



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

January 29, 2024

Mr. Ken J. Peters
Senior Vice President and
Chief Nuclear Officer
Attention: Regulatory Affairs
Vistra Operations Company LLC
Comanche Peak Nuclear Power Plant
6322 N FM 56
P.O. Box 1002
Glen Rose, TX 76043

SUBJECT: COMANCHE PEAK NUCLEAR POWER PLANT, UNIT NOS. 1 AND 2 –
SUMMARY OF REGULATORY AUDIT REGARDING A LICENSE AMENDMENT
REQUEST TO ADOPT 10 CFR 50.69, RISK-INFORMED CATEGORIZATION
AND TREATMENT OF STRUCTURES, SYSTEMS AND COMPONENTS FOR
NUCLEAR POWER REACTORS (EPID L-2023-LLA-0057)

Dear Mr. Peters:

By letter dated April 19, 2023 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML23109A333), as supplemented by letters dated June 8, 2023 (ML23159A200) and December 13, 2023 (ML23347A206), Vistra Operations Company LLC (the licensee) submitted a license amendment request (LAR) for Comanche Peak Nuclear Power Plant, Unit Nos. 1 and 2. The proposed amendments would allow, by the addition of license conditions, the implementation of the provisions of Title 10 of the *Code of Federal Regulations* (10 CFR) Section 50.69, "Risk-informed categorization and treatment of structures, systems and components for nuclear power reactors."

To support its review, the U.S. Nuclear Regulatory Commission (NRC) staff conducted a regulatory audit via the use of an online reference portal set up by the licensee, and a webinar. The NRC staff reviewed documents and held discussions with the licensee's staff concerning the LAR. The regulatory audit summary is enclosed with this letter.

K. Peters

- 2 -

If you have any questions, please contact me at 301-415-6256 or via email at Dennis.Galvin@nrc.gov.

Sincerely,

/RA/

Dennis J. Galvin, Project Manager
Plant Licensing Branch IV
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-445 and 50-446

Enclosure:
Audit Summary

cc: Listserv

OFFICE OF NUCLEAR REACTOR REGULATION

REGULATORY AUDIT SUMMARY

IN SUPPORT OF LICENSE AMENDMENT REQUEST

TO ADOPT 10 CFR 50.69, "RISK-INFORMED CATEGORIZATION AND TREATMENT OF
STRUCTURES, SYSTEMS AND COMPONENTS FOR NUCLEAR POWER REACTORS"

VISTRA OPERATIONS COMPANY LLC

COMANCHE PEAK NUCLEAR POWER PLANT, UNIT NOS. 1 AND 2

DOCKET NOS. 50-445 AND 50-446

1.0 BACKGROUND

By letter dated April 19, 2023 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML23109A333), as supplemented by letter dated June 8, 2023 (ML23159A200) and December 13, 2023 (ML23347A206), Vistra Operations Company LLC (the licensee) submitted a license amendment request (LAR) for Comanche Peak Nuclear Power Plant, Unit Nos. 1 and 2. The proposed amendments would allow, by the addition of license conditions, the implementation of the provisions of Title 10 of the *Code of Federal Regulations* (10 CFR) Section 50.69, "Risk-informed categorization and treatment of structures, systems and components for nuclear power reactors."

The NRC staff reviewed the licensee's submittal and determined that a regulatory audit would support its review of the proposed license amendments. The audit was conducted in accordance with the audit plan dated August 11, 2023 (ML23226A007), and audit questions emailed October 10, 2023 (ML23283A242). The purpose of the audit was to review the documentation related to the subject of its application (e.g., calculations and reports) that were not submitted on the Comanche Peak docket, to acquire additional understanding about the amendment request, and to determine whether additional information is needed to be docketed to complete the NRC staff's safety evaluation.

2.0 AUDIT ACTIVITIES

The audit was conducted via the use of an online reference portal set up by the licensee and webinars. Through the online reference portal, the NRC staff and NRC contract support from the Pacific Northwest National Laboratory (PNNL) reviewed the licensee's documents made available from August 11, 2023, through December 31, 2023. The NRC staff also reviewed the licensee's responses to the audit questions dated October 10, 2023. The licensee submitted responses to the audit questions in the December 13, 2023, supplement to the LAR.

