



Gary R. Peterson
Vice President

Duke Power
Catawba Nuclear Station
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February 19, 2001

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

Subject: Duke Energy Corporation
Catawba Nuclear Station, Unit 1
Docket Number 50-413
Steam Generator Outage Summary Report
for End of Cycle 12 Refueling Outage

Please find attached the subject report providing the results of the steam generator inspection effort associated with the subject outage.

Based on the inspection results, there were no steam generator tube indications meeting any threshold requirements for removing any tube from service.

If you have any questions concerning this material, please call L.J. Rudy at (803) 831-3084.

Very truly yours,

Gary R. Peterson

LJR/s

Attachment

ADD1

Document Control Desk
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February 19, 2001

xc (with attachment):

L.A. Reyes, Regional Administrator
U.S. Nuclear Regulatory Commission, Region II
Atlanta Federal Center
61 Forsyth St., SW, Suite 23T85
Atlanta, GA 30303

D.J. Roberts, Senior Resident Inspector
U.S. Nuclear Regulatory Commission
Catawba Nuclear Station

C.P. Patel, Senior Project Manager (addressee only)
U.S. Nuclear Regulatory Commission
Mail Stop 08-H12
Washington, D.C. 20555-0001

Steam Generator Outage Summary Report

Catawba Unit 1 2000 Outage EOC 12

Location: 4800 Concord Road, York South Carolina 29745

NRC Docket No. 50-413

National Board No. 130

Commercial Service Date: June 29, 1985

Owner: Duke Energy Corporation
526 South Church St.
Charlotte, N.C. 28201-1006

Revision 0

Prepared By: CB Cauter Date: 1-8-01

Reviewed By: DB Mays Date: 1-10-01

Approved By: Yours Sample Date: 1-10-01

Copy No. 1

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2	Hartford Steam Boiler Inspection and Insurance Co. (AIA)
Electronic	Steam Generator Desktop

FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner: Duke Energy Corporation, 526 S. Church St., Charlotte, NC 28201-1006
(Name and Address of Owner)
2. Plant: Catawba Nuclear Station, 4800 Concord Road, York, S. C. 29745
(Name and Address of Plant)
3. Plant Unit: 1
4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date: June 29, 1985
6. National Board Number for Unit 130
7. Components Inspected:

<u>Component</u>	<u>Manufacturer</u>	<u>Manufacturer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
Steam Generator 1B	BWI	769304	N/A	150
Steam Generator 1C	BWI	769302	N/A	147

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8¹/₂ in. x 11 in., (2) information in items 1 through 6 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-1 (Back)

8. Examination Dates 5/24/99 to 11/20/00
9. Inspection Period Identification: 2nd
10. Inspection Interval Identification: 2nd
11. Applicable Edition of Section XI 1989 Addenda None
12. Date/Revision of Inspection Plan: Per CNS Technical Specification
13. Abstract of Examinations and Test. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan.
14. Abstract of Results of Examination and Tests.
15. Abstract of Corrective Measures.

We certify that a) the statements made in this report are correct b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (if applicable) NA Expiration Date NA

Date 8 Jan 2001 Signed Duke Energy Corp. By M. J. Sample
Owner

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of NORTH CAROLINA employed by *The HSBI&I Co. of have inspected the components described in this Owners' Report during the period 5-24-99 to 2-7-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in the Owners' Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, test, and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Robert McGill Commissions NC 978
Inspector's Signature National Board, State, Province, and Endorsements

Date 2-7-2001 RM

* The Hartford Steam Boiler Inspection & Insurance Co.
200 Ashford Center North
Suite 300
Atlanta, GA. 30338

October 31, 2000

Gary D. Gilbert
Regulatory Compliance - CN01RC

Subject: Catawba Nuclear Station
Unit 1 Steam Generator
October 2000, EOC-12 Refueling Outage
NRC Inspection Report – 15 Day & 12 Month

Dear Sir,

Pursuant to Technical Specification 5.6.8 parts A and B, the following information is submitted:

1. The following quantity of tubes were inspected from either side of the Generator.

<u>Steam Generator</u>	<u>Tubes Inspected Full Length</u>	<u>Tubes Inspected Partial Length</u>
A	Not examined this cycle	
B	5316	0
C	5317	0
D	Not examined this cycle	

2. The following information is submitted concerning tube indications of imperfections. (The attached list identifies the tubes with imperfections, their locations and their size.)

<u>Steam Generator</u>	<u>Attachment</u>
A	N/A
B	1
C	2
D	N/A

3. There were no tubes removed from service by plugging.

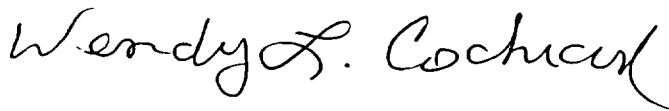
Steam Generator

Number of Tubes

A	N/A
B	0
C	0
D	N/A

If further information is required, please call me at 875-5036.

