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ATTN: Document Control Desk
U. S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Duke Energy Carolinas, LLC (Duke Energy)
Oconee Nuclear Station (ONS), Unit 1
Docket Nos. 50-269
Renewed License No. DPR-38
Special Report per Technical Specification 5.6.6
Action Request No.: 02025933

Subject: Special Report per Technical Specification 5.6.6, Inoperability of Unit 1, Post Accident Monitoring, Containment Wide Range Sump Water Level Instrument

Pursuant to ONS Technical Specification 3.3.8, Condition B and Technical Specification 5.6.6, enclosed is a special report regarding the inoperability of a Unit 1, Post Accident Monitoring System, Containment Sump Water Level - Wide Range Instrument. The Channel A instrument was discovered out of tolerance during testing.

This Special Report is being submitted due to Channel A being inoperable for greater than 30 days. The information required by this Special Report is enclosed.

There are no regulatory commitments contained in this report.

If you have any questions regarding this submittal, please contact Laura Todd, Oconee Regulatory Affairs, at 864-873-6774.

Sincerely,

Scott L. Batson
Site Vice President,
Oconee Nuclear Station

Enclosure:
1. Oconee Nuclear Station, Unit 1 Special Report per Technical Specification 5.6.6

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NRR

Designate as original per Audrey Klett - 9/4/18

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Enclosure:
Oconee Nuclear Station, Unit 1 Special Report per Technical Specification 5.6.6

Inoperability of Post-Accident Monitoring Instrument
Containment Sump Level - Wide Range

Description of Condition

On May 3, 2016, during the performance of instrument channel checks the Channel A Containment Sump Water Level Wide Range Instrument was determined to be inoperable. The channel check requires channel A and B to agree with each other within 0.6 ft, but was found to have a difference of 0.8 ft and the deviation was found to be related to the Channel A instrument. Channel A and B are Post Accident Monitoring (PAM) Instruments required by Technical Specification 3.3.8. After troubleshooting, it was determined that actions to correct the instrument inoperability require access to a location in the reactor building that is inaccessible during plant operation. The Channel B Containment Sump Water Level Wide Range Instrument remains operable and is redundant to Channel A.

Background

The primary purpose of PAM instrumentation is to provide indication of selected unit parameters during accident conditions for the control room operators. The operability of the PAM instrumentation ensures that there is sufficient information available to monitor and assess unit status during and following an accident. The PAM instruments are identified by the ONS specific Regulatory Guide 1.97 analysis, Updated Final Safety Analysis Report (UFSAR) Section 7.5 and the NRC's Safety Evaluation Report for the ONS Regulatory Guide 1.97 analysis, which address the recommendations of Regulatory Guide 1.97 as required by Supplement 1 to NUREG-0737.

Containment Sump Water Level Wide Range indication is a Type B, Category 1 variable provided for verification and long term surveillance of Reactor Coolant System integrity. This instrumentation consists of two channels with readout on two indicators and one recorder.

Cause of Inoperability

The apparent cause of the Channel A difference from the Channel B instrument is a Channel A transmitter calibration issue. Maintenance to return Channel A to service requires access to a location in the reactor building that is inaccessible during plant operation. Thus, corrective actions could not be performed within 30 days.

Preplanned Alternate Method of Monitoring

Both channels of the Narrow Range Containment Sump Water Level and the Borated Water Storage Tank level instruments remain operable. These instruments provide redundant/diverse indications of RCS integrity during an accident and are Regulatory Guide 1.97 instruments.

Plans and Schedule for Restoring Functionality

Channel A of Containment Sump Water Level Wide Range is planned to be restored as opportunity allows and no later than the next scheduled Unit 1 refueling outage.