

From: [Buckberg, Perry](#)
To: [Hulvey, Kimberly Dawn](#); [Williams, Gordon Robert](#)
Cc: [Shoop, Undine](#)
Subject: Request for Additional Information - SQN 1 Exigent CR H-08 Removal - EPID L-2019-LLA-0239
Date: Monday, November 18, 2019 4:35:00 PM
Attachments: [SQN 1 Exigent RAI final - EPID L-2019-LLA-0239 11-18-19.pdf](#)

By letter dated November 16, 2019 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML19320C333), The Tennessee Valley Authority submitted an exigent license amendment request (LAR) for Sequoyah Nuclear Plant, Unit 1, to modify the Unit 1 Technical Specifications to allow for 1 cycle of operation with 52 full length control rods. The staff has identified an area where additional information is needed to complete the review.

The NRC staff's Request for Additional Information (RAI) related to this LAR is attached.

Consistent with the exigent circumstances, the NRC requests that the response to the attached final RAI be issued by 1800 November 19, 2019.

Thanks,

U.S. Nuclear Regulatory Commission
Office of Nuclear Reactor Regulation

Perry Buckberg

Senior Project Manager / Agency 2.206 Petition Coordinator

office: (301)415-1383

perry.buckberg@nrc.gov

Mail Stop O-8B1a, Washington, DC, 20555-0001

REQUEST FOR ADDITIONAL INFORMATION
EXIGENT LICENSE AMENDMENT REQUEST
FOR ONE CYCLE (U1C24)
SEQUOYAH NUCLEAR PLANT UNIT 1
TENNESSE VALLEY AUTHORITY
DOCKET NO. 50-327
EPID L-2019-LLA-0239

By letter number CNL-19-116 dated November 16, 2019 (Agencywide Documents and Access Management System (ADAMS) Accession No. ML19320C333), Tennessee Valley Authority (TVA) requested Nuclear Regulatory Commission (NRC) approval of an exigent License Amendment Request (LAR) for Sequoyah Nuclear Plant (SQN) Unit 1.

Pursuant to Title 10, Code of Federal Regulations, Part 50, 10 CFR 50.90, TVA requested approval of the exigent LAR to operate the SQN Unit 1 for one cycle (U1C24) with no full length control rod assembly in core location H-08. The EMIB branch requests the following additional information.

SQN1-EMIB-RAI-01:

In sections 3.4, 3.5, and 4.3 of the LAR, it is mentioned that the H-08 control rod and drive shaft will be removed from service, and a flow restrictor will be installed in the H-08 control rod guide tube in the reactor vessel upper internals.

Please clarify that the design and construction of the flow restrictor is adequately certified in accordance with the applicable code.

From: [Buckberg, Perry](#)
To: [Hulvey, Kimberly Dawn](#); [Williams, Gordon Robert](#)
Cc: [Shoop, Undine](#)
Subject: Draft RAI - SQN 1 Exigent CR H-08 Removal - EPID L-2019-LLA-0239
Date: Monday, November 18, 2019 3:04:00 PM
Attachments: [Draft SQN 1 Exigent RAI - EPID L-2019-LLA-0239 11-18-19.docx](#)

Kim / Gordon,

Attached is a draft RAI regarding the exigent SQN Unit 1 LAR dated 11/16/2019.

Please review to ensure that there is no proprietary information contained in the draft RAI, that the questions are understandable, that the regulatory basis is clear and to determine if the information was previously docketed. Due to the exigent circumstances, a clarification phone call has been scheduled later today in case it is needed.

U.S. Nuclear Regulatory Commission
Office of Nuclear Reactor Regulation

Perry Buckberg

Senior Project Manager / Agency 2.206 Petition Coordinator

office: (301)415-1383

perry.buckberg@nrc.gov

Mail Stop O-8B1a, Washington, DC, 20555-0001

DRAFT
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Pursuant to Title 10, Code of Federal Regulations, Part 50, 10 CFR 50.90, TVA requested approval of the exigent LAR to operate the SQN Unit 1 for one cycle (U1C24) with no full length control rod assembly in core location H-08. The EMIB branch requests the following additional information.

SQN1-EMIB-RAI-01:

- (a) In sections 3.4, 3.5, and 4.3 of the LAR, it is mentioned that the H-08 control rod and drive shaft will be removed from service, and a flow restrictor will be installed in the H-08 control rod guide tube in the reactor vessel upper internals. ASME Boiler and Pressure Vessel Code Section III, Subsection NG, subparagraph NG-1122 (c) requires certification by the certificate holder that the construction of all internal structures do not adversely impact the integrity of the core support structure.

Please clarify that the design and construction of the flow restrictor is adequately certified as the LAR did not address this.

- (b) In section 3.3 of the LAR, it is mentioned that the U1C24 core design replaced the fuel assembly in core location H-08 with a sister fuel assembly from the same quarter core symmetric set to minimize perturbations to the reload analysis and fuel handling risk.

Please clarify that sister fuel assembly inserted does not include a control rod.