

Steam Generator Outage Summary Report

McGuire Unit 1 1998 Outage EOC 12

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

NRC Docket No. 50-369

National Board No. 44

Commercial Service Date: December 1, 1981

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

Revision 0

Prepared By: *Sheldal Crisp* Date: *2/23/00*

Reviewed By: *O B M Hayes* Date: *2/24/00*

Approved By: *Marcus Sample* Date: *2/24/00*

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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: McGuire Nuclear Station, Highway 73, Cowans Ford, N. C. 28216
(Name and Address of Plant)
3. Plant Unit: 1
4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date: December 1, 1981
6. National Board Number for Unit 44
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 1A	BWI	7701-04	NC-302668	157
Steam Generator 1B	BWI	7693-01	NC-302669	146
Steam Generator 1C	BWI	7701-03	NC-302670	155
Steam Generator 1D	BWI	7701-02	NC-302671	154

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 May 29, 1998 to July 01, 1998
9. Inspection Period Identification: Second period of the Second Interval
10. Inspection Interval Identification: Second Inservice 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 4/8/98 Revision
Steam Generator Maintenance Manual Rev. 2
13. Abstract of Examinations and Test. Reference attached NRC Inspection Report dated 4/19/99.
14. Abstract of Results of Examination and Tests. Reference attached NRC Inspection Report dated 4/19/99.
15. Abstract of Corrective Measures. Reference attached NRC Inspection Report dated 4/19/99.

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 2-24 192000 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 NC, employed by *The HSBI&I Co. of
HARTFORD CT have inspected the components described in this Owners' Report during the period 5-29-98 to 7-1-98, 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

[Signature] Commissions NB 7728, NC 853, N-I
Inspector's Signature National Board, State, Province, and Endorsements

Date 2-25 192000

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



Duke Energy Corporation

McGuire Nuclear Station
12700 Hagers Ferry Road
Huntersville, NC 28078-9340

(704) 875-4800 OFFICE

(704) 875-4809 FAX

H. B. Barron
Vice President

April 19, 1999

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

Subject: McGuire Nuclear Station
Docket Nos. 50-369
Unit 1 Steam Generators
EOC-12 Refueling Outage

Pursuant to Technical Specification 5.6.8 part b, the following information is submitted:

a. 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	6290	342
B	6334	298
C	6335	294
D	6306	323

b. The following information is submitted concerning tube indications of imperfections. (The attached list identifies the tubes with imperfections and the location and size of the imperfections.)

<u>Steam Generator</u>	<u>Attachment</u>
A	1
B	2
C	3
D	4

U. S. Nuclear Regulatory Commission
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c. The following tubes were removed from service by plugging.

<u>Steam Generator</u>	<u>Attachment</u>
A	5
B	6
C	7
D	8

Questions regarding this submittal should be directed to Kay Crane, McGuire Regulatory Compliance, at (704) 875-4306.

Sincerely,



H. B. Barron, Vice President
McGuire Nuclear Station

Attachment

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cc: Mr. L. A Reyes
Regional Administrator, Region II
U. S. Nuclear Regulatory Commission
61 Forsyth St., SW, Suite 23T85
Atlanta, Georgia 30323

Mr. F. Rinaldi, Project Manager
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Mr. Scott Shaeffer
Senior NRC Resident Inspector
McGuire Nuclear Station

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bxc: EC050-ELL
RGC File

FTI TUBAN II (Version 2.3) 04/05/1999 11:35:22
 McGuire N.S. - Unit One Replacement
 S/G A
 06/98 RFO
 BOBBIN,MRPC C/L SI,MRPC H/L SI,MRPC UBEND SI

ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS
 INDS OF IMPERFECTIONS - SGA
 ROW COL OUTAGE TEST TYPE

IND	%TW	VOLTS	LOCATION	
2	17	06/98	BOBBIN	ODI 1 0.67 02H +22.49
		06/98	MRPC H/L SI	VOL 0.49 02H +22.27
2	137	06/98	BOBBIN	ODI 5 0.23 01C +18.86
		06/98	MRPC C/L SI	VOL 0.65 01C +18.86
3	16	06/98	BOBBIN	ODI 1 0.23 03H +30.87
		06/98	MRPC H/L SI	VOL 0.25 03H +30.42
6	39	06/98	BOBBIN	ADI 0.15 02C +16.05
6	41	06/98	BOBBIN	ADI 0.71 08H +37.06
6	47	06/98	BOBBIN	ODI 3 0.07 08C +21.07
7	52	06/98	BOBBIN	ODI 6 0.30 01C +14.21
		06/98	MRPC C/L SI	VOL 0.37 01C +13.67
8	59	06/98	BOBBIN	ODI 1 0.31 02H +31.60
		06/98	MRPC H/L SI	VOL 0.28 02H +31.22
12	29	06/98	BOBBIN	ODI 1 0.11 04C +11.44
		06/98	BOBBIN	ODI 1 0.19 03C +30.72
		06/98	BOBBIN	ODI 4 0.46 08H +33.87
		06/98	MRPC C/L SI	VOL 0.27 04C +31.33
		06/98	MRPC C/L SI	VOL 0.39 04C +11.46
		06/98	MRPC H/L SI	VOL 0.39 08H +33.49
12	59	06/98	BOBBIN	NQI 0.34 CBH +5.39
15	128	06/98	BOBBIN	ODI 1 0.14 08C +24.80
22	31	06/98	BOBBIN	ODI 1 0.30 06C +7.55
		06/98	BOBBIN	ODI 7 0.10 08H +15.18
		06/98	BOBBIN	ODI 10 0.23 06C +32.54
		06/98	MRPC C/L SI	VOL 0.31 06C +7.31
		06/98	MRPC C/L SI	VOL 0.38 06C +32.44
		06/98	MRPC H/L SI	VOL 0.17 08H +15.10
22	37	06/98	BOBBIN	ODI 7 0.23 02C +36.15
22	71	06/98	BOBBIN	ODI 17 0.36 01C +22.48
23	30	06/98	BOBBIN	ODI 6 0.28 05C +14.58
		06/98	BOBBIN	ODI 10 0.14 05C +16.61
		06/98	MRPC C/L SI	VOL 0.15 05C +16.67
		06/98	MRPC C/L SI	VOL 0.31 05C +14.73
24	39	06/98	BOBBIN	ODI 1 0.25 06C +37.31
		06/98	BOBBIN	ODI 1 0.42 05H +7.77
		06/98	MRPC C/L SI	VOL 0.17 06C +38.95
		06/98	MRPC C/L SI	VOL 0.26 06C +36.99
		06/98	MRPC H/L SI	VOL 0.36 05H +7.57
		06/98	MRPC H/L SI	VOL 0.42 05H +7.02
24	67	06/98	BOBBIN	ODI 1 0.37 05H +19.74
		06/98	MRPC H/L SI	VOL 0.21 05H +19.89
24	69	06/98	BOBBIN	ODI 1 0.19 04H +26.23
		06/98	MRPC H/L SI	VOL 0.25 04H +25.81
24	89	06/98	BOBBIN	ODI 5 0.35 07C +31.68
		06/98	MRPC C/L SI	VOL 0.27 07C +31.68
24	129	06/98	BOBBIN	ODI 10 0.26 01H +25.77
		06/98	MRPC H/L SI	VOL 0.14 01H +24.72
25	72	06/98	BOBBIN	ODI 2 0.51 03H +10.77
		06/98	MRPC H/L SI	VOL 0.42 03H +10.43
25	86	06/98	BOBBIN	ODI 1 0.22 03H +25.15
		06/98	MRPC H/L SI	VOL 0.35 03H +25.03
25	126	06/98	BOBBIN	ODI 1 0.08 04C +16.37
		06/98	MRPC C/L SI	VOL 0.22 04C +16.07
26	57	06/98	BOBBIN	ODI 1 0.49 04C +4.25
		06/98	MRPC C/L SI	VOL 0.23 04C +4.53
		06/98	MRPC C/L SI	VOL 0.40 04C +2.97
27	56	06/98	BOBBIN	ODI 2 0.13 05H +4.53
27	112	06/98	BOBBIN	ODI 10 0.08 03H +31.34
27	136	06/98	BOBBIN	ODI 1 0.23 06H +6.78
		06/98	MRPC H/L SI	VOL 0.23 06H +6.48
28	123	06/98	BOBBIN	ODI 1 0.30 04H +14.67
		06/98	MRPC H/L SI	VOL 0.20 04H +14.35
29	70	06/98	BOBBIN	ODI 31.20 TEH +23.01 to +24.88
29	84	06/98	BOBBIN	ODI 5 0.06 08C +4.43
30	89	06/98	BOBBIN	ODI 12 0.34 01H +22.62

