

From: [Marshall, Michael](#)
To: [Mascitelli, Francis J:\(Exelon Nuclear\)](#)
Cc: [Danna, James](#)
Subject: Calvert Cliffs Nuclear Power Plant, Units 1 and 2 –Request for Additional Information Regarding License Amendment Request Concerning Emergency Diesel Generator Surveillance Requirements for Frequency and Voltage Tolerances (EPID L-2019-LLA-0281)
Date: Friday, June 05, 2020 9:33:00 AM

Hello Frank,

By letter dated December 11, 2019 (Agencywide Documents Access and Management System Accession No. ML19346E536), Exelon Generation Company, LLC (Exelon; licensee) submitted license amendment requests (LAR) for Calvert Cliffs Nuclear Power Plant, Units 1 and 2 (Calvert Cliffs). The proposed amendments would revise certain frequency and voltage acceptance criteria for steady-state emergency diesel generator surveillance testing in Calvert Cliffs Technical Specification Section 3.8.1, “AC Sources - Operating.” The calculations supporting the request were revised using methodology described in WCAP-17308-NP-A, Rev. 0, “Treatment of Diesel Generator (DG) Technical Specification Frequency and Voltage Tolerances,” dated July 2017.

The U.S. Nuclear Regulatory Commission staff has reviewed the information provided in the LAR and has determined that additional information is needed to complete its review. The request for additional information was discussed with you on May 27, 2020, and it was agreed that your response would be provided within 30 days of the date of this email.

REQUEST FOR ADDITIONAL INFORMATION

Section 50.36, “Technical specifications,” of Title 10 of the *Code of Federal Regulations* (10 CFR) describe the requirements related to the content of the technical specifications (TS). Pursuant to 10 CFR 50.36(c), TS are required to include item surveillance requirements (SR). Surveillance requirements relating to test, calibration, or inspection need to assure that the necessary quality of systems and components is maintained, that facility operation will be within safety limits, and that the limiting conditions for operation will be met. The proposed changes in this LAR relate to the SRs.

1. On Page 9 of Attachment 1 of the LAR, the licensee stated:

Motor operated valves [MOVs] were evaluated in Appendix D to CA10309. WCAP-17308 determined that there were four potential effects on MOVs due to EDG [emergency diesel generator] frequency and voltage tolerance that need evaluation. The first consideration is the increased inertia of the motor due to increased EDG frequency. The second is the potential effect of higher pump motor frequency on the differential pressure across the MOVs. The third is the impact of decreased voltage below nominal on the motor operator capability. The fourth is increased stroke time. Appendix D to CA10309 evaluated all safety-related, EDG-powered MOVs and determined that no issues exist at the proposed new TS SR frequency and voltage uncertainty values.

Please provide a brief explanation of the methods and acceptance criteria for each of the above-mentioned potential effects on the MOVs at the proposed new TS SR

frequency and voltage uncertainty values that led to the conclusion that no issues exist.

Best Regards,
Michael L. Marshall, Jr.
Senior Project Manager

Plant Licensing Branch I
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

301-415-2871

Docket No. 50-317 and 50-318