



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, ILLINOIS 60532-4352

August 16, 2022

Mr. David P. Rhoades
Senior Vice President
Constellation Energy Generation, LLC
President and Chief Nuclear Officer (CNO)
Constellation Nuclear
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: QUAD CITIES NUCLEAR GENERATING—NOTIFICATION OF NRC REQUEST FOR INFORMATION FOR POST-APPROVAL SITE INSPECTION FOR LICENSE RENEWAL—PHASE IV; INSPECTION REPORT 05000254/2022010; 05000265/2022010

Dear Mr. Rhoades:

On November 14, 2022, the U.S. Nuclear Regulatory Commission (NRC) will begin an inspection in accordance with Inspection Procedure 71003 (Phase IV). This onsite inspection is scheduled to be performed November 14, 2022 through November 18, 2022.

The purpose of the inspection is to review the implementation of the Aging Management Program (AMP) elements during the Period of Extended Operation. The inspection team will select for review a sample of the site's AMPs.

This Request for Information is separated into three Sections (A, B and C). Section A information will be used to facilitate the AMP sample selections. The team leader will make AMP selections and inform the licensee. Based on these selections, the licensee will provide the additional information requested under Section B. This information will be used as part of the inspection preparation and implementation. Requests under Section C should be available to the inspectors during the on-site week of inspection. See the table below for specific dates:

Requested Action:	Date:
Section A Information	October 3, 2022
Section B Information	October 17, 2022
Section C Information	November 14, 2022

Experience has shown that this inspection is resource intensive both for the NRC inspector and your staff. In order to minimize the impact to your onsite resources, and to ensure a productive inspection for both sides, we have enclosed a request for documents needed for this inspection. It is important that all of these documents are up-to-date, and complete, in order to minimize the number of additional documents requested during the preparation and/or the onsite portion of the inspection.

We understand that our regulatory contact for this inspection will be Mr. R. Swart of your organization. If there are any questions about this inspection or the material requested, please contact the lead inspector Matthew Domke at 630-829-9562.

This letter does not contain new or amended information collection requirements subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.). Existing information collection requirements were approved by the Office of Management and Budget, Control Number 3150-0011. The NRC may not conduct or sponsor, and a person is not required to respond to, a request for information or an information collection requirement unless the requesting document displays a currently valid Office of Management and Budget Control Number.

This letter and its enclosure will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with Title 10 of the *Code of Federal Regulations*, Part 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,



Signed by Domke, Matthew
on 08/16/22

Matthew Domke, Reactor Inspector
Engineering Branch 1
Division of Reactor Safety

Docket Nos. 50-254, 50-265
License Nos. DPR-29, DPR-30

Enclosure:
Document Request for License Renewal
Phase IV Inspection

cc: Distribution via LISTSERV®

Letter to David P. Rhoades from Matthew Domke dated August 16, 2022.

SUBJECT: QUAD CITIES NUCLEAR GENERATING—NOTIFICATION OF NRC REQUEST FOR INFORMATION FOR POST-APPROVAL SITE INSPECTION FOR LICENSE RENEWAL—PHASE IV; INSPECTION REPORT 05000254/2022010; 05000265/2022010

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**QUAD CITIES NUCLEAR GENERATING STATION–REQUEST FOR INFORMATION
FOR THE UPCOMING POST-APPROVAL SITE INSPECTION FOR LICENSE RENEWAL
(PHASE IV)**

Inspection Procedure: IP 71003, “Post-Approval Site Inspection for License Renewal” (Phase IV)

Inspection Dates: November 14-18, 2022 (on-site)

Inspection Report: 05000254/2022010 and 05000265/2022010

Lead Inspector: Matthew Domke, Reactor Inspector

On November 14, 2022, the U.S. Nuclear Regulatory Commission (NRC) will begin a Post-Approval Site Inspection for License Renewal (Phase IV) at Quad Cities Nuclear Generating Station. The purpose of the inspection is to review the implementation of the aging management program elements during the Period of Extended Operation (PEO). The inspection team will select for review a sample of the site’s Aging Management Programs (AMPs).

This Request for Information (RFI) is separated into three Sections, A, B, and C. Inspectors will refine selections from Section A so that the licensee can provide additional information requested under Section B. This information will be used as part of the inspection preparation and implementation. Requests under Section C should be available to the inspectors during the on-site inspection week.

Requested Action:	Date:
Section A Information	October 3, 2022
Section B Information	October 17, 2022
Section C Information	November 14, 2022

A. Information Requested to Facilitate AMP Sample Selection

- (1) Provide a list of all site AMPs.
- (2) Provide copies of corporate and/or site-specific program document/procedure related to overall aging management program.
- (3) Provide list of AMPs that were new or enhanced in the License Renewal Application (LRA).
- (4) Provide list of AMPs that had commitment changes since entering the PEO.
- (5) Provide list of AMPs that have incorporated newly identified structures, systems, and components (SSCs) since entering the PEO. List or describe which SSCs were incorporated.
- (6) Provide list of AMPs that have incorporated components from One-Time Inspection activities since entering the PEO.

Enclosure

- (7) Provide any self-assessments and/or audits related to license renewal program implementation and/or AMP effectiveness.
- (8) Provide a list of corrective action documents that were initiated as result of license renewal activities, self-assessments, and/or audits (since entering the PEO).
- (9) Electronic copies of Updated Final Safety Analysis Report, Technical Specifications, Technical Specifications Bases, Technical Requirements Manual, and Individual Plant Examination of External Events (IPEEE).
- (10) Site-specific responses and/or evaluations for NRC generic communications associated with license renewal that were issued after entering the PEO.
- (11) Risk-ranking of top 250 basic events from your internal and external events site-specific probabilistic safety analysis (PSA) sorted by Birnbaum Importance, Risk-Reduction Worth, Risk-Achievement Worth, and Fussell-Vesely (Provide in Excel format). Please include basic event names/description.
- (12) Provide a list of the top 10 risk important systems for the internal events model and external events model.

B. Information Requested for Each AMP Selected for Review (As Applicable)

- (1) Program basis documents and administrative procedures describing key program attributes such as program objectives, scope, detection and monitoring methods, administrative controls, acceptance criteria, corrective actions, and scope expansion requirements.
- (2) Provide a summary document listing which implementing procedures are included in the selected AMP and what are their required performance frequency.
- (3) Copies of implementing procedures for program activities (e.g., visual examination procedures, ultrasonic examination procedures, maintenance procedures, system walkdowns, etc.)
- (4) Completed Work Orders (WOs) for the most recent aging management activities performed, including associated inspection and testing reports, as applicable. This request is limited to the last two completed activities (per procedure). If this request becomes too onerous based on the number of WO reach out to the lead inspector for additional scope clarification.
- (5) Copies of aging related corrective actions documents associated with the selected AMP, and SSCs under its purview (for the last three years). A search of corrective actions documents should include keywords such as: "aging," "age management," "degradation," "wear," "delamination," "peeling," "crazing," "chipping," "leak," "crack," "corrosion," "rust," "leaching," "embrittlement," "fatigue," "blister," "spalling," "oxidation," "loss of function," "failed acceptance criteria," "flow-accelerated," or other site-specific terms/codes used in aging monitoring as appropriate.
- (6) Updated license renewal scoping drawings showing the SSCs within the scope of the AMP.

- (7) Any “gap analyses” performed to assess the differences between the current AMP and the recommendations in the latest revision of NUREG-1801, “Generic Aging Lessons Learned (GALL),” and subsequent Interim Staff Guidance.
- (8) Copy of evaluations performed for applicable external and internal operating experience (OE) issues associated with license renewal. This request is limited to OE items issued after entering the PEO.
- (9) Description of instances where examination scope expansion was required based on the examination of an SSC in accordance with the AMP. Please describe the logic to select the scope expansion, and any resulting changes to the AMP. (This request is limited to work performed in the PEO.)
- (10) Description of instances where AMP examinations/inspections were eliminated or deferred. (This request is limited to work performed in the PEO.)
- (11) Description of instances where examination/inspection scope changes were required based on limitations encountered during the examination. (This request is limited to work performed in the PEO.)

C. Information Requested to be Available During the Onsite Week of Inspection

- (1) Provide a brief presentation (informal) to the inspection team regarding aging management at the site. Topics to be covered:
 - a. How are aging related issue identified, documented and evaluated within the corrective action program and/or other aging tracking software/program.
 - b. Describe which individuals and/or organizations are responsible for identifying and evaluating aging related issues.
 - c. Describe the responsibilities regarding age management, if any, of the following:
 - i. System/Strategic Engineers
 - ii. AMP Owners
 - iii. Corporate office
- (2) Copy of simplified system drawings (a.k.a. Horse Notes or Training Notes).
- (3) A computer with network access to the site’s corrective action program.