FTI TUBAN II (Version 2.3) 04/05/1999 11:35:22
 McGuire N.S. - Unit One Replacement
 S/G A
 06/98 RFO
 BOBBIN,MRPC C/L SI,MRPC H/L SI,MRPC UBEND SI

ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS
 INDS OF IMPERFECTIONS - SGA
 ROW COL OUTAGE TEST TYPE

IND	%TW	VOLTS	LOCATION
		0.44	01H +22.13
32	101	06/98 BOBBIN	ODI 1 0.30 08C +3.66
		06/98 MRPC C/L SI	VOL 0.15 08C +3.66
37	122	06/98 BOBBIN	ODI 1 0.51 05C +18.45
		06/98 MRPC C/L SI	VOL 0.24 05C +18.26
41	134	06/98 BOBBIN	ODI 13 0.12 02H +37.28
		06/98 MRPC H/L SI	VOL 0.17 02H +37.31
45	118	06/98 BOBBIN	NQI 0.06 04H +5.62
		06/98 BOBBIN	ODI 4 0.16 04H +17.43
		06/98 MRPC H/L SI	VOL 0.25 04H +5.49
47	52	06/98 BOBBIN	NQI 0.04 TSH +3.60
48	31	06/98 BOBBIN	ODI 9 0.22 06H +27.75
		06/98 MRPC H/L SI	VOL 0.22 06H +27.52
48	43	06/98 BOBBIN	ODI 1 0.48 02C +19.46
		06/98 MRPC C/L SI	VOL 0.98 02C +19.69
		06/98 MRPC C/L SI	VOL 1.01 02C +17.58
48	57	06/98 BOBBIN	ODI 1 0.33 02C +17.98
		06/98 MRPC C/L SI	VOL 0.36 02C +17.80
55	56	06/98 BOBBIN	ODI 1 0.29 08C +14.67
		06/98 MRPC C/L SI	VOL 0.14 08C +14.67
55	92	06/98 BOBBIN	ODI 1 0.11 06H +25.57
		06/98 MRPC H/L SI	VOL 0.31 06H +25.84
58	59	06/98 BOBBIN	ODI 1 0.25 02C +26.61
		06/98 MRPC C/L SI	VOL 0.21 02C +26.97
59	16	06/98 BOBBIN	ADI 0.14 04C +20.16
		06/98 MRPC C/L SI	VOL 0.17 04C +19.80
65	54	06/98 BOBBIN	ODI 12 0.10 03H +5.52
		06/98 MRPC H/L SI	VOL 0.24 03H +5.39
66	17	06/98 BOBBIN	ODI 5 0.13 05H +31.29
68	69	06/98 BOBBIN	ODI 1 0.42 02H +9.65
		06/98 MRPC H/L SI	VOL 0.32 02H +9.22
69	58	06/98 BOBBIN	ODI 9 0.10 02H +3.53
		06/98 MRPC H/L SI	VOL 0.19 02H +3.33
72	53	06/98 BOBBIN	ODI 4 0.15 03C +5.29
73	88	06/98 BOBBIN	ODI 1 0.52 02C +20.04
		06/98 MRPC C/L SI	VOL 0.48 02C +19.92
73	90	06/98 BOBBIN	ODI 11 0.33 03H +8.97
		06/98 MRPC H/L SI	VOL 0.21 03H +8.71
75	72	06/98 BOBBIN	ODI 16 0.07 TSC +1.23
79	72	06/98 BOBBIN	ODI 1 0.31 03H +16.31
93	42	06/98 BOBBIN	ODI 3 0.34 04H +16.52
94	77	06/98 BOBBIN	WAR 4 0.06 FB4 +0.00
		06/98 MRPC H/L SI	VOL 0.30 FB4 +0.68
		06/98 MRPC UBEND SI	VOL 0.30 FB4 +0.68
96	71	06/98 BOBBIN	ODI 9 0.18 03C +13.11
97	102	06/98 BOBBIN	IRR 19.73 TEH +13.14
107	60	06/98 BOBBIN	ODI 1 0.28 03C +16.37
107	94	06/98 BOBBIN	ODI 8 0.27 01C +19.78
		06/98 MRPC C/L SI	VOL 0.13 01C +19.67

