

WOLF CREEK

NUCLEAR OPERATING CORPORATION

John A. Bailey
Vice President
Operations

April 3, 1991

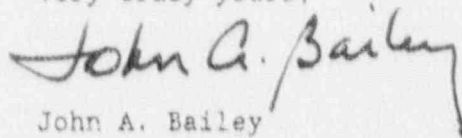
NO 91-0111

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Mail Station Pl-137
Washington, D. C. 20555

Subject: Docket No. 50-482: Special Report 90-003

The attached Special Report is being submitted in accordance with Technical Specification 4.4.5.5.b concerning the results of Wolf Creek Generating Station's third steam generator tube inservice inspection.

Very truly yours,



John A. Bailey
Vice President
Operations

JAB/aem

Attachment

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ADH

SPECIAL REPORT 90-003

THIRD STEAM GENERATOR TUBE INSPECTION RESULTS

This report is being submitted pursuant to Technical Specification (T/S) 4.4.5.5.b and 6.9.2 to report the results of the third steam generator tube inservice inspection.

The third steam generator tube inservice inspection was completed by Westinghouse Electric Corporation on April 4, 1990, during Refueling Outage IV. This inspection included steam generators (S/G) "B" and "D". This was the second inservice inspection of S/G "D" and the third for S/G "B".

A total of 6,374 tubes were inspected, and a total of two tubes were plugged in S/G "D" as discussed in Special Report 90-001, which was transmitted by letter NO 90-0114, dated April 19, 1990. This inspection did not identify any tubes which were required to be plugged in S/G "B". Included in this inspection effort were 32 tubes (seven in S/G "B" and 25 in S/G "D") which had been previously identified as having indications requiring re-inspection during this inservice inspection effort. The inspection results of these tubes are included with all indications found which are listed in Section 3 of this report.

1. Number and Extent of Tubes Inspected:

- A. Steam Generator "B": A total of 3,205 tubes were inspected full length.
- B. Steam Generator "D": A total of 3,169 tubes were inspected full length.

2. Identification of Tubes Plugged:

	<u>Row</u>	<u>Column</u>
A. Steam Generator "B"	None	None
B. Steam Generator "D"	50 45	66 101

3. Location and Percent of Wall Thickness Penetration for Each Indication of an Imperfection (Note: Multiple listings of the same tube are the result of more than one indication in that tube):

Key For Indication Lists

#H, #C	(# = number) of Support Plate Hot Leg or Cold Leg Side
AV#	Anti-Vibration Bar (# = number)
P	Tube Plugged, following % of Wall Thickness Loss
Indication	% of Wall Thickness Loss
Inch (+) from Location	Distance Measured from reference point (AV Bar, Baffle Plate, Tube Support Plate, etc.)

Tube Indications in Steam Generator "B"

<u>Row</u>	<u>Column</u>	<u>Location/Leg</u>	<u>Indication (% of Wall Thickness)</u>	<u>Inch (+) From Location</u>
30	10	AV5	20	0.00
46	25	AV4	21	0.00
49	28	AV5	23	0.00
48	35	AV3	27	0.00
53	35	AV5	21	0.00
47	53	AV3	23	0.00
54	55	AV2	28	0.00
54	55	AV3	20	0.00
54	55	AV5	32	0.00
50	58	AV2	30	0.00
22	98	AV1	22	0.00
47	98	AV5	29	0.00
47	99	AV4	22	0.00
47	99	AV6	29	0.00
44	100	AV6	21	0.00
45	101	AV5	26	0.00
44	102	AV4	25	0.00
44	102	AV6	35	0.00
41	104	AV5	22	0.00

Tube Indications in Steam Generator "D"

