

Meeting with Tennessee Valley Authority

NRC Staff Questions regarding
Scope of Nuclear Quality Assurance Program

July 10, 2024

10:00 am – 11:00 am

Agenda

- Introductions
- Background
- NRC Questions
- Discussion
- Public Comments
- Adjourn

Background

- Request for approval submitted April 1, 2024 (ML24093A47)
 - Convert Quality Assurance Program Description for TVA Nuclear (TVA NQA-PLN89-A, Revision 43)
 - Changes to Technical Specification 5.4 (Browns Ferry and Sequoyah) and 5.7.1 (Watts Bar)
- License Amendment Request portion accepted for review April 30, 2024

TVA Nuclear QAPD

- TVA NQA-PLN89-A, Revision 43
- Current format follows ANSI N45.2-1971, “Quality Assurance Program Requirements for Nuclear Power Plants,” and ANSI N18.7-1976, “Administrative Controls and Quality Assurance for the Operational Phase of Nuclear Power Plants”
- Convert to ASME NQA-1-2015, “Quality Assurance Requirements for Nuclear Facility Applications”

TVA Nuclear QAPD (continued)

- Provides description for operation of nuclear plant(s) at multiple sites, and the Clinch River Nuclear (CRN) Small Modular Reactor (SMR) Project while under an approved early site permit (ESP)
- Applies to the TVA New Nuclear Program which addresses infrastructure and programmatic matters with siting, licensing, and planning for new nuclear projects

TVA Nuclear QAPD (continued)

- Site-selection, design, construction, and operation of new TVA nuclear plants (including the CRN SMR Project after issuance of the Construction Permit) are addressed under the TVA New Nuclear QA Program Description

TVA New Nuclear QAPD

- NNP-TR-001-NP, Revision 2, “Quality Assurance Program Description for Tennessee Valley Authority (TVA) New Nuclear” (ML24037A144)
- Approved by NRC on December 12, 2023 (ML23254A050)
- Format based on ASME NQA-1-2015

TVA New Nuclear QAPD (continued)

- Provides a description of the TVA New Nuclear QAP for the site-selection, design, construction, and operation of nuclear plant(s) at multiple sites and projects.
- TVA New Nuclear organization is divided into two groups: New Nuclear Program group and New Nuclear Projects group.
- New Nuclear Program group addresses site characterization, advanced design engineering, fabrication licensing, supply chain, and planning for multiple new nuclear projects across multiple sites.
- New Nuclear Projects group supports engineering, procurement, construction, startup, and operational development of specific projects at designated sites.

TVA New Nuclear QAPD (continued)

- The ESP for CRN SMR Project was produced under TVA-NQA-PLN89-A, Revision 39, and is excluded from compliance with NNP-TR-001-NP, Revision 2.
- ESPs for future SMR projects will comply with NNP-TR-001-NP.

NRC Questions

1. Does the TVA New Nuclear QAPD or QAPD for TVA Nuclear govern the activities performed by TVA New Nuclear Programs?
2. What is meant by statement in both QAPDs “...and operation of nuclear plant(s) at multiple sites”?
3. Which aspects of the CRN SMR are covered by TVA NQA-PLN89-A, and which aspects are covered by NNP-TR-001-NP?