From: Klos, John
Sent: Thursday, December 10, 2020 3:04 PM
To: Sigmon, Chet Austin; Zaremba, Arthur H.
Cc: Klos, John
Subject: Formal release of RAIs - License amendment to change TS 3.8.1 due Jan. 29, 2021

Chet, Art,

By letter dated August 19, 2020 (Agencywide Documents Access and Management System (ADAMS) Accession Number ML20233A258), Duke Energy Carolinas, LLC (the licensee) submitted a license amendment request (LAR) for Catawba Nuclear Station (CNS) and McGuire Nuclear Station (MNS). Specifically, the LAR proposes to reduce the Emergency Diesel Generators (EDG) maximum allowed steady state voltage from 4580 V to 4320 V as specified in several Technical Specifications (TS) 3.8.1 Surveillance Requirements.

During the Nuclear Regulatory Commission (NRC) staff's review it was determined that more information was needed to complete the review.

Additionally, you stated to the NRC that a clarification call was not needed for the RAIs below. This request for additional information (RAI) is now released formally with a 50 day calendar response period; thereby, these RAIs are due on January 29, 2021.

CATAWBA AND MCGUIRE – REQUEST FOR ADDITIONAL INFORMATION (RAI) REGARDING CHANGES TO TS 3.8.1, REDUCE EMERGENCY DIESEL GENERATOR MAXIMUM VOLTAGE (EPID NO. L-2020-LLA-0192)

By letter dated August 19, 2020 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML20233A258), Duke Energy Carolinas, LLC (the licensee) dba Duke Energy submitted a license amendment request (LAR) for Catawba Nuclear Station (CNS) and McGuire Nuclear Station (MNS). Specifically, the LAR proposes to reduce the Emergency Diesel Generators (EDG) maximum allowed steady state voltage from 4580 V to 4320 V as specified in several Technical Specifications (TS) 3.8.1 Surveillance Requirements.

The U.S. Nuclear Regulatory Commission (NRC) staff requests the licensee to provide additional information as stated below:

Regulatory Requirement

The regulations at 10 CFR 50.36, "Technical specifications," establish the requirements related to the content of the TS. Pursuant to 10 CFR 50.36(c), TS are required to include items in five specific categories related to station operation: (1) Safety limits, limiting safety system settings, and limiting control settings, (2) Limiting conditions for operation (LCOs), (3) Surveillance requirements (SRs), (4) Design features; and (5) Administrative controls. The proposed changes in this LAR relate to the SRs category.

10 CFR Part 50.36(c)(3), "Surveillance requirements," requires surveillance relating "to test, calibration, or inspection 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."

RAI No. 1

In the LAR, the licensee stated that "during the 2018 Design Basis Assurance Inspection at MNS, the NRC inspectors questioned the [EDG] maximum steady state voltage limit of 4580 V stated in the TS 3.8.1 SRs. As a result, a Nuclear Condition Report (NCR) was generated to provide for and document a review of the issue within the Corrective Action Program (CAP). Administrative controls were implemented at MNS to limit the maximum steady state voltage. Based on the operating experience from MNS, CNS also initiated an NCR to provide for a similar review. As a result of this review, CNS also established administrative controls to limit the maximum steady state voltage."

The NRC staff reviewed the "McGuire Nuclear Station – NRC Design Bases Assurance Inspection (Team) Report 05000369/2018010 AND 05000370/2018010," dated April 12, 2018 (ADAMS Accession no. ML18103A158)" but this report, nor the LAR, documents a discussion of the EDG maximum steady state voltage issue.

Please provide a brief discussion explaining the reasons for considering the current TS EDG maximum steady state voltage limit of 4580 V as non-conservative. Also describe the administrative controls implemented to limit the maximum steady state voltage at both MNS and CNS power plants.

RAI No. 2

In the LAR, the licensee stated that "the MNS and CNS EDG loading calculations assume a maximum voltage of 4580 V, which bounds the proposed change to the TS SRs."

Please provide a summary of worst case MNS and CNS EDG loadings corresponding to the current TS maximum EDG voltage of 4580 V, and the proposed TS maximum EDG voltage of 4320 V for comparison purposes.

……
…….

Thanks in advance,

John Klos
DORL Mcguire Licensing Project Manager
U.S. NRC, Office of Nuclear Reactor Regulation (NRR),
Division of Operating Reactor Licensing (DORL),
NRC/NRR/DORL/LPL2-1, MS O9E3
Washington, DC 20555-0001
301.415.5136, John.Klos@NRC.gov

Hearing Identifier: NRR_DRMA
Email Number: 926

Mail Envelope Properties (MN2PR09MB5962661E01254D48A25420B0E3CB0)

Subject: Formal release of RAIs - License amendment to change TS 3.8.1 due Jan. 29, 2021
Sent Date: 12/10/2020 3:03:51 PM
Received Date: 12/10/2020 3:03:52 PM
From: Klos, John

Created By: John.Klos@nrc.gov

Recipients:
"Klos, John" <John.Klos@nrc.gov>
Tracking Status: None
"Sigmon, Chet Austin" <Chet.Sigmon@duke-energy.com>
Tracking Status: None
"Zaremba, Arthur H." <Arthur.Zaremba@duke-energy.com>
Tracking Status: None

Post Office: MN2PR09MB5962.namprd09.prod.outlook.com

Files	**Size**	**Date & Time**
MESSAGE	4680	12/10/2020 3:03:52 PM

Options
Priority: Normal
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date: