

NRR-PMDAPEm Resource

From: Hon, Andrew
Sent: Tuesday, January 31, 2017 10:13 AM
To: Murray, William R. (Bill) (Bill.Murray@duke-energy.com) (Bill.Murray@duke-energy.com)
Cc: Wentzel, Michael; Beasley, Benjamin
Subject: Brunswick Units 1 and 2 Request for Additional Information Related to Request to Revise SRs 3.3.8.2.2 and 3.3.8.2.3 (CAC NOS. MF7602 and MF7603)

By letter dated April 13, 2016 (Agencywide Document and Management System Accession No. ML16111B203), Duke Energy Progress, LLC requested amendments to Renewed Facility Operating License Nos. DPR-71 and DPR-62 for the Brunswick Steam Electric Plant (BSEP), Units 1 and 2, respectively. The proposed amendments would revise the Technical Specifications (TSs) for the reactor protection system (RPS) electrical protection assembly (EPA) electric power monitoring surveillance requirements (SRs) 3.3.8.2.2 and 3.3.8.2.3. The proposed change amends the allowable values (AVs) of SRs contained in TS 3.3.8.2, "RPS Electric Power Monitoring." Specifically, the TS change proposes to revise the RPS EPA AVs for overvoltage and undervoltage contained within SRs 3.3.8.2.2 and 3.3.8.2.3.

The U.S. Nuclear Regulatory Commission (NRC) staff is reviewing your submittal and has determined that additional information is required to complete the review. The specific information requested is addressed below. The proposed questions were discussed by telephone with your staff on January 19, 2017. Your staff confirmed that request for additional information (RAI) was understood and did not include proprietary or security-related information, and agreed to provide a response in 30 days of this request.

The NRC staff considers that timely responses to RAIs help ensure sufficient time is available for staff review and contribute toward the NRC's goal of efficient and effective use of staff resources. Please note that if you do not respond to this request by the agreed-upon date or provide an acceptable alternate date, we may deny your application for amendment under the provisions of Title 10 of the *Code of Federal Regulations*, Section 2.108. If circumstances result in the need to revise the agreed upon response date, please contact me.

Request 1

Section 2.2 of Enclosure 1 of the subject license amendment request (LAR) states, in part, that "[d]uring the review of the EC [Engineering Change], issues were identified with the current RPS EPA setpoints that could potentially allow the SSPV coils to operate above their design maximum voltage rating and below their minimum design voltage rating based on worst case conditions and when calculated voltage drops are taken into account."

The LAR did not explain the reason, the type, or the severity of the issues identified. Therefore, the NRC staff requests the licensee to:

- (a) Explain the reason, the type, and the severity of the issues identified
- (b) Submit a copy of the updated calculation and associated methodology used to perform the calculation for NRC staff review.
- (c) If not included in the calculation, provide the voltage rating of the AVCO solenoids in order for the NRC staff to assure that the voltages selected are conservative with regard to the equipment rated voltages.

Request 2

Section 3 of Enclosure 1 of the LAR states that the EPA provides underfrequency protection, the setpoint of which is defined in SRs 3.3.8.2.2 and 3.3.8.2.3 as being a frequency of ≥ 57.2 Hz. However, there is no mention in the LAR whether there is any change pertaining to the frequency being required for the solenoid valve replacement.

Please confirm that there are no changes to the frequency settings or associated equipment.

Andy Hon, PE

Project Manager (Brunswick Nuclear Plant 1 & 2, Sequoyah Nuclear Plant 1 & 2)

Plant Licensing Branch II-2

Division of Operating Reactor Licensing

Office of Nuclear Reactor Regulation

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