Total Indications Found = 114
 Total Tubes Found = 58

FTI TUBAN II (Version 2.3) 04/05/1999 11:38:12
 McGuire N.S. - Unit One Replacement
 S/G B
 06/98 RFO
 BOBBIN,MRPC C/L SI,MRPC H/L SI,MRPC UBEND SI

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

IND	%TW	VOLTS	LOCATION	
1	40	06/98	BOBBIN	NEX 8.52 TSC -0.27
1	134	06/98	BOBBIN	ADI 0.21 03H +30.43
		06/98	MRPC H/L SI	VOL 0.45 03H +30.07
2	25	06/98	BOBBIN	ODI 1 0.11 01H +4.16
		06/98	MRPC H/L SI	VOL 0.11 01H +4.07
2	55	06/98	BOBBIN	ODI 1 0.19 02C +20.55
3	64	06/98	BOBBIN	ODI 1 0.40 07H +10.87
		06/98	MRPC H/L SI	VOL 0.24 07H +10.68
3	88	06/98	BOBBIN	ODI 1 0.13 08C +18.44
		06/98	MRPC C/L SI	VOL 0.23 08C +18.55
3	114	06/98	BOBBIN	ODI 1 0.39 01H +14.06
		06/98	MRPC H/L SI	VOL 0.46 01H +13.75
3	124	06/98	BOBBIN	ODI 1 0.48 04C +16.94
		06/98	MRPC C/L SI	VOL 0.34 04C +16.88
		06/98	MRPC C/L SI	VOL 0.43 04C +16.66
3	142	06/98	BOBBIN	NEX 8.61 TSH -0.31
4	5	06/98	BOBBIN	NEX 7.96 TSH -0.27 to +0.00
5	22	06/98	BOBBIN	ADI 0.27 04C +18.00
		06/98	MRPC C/L SI	VOL 0.09 04C +17.62
6	111	06/98	BOBBIN	ODI 7 0.56 09C +5.86
		06/98	MRPC C/L SI	VOL 0.41 09C +5.64
7	4	06/98	BOBBIN	NEX 6.86 TSC -0.28
7	6	06/98	BOBBIN	NEX 7.92 TSH -0.26
8	5	06/98	BOBBIN	NEX 6.99 TSH -0.30
9	6	06/98	BOBBIN	NEX 7.20 TSH -0.26
9	14	06/98	BOBBIN	ODI 5 0.45 03C +14.60
		06/98	BOBBIN	ODI 17 0.16 03C +2.62
		06/98	MRPC C/L SI	VOL 0.29 03C +2.53
		06/98	MRPC C/L SI	VOL 0.34 03C +14.03
9	126	06/98	BOBBIN	ODI 1 0.25 01C +19.63
10	5	06/98	BOBBIN	NEX 7.74 TSH -0.28
12	51	06/98	BOBBIN	ODI 5 0.52 03H +11.67
		06/98	MRPC H/L SI	VOL 0.41 03H +11.48
15	108	06/98	BOBBIN	ODI 7 0.30 03C +18.44
15	114	06/98	BOBBIN	ODI 25.67 TEC +6.91
17	84	06/98	BOBBIN	ODI 29.24 TEC +4.37
17	116	06/98	BOBBIN	ODI 10 0.22 03C +29.53
		06/98	BOBBIN	ODI 11 0.12 06H +9.23
		06/98	MRPC C/L SI	VOL 0.24 03C +29.16
		06/98	MRPC H/L SI	VOL 0.43 06H +9.26
19	6	06/98	BOBBIN	NEX 5.08 TSH -0.26
19	84	06/98	BOBBIN	ODI 1 0.20 05C +15.11
		06/98	MRPC C/L SI	VOL 0.11 05C +14.57
20	5	06/98	BOBBIN	NEX 6.81 TSH -0.29
21	54	06/98	BOBBIN	ODI 5 0.23 04H +28.77
21	56	06/98	BOBBIN	NQI 0.35 FB6 +1.22
23	6	06/98	BOBBIN	NEX 7.88 TSH -0.17
23	140	06/98	BOBBIN	NEX 6.93 TSH -0.26
		06/98	BOBBIN	ODI 27.90 TEC +11.68
24	63	06/98	BOBBIN	ODI 37.95 TEC +12.95
24	71	06/98	BOBBIN	ODI 38.43 TEC +12.68
25	6	06/98	BOBBIN	NEX 7.29 TSH -0.28
27	6	06/98	BOBBIN	NEX 7.85 TSH -0.31
27	8	06/98	BOBBIN	ODI 12 0.09 01C +22.58
27	12	06/98	BOBBIN	ODI 11 0.12 02H +23.89
27	26	06/98	BOBBIN	ODI 1 0.30 02C +26.89
28	47	06/98	BOBBIN	ODI 1 0.37 01C +25.23
		06/98	MRPC C/L SI	VOL 0.38 01C +24.96
28	63	06/98	BOBBIN	ODI 1 0.47 07C +27.08
		06/98	MRPC C/L SI	VOL 0.10 07C +26.90
28	113	06/98	BOBBIN	ODI 25.22 TEC +18.51
29	6	06/98	BOBBIN	NEX 6.85 TSH -0.26
29	48	06/98	BOBBIN	ODI 43.69 TEC +9.42
29	64	06/98	BOBBIN	ODI 28.12 TEC +23.88
29	132	06/98	BOBBIN	ODI 1 0.36 TSH +6.63

