

February 25, 2017

TO: Joseph E. Donoghue, Chief
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Division of New Reactor Licensing
Office of New Reactors

FROM: Allen Fetter, Senior Project Manager **/RA/**
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SUBJECT: SUMMARY OF MEETING BETWEEN THE U.S. NUCLEAR REGULATORY
COMMISSION AND TENNESSEE VALLEY AUTHORITY TO DISCUSS TOPICS
ASSOCIATED WITH SECTIONS 2.1, 2.2, AND 2.3 IN PART 2, SITE SAFETY
ANALYSIS REPORT OF TENNESSEE VALLEY AUTHORITY'S EARLY SITE
PERMIT APPLICATION FOR THE CLINCH RIVER NUCLEAR SITE

Meeting Identifier: 20170123, Agencywide Document Access Management System
(ADAMS) Accession No. ML17031A338

Date of Meeting: Monday, February 13, 2017

Location: Two White Flint North (TWFN), Via Teleconference

Type of Meeting: Category 1

Purpose of the Meeting

To discuss topics associated with the following Sections in Part 2 Site Safety Analysis Report (SSAR) of Tennessee Valley Authority's (TVA) early site permit application for the Clinch River Nuclear Site: 2.1 - Geography and Demography, 2.2 - Nearby Industrial, Transportation and Military Facilities, and 2.3 - Meteorology. The specific discussion topics were outlined in an attachment to the meeting notice under "Related Documents" (Agencywide Documents Access and Management System (ADAMS) Accession No. ML17040A271) and were as follows:

1. Discussion of, and approach to reconciling, the inconsistencies between the respective descriptions and depictions of the Exclusion Area Boundary (EAB) in the SSAR; Chapter 2 Subsection 2.1.1.2 and Figure 2.1-5 verses Subsection 2.3.4 and Figure 2.3.4-1.

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2. Discussion of approach and rationale described in the SSAR, Chapter 2, Subsection 2.2.3.1.3.2 for screening out potential overexposures (at the Clinch River Nuclear Site power block) to the hazardous chemicals anhydrous ammonia and chlorine during their road transport for control room habitability. A technical and historical perspective on getting finality on control room habitability at the ESP stage versus the combined license (COL) stage will be clarified.

Another topic related to the application review was identified for discussion (ADAMS Accession No. ML17041A344). An NRC technical reviewer was to give accurate feedback to TVA on which native files to submit to the docket based on the MELCOR Accident Consequence Code System (MACCS) Input/Output (I/O) files in the electronic reading room.

Summary of Meeting

The meeting started with brief introductions and identification of the callers, and an NRC overview of the meeting purpose and how the meeting discussion would be documented.

On discussion topic 1, TVA noted that the property boundary EAB in Figure 2.1-5 is the actual EAB, whereas the ellipsoid EAB depicted in Figure 2.3.4-1 represents an analytical boundary. TVA plans to review the text and figures and provide markups of the text that make the distinctions clearer. NRC brought up another potential inconsistency regarding population distributions identified in Section 2.5 in the Environmental Report (ER) (Part 3 of the application) and sectors defined in the SSAR (northeast direction, outside EAB, but within sector), in ER Sections 2.5.1.1 (Table 2.5.1-2), and SSAR Section 2.1.2.2 (Table 2.1-2).

For discussion topic 2, the NRC stated that it was not possible to get finality at the ESP stage on control room habitability based on the probability calculations used to screen out overexposures to chlorine and anhydrous ammonia at the proposed power block location. The NRC noted that this type of issue has been resolved historically (e.g., PSEG ESP) by writing up a permit condition for the COL stage. TVA agreed that it would follow a similar path to that taken by PSEG for its ESP.

The NRC also gave specific feedback to TVA on which native files MACCS I/O to submit to the docket that are currently in the electronic reading room. The staff did not need TVA to send data library or other files which are part of the MACCS code transmittal package, the staff already possess these files. The specific files the staff needs are those necessary to run the code in the same manner as did TVA. Namely, TVA to provide in native format the source term and plume segment files, the site and meteorology files, each MACCS module file used with the respective source term files, and the associated output files for run verification by the staff.

After these discussions, the public was given the opportunity comment and ask questions. No questions asked.

Action Items/Next Steps

TVA stated that it plans to provide supplemental information to clarify sections in the application related to the EAB, population sectors and proposed permit conditions, and will submit the MACCS I/O files discussed on the docket.

**Summary of Meeting between the U.S. Nuclear Regulatory Commission and
Tennessee Valley Authority to Discuss Topics Associated with Sections 2.1, 2.2,
and 2.3 in Part 2, Site Safety Analysis Report of Tennessee Valley Authority's
Early Site Permit Application for the Clinch River Nuclear Site**

List of Participants

Name	Affiliation
Seshagari (Rao) Tammara	NRC
Allen Fetter	NRC
Mallecia Sutton	NRC
Joseph Donoghue	NRC
Patricia Vokoun	NRC
Donald Palmrose	NRC
Alex Young	TVA
Dan Stout	TVA
John Holcomb	TVA
Kelvin Mantague	TVA
Stuart Doss	TVA
Ray Schiele	TVA
Kevin Casey	TVA
Roger Scott	TVA
Jeff Perry	TVA
John Thomas	TVA
Ralph Hutchison*	Oak Ridge Environmental Peace Alliance

*Public Participant(s)

Enclosure

SUBJECT: SUMMARY OF MEETING BETWEEN THE U.S. NUCLEAR REGULATORY COMMISSION AND TENNESSEE VALLEY AUTHORITY TO DISCUSS TOPICS ASSOCIATED WITH SECTIONS 2.1, 2.2, AND 2.3 IN PART 2, SITE SAFETY ANALYSIS REPORT OF TENNESSEE VALLEY AUTHORITY'S EARLY SITE PERMIT APPLICATION FOR THE CLINCH RIVER NUCLEAR SITE

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