



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

December 3, 2014

APPLICANT: Tennessee Valley Authority

FACILITY: Watts Bar Nuclear Power Plant, Unit 2

SUBJECT: SUMMARY OF NOVEMBER 12, 2014, MEETING WITH TENNESSEE VALLEY
AUTHORITY REGARDING THE WATTS BAR NUCLEAR PLANT, UNIT 2
OPERATING LICENSE APPLICATION (FIRE PROTECTION)

On November 12, 2014, a Category 1 public teleconference was held between the U.S. Nuclear Regulatory Commission (NRC) staff and representatives of the Tennessee Valley Authority (TVA). The purpose of this meeting was for TVA and the NRC staff to discuss staff questions related to TVA's draft "As-Constructed Fire Protection Report" (the Report). TVA plans to submit the final version of the Report in November 2014. The NRC staff and TVA discussed draft versions of this report at four previous meetings as well. At this meeting, the discussion focused on clarification questions the staff had related to certain text in the Report that appeared contradictory to NRC staff. The meeting notice and agenda, dated October 22, 2014, is available in the Agencywide Documents Access and Management System at Accession No. ML14297A373. A list of attendees is provided as Enclosure 1. TVA had no formal presentation materials at this meeting.

The list of staff questions is provided as Enclosure 2. The NRC staff and TVA went through each of the staff's five questions listed in Enclosure 2. The focus of the clarification was related to how recall times should be incorporated into the calculations of times for operator manual actions necessary to safely shut down the plant in the event of a fire that could damage safety-related plant equipment. Currently, the NRC believes that the assistant unit operators (AUOs) are in the control room once equipment damage starts and, therefore, recall time need not be included in the calculations. However, closer examination of the Report revealed certain statements that called this assumption into question. The NRC noticed an area of the report that seemed to indicate that operators would recall the AUOs AFTER they had received confirmation of a fire and, therefore, potentially AFTER equipment damage had begun. TVA stated that they would examine this situation more closely to see if it is feasible and clarify any areas that may be confusing in their current form. Any modifications to the Report based on the staff's questions will be submitted as part of the final version of the Report.

Members of the public were not in attendance and, therefore, no public comments or Public Meeting Feedback Forms were received at this meeting.

No regulatory decisions were made as a part of this meeting.

Please direct any inquiries to me at 301-415-2048, or by email to Justin.poole@nrc.gov.

A handwritten signature in black ink, consisting of a large, stylized 'J' followed by a series of loops and a final horizontal stroke.

Justin C. Poole, Senior Project Manager
Watts Bar Special Projects Branch
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-391

Enclosures:

1. Meeting Attendance List
2. Staff Questions Related to the As-Constructed
Fire Protection Report

cc w/enclosures: Distribution via Listserv

MEETING ATTENDANCE LIST

Applicant: Tennessee Valley Authority

Plant: Watts Bar Nuclear Plant, Unit 2

Subject: Fire Protection (WBN, Unit 2)

Date: November 12, 2014

Location: Teleconference

Time: 9:00 a.m. – 10:00 a.m.

NAME	TITLE	ORGANIZATION
Justin Poole	Sr. Project Manager Watts Bar Unit 2	NRC/NRR/DORL/Watts Bar Special Projects Branch
Dan Frumkin	Fire Protection Engineer	NRC/NRR/DRA/Fire Protection Branch
Anthony Minarik	Project Manager	NRC/NRR/DORL/Watts Bar Special Projects Branch
Charles Moulton	Fire Protection Engineer	NRC/NRR/DRA/Fire Protection Branch
Gordon Arent	Director of Licensing, Watts Bar	Tennessee Valley Authority (TVA)
Bill Crouch	Fire Protection Engineer	TVA
Charlie Brush	Fire Protection Engineer	EPM (TVA Contractor)
Tom Morgan	Engineering/Licensing Support	TVA
Mark Marinak	Engineering/Licensing Support	TVA

STAFF QUESTIONS RELATED TO THE AS-CONSTRUCTED FIRE PROTECTION REPORT
TO BE DISCUSSED AT NOVEMBER 12, 2014, PUBLIC MEETING

As-Constructed Fire Protection Report (FPR) Part V, Section 2.2.2, states that, "Upon detection of a fire either automatically or via observation, the main control room recalls Assistant Unit Operators (AUOs) to the assembly location from their normal duties in various plant locations." FPR Part V, Section 2.2, Safe Shutdown Procedures, includes "notify the Appendix R AUOs to report to the control room," as the fifth step, of which the first step is "initiate fire alarm."

- 1) Clarify if "initiate fire alarm," is the actuation of detection equipment (similar to 2.2.2) or if initiation of fire alarm includes judgment or actions on the part of the control room staff.
- 2) If recall of AUOs is not immediate upon detection, describe the actions taken prior to, "initiate fire alarm."
- 3) If recall of AUOs is not immediate upon detection, describe any delays between the "early warning provided by the smoke detection system" and the reactor trip that would delay the AUOs from being recalled.
- 4) If there is a delay as described in the item above, provide a description of how that delay is considered in the timing for operator manual actions, specifically how that delay is accounted for in the 100% margin described in 2.1.2, Acceptance Criteria, and the evaluation of Required for Safe Shutdown Operator Manual Actions, Section 8.3 of Part VII.
- 5) If the AUOs will be recalled upon actuation of a fire detection system (similar to 2.2.2), describe whether any procedures need to be revised to reflect this.

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No regulatory decisions were made as a part of this meeting.

Please direct any inquiries to me at 301-415-2048, or by email to Justin.poole@nrc.gov.

/RA/

Justin C. Poole, Senior Project Manager
Watts Bar Special Projects Branch
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ADAMS Accession No.: Meeting Notice: ML14297A373

Meeting Summary: ML14318A342

OFFICE	DORL/LPWB/PMiT	DORL/LPWB/PM	DORL/LPWB/LAiT	DORL/LPWB/LA	DORL/LPWB/BC	DORL/LPWB/PM
NAME	AMinarik	JPoole	LRonewicz	BClayton	JQuichocho	JPoole
DATE	12/02/14	12/02/14	11/28/14	11/28/14	12/03/14	12/03/14

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