Sincerely,



Wendy L. Cochran
Eddy Current, Data Administrator

WLC.wlc

cc: w/o attachments W.F. Brady
R.W. Eaker
W.M. Sample

cc: w/attachments C.B. Cauthen
W.K. Davis

Attachment #1 List of Imperfections

QUERY: QueryM1

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION	EXT	EXT	PROBE	CAL#	COMMENT1	COMMENT2	LEG
11	34	8.25	188	1	DNT	FB5	+1.46	TEH	TEC	560UL	109			COLD
		2.95	157	1	DNT	FB5	+1.76	09H	09C	5202C	135			COLD
19	82	0.35	68	1	NQI	CBH	+6.59	TEH	TEC	560UL	41			COLD
32	9	0.34	101	6	ADI	06C	+5.86	TEH	TEC	560UL	95			COLD
		0.43	91	3	VOL	06C	+5.64	07C	06C	5402C	129			COLD
33	54	0.15	81	6	HNI	03H	+25.78	TEH	TEC	560UL	115			COLD
35	136	8.74	183	P 1	DNT	FB6	+2.24	TEH	TEC	560UL	67			COLD
37	24	0.36	168	1	HNI	03C	+23.51	TEH	TEC	560UL	99			COLD
40	9	0.35	98	6	ADI	04C	+8.31	TEH	TEC	560UL	95			COLD
		0.16	101	6	ADI	04C	+6.93	TEH	TEC	560UL	95			COLD
65	72	0.28	92	6	HNI	05H	+5.16	TEH	TEC	560UL	119			COLD
		0.39	97	6	HNI	05H	+30.80	TEH	TEC	560UL	119			COLD
69	70	0.22	83	6	HNI	04H	+12.63	TEH	TEC	560UL	119			COLD
		0.35	101	6	HNI	04H	+14.42	TEH	TEC	560UL	119			COLD
		0.31	106	6	HNI	04H	+16.41	TEH	TEC	560UL	119			COLD
		0.25	105	6	HNI	07H	+26.33	TEH	TEC	560UL	119			COLD
71	28	0.67	95	6	ADI	06C	+33.15	TEH	TEC	560UL	75			COLD
		0.49	94	3	VOL	06C	+32.81	07C	06C	5402C	129			COLD
71	84	0.25	91	6	ADI	03C	+15.58	TEH	TEC	560UL	31			COLD
76	53	0.31	67	6	ADI	03C	+16.08	TEH	TEC	560UL	79			COLD
76	105	0.27	76	6	HNI	FB8	+6.77	TEH	TEC	560UL	35			COLD
79	24	0.17	146	1	HNI	FB1	+10.83	TEH	TEC	560UL	71			COLD
79	76	0.36	66	6	HNI	04H	+21.86	TEH	TEC	560UL	27			COLD
80	105	0.30	80	6	HNI	07H	+35.18	TEH	TEC	560UL	37			COLD
		0.17	166	1	HNI	08H	+3.83	TEH	TEC	560UL	37			COLD
95	64	0.21	66	6	HNI	02H	+19.14	TEH	TEC	560UL	85			COLD
102	39	0.52	72	6	ADI	01H	+18.47	TEH	TEC	560UL	79			COLD
103	78	0.31	68	6	ADI	05H	+37.19	TEH	TEC	560UL	27			COLD
		0.21	270	3	VOL	05H	+37.49	05H	06H	5402C	14			HOT

Total Tubes : 19
Total Records: 29

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Attachment #2 List of Imperfections