The NRC staff, contractors, and the licensee conducted a webinar on November 14, 2023. Attachment 1 of this audit summary lists the individuals that took part in or attended the audit. The webinar discussions were focused on the following major technical areas: probabilistic risk assessment and external hazards. At the end of the webinar on November 14, 2023, the NRC presented a brief conclusion of the audit discussions, including audit objectives that were met

and details on the path forward. There were no open items from the audit discussions and no deviations from the audit plan. Non-docketed information provided by the licensee and reviewed by the NRC staff is listed in attachment 2 of this audit summary. The licensee committed to issuing a supplement to the applications to provide documentation of certain audit discussion points on the docket, which was completed with the December 13, 2023, supplement.

3.0 RESULTS OF THE AUDIT

The audit identified information to be provided on the docket, which the licensee agreed to provide through a supplement to the LAR. The licensee provided the supplement on December 13, 2023. As agreed, at the audit, the supplement provided responses to each of the audit questions and supplemented certain LAR sections as discussed in the audit. Thus, those details are not included in this audit summary.

Attachments:

1. List of Audit Participants
2. List of Documents Reviewed During Audit

LIST OF AUDIT PARTICIPANTS

U.S. Nuclear Regulatory Commission Audit Team

Mihaela Biro
Dennis Galvin
Ching Ng
Robert Pascarelli
Jay Robinson
Daniel Silverstein
Keith Tetter
Wesley Wu

Pacific Northwest National Laboratory

Garill Coles
Steve Short
Mark Wilk

Vistra Operations Company LLC

Nic Boemisch
Jack Hicks

Westinghouse Electric Company, LLC

James Boatwright
Richard Roland
Dan Tirsun

LIST OF DOCUMENTS REVIEWED DURING AUDIT

The licensee provided an extensive list of supporting documents (e.g., analyses, calculations, reports, drawings, and procedures) on the Comanche Peak Nuclear Power Plant (Comanche Peak or CPNPP) document portal available during the audit period. Below lists the documents available on the portal that the U.S. Nuclear Regulatory Commission audit team reviewed during the audit.

- Plant Report R&R-PN-202, Revision 5A, Comanche Peak Nuclear Power Plant, RG 1.200 Compliance, May 2020
- Plant Report R&R-PN-205, Revision 5, Comanche Peak Nuclear Power Plant, Screening and Conservative Analysis for Other External Hazards, October 2020.
- Plant Report R&R-PN-041, Revision 5, Comanche Peak Nuclear Power Plant, Screening and Conservative Analysis for Other External Hazards, May 2019.
- Westinghouse Electric Company Report CN-RAM-13-038, Qualitative Screening, Quantitative Screening, Quantification, and Uncertainty Analysis for CPNPP Fire PRA [Probabilistic Risk Assessment].
- Plant Report EV-TR-2019-006419-6, Revision 0, CPNPP Plant Response to an Open Phase Condition, October 2019.

SUBJECT: COMANCHE PEAK NUCLEAR POWER PLANT, UNIT NOS. 1 AND 2 – SUMMARY OF REGULATORY AUDIT REGARDING A LICENSE AMENDMENT REQUEST TO ADOPT 10 CFR 50.69, RISK-INFORMED CATEGORIZATION AND TREATMENT OF STRUCTURES, SYSTEMS AND COMPONENTS FOR NUCLEAR POWER REACTORS (EPID L-2023-LLA-0057) DATED JANUARY 24, 2024

DISTRIBUTION:

PUBLIC
PM File Copy
RidsACRS_MailCTR Resource
RidsNrrDorLpl4 Resource
RidsNrrDraApla Resource
RidsNrrDraAplc Resource
RidsNrrPMComanchePeak Resource

RidsNrrLAPBlechman Resource
RidsRgn4MailCenter Resource
MBiro, NRR
CNg, NRR
DSilverstein, NRR
KTetter, NRR

ADAMS Accession No.: ML24024A210 ***concurrence by email** **NRR-106**

OFFICE	NRR/DORL/LPL4/PM	NRR/DORL/LPL4/LA*	NRR/DRA/APLA/BC*
NAME	DGalvin	PBlechman	RPascarelli
DATE	1/25/2024	1/25/2024	1/24/2024
OFFICE	NRR/DRA/APLC/BC*	NRR/DORL/LPL4/BC*	NRR/DORL/LPL4/PM*
NAME	SVasavada	JRankin	DGalvin
DATE	1/24/2024	1/26/2024	1/29/2024

OFFICIAL RECORD COPY