



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

August 15, 2019

LICENSEE: Tennessee Valley Authority

FACILITY: Watts Bar Nuclear Plant, Units 1 and 2

SUBJECT: SUMMARY OF JULY 1, 2019, PRE-APPLICATION MEETING WITH  
TENNESSEE VALLEY AUTHORITY REGARDING A PLANNED LICENSE  
AMENDMENT REQUEST TO IMPLEMENT A FULL SPECTRUM  
LOSS-OF-COOLANT ACCIDENT (LOCA) EVALUATION METHODOLOGY  
AND ELIMINATE TPBAR POST-LOCA FAILURE ASSUMPTIONS  
(EPID L-2019-LRM-0036)

On July 1, 2019, a Category 1 partially closed public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) staff 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 TVA's plans and schedule related to submittal of a license amendment request (LAR) for the Watts Bar Nuclear Plant, Units 1 and 2 (Watts Bar). The licensee specified that the planned submittal would request approval for implementation of the full spectrum loss-of-coolant accident (FSLOCA) analysis methodology and eliminate tritium producing burnable absorber rods (TPBAR) post-LOCA failure assumptions. The meeting notice and agenda, dated June 20, 2019, are available in the Agencywide Documents Access and Management System under Accession No. ML19182A138. A list of attendees is enclosed.

During the public portion of the meeting, TVA provided an overview of the proposed LAR to discuss how it plans to implement FSLOCA. The licensee specified that using the FSLOCA methodology would allow the licensee to change the post-LOCA criticality assumption for TPBAR rupture and its consequent effect of lithium loss. The licensee discussed with NRC staff its proposed changes to the technical specifications and the license condition. The licensee also specified similarities between the LOCA analysis in the proposed LAR and that performed in support of the FSLOCA methodology for a previous Diablo Canyon Nuclear Power Plant submittal.

The secondary portion of the meeting was closed to members of the public, as it included a discussion of proprietary information. During this portion of the meeting, the licensee provided the results of analyses performed in accordance with Title 10 of the *Code of Federal Regulations* Section 50.46 regarding the evaluation of FSLOCA and the TPBAR structural integrity. The licensee also stated that a coding error was recently identified in the LAR. The licensee informed NRC staff that it does not expect this coding error to significantly impact the conclusions in the proposed Watts Bar LAR. However, addressing the error could result in a delay of the licensee's submittal. NRC staff asked questions regarding certain aspects of the FSLOCA methodology and also asked the licensee to provide more detail concerning its post-LOCA criticality analysis. NRC staff stressed the need for the licensee to ensure that enough information is provided in the submittal to support the basis for the conclusions reached in the analyses. The staff asked additional clarifying questions regarding the methodology and

provided observations on key issues (i.e., timing, quality, etc.) that could impact review of the licensee's submittal.

No regulatory decisions were made and no actions were identified as a result of this meeting. No members of the public were in attendance for the meeting; no public meeting feedback forms were received. Representatives from the Department of Energy were in attendance and expressed their appreciation for the NRC's efforts to support such amendments and also expressed their support for the LAR, because it has national security interest in support of the production of TPBARs.

Please direct any inquiries to me at 301-415-7410 or [Natreon.Jordan@nrc.gov](mailto:Natreon.Jordan@nrc.gov).

*/RA/*

Natreon Jordan, Project Manager  
Plant Licensing Branch II-2  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket Nos. 50-390 and 50-391

Enclosure:  
List of Attendees

cc: Listserv

LIST OF ATTENDEES

JULY 1, 2019, PRE-APPLICATION MEETING WITH TENNESSEE VALLEY AUTHORITY  
REGARDING WATTS BAR NUCLEAR PLANT, UNITS 1 AND 2, PLANNED LICENSE  
AMENDMENT REQUEST TO IMPLEMENT A FULL SPECTRUM LOSS-OF-COOLANT  
ACCIDENT (LOCA) EVALUATION METHODOLOGY AND ELIMINATE TPBAR POST-LOCA  
FAILURE ASSUMPTIONS

<b>ATTENDEE</b>	<b>ORGANIZATION</b>
Robert Schaaf	U.S. Nuclear Regulatory Commission (NRC)
Natreon (Nate) Jordan	NRC
Robert Beaton	NRC
Ravi Grover	NRC
John Lehning	NRC
Mathew Panicker	NRC
Peter Snyder	NRC
Josh Borromeo	NRC
Russ Wells	Tennessee Valley Authority (TVA)
David Brown	TVA
Mark Burzynski	TVA
Carla Borelli	TVA
Chris Carey	TVA
Kasey Decker	TVA
Michael Shockling	Westinghouse
Marianne Rudakewiz	Westinghouse
Nanette Founds	NA-192
Daniel Westlake	NA-192
Kelly Cummins	NA-192
Robert Montgomery	PNL

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PSnyder, NRR

JBorromeo, NRR

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**ADAMS Accession No.: ML19218A228**

**\*by e-mail**

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DATE	08/05/2019	08/07/2019	08/13/2019	08/15/2019

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