



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

April 6, 2018

Mr. Thomas D. Ray
Vice President
McGuire Nuclear Station
Duke Energy Carolinas, LLC
12700 Hagers Ferry Road
Huntersville, NC 28078-8985

SUBJECT: MCGUIRE NUCLEAR STATION, UNIT 1 – REVIEW OF STEAM GENERATOR
TUBE INSPECTION REPORT FOR THE CYCLE 25 REFUELING OUTAGE
(EPID NO. L-2018-LRO-0003)

Dear Mr. Ray:

By letter dated January 11, 2018 (Agencywide Documents Access and Management Systems Accession No. ML18023A160), Duke Energy (the licensee) submitted its steam generator (SG) tube inspection report for the McGuire Nuclear Station (McGuire), Unit 1 in accordance with Technical Specification (TS) 5.6.8, "Steam Generator Tube Inspection Report." The report summarizes the SG tube inspections that the licensee performed in the fall of 2017, during the McGuire, Unit 1 cycle 25 refueling outage.

The U. S. Nuclear Regulatory Commission (NRC) staff completed its review of the submittal and concluded that the licensee provided the information required by McGuire's TSs. No additional follow-up is required at this time. This completes the NRC staff's efforts for EPID No. L-2018-LRO-0003. The enclosure documents the NRC staff's review of the submittal.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Mahoney".

Michael Mahoney, Project Manager
Plant Licensing Branch II-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-369

Enclosures:
As stated

cc: Listserv



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REVIEW BY THE OFFICE OF NUCLEAR REACTOR REGULATION

FALL 2017 STEAM GENERATOR TUBE INSPECTION REPORT

DUKE ENERGY CAROLINAS, LLC.

MCGUIRE NUCLEAR STATION, UNIT 1

DOCKET NO. 50-369

By letter dated January 11, 2018 (Agencywide Documents Access and Management Systems Accession No. ML18023A160), Duke Energy (the licensee) submitted information summarizing the results of the fall 2017 steam generator (SG) tube inspections performed at McGuire Nuclear Station (McGuire), Unit 1 during its cycle 25 refueling outage.

McGuire, Unit 1 has four Babcock and Wilcox International model CFR80 SGs that were installed in 1997. Each SG has 6,633 thermally treated Alloy 690 tubes, which have a nominal outside diameter of 0.688 inches and a nominal wall thickness of 0.040 inches. The tubes have a triangular pitch of 0.930 inches and were hydraulically expanded at each end for the full depth of the 26.63-inch thick (without cladding) tubesheet. The tubes are supported by Type 410 stainless steel lattice grid supports.

The licensee provided the scope, extent, methods, and results of their SG tube inspections in the report referenced above. In addition, the licensee described corrective actions (i.e., tube plugging) taken in response to the inspection findings.

Based on a review of the information provided, the U.S. Nuclear Regulatory Commission (NRC) staff concludes that the licensee provided the information required by its technical specifications. In addition, the NRC staff concludes that there are no technical issues that warrant follow-up action at this time since the inspections appear to be consistent with the objective of detecting potential tube degradation, and the inspection results appear to be consistent with industry operating experience at similarly designed and operated units.

Principal Contributor: A. Huynh, NRR

Date: April 6, 2018

SUBJECT: MCGUIRE NUCLEAR STATION, UNIT 1 – REVIEW OF STEAM GENERATOR
 TUBE INSPECTION REPORT FOR THE CYCLE 25 REFUELING OUTAGE
 (EPID NO. L-2018-LRO-0003) DATED APRIL 6, 2018

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