<u>Row</u>	<u>Column</u>	<u>Location/Leg</u>	<u>Indication (% of Wall Thickness)</u>	<u>Inch (+) From Location</u>
29	10	AV5	31	0.00
30	10	AV2	21	0.00
32	11	AV6	22	0.00
33	11	AV2	23	0.00
33	12	AV2	21	0.00
33	12	AV5	30	0.00
33	13	AV4	30	0.00
33	13	AV5	26	0.00
33	13	AV6	30	0.00
36	15	AV5	27	0.00
37	15	AV4	37	0.00
36	16	AV4	29	0.00
37	16	AV4	26	0.00
37	16	AV5	22	0.00
38	16	AV6	20	0.00
39	17	AV2	29	0.00
39	17	AV3	30	0.00
39	17	AV4	28	0.00
39	17	AV5	27	0.00
41	19	AV2	29	0.00
41	19	AV4	21	0.00
41	19	AV5	30	0.00
41	19	AV6	25	0.00
42	21	AV3	30	0.00
42	21	AV5	37	0.00
42	21	AV6	30	0.00
44	21	AV3	30	0.00
44	21	AV5	36	0.00
44	21	AV6	30	0.00
41	22	AV6	22	0.00
44	23	AV3	30	0.00
44	23	AV4	22	0.00
44	23	AV5	22	0.00
44	24	AV4	34	0.00
44	24	AV5	34	0.00
45	24	AV5	33	0.00
48	26	AV4	23	0.00
46	27	AV2	26	0.00
46	27	AV4	23	0.00
46	27	AV5	26	0.00
46	27	AV6	25	0.00
49	28	AV5	27	0.00
49	28	AV6	28	0.00
51	31	AV4	20	0.00
53	33	AV2	21	0.00
53	33	AV3	21	0.00

Tube Indications in Steam Generator "D" (continued)

<u>Row</u>	<u>Column</u>	<u>Location/Leg</u>	<u>Indication (% of Wall Thickness)</u>	<u>Inch (+) From Location</u>
53	33	AV4	31	0.00
53	33	AV5	26	0.00
53	33	AV6	33	0.00
39	34	AV1	24	0.00
45	47	AV2	28	0.00
45	47	AV3	33	0.00
45	47	AV4	27	0.00
52	47	AV5	34	0.00
52	47	AV6	21	0.00
45	48	AV3	32	0.00
50	52	AV3	29	0.00
50	52	AV4	33	0.00
47	58	AV2	28	0.00
45	62	AV2	31	0.00
45	62	AV3	32	0.00
45	62	AV5	24	0.00
45	64	AV2	25	0.00
45	64	AV3	36	0.00
45	64	AV5	21	0.00
59	64	AV2	26	0.00
50	66	AV2	28P	0.00
50	66	AV3	42P	0.00
50	66	AV4	30P	0.00
50	66	AV5	22P	0.00
50	67	AV3	34	0.00
50	75	AV2	30	0.00
50	75	AV3	27	0.00
53	76	AV3	20	0.00
57	77	AV6	25	0.00
50	81	AV2	25	0.00
50	81	AV4	31	0.00
50	81	AV5	28	0.00
56	81	AV2	27	0.00
49	82	AV2	28	0.00
50	82	AV3	33	0.00
50	82	AV4	23	0.00
50	82	AV6	22	0.00
55	83	AV3	29	0.00
40	84	AV2	27	0.00
45	85	AV2	20	0.00
45	85	AV3	34	0.00
51	89	AV3	25	0.00
51	89	AV4	22	0.00
45	94	AV3	26	0.00
45	94	AV4	27	0.00

Tube Indications in Steam Generator "D" (continued)

<u>Row</u>	<u>Column</u>	<u>Location/Leg</u>	<u>Indication (% of Wall Thickness)</u>	<u>Inch (+) From Location</u>
45	94	AV5	39	0.00
45	95	AV4	30	0.00
45	95	AV5	30	0.00
29	97	7H	21	70.39
45	97	AV4	30	0.00
45	97	AV5	39	0.00
48	97	AV2	27	0.00
47	99	AV2	28	0.00
47	99	AV3	35	0.00
47	99	AV4	26	0.00
47	99	AV5	38	0.00
47	99	AV6	28	0.00
45	101	AV2	27P	0.00
45	101	AV3	24P	0.00
45	101	AV4	27P	0.00
45	101	AV5	42P	0.00
45	101	AV6	24P	0.00
44	102	AV5	26	0.00
40	105	AV3	32	0.00
40	105	AV4	29	0.00
35	109	AV4	28	0.00
36	110	AV1	22	0.00
36	110	AV2	37	0.00
36	110	AV6	25	0.00
30	114	AV5	28	0.00
28	115	AV6	24	0.00