



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

January 18, 2024

LICENSEE: Tennessee Valley Authority

FACILITY: Browns Ferry Nuclear Plant, Units 1, 2, and 3
Sequoyah Nuclear Plant, Units 1 and 2
Watts Bar Nuclear Plant, Units 1 and 2
Clinch River Nuclear Site

SUBJECT: SUMMARY OF DECEMBER 13, 2023, MEETING WITH TENNESSEE VALLEY AUTHORITY REGARDING A PROPOSED CHANGE TO THE TENNESSEE VALLEY AUTHORITY NUCLEAR QUALITY ASSURANCE PLAN (EPID L-2023-LRM-0103)

On December 13, 2023, the U.S. Nuclear Regulatory Commission (NRC) staff conducted an observation meeting with representatives of the Tennessee Valley Authority (TVA). The purpose of the meeting was to discuss TVA's proposed conversion of its Nuclear Quality Assurance Plan (NQAP) from American National Standards Institute (ANSI) N45.2-1971, "Quality Assurance Program Requirements for Nuclear Facilities," to American Society of Mechanical Engineers (ASME) NQA-1-2015, "Quality Assurance Requirements for Nuclear Facility Applications."

The meeting notice and agenda, dated November 28, 2023, are available at Agencywide Documents Access and Management System (ADAMS) Accession No. ML23332A142. TVA's presentation slides for the meeting are available at ADAMS Accession No. ML23345A166. A list of participants is enclosed.

TVA stated that it plans to request NRC approval of a revision to its operating fleet NQAP by transitioning the plan to ASME NQA-1-2015, which is endorsed by Regulatory Guide (RG) 1.28, Revision 5, "Quality Assurance Program Criteria (Design and Construction)." The plan would also follow guidance in American National Standards Institute/American Nuclear Society (ANSI/ANS) 3.2-2012, "Managerial, Administrative, and Quality Assurance Controls for the Operational Phase of Nuclear Power Plants," which is endorsed by RG 1.33, Revision 3, "Quality Assurance Program Requirements (Operation)."

TVA stated that the purpose of transitioning the NQAP is to support the future state of the operating fleet and new nuclear builds (e.g., at the Clinch River site). TVA previously submitted NNP-TR-001-NP, Revision 0, "Quality Assurance Program Description (QAPD) For TVA New Nuclear Program" (hereinafter referred to as TVA New Nuclear QAPD) to the NRC for approval. The NRC staff has found that the TVA New Nuclear QAPD is acceptable for referencing in the Clinch River Nuclear Site construction permit license application, with the limitations and conditions (ML23254A050).

TVA stated that it plans to adopt the most recent quality-related NRC RGs with the exception of RG 1.28, Revision 6. TVA will also submit a New Nuclear Quality Assurance Plan after issuance of the safety evaluation noted above.

TVA enumerated the key updates and alternative commitments planned for the revised NQAP, notably maintaining commitments to historical design and construction standards in effect when plants were built; maintaining a commitment to alternative administrative processes versus ANSI/ANS 3.2-2012 requirement for 2-year procedure review; and maintaining a 36-month periodicity for internal audits of Appendix B, "Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants," to Part 50 of Title 10 of the *Code of Federal Regulations* (10 CFR Part 50, Appendix B) activities. Additionally, where ANSI/ANS 3.2-2012 references NQA-1-2008 and NQA-1-2009 addenda for requirements, TVA Nuclear will follow NQA-1-2015.

The request will be accompanied by a request to revise the TVA plants' technical specifications (TS) to delete the specific revision of RG 1.33 that is cited in TS 5.4.1.a, and instead refer to the revision of RG 1.33 that is specified in the TVA NQAP. This will allow flexibility for TVA to adopt future revisions of RG 1.33 without having to submit a license amendment request.

TVA plans to submit the request by January 31, 2024, and will request approval within 1 year.

No regulatory decisions were made at this meeting.

Please direct any inquiries to me at 301-415-1627 or by e-mail to Kimberly.Green@nrc.gov.

/RA/

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Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-259, 50-260, 50-296,
50-327, 50-328,
50-390, 50-391, and
99902056

Enclosure:
List of Participants

cc: Listserv

LIST OF PARTICIPANTS

DECEMBER 13, 2023, PUBLIC MEETING WITH TENNESSEE VALLEY AUTHORITY
REGARDING PROPOSED CHANGE TO TVA NUCLEAR QUALITY ASSURANCE PLAN

<u>Name</u>	<u>Affiliation</u>
Kim Green	U.S. Nuclear Regulatory Commission (NRC)
Deanna Zhang	NRC
Clint Ashley	NRC
Allen Fetter	NRC
Shawna Hughes	Tennessee Valley Authority (TVA)
Russ Wells	TVA
Ronald Detwiler	TVA
Robert Krigelman	TVA
Jamie Paul	TVA
Stuart Rymer	TVA
Andy Taylor	TVA
Chris Rice	TVA
John Talbot	TVA
Gordon Williams	TVA
Adrienne Hudson	TVA
Jerry Bingaman	State of Tennessee, Tennessee Department of Environment & Conservation, Division of Radiological Health

SUBJECT: SUMMARY OF DECEMBER 13, 2023, MEETING WITH TENNESSEE VALLEY AUTHORITY REGARDING A PROPOSED CHANGE TO THE TVA NUCLEAR QUALITY ASSURANCE PLAN (EPID L 2023 LRM 0103) DATED JANUARY 18, 2024

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