywide Documents Access and Management System (ADAMS) under Accession No. ML15180A291.

² The 50.54(f) letter and Enclosure 1 are available under ADAMS Accession Nos. ML12053A340 and ML12056A047, respectively.

³ The May 21, 2015, seismic meeting summary is available under ADAMS Accession No. ML15147A677.

⁴ The EPRI, "Seismic Evaluation Guidance: Screening, Prioritization and Implementation Details (SPID) for the Resolution of Fukushima Near-Term Task Force Recommendation 2.1: Seismic," guidance document is found in ADAMS under Accession No. ML12333A170.

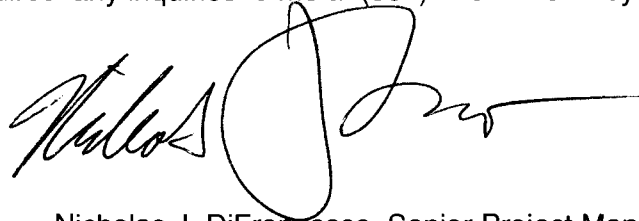
⁵ The staff review of the Browns Ferry IPEEE for seismic screening purposes is documented in letters dated May 9, 2014, and April 21, 2015, and are available under ADAMS Accession Nos. ML14111A147 and ML15090A745, respectively.

⁶ TVA's slide presentation is available under ADAMS Accession No. ML15293A458.

completed. The NRC staff emphasized that resource limitations would not allow for extensive review efforts.

- The NRC staff communicated to TVA an overview of the reassessment process and discussed specific criteria used to make the determination that a SPRA is warranted.
- The licensee presented "Brown's Ferry Seismic Risk Insights," which highlighted improvements to Brown's Ferry seismic capacity, improvements resulting from Individual Plant Examination of External Events plant capacity and resulting reduction of the seismic core damage frequency.
- The NRC agreed to provide an email⁷ to TVA detailing specific information needed to demonstrate the seismic capacity improvements to Brown's Ferry.
- The NRC staff requested a supplement be docketed should TVA seek consideration of these additional insights. By letter dated October 27, 2015 (ADAMS Accession No. ML15194A015), the staff found that a SPRA is expected for Browns Ferry.

No regulatory decisions or commitments were made during the meeting. The public was invited to observe the meeting and was given an opportunity to communicate with the NRC during the public meeting before adjourning. The NRC staff received no public comments and no meeting feedback forms were received. Please direct any inquiries to me at (301) 415-1115 or by e-mail at Nicholas.DiFrancesco@nrc.gov.



Nicholas J. DiFrancesco, Senior Project Manager
Hazards Management Branch
Japan Lessons-Learned Division
Office of Nuclear Reactor Regulation

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

Enclosure:
List of Attendees

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⁷ The July 16, 2015 NRC staff email to TVA is available under ADAMS Accession No. ML15293A607.

List of Attendees

U.S. Nuclear Regulatory Commission
Public Meeting with the Tennessee Valley Authority
Concerning Seismic Hazard Reevaluation Submittals for
Browns Ferry Nuclear Plant, Units 1, 2, and 3

July 14, 2015

Attendees				
Name	Organization		Name	Organization
Jack Davis	NRC/NRR/JLD		Joe Shea	TVA
Mohamed Shams	NRC/NRR/JLD		Steve Douglas	TVA
Andrea Kock	NRC/NRO/DSEA		Russell Thompson	TVA
Diane Jackson	NRC/NRO/DSEA		Penny Selman	TVA
Donnie Harrison	NRC/NRO/DSRA		Dan Kearnaghan	TVA
Nilesh Chokshi	NRC/NRO/DSEA		Justin Huber	TVA
Farideh Saba	NRC/NRR/DORL		Ram Srinivasan	TVA
Nicholas DiFrancesco	NRC/NRR/JLD		Brenda Simril	TVA
Steve Wyman	NRC/NRR/JLD			
Kamal Manoly	NRC/NRR/DE			
Yong Li	NRC/NRR/DE			
Frankie Vega	NRC/NRR/JLD			
Michael Marshall	NRC/NRR/JLD			
Attendees Via Telephone				
Name	Organization		Name	Organization
Steve Laur	NRC		Gary Moore	Public
Steve Lock	TVA		Rick Cutsinger	Public
Jason Jackson	TVA		Jeff Clark	Exelon
Jamie Paul	TVA		Rick Hartoonian	Public

Abbreviations:

DE – Division of Engineering
DSEA – Division of Site Safety and Environmental Analysis
EPRI - Electric Power Research Institute
DSRA – Division of Safety Systems & Risk

JLD – Japan Lesson-Learned Division
NEI – Nuclear Energy Institute
NRO – Office of New Reactors
NRR – Office of Nuclear Reactor Regulation
RES – Office of Nuclear Regulatory Research
TVA – Tennessee Valley Authority

Enclosure

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/RA/

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ADAMS Accession No.: ML15895A260

*Concurrence via e-mail

OFFICE	NRR/JLD/JHMB/PM	NRR/JLD/LA	NRR/JLD/JHMB/BC	NRR/JLD/PMB/PM
NAME	SWyman	SLent	MShams	NDiFrancesco
DATE	10/27/2015	10/30/2015	11/3/2015	11/4/2015

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⁸ The July 16, 2015 NRC staff email to TVA is available under ADAMS Accession No. ML15293A607.