

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

June 16, 2022

Mr. David P. Rhoades Senior Vice President Exelon Generation Company, LLC President and Chief Nuclear Officer (CNO) Exelon Nuclear 4300 Winfield Road Warrenville, IL 6055

SUBJECT: QUAD CITIES NUCLEAR POWER STATION, UNITS 1 AND 2 – AUDIT PLAN TO SUPPORT THE REVIEW OF EXELON CALCULATION FOR DISPERSION FACTORS INCLUDED IN THE LICENSE AMENDMENT REQUEST REGARDING TRANSITION TO GNF3 FUEL (EPID L-2021-LLA-0159)

Dear Mr. Roades:

By application dated September 14, 2021 (Agencywide Document Access and Management System (ADAMS) Accession No. ML21257A419), as supplemented by letters dated November 3, 2021 (ML21307A444), and April 11, 2022 (ML22101A145), Exelon Generation Company, LLC submitted a license amendment request with a proposed change that supports the transition from Framatome ATRIUM 10XM fuel to Global Nuclear Fuel (GNF) GNF3 fuel at Quad Cities Nuclear Power Station, Units 1 and 2 (Quad Cities). The proposed change includes reference to Exelon Calculation No. QDC-0000-M-1408, Revision 2, "Atmospheric Dispersion Factors (X/Qs) for Accident Release." On February 1, 2022 (ML22032A333), Exelon Generation Company, LLC was renamed Constellation Energy Generation, LLC (Constellation). The U.S. Nuclear Regulatory Commission (NRC) staff will conduct a regulatory audit to support its review in accordance with the enclosed audit plan. A regulatory audit is a planned activity that includes the examination and evaluation of primarily non-docketed information.

The audit will be conducted to increase the NRC staff's understanding of the NEDC-33930P topical, and to identify information that will require docketing to support the NRC staff's regulatory findings. The audit will be conducted from June 17, 2022, through July 8, 2022, primarily in a virtual discussion format, with use of an online portal (also known as electronic portal, ePortal, electronic reading room) established by Constellation, if needed. The enclosed audit plan was discussed with your staff on June 14, 2022.

If you have any questions, please contact me at 301-415-3733 or at <u>Robert.Kuntz@nrc.gov</u>.

Sincerely,

/**RA**/

Robert Kuntz, Senior Project Manager Plant Licensing Branch III Division of Operating Reactor Licensing Office of Nuclear Reactor Regulation

Docket Nos. 50-254, 50-265

Enclosure: Audit Plan

cc: Listserv



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

REGULATORY AUDIT PLAN

TO SUPPORT REVIEW OF EXELON CALCULATION NO. QDC-0000-M-1408 IN THE

LICENSE AMENDMENT REQUEST REGARDING TRANSITION TO GNF3 FUEL

QUAD CITIES NUCLEAR POWER STATION, UNITS 1 AND 2

DOCKET NO. 50-254 AND 50-265

1.0 BACKGROUND

By application dated September 14, 2021 (Agencywide Document Access and Management System (ADAMS) Accession No. ML21257A419), as supplemented by letters dated November 3, 2021 (ML21307A444), and April 11, 2022 (ML22101A145), Exelon Generation Company, LLC submitted a license amendment request with a proposed change that supports the transition from Framatome ATRIUM 10XM fuel to Global Nuclear Fuel (GNF) GNF3 fuel at Quad Cities Nuclear Power Station, Units 1 and 2 (Quad Cities). The proposed change includes reference to Exelon Calculation No. QDC-0000-M-1408, Revision 2, "Atmospheric Dispersion Factors (X/Qs) for Accident Release." On February 1, 2022 (ML22032A333), Exelon Generation Company, LLC was renamed Constellation Energy Generation, LLC (Constellation). Due to the complex nature of this material, the U.S. Nuclear Regulatory Commission (NRC) staff has decided to conduct an audit for understanding under the Office of Nuclear Reactor Regulation guidance LIC-500, "Topical Report Process," and LIC-111, "Regulatory Audits."

2.0 REGULATORY AUDIT BASIS

This is a request for an audit for understanding. Audits for understanding are a tool that the NRC staff has used early in the review process to more effectively and efficiently understand the material which has been submitted for review. While they are an optional tool, they have been found to greatly reduce the number of requests for additional information (RAIs) and total number of hours necessary in performing the review and are generally seen by both the NRC staff and the licensee as a large efficiency gain.

3.0 REGULATORY AUDIT SCOPE

The NRC will conduct a virtual audit for understanding focused on Exelon Calculation No. QDC 0000-M-1408, Revision 2.

4.0 <u>INFORMATION AND OTHER MATERIAL NECESSARY FOR THE REGULATORY</u> <u>AUDIT</u>

The NRC staff requests that Constellation make available the appropriate engineer(s) with expertise Exelon Calculation No. QDC-0000-M-1408, Revision 2, and who can address questions by the NRC staff. The engineer(s) will also make available to the NRC staff any references deemed appropriate.

5.0 TEAM AND REVIEW ASSIGNMENTS

The regulatory audit will be held virtually. The audit team will consist of the following NRC staff:

- Robert Kuntz, Project Manager
- Kevin Quinlan, Technical Reviewer

6.0 LOGISTICS

The audit will be conducted from June 17, 2022, through July 8, 2022.

Constellation should provide the necessary documents and relevant licensee staff who can discuss the issue.

The audit will primarily be a discussion using a virtual platform (e.g., Microsoft Teams) for the purposes of gaining a clear understanding of the submitted report. This includes answering comprehension questions by the licensee.

If any additional information is submitted to the electronic reading room, the audit team will confirm with the licensee that the information made available on the online portal contains any sensitive or proprietary information. The audit team may request that representatives of EGC answer audit team questions during the audit related to information provided on the portal at a mutually agreeable day and time by telephone or Microsoft Teams conference.

The NRC project manager will coordinate any changes to the audit schedule with the licensee.

7.0 SPECIAL REQUESTS

The audit team would like access to documents if needed through an online portal (also known as eDocs, electronic reading room, ePortal) that allows the audit team to access documents via the internet. The following conditions associated with the online portal must be maintained throughout the duration that the audit team has access to the online portal:

- The online portal will be password-protected, and separate passwords will be assigned to the NRC staff who are participating in the audit.
- The online portal will be sufficiently secure to prevent the NRC staff from printing, saving, downloading, or collecting any information on the online portal.
- Conditions of use of the online portal will be displayed on the login screen and will require acknowledgement by each user.

User name and password information should be provided directly to the NRC staff. The NRC project manager will provide Constellation any additional names and contact information of the

NRC staff if needed. All other communications should be coordinated through the NRC project manager.

8.0 <u>DELIVERABLES</u>

An audit summary, which may be made public, will be provided within 90 days of the completion of the audit.

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ADAMS Accession No.: ML22165A275

OFFICE	NRR/DORL/LPL3/PM	NRR/DORL/LPL3/LA	NRR/DEX/EXHB/BC
NAME	RKuntz	SRohrer	LBauer (A)
DATE	6/14/22	6/15/22	6/14/22
OFFICE	NRR/DORL/LPL3/BC	NRR/DORL/LPL3/PM	
NAME	NSalgado SWall for	RKuntz	
DATE	6/15/22	6/16/22	

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