Steam Generator Inspection Summary Report

McGuire Unit 2 June 1997 Tube Leak Outage

Location: Hwy. 73, Cowans Ford, North Carolina 28216

NRC Docket No. 50-370

National Board No. 84

Commercial Service Date: March 1, 1984

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

Revision 0

Prepared By:	Sualdri C	rup	Date:z/29/00
Reviewed By:	XX Cop	<u>e</u>	Date: 2/29/00
Approved By:	Mous Ja	myli	Date: 2/29/80
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Company (AIA)

3 State of North Carolina

Department of Labor C/o J. M. Givens, Jr.

FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS As required by the Provisions of the ASME Code Rules

- 1. Owner: <u>Duke Energy Corporation</u>, 526 S. Church St.. Charlotte, NC 28201-1006 (Name and Address of Owner)
- 2. Plant: McGuire Nuclear Station, Highway 73, Cowans Ford, N. C. 28216 (Name and Address of Plant)
- 3. Plant Unit: 2
- 4. Owner Certificate of Authorization (if required) N/A
- 5. Commercial Service Date: March 1, 1984
- 6. National Board Number for Unit 84
- 7. Components Inspected:

Component	<u>Manufacturer</u>	Manufacturer <u>Serial No.</u>	State or Province No.	National Board No.
Steam Generator 2A	Westinghouse	1481	NC-201307	68-112
Steam Generator 2B	Westinghouse	1482	NC-201308	68-113
Steam Generator 2C	Westinghouse	1483	NC-201309	68-114
Steam Generator 2D	Westinghouse	1484	NC-201310	68-115

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is $8\frac{1}{2}$ 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 June 14, 1997	to June 29,1997				
9.	Inspection Period Identification: 2nd Period of the 2nd Interval					
10.	Inspection Interval Identification: 2nd Inspection Interval					
11.	Applicable Edition of Section XI 1989 Addenda None					
12.	Date/Revision of Inspection Plan: Tech Spec 3-4.4.5 Steam Generator 5/5/97 Revision Steam Generator Maintenance Manual Rev.2					
14. A dated 15. A W meet	 13. Abstract of Examinations and Test. Reference attached Inspection Summary Report dated 2/28/00. 14. Abstract of Results of Examination and Tests. Reference attached Inspection Summary Report dated 2/28/00. 15. Abstract of Corrective Measures. Reference attached Inspection Summary Report dated 2/28/00. 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 2 20 00 Signed Duke Energy Corp. By Now South						
	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 Hartford, Ct have inspected the components described in this Owner's Report during the period 6-29-/997 to 6-29-/997, 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 Owner's 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 Owner's 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 Commissions NR 7727, NC PS, N-I						
Date	7 7					

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

Atlanta, GA. 30338

Gerald W Crump

Subject:

McGuire Nuclear Station Unit 2 Steam Generator June, 1997, Leaker Outage

Dear Sir,

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

Steam Generator A B C	Full Length
Α	7
В	0
С	0
D	0

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

Steam Generator	Attachment
Α	1
В	2
C	3
D	4

3. The following tubes were removed from service by plugging.

Steam Generator	<u>Attachment</u>
Α	5
В	6
С	7
ח	8

If further information is required, please call me at 875-5584.

Sincerely,

P D Christopher

Eddy Current Data Administrator

PDC:pdc

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ATTACHMENT #1 - INDS OF IMPERFEC ROW COL OUTAGE	TIONS - SGA	OF IMPERFEC			VOLTS	LOCATION	
7 60 06/97 06/97 06/97 06/97 06/97 06/97 06/97 06/97 06/97 06/97	Bobbin Bobbin Bobbin Bobbin Bobbin Bobbin Bobbin Bobbin C/L Special	Interest	NQI NQI NQI NQI NQI SAI SAI SAI SAI SAI SAI SAI SAI DNT DNT	76	2.00 17.10 0.06 0.07 0.19 0.27 0.31 0.33 0.34 0.37 0.38 0.43 1.61 1.75 1.78 2.71	21C 17C 20C 20C 22C 21C 20C 21C 20C 21C 20C 21C 20C 21C 20C 21C 20C 21C 20C 21C 20C 21C 20C 21C	+14.98 +2.48 +2.48 +2.87 +18.02 -1.21 +5.25 +1.97 +4.12.97 +1.55 +1.55 +1.55 +1.55 +1.55 +6.33 +6.33 +6.33 +6.33 +6.34 +1.77 +2.77 +2.77 +2.77 +2.77

Total Indications Found = 29 Total Tubes Found = 5

FTI TUBAN II (Version 2.3) 02/28/2000 13:01:59

McGuire Nuclear Station - Unit Two

S/G B

06/97 LKR **** ***** ********* Bobbin, C/L Special Interest, H/L Special Interest, U-Bend

Page 1

ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS INDS OF IMPERFECTIONS - SGB ROW COL OUTAGE TEST TYPE IND %

IND %TW VOLTS LOCATION

49 82 06/97 U-Bend

DNT 4.39 09C +30.96

Total Indications Found = 1 Total Tubes Found = 1

Page 1

ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS INDS OF IMPERFECTIONS - SGC ROW COL OUTAGE TEST TYPE IND %

IND %TW VOLTS LOCATION

38 17 06/97 H/L Special Interest MAI 0.49 03H

-0.08

Total Indications Found = 1 Total Tubes Found = 1

FTI TUBAN II (Version 2.3) 02/28/2000 13:03:15 ***** McGuire Nuclear Station - Unit Two
S/G D
06/97 LKR ******** Bobbin, C/L Special Interest, H/L Special Interest, U-Bend

Page 1

ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS INDS OF IMPERFECTIONS - SGD ROW COL OUTAGE TEST TYPE IND S

**** *****

IND %TW VOLTS LOCATION

2 58 06/97 H/L Special Interest DNT 2.71 03H +0.59 2 59 06/97 H/L Special Interest DNT 4.91 03H +0.49 2 76 06/97 H/L Special Interest DNT 4.68 03H +0.59

Total Indications Found = 3
Total Tubes Found = 3

06/97 LKR

***** ***** ***** *****

Page 1

COUNT ROW COL

ATTACHMENT #5 - PLUGGED TUBES COUNT ROW COL

18 84

19 15

12. 19 15 13. 24 18 14. 24 37 15. 31 41 16. 35 46 17. 35 47 18. 35 50

Total Data Items Found = 18 Total Tubes Found = 18

Page 1

ATTACHMENT #6 - PLUGGED TUBES
COUNT ROW COL

COUNT ROW COL

1 20 54

1. 20 54 2. 21 7 3. 35 66

Total Data Items Found = 3
Total Tubes Found = 3

Page 1

ATTACHMENT #7 - PLUGGED TUBES
COUNT ROW COL

COUNT ROW COL

1. 38 17 2. 44 38 3. 48 52

Total Data Items Found = 3
Total Tubes Found = 3

FTI TUBAN II (Version 2.3)

McGuire Nuclear Station - Unit Two

S/G D

06/97 LKR

Page 1

ATTACHMENT #8 - PLUGGED TUBES
COUNT ROW COL

COUNT ROW COL

Total Data Items Found = 0
Total Tubes Found = 0