QUERY: QueryM1

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION	EXT	EXT	PROBE	CAL#	COMMENT1	COMMENT2	LEG
===	===	=====	===	===	===	===	=====	===	===	=====	=====	=====	=====	=====
5	132	0.67	99	6	HNI		05C			CBC TEC 560UL	1			COLD
19	40	0.84	73	6	HNI		07H			TEH TEC 560UL	73			COLD
20	131	0.42	66	1	NQI		CBC			TEH TEC 560UL	123			COLD
29	10	4.17	14	1	HNI		TSC			TEH TEC 560UL	85			COLD
44	109	12.75	181	1	DNT		08H			TEH TEC 560UL	135			COLD
		6.50	8	3	DNT		08H			08H 09H 5202C	14			HOT
46	9	0.93	69	6	ADI		01C			TEH TEC 560UL	85			COLD
		0.50	82	6	ADI		02C			TEH TEC 560UL	85			COLD
63	44	0.18	0	P 2	NQI		FB4			TEH TEC 560UL	75	WAR		COLD
		0.11	0	P 2	TWD	4	FB4			09H TEC 560UW	157	WAR		COLD
		0.15	0	P 3	TWD	5	FB4			FB4 FB4 5202C	12	WAR		HOT
67	88	1.01	95	6	HNI		07C			TEH TEC 560UL	143			COLD
		0.96	96	6	HNI		07C			TEH TEC 560UL	143			COLD
72	61	0.19	113	P 1	NQI		FB5			TEH TEC 560UL	31	WAR		COLD
		0.13	0	P 2	TWD	5	FB5			09H TEC 560UW	157	WAR		COLD
		0.28	0	P 3	TWD	5	FB5			FB5 FB5 5202C	169	WAR		COLD
74	87	0.22	99	P 1	NQI		FB4			TEH TEC 560UL	109	WAR		COLD
		0.24	0	P 2	TWD	10	FB4			09H TEC 560UW	157	WAR		COLD
		0.23	0	P 3	TWD	8	FB4			FB4 FB4 5202C	12	WAR		HOT
75	76	0.37	156	P 1	NQI		FB5			TEH TEC 560UL	115	WAR		COLD
		0.21	0	P 2	TWD	9	FB5			09H TEC 560UW	157	WAR		COLD
		0.53	0	P 3	TWD	11	FB5			FB5 FB5 5202C	167	WAR		COLD
76	61	0.26	110	P 1	NQI		FB5			TEH TEC 560UL	31	WAR		COLD
		0.27	0	P 2	TWD	11	FB5			09H TEC 560UW	157	WAR		COLD
		0.38	0	P 3	TWD	8	FB5			FB5 FB5 5202C	169	WAR		COLD
79	62	0.23	105	P 1	NQI		FB4			TEH TEC 560UL	31	WAR		COLD
		0.36	0	P 2	TWD	15	FB4			09H TEC 560UW	157	WAR		COLD
		0.44	0	P 3	TWD	14	FB4			FB4 FB4 5202C	12	WAR		HOT
79	66	0.20	136	P 1	NQI		FB8			TEH TEC 560UL	29	WAR		COLD
		0.08	0	P 2	TWD	3	FB8			09H TEC 560UW	157	WAR		COLD
		0.34	0	P 3	TWD	6	FB8			FB8 CBC 5202C	169	WAR		COLD
80	81	0.16	0	P 1	NQI		FB4			TEH TEC 560UL	109	WAR		COLD
		0.20	0	P 2	TWD	9	FB4			09H TEC 560UW	157	WAR		COLD
		0.26	0	P 3	TWD	7	FB4			FB4 FB4 5202C	12	WAR		HOT
83	76	0.26	144	P 1	NQI		FB5			TEH TEC 560UL	115	WAR		COLD
		0.37	0	P 2	TWD	15	FB5			09H TEC 560UW	157	WAR		COLD
		0.65	0	P 3	TWD	14	FB5			FB5 FB5 5202C	167	WAR		COLD
85	64	0.19	139	P 1	NQI		FB5			TEH TEC 560UL	29	WAR		COLD
		0.17	0	P 2	TWD	7	FB5			09H TEC 560UW	157	WAR		COLD
		0.18	0	P 3	TWD	4	FB5			FB5 FB5 5202C	169	WAR		COLD
85	76	0.47	154	P 1	NQI		FB5			TEH TEC 560UL	113	WAR		COLD
		0.25	0	P 2	TWD	10	FB5			09H TEC 560UW	157	WAR		COLD
		0.40	0	P 3	TWD	9	FB5			FB5 FB5 5202C	167	WAR		COLD
86	61	0.22	137	P 1	NQI		FB5			TEH TEC 560UL	31	WAR		COLD
		0.20	0	P 2	TWD	8	FB5			09H TEC 560UW	157	WAR		COLD
		0.39	0	P 3	TWD	7	FB5			FB5 FB5 5202C	169	WAR		COLD
86	77	0.16	109	P 1	NQI		FB8			TEH TEC 560UL	113	WAR		COLD
		0.20	0	P 2	TWD	8	FB8			09H TEC 560UW	157	WAR		COLD
		0.22	0	P 3	TWD	5	FB8			FB8 FB8 5202C	167	WAR		COLD
90	87	0.36	141	P 1	NQI		FB5			TEH TEC 560UL	109	WAR		COLD
		0.28	0	P 2	TWD	12	FB5			09H TEC 560UW	157	WAR		COLD
		0.47	0	P 3	TWD	10	FB5			FB5 FB5 5202C	167	WAR		COLD
90	115	0.25	79	6	HNI		02H			TEH TEC 560UL	93			COLD
91	40	1.17	14	1	HNI		02C			TEH TEC 560UL	51			COLD
91	62	0.16	103	P 1	NQI		FB5			TEH TEC 560UL	31	WAR		COLD
		0.23	0	P 2	TWD	10	FB5			09H TEC 560UW	157	WAR		COLD
		0.13	0	P 2	TWD	6	FB5			09H TEC 560UW	157	WAR		COLD
		0.21	0	P 3	TWD	4	FB5			FB5 FB5 5202C	169	WAR		COLD
		0.31	0	P 3	TWD	7	FB5			FB5 FB5 5202C	169	WAR		COLD
92	87	0.26	116	P 1	NQI		FB5			TEH TEC 560UL	111	WAR		COLD
		0.23	0	P 2	TWD	10	FB5			09H TEC 560UW	157	WAR		COLD
		0.41	0	P 3	TWD	9	FB5			FB5 FB5 5202C	167	WAR		COLD
94	63	0.33	110	P 1	NQI		FB6			TEH TEC 560UL	31	WAR		COLD
		0.17	0	P 2	TWD	7	FB6			09H TEC 560UW	157	WAR		COLD
		0.23	0	P 3	TWD	5	FB6			FB6 FB6 5202C	169	WAR		COLD
96	55	0.82	13	1	HNI		09H			TEH TEC 560UL	45			COLD

