Wolf Creek
Nuclear Operating Corporation

Michael T. Boyce
Vice President Engineering

June 24, 2025
001027

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-001

References:
1) Letter 000685, dated November 1, 2024, from M. T. Boyce, WCNOC, to USNRC, "Results of the Steam Generator Tube Inservice Inspection During the 26th Refueling Outage to Reflect TSTF-577 Reporting Requirements" (ADAMS No. ML24306A219)

2) Electronic mail dated June 11, 2025, from S. S. Lee, USNRC, to J. K. Turner, WCNOC, "Request for Additional Information – Wolf Creek Results of Steam Generator Tube Inservice Inspection During the 26th Refueling Outage" (ADAMS No. ML25162A255)

Subject: Docket No. 50-482: Response to Request for Additional Information (RAI) Regarding Steam Generator Tube Inspection Report RF26

Commissioners and Staff:

In accordance with the Wolf Creek Generating Station (WCGS) Technical Specification (TS) 5.6.10, "Steam Generator Tube Inspection Report," in Reference 1, Wolf Creek Nuclear Operating Corporation (WCNOC) provided the Steam Generator Tube Inspection Report detailing the results of WCGS's steam generator (SG) tube in-service inspection performed during Refueling Outage 26 (RF26).

By electronic mail dated June 11, 2025, the U.S. Nuclear Regulatory Commission (NRC) indicated the staff had reviewed the information WCGS provided and determined that additional information is required to complete their review of the inspections (Reference 2). The attachment to this letter provides the questions contained in Reference 2, as well as WCNOC's responses.

This letter contains no commitments. If you have any questions concerning this matter, please contact me at (620) 364-8831 x8687, or Dustin Hamman at (620) 364-4204.

Sincerely,

Michael T. Boyce

MTB/jkt

Attachment: Wolf Creek Nuclear Operating Corporation (WCNOC), Unit 1 Response to Request for Additional Information (RAI) Regarding Steam Generator Tube Inspection Report RF26

cc: A. N. Agrawal (NRC), w/a
S. S. Lee (NRC), w/a
J. D. Monninger (NRC), w/a
Senior Resident Inspector (NRC), w/a
WC Licensing Correspondence, w/a – ET 25-001027

WOLF CREEK NUCLEAR OPERATING CORPORATION (WCNOC), UNIT 1 RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION (RAI) REGARDING STEAM GENERATOR TUBE INSPECTION REPORT RF26

Background:

By letter dated November 1, 2024 (Agencywide Documents Access System (ADAMS) Accession Number ML24306A219), Wolf Creek Nuclear Operating Corporation (the licensee), submitted information summarizing the results of the 2024 steam generator (SG) tube inspections performed at Wolf Creek Generating Station (Wolf Creek) during refueling outage 26 (RF26).

Based on its review of the submittal, the U.S. Nuclear Regulatory Commission (NRC) staff determined that, to complete its review, it needs a response to its request for additional information (RAI) below.. The licensee staff requested, and NRC agreed, to an RAI response by June 30, 2025.

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.

Regulatory Basis:

The submittal is based on Section 5.6.10 in the Wolf Creek Technical Specifications, which requires that a report be submitted within 180 days after the initial entry into hot shutdown (MODE 4) following completion of an inspection of the SGs.

The NRC staff of the Chemical, Corrosion, and Steam Generator Branch of the Division of License Renewal has reviewed the information the licensee provided and determined that additional information is required to complete its review of the inspections. Therefore, the NRC staff requests the following additional information:

Question:

1. The RF26 SG tube inspection report states in the table on page 1 that the inspection addresses degradation mechanism sub-populations, such as potential high residual stress tubes and outside diameter stress corrosion cracking (ODSCC) at dings/dents. However, the report does not indicate whether the tube in SG A that was found with axial ODSCC at a dent/ding was a tube with potentially high residual stress.
    a. Provide the residual stress status of the tube in Row 55 Column 46 of SG A (i.e., whether it is a tube with potentially high residual stress).
    b. Provide the number and location of in-service tubes in each SG that have potentially high residual stress.

WCNOC, Response to Request for Additional Information (RAI):

a. *Provide the residual stress status of the tube in Row 55 Column 46 of SG A (i.e., whether it is a tube with potentially high residual stress).*

   This tube did not have high residual stress.

b. *Provide the number and location of in-service tubes in each SG that have potentially high residual stress.*

The table below identifies the tubes with high residual stress.

Wolf Creek Ranking of Minus 2-Sigma High Stress Tubes

	SG A		SG B		SG C		SG D	
No.	**Row**	**Col**	**Row**	**Col**	**Row**	**Col**	**Row**	**Col**
1	18	4	18	31	20	11	19	21
2	18	5	32	41	17	22	25	33
3	18	6	24	45	20	22	17	40
4	36	15	26	46	24	26	26	42
5	18	19	25	53	27	26	17	70
6	17	21	12	63	28	34	19	89
7	19	22	17	66	26	38	42	102
8	20	27	11	80	17	60		
9	18	28	20	81	25	84		
10	21	29	14	88	18	109		
11	19	30	28	110				
12	18	33						
13	18	34						
14	17	36						
15	21	39						
16	17	40						
17	21	40						
18	27	46						
19	53	46						
20	17	47						
21	22	69						
22	17	91						
23	38	92						
24	21	106						
25	19	107						
26	16	109						
27	16	112						
28	16	115						
29	24	115						
30	16	116						
31	16	117						
Total	**31**		**11**		**10**		**7**	