



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

June 16, 2014

LICENSEE: Tennessee Valley Authority

FACILITY: Watts Bar Nuclear Power Plant, Unit 1

SUBJECT: SUMMARY OF APRIL 24, 2014, MEETING WITH TENNESSEE VALLEY AUTHORITY REGARDING WATTS BAR NUCLEAR PLANT, UNIT 1, REQUEST FOR ADDITIONAL INFORMATION RELATED TO LICENSE AMENDMENT REQUEST TO MODIFY AC POWER SOURCE TECHNICAL SPECIFICATIONS (TAC NO. MF2549).

On April 24, 2014, a Category 1 public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) and representatives of the Tennessee Valley Authority (TVA) at NRC Headquarters, One White Flint North, 11555 Rockville Pike, Rockville, Maryland. The purpose of this meeting was for TVA to discuss with NRC recent responses to a request for additional information (RAI) related to a license amendment request (LAR). The response from TVA was submitted on April 21, 2014, which is available in the Agencywide Documents Access and Management System (ADAMS) at Accession No. ML14112A341. Attendees for this meeting are listed in the Enclosure.

By letter dated August 1, 2013 (ADAMS No. ML13220A103), TVA submitted the subject LAR for Watts Bar Nuclear Plant (WBN), Unit 1. The purpose of the LAR was to modify limiting condition for operation for Technical Specification 3.8.1, AC [alternating current] Sources - Operating, to provide additional time to restore an inoperable offsite circuit, modify Surveillance Requirement 3.8.1.8, and modify the current licensing basis, as described in the Updated Final Safety Analysis Report, for the available maintenance feeder for the Common Station Service Transformers (CSSTs A and B). On February 26, 2014, the NRC staff transmitted an RAI by electronic mail to TVA (ADAMS Accession No. ML14056A525).

During the meeting on April 24, the senior electrical reviewer expressed concerns with TVA's proposal to have an electrical circuit for the alternate AC source available but not connected to the safety busses for up to 14 days. This timeframe is discussed in RAI No. 1, but it is not satisfactorily resolved in TVA's submitted response. The staff is concerned that the proposed amendment would deviate from the current license basis because sources would not be immediately connected to safe shutdown busses. Allowing the delayed AC sources to be unconnected for a period of 14 days, as stated in the LAR, would not meet General Design Criterion (GDC) 17. TVA agreed to discuss the issue and come up with an appropriate timeframe.

The NRC staff and TVA discussed RAI No. 4, which states:

The staff is currently reviewing the degraded voltage relay (DVR) setpoint for the shutdown boards when supplied through the normal source using CSST C and D. Please verify that the DVR setpoint adequacy will be validated for shutdown boards

when supplied through CSST A and B using the same methodology as approved for the normal source.

TVA's submitted response to RAI 4 states:

The WBN 2 DVR setpoints for the shutdown boards is under review by NRC. TVA has requested a meeting with NRC to discuss the DVR setpoints and conformance to NRC requirements and guidance. This meeting is currently scheduled for April 24, 2014. The DVR relays are physically located on the shutdown boards, thus the DVR settings when approved by the NRC, will be valid whether CSSTs C and D or combinations of CSSTs C or D with CSSTs A or B supplying power to the boards. The same methodology for validating the DVR setpoints is used for the various combinations of CSSTs supplying the boards described in the LAR.

The NRC staff said that TVA's response should be updated so that it is consistent with future submittals clarifying the DVR setpoint methodology.

On Monday May 19, a clarifying call was held between the NRC staff and TVA to discuss, specifically, what information is needed to show that GDC 17 is met. The NRC staff said additional information should be submitted soon to facilitate the timeliness of the technical review.

RAI Questions 1 and 6 are related to the time delay associated with using CSST A and B as a GDC 17 source. GDC 17 requires two sources of offsite power; one immediate source and one source that can be delayed. The GDC does not define the requirement for allowable delay time in the second source. However, the GDC states that, "The safety function for each system (assuming the other system is not functioning) shall be to provide sufficient capacity and capability to assure that (1) specified acceptable fuel design limits and design conditions of the reactor coolant pressure boundary are not exceeded as a result of anticipated operational occurrences and (2) the core is cooled and containment integrity and other vital functions are maintained in the event of postulated accidents."

The LAR proposes CSST A (or CCST B) to be "available" but not connected to the shutdown busses. The staff has noted that CSST A and B have adequate capacity to support safe shutdown of the WBN units. The staff requested information on how this proposed delayed path with CSST A (or B) in 'available mode' is able to support GDC 17 requirements (1) and (2) noted above. The RAI responses in the letter dated April 21, 2014, did not provide a clear answer related to the proposed delay in the second GDC 17 source.

The April 24 meeting concluded with the staff restating that the review of the submitted RAI responses will be delayed until TVA submits additional information as clarified above.

Please direct any inquiries to me at 301-415-2048 or via e-mail at Justin.Poole@nrc.gov

A handwritten signature in black ink, consisting of a large, stylized 'J' and 'P' followed by a horizontal line.

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

Docket No. 50-390

Enclosure:
List of Attendees

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MEETING ATTENDANCE LIST

Licensee: Tennessee Valley Authority

Plant: Watts Bar Nuclear Plant, Unit 1

Subject: Request for Additional Information Related to AC Power Source License Amendment Request

Date: April 24, 2014

Location: U.S. Nuclear Regulatory Commission
Headquarters, Room O-7B4

Time: 11:00 a.m. – 12:00 p.m.

NAME	TITLE	ORGANIZATION
Justin Poole	Senior Project Manager, Watts Bar Unit 2	NRC/NRR/DORL/WBN
Siva Lingam	Project Manager, Watts Bar Unit 1	NRC/NRR/DORL/WBN
Jeanne Dion	Project Manager	NRC/NRR/DORL/WBN
Gurcharan (Singh) Matharu	Senior Electrical Engineer	NRC/NRR/DE/EEEB
Gordon Arent	Director, WBN Licensing	TVA
Jose R. Dubon	Licensing Engineer	TVA
Steven Hilmes	Watts Bar Unit 2, Electrical and I&C Manager	TVA

Please direct any inquiries to me at 301-415-2048 or via e-mail at Justin.Poole@nrc.gov

/RA/

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

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Enclosure:
List of Attendees

cc w/encl: Distribution via Listserv

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ADAMS Accession No.: PKG ML14133A223 Meeting Notice ML14100A562
Meeting Summary ML14132A243 Handouts ML14112A341

OFFICE	DORL/LPWB/PMiT	DORL/LPWB/PM	DORL/LPWB/LA
NAME	JDion	JPoole	BClayton
DATE	6/4/14	6/5/14	6/5/14
OFFICE	DE/EEEEB/BC	DORL/LPWB/BC	DORL/LPWB/PM
NAME	JZimmerman	JQuichocho	JPoole
DATE	6/10/14	6/16/14	6/16/14

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