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DUKE POWER

February 28, 1989

Document Control Desk
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Subject: Catawba Nuclear Station, Unit 2
Docket No. 50-414
End of Cycle 1 Steam Generator Inspection

Gentlemen:

Pursuant to Catawba Nuclear Station Technical Specifications 4.4.5.5.b and 6.9.2, please find attached the Catawba Unit 2 end of cycle 1 refueling outage steam generator inspection report. This inservice inspection of steam generators A, B, C, and D was completed on February 12, 1988. A preliminary report required per Technical Specification 4.4.5.5.a was transmitted to the NRC per my February 29, 1988 letter to the Document Control Desk.

Very truly yours,

A handwritten signature in cursive script, appearing to read 'Hal B. Tucker'.

H. B. Tucker

JGT/2/U2EOC1SG

Attachments

xc: Mr. M. L. Ernst
Acting Regional Administrator, Region II
U. S. Nuclear Regulatory Commission
101 Marietta St., NW, Suite 2900
Atlanta, Georgia 30323

Mr. W. T. Orders
NRC Resident Inspector
Catawba Nuclear Station

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CATAWBA NUCLEAR STATION
UNIT 2 END OF CYCLE 1 REFUELING OUTAGE
STEAM GENERATOR INSPECTION REPORT

<u>STEAM GENERATOR</u>	<u>No. TUBES INSPECTED</u>		<u>No. TUBES W/ IMPERFECTIONS [NOTE 1]</u>	<u>No. TUBES PLUGGED [NOTE 2]</u>
	<u>Full Length</u>	<u>Partial Length</u>		
A	1133	146	6	4
B	546	118	1	1
C	515	118	1	0
D	1215	111	2	2

NOTE 1: See Attachments 1, 3, 5, and 6 for data on imperfections.

NOTE 2: See Attachments 2, 4, and 7 for data on tubes plugged.

Plant: CATAWBA UNIT 2 Steam Generator: A
Outages: 9/87 2/88

QUERY: ATTACHMENT 1 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	ELEVATION	INCHES
12	108	2/88	OD (general)	29 % TW	0.31	5	+27.60
15	77	9/87	OD (general)	68 % TW	0.97	5	+34.70
		2/88	OD (general)	68 % TW	0.92	5	+34.80
		2/88	OD (general)	57 % TW	0.73	2	+10.90
24	67	2/88	OD (general)	48 % TW	1.27	3	
49	39	2/88	OD (general)	51 % TW	0.69	7	
49	40	2/88	OD (general)	32 % TW	0.43	7	
49	54	2/88	OD (general)	83 % TW	0.47	12	+32.40
		2/88	OD (general)	62 % TW	0.49	12	+36.10

TOTAL TUBES FOUND = 6
TOTAL INDICATIONS FOUND = 9

Plant: CATAWBA UNIT 2 Steam Generator: A
 Outages: 9/87 2/88

QUERY: ATTACHMENT 2 TUBES PLUGGED

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	ELEVATION	INCHES
15	77	2/88	PLUGGED	MECH		HTS-P	
24	67	2/88	PLUGGED	MECH		HTS-P	
49	39	2/88	PLUGGED	MECH		HTS-P	
49	54	2/88	PLUGGED	MECH		HTS-P	

TOTAL TUBES FOUND = 4
 TOTAL INDICATIONS FOUND = 4

Plant: CATAWBA UNIT 2 Steam Generator: B
 Outage: 1/88

QUERY: ATTACHMENT 3 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	ELEVATION	INCHES
41	20	1/88	OD (general)	77 % TW	2.52	HTS-S	+ 1.10

TOTAL TUBES FOUND = 1
 TOTAL INDICATIONS FOUND = 1

TOTAL TUBES IN INPUT FILE = 4570
 TOTAL TUBES INSPECTED = 664

Plant: CATAWBA UNIT 2
Outage: 1/88

Steam Generator: B

QUERY: ATTACHMENT 4 TUBES PLUGGED

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS ELEVATION INCHES
41	20	1/88	PLUGGED	MECH	HTS-P

TOTAL TUBES FOUND = 1

TOTAL INDICATIONS FOUND = 1

TOTAL TUBES IN INPUT FILE = 4570

TOTAL TUBES INSPECTED = 664

Plant: CATANBA UNIT 2
 Outage: 1/88

Steam Generator: C

QUERY: ATTACHMENT 5 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	ELEVATION	INCHES
45	59	1/88	OD (general)	26 % TW	0.95	13	+ 6.00

TOTAL TUBES FOUND = 1

TOTAL INDICATIONS FOUND = 1

TOTAL TUBES IN INPUT FILE = 4570

TOTAL TUBES INSPECTED = 633

Plant: CATAWBA UNIT 2 Steam Generator: D
Outages: 9/87 2/88

QUERY: ATTACHMENT 6 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	ELEVATION	INCHES
43	62	2/88	OD (general)	63 % TW	0.91	3	+33.20
49	64	9/87	OD (general)	50 % TW	1.30	HTS-S	+ 0.50
		2/88	OD (general)	59 % TW	2.23	HTS-S	+ 0.60

TOTAL TUBES FOUND = 2
TOTAL INDICATIONS FOUND = 3

Plant: CATAWBA UNIT 2

Steam Generator: D

Outages: 9/87 2/88

QUERY: ATTACHMENT 7 TUBES PLUGGED

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS ELEVATION INCHES
43	62	2/88	PLUGGED	MECH	HTS-P
49	64	2/88	PLUGGED	MECH	HTS-P

TOTAL TUBES FOUND = 2

TOTAL INDICATIONS FOUND = 2