



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

February 27, 2019

Mr. Adam C. Heflin
President and Chief Executive Officer,
Wolf Creek Nuclear Operating Corporation
Post Office Box 411
Burlington, KS 66839

SUBJECT: WOLF CREEK GENERATING STATION, UNIT 1 – REVIEW OF THE
SPRING 2018 STEAM GENERATOR TUBE INSERVICE INSPECTION
REPORT (EPID L-2018-LRO-0047)

Dear Mr. Heflin:

By letter dated October 31, 2018 (Agencywide Documents Access and Management System Accession No. ML18310A092), Wolf Creek Nuclear Operating Corporation (the licensee) submitted a summary of the results of the spring 2018 steam generator (SG) inspections performed at Wolf Creek Generating Station, Unit 1. The inspections were performed during refueling outage 22. The SG tube inspection report was submitted in accordance with Technical Specification (TS) 5.6.10, "Steam Generator Tube Inspection Report."

Based on its review, the U.S. Nuclear Regulatory Commission (NRC) staff concludes that the licensee has provided the information required by TS 5.6.10, and that no followup is required at this time. A summary of the NRC staff's review is enclosed.

If you have any questions, please contact me at 301-415-3016 or via e-mail at Balwant.Singal@nrc.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Balwant K. Singal".

Balwant K. Singal, Senior Project Manager
Plant Licensing Branch IV
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-482

Enclosure
Review of the Steam Generator
Tube Inspection Report

cc: Listserv

REVIEW OF THE 2018 REFUELING OUTAGE 22
STEAM GENERATOR TUBE INSERVICE INSPECTION REPORT
WOLF CREEK NUCLEAR OPERATING CORPORATION
WOLF CREEK GENERATING STATION, UNIT 1
DOCKET NO. 50-482

By letter dated October 31, 2018 (Agencywide Documents Access and Management System Accession No. ML18310A092), Wolf Creek Nuclear Operating Corporation (the licensee), submitted information summarizing the results of the spring 2018 steam generator (SG) inspections at Wolf Creek Generating Station, Unit 1 (WCGS). These inspections were performed during refueling outage 22 (RFO22).

The SG tube inspection report was submitted in accordance with Technical Specification (TS) 5.6.10, "Steam Generator Tube Inspection Report."

WCGS has four Westinghouse Model F SGs. Each SG contains 5,626 thermally treated Alloy 600 tubes. Each tube has a nominal outside diameter of 0.688 inches and a nominal wall thickness of 0.040 inches. The tubes are supported by stainless steel tube supports with quatrefoil-shaped holes and V-shaped chrome-plated Alloy 600 anti-vibration bars.

The licensee provided the scope, extent, methods, and results of its SG tube inspections in its letter dated October 31, 2018. In addition, the licensee described corrective actions, such as tube plugging, taken in response to the inspection findings.

After reviewing the information provided by the licensee, the U.S. Nuclear Regulatory Commission (NRC) staff has the following comments or observations:

- The area of channel head wastage (due to a cladding breach) in SG A was inspected, remains bounded by the previous analysis, and is acceptable for continued operation. No additional areas of cladding degradation were found during the RFO22 channel head visual inspections.
- The only degradation mechanism reported by the licensee was wear, which resulted in 20 tubes being removed from service by plugging. No indications of primary water stress corrosion cracking or outside diameter stress corrosion cracking were reported.

Based on a review of the information provided, the NRC staff concludes that the licensee provided the information required by WCGS TS 5.6.10. In addition, the staff concludes there are no technical issues that warrant followup action at this time because 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.

Enclosure

SUBJECT: WOLF CREEK GENERATING STATION, UNIT 1 – REVIEW OF THE
SPRING 2018 STEAM GENERATOR TUBE INSERVICE INSPECTION
REPORT (EPID L-2018-LRO-0047) DATED FEBRUARY 27, 201922

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AJohnson, NRR

ADAMS Accession No.: ML19056A133

*concurrence via e-mail dated 2/22/19

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