



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

July 15, 2020

Mr. Kevin Cimorelli
Site Vice President
Susquehanna Nuclear, LLC
769 Salem Boulevard
NUCSB3
Berwick, PA 18603-0467

**SUBJECT: SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2 –
REGULATORY AUDIT FOR LICENSE AMENDMENT REQUEST TO REVISE
TECHNICAL SPECIFICATION 3.8.1 TO CREATE A NEW CONDITION FOR
AN INOPERABLE MANUAL SYNCHRONIZATION CIRCUIT REQUIRING
RESTORATION WITHIN 14 DAYS (EPID L-2020-LLA-0118)**

Dear Mr. Cimorelli:

By application dated May 26, 2020 (Agencywide Documents Access and Management System Accession No. ML20148L497), Susquehanna Nuclear, LLC (the licensee) submitted a license amendment request (LAR) for Susquehanna Steam Electric Station, Units 1 and 2 (Susquehanna). The amendment would create a new action in the technical specifications for an inoperable manual synchronization circuit requiring restoration within 14 days.

The U.S. Nuclear Regulatory Commission (NRC) staff will perform a regulatory audit to support its review of the LAR 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 gain understanding, verify information, and identify information that will require docketing to support the basis for the licensing decision regarding the LAR.

The audit will be performed using an online reference portal that will allow the NRC staff limited read-only access to licensee documents. Use of the online reference portal is acceptable if the following conditions are met:

- The online reference portal will be password-protected, and passwords will be assigned to those directly involved in the review on a need-to-know basis.
- The online reference portal will be sufficiently secure to prevent staff from printing, saving, or downloading any documents.
- Conditions of use of the online reference portal will be displayed on the login screen and will require concurrence by each user.

The conditions associated with the online reference portal must be maintained throughout the duration of the review process. Please provide written confirmation that Susquehanna Nuclear, LLC agrees to the terms and conditions set forth in this letter.

The enclosed audit plan identifies the documents that should be uploaded to the portal. Please provide NRC staff access to the portal by providing the information, such as username and password. The NRC staff may request additional information that is needed to support the staff's regulatory decision using normal processes.

If you have any questions, please contact me at (301) 415-8004 or Sujata.Goetz@nrc.gov.

Sincerely,

/RA/

Sujata Goetz, Project Manager
Plant Licensing Branch I
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-387 and 50-388

Enclosure:
Audit Plan

cc: Listserv

OFFICE OF NUCLEAR REACTOR REGULATION

REGULATORY AUDIT PLAN

LICENSE AMENDMENT REQUEST TO REVISE TECHNICAL SPECIFICATION 3.8.1

TO CREATE A NEW CONDITION FOR AN

INOPERABLE MANUAL SYNCRONIZATION CIRCUIT

SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2

DOCKET NOS. 50-387 AND 50-388

1.0 BACKGROUND

By application dated May 26, 2020 (Agencywide Documents Access and Management System Accession No. ML20148L497), Susquehanna Nuclear, LLC (the licensee) submitted a license amendment request (LAR) for Susquehanna Steam Electric Station (Susquehanna), Units 1 and 2. The amendments would create a new action in the technical specifications (TSs) for an inoperable manual synchronization circuit requiring restoration within 14 days.

2.0 REGULATORY BASIS

The audit will support the U.S. Nuclear Regulatory Commission (NRC) staff's review of the LAR. The purpose of the audit is to verify the design features that demonstrate the independence between the automatic and manual transfer circuitry of onsite and offsite power systems and the consequences of an inoperable transfer switch on the onsite power system.

3.0 AUDIT SCOPE

The scope of this audit is to review calculations, analysis, and supporting documentation related to alternating current (AC) power sources at Susquehanna, Units 1 and 2. The following is a preliminary list of documents that the NRC staff plans to review during the audit:

- The diesel generator automatic and manual synchronizing circuit diagrams or drawings.
- Bus transfer circuitry logic diagram and simplified drawings clearly showing the inputs such as from synchronization selector switch, control switches, voltages, diesel generator frequency sensing circuit, and offsite power sources.
- Analyses or evaluations demonstrating the independence between the automatic and manual transfer circuitry (both local and control room).
- Evaluations to show that automatic transfers associated with a unit trip or diesel generator powering the safety buses following loss-of-offsite-power event are not impacted by an inoperable manual synchronization circuit.

Additional documents may be identified for review as part of the audit.

4.0 TEAM

NRC participation is expected to include the following staff, although these assignments may change:

- Sujata Goetz, Project Manager (Sujata.Goetz@nrc.gov)
- Roy Mathew, Technical Reviewer (Roy.Mathew@nrc.gov)
- Gurcharan Matharu, Technical Reviewer (Matharu.Gurcharan@nrc.gov)

5.0 LOGISTICS

The audit will be conducted primarily using an online electronic information portal. Teleconferences will be held as necessary for clarification of information. If needed, public teleconferences will be used for technical discussions.

There is no formal entrance meeting planned. The audit will begin once the initial documents are made available to the NRC technical reviewer on the online electronic information portal. The audit will end before the NRC staff makes a final regulatory decision on the LAR.

6.0 SPECIAL REQUESTS

To facilitate this virtual audit, in lieu of an onsite audit, the NRC requests that Susquehanna Nuclear, LLC establish an online reference portal that allows the NRC staff to access documents remotely. The following conditions associated with the online reference portal must be maintained throughout the duration of the review process:

- The online reference portal will be password-protected, and passwords will be assigned to those directly involved in the review on a need-to-know basis.
- The online reference portal will be sufficiently secure to prevent staff from printing, saving, or downloading any documents.
- Conditions for use of the online reference portal will be displayed on the login screen and will require concurrence by each user.

The documents identified above as an initial list should be made available as soon as possible through the portal to ensure timely completion of the audit. Username and password information should be provided directly to the designated NRC staff. All other communications should be coordinated with the NRC project manager.

7.0 DELIVERABLES

The NRC staff will inform Susquehanna Nuclear, LLC when the audit has concluded and will hold an exit meeting as needed. The NRC staff will complete an audit summary to document its observations and conclusions within 30 days of the completion of the audit. The audit summary will be made public once the review of the LAR has been completed. Should the staff identify information during the audit that is needed as an official agency record to support its regulatory

decision on the LAR, the staff will issue a request for additional information using its normal processes.

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DATED JULY 15, 2020

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ADAMS Accession No.: ML20189A182

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