Attachment #2 List of Imperfections

QUERY: QueryM1

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION	EXT	EXT	PROBE	CAL#	COMMENT1	COMMENT2	LEG
96	87	0.16	95	P 1	NQI		FB5	+1.66	TEH	TEC	560UL	111	WAR	COLD
		0.23	0	P 2	TWD 10		FB5	+1.67	08H	TEC	560UW	157	WAR	COLD
		0.27	0	P 3	TWD 6		FB5	+1.75	FB5	FB5	5202C	167	WAR	COLD
98	87	0.21	138	P 1	NQI		FB5	-1.71	TEH	TEC	560UL	109	WAR	COLD
		0.13	0	P 2	TWD 6		FB5	-1.46	09H	TEC	560UW	157	WAR	COLD
		0.18	0	P 3	TWD 4		FB5	-1.87	FB5	FB5	5202C	167	WAR	COLD
100	49	0.34	94	6	HNI		04H	+7.56	TEH	TEC	560UL	49		COLD
		0.92	15	1	HNI		TSH	+0.98	TEH	TEC	560UL	49		COLD
100	87	0.16	99	P 1	NQI		FB4	+1.72	TEH	TEC	560UL	111	WAR	COLD
		0.28	0	P 2	TWD 12		FB4	+1.71	09H	TEC	560UW	157	WAR	COLD
		0.25	0	P 3	TWD 8		FB4	+1.23	FB4	FB4	5202C	12	WAR	HOT
101	78	0.16	145	P 1	NQI		FB5	-0.72	TEH	TEC	560UL	113	WAR	COLD
		0.14	0	P 2	TWD 6		FB5	-0.74	09H	TEC	560UW	157	WAR	COLD
		0.20	0	P 3	TWD 4		FB5	-0.80	FB5	FB5	5202C	167	WAR	COLD
102	77	0.11	53	P 1	NQI		FB4	-0.60	TEH	TEC	560UL	113	WAR	COLD
		0.29	0	P 2	TWD 12		FB4	-0.59	09H	TEC	560UW	157	WAR	COLD
		0.32	0	P 3	TWD 10		FB4	-1.26	FB4	FB4	5202C	12	WAR	HOT
102	83	0.14	73	P 1	NQI		FB5	-1.84	TEH	TEC	560UL	111	WAR	COLD
		0.20	0	P 2	TWD 8		FB5	-1.84	09H	TEC	560UW	157	WAR	COLD
		0.26	0	P 3	TWD 6		FB5	-1.72	FB5	FB5	5202C	167	WAR	COLD
102	87	0.25	118	P 1	NQI		FB5	-1.74	TEH	TEC	560UL	109	WAR	COLD
		0.29	0	P 2	TWD 12		FB5	-1.75	09H	TEC	560UW	157	WAR	COLD
		0.47	0	P 3	TWD 10		FB5	-1.73	FB5	FB5	5202C	167	WAR	COLD
106	69	0.14	101	P 1	NQI		FB6	+1.72	TEH	TEC	560UL	25	WAR	COLD
		0.13	0	P 2	TWD 5		FB6	+1.72	09H	TEC	560UW	157	WAR	COLD
		0.24	0	P 3	TWD 8		FB6	+1.69	FB6	FB6	5202C	169	WAR	COLD
117	66	0.24	69	6	ADI		TSC	+17.54	TEH	TEC	560UL	25		COLD

Total Tubes : 37
Total Records: 93

P6-7