FTI TUBAN II (Version 2.3) 04/05/1999 11:38:12
 McGuire N.S. - Unit One Replacement
 S/G B
 06/98 RFO
 BOBBIN,MRPC C/L SI,MRPC H/L SI,MRPC UBEND SI

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

IND %TW VOLTS LOCATION

ROW	COL	OUTAGE	TEST TYPE	IND	%TW	VOLTS	LOCATION	
		06/98	MRPC H/L SI			0.28	TSH	+6.62
31	6	06/98	BOBBIN			6.24	TSH	-0.26
31	88	06/98	BOBBIN			0.38	07H	+6.87
32	5	06/98	BOBBIN			6.57	TSH	-0.17
37	6	06/98	BOBBIN			8.04	TSH	-0.31
37	120	06/98	BOBBIN			0.52	TSH	+13.88
38	61	06/98	BOBBIN			0.20	TSH	+17.02
		06/98	MRPC H/L SI			0.25	TSH	+17.38
39	102	06/98	BOBBIN			0.22	02C	+5.49
		06/98	BOBBIN			0.09	02H	+5.14
39	130	06/98	BOBBIN			29.28	TEC	+6.06
41	6	06/98	BOBBIN			8.39	TSH	-0.26
		06/98	BOBBIN			8.45	TSH	-0.32
42	75	06/98	BOBBIN			0.23	01C	+5.89
		06/98	MRPC C/L SI			0.07	01C	+4.55
		06/98	MRPC C/L SI			0.11	01C	+29.78
		06/98	MRPC C/L SI			0.16	01C	+5.83
42	91	06/98	BOBBIN			0.32	03C	+17.49
43	40	06/98	BOBBIN			0.38	08C	+10.78
		06/98	MRPC C/L SI			0.38	08C	+10.59
43	62	06/98	BOBBIN			36.09	TEC	+19.18
43	70	06/98	BOBBIN			25.88	TEC	+19.76
44	7	06/98	BOBBIN			0.06	06C	+10.63
46	35	06/98	BOBBIN			0.30	02C	+14.16
48	41	06/98	BOBBIN			32.39	TSC	-2.19
49	42	06/98	BOBBIN			0.19	02C	+26.04
		06/98	MRPC C/L SI			0.31	02C	+25.71
51	34	06/98	BOBBIN			0.11	01H	+16.02
51	48	06/98	BOBBIN			38.27	TEC	+0.00 to +4.43
51	64	06/98	BOBBIN			66.58	TEC	+4.24
51	72	06/98	BOBBIN			30.51	TEC	+0.00 to +5.11
53	90	06/98	BOBBIN			0.72	02C	+28.77
		06/98	MRPC C/L SI			0.40	02C	+28.44
54	61	06/98	BOBBIN			0.13	TSH	+19.07
54	93	06/98	BOBBIN			0.33	02H	+23.76
		06/98	MRPC H/L SI			0.43	02H	+23.64
56	75	06/98	BOBBIN			0.35	03H	+10.49
		06/98	MRPC H/L SI			0.62	03H	+10.41
58	51	06/98	BOBBIN			0.12	TSC	+14.21
58	85	06/98	BOBBIN			0.36	06C	+18.12
		06/98	MRPC C/L SI			0.29	06C	+18.26
58	91	06/98	BOBBIN			0.56	02H	+11.68
		06/98	MRPC H/L SI			0.81	02H	+11.87
59	46	06/98	BOBBIN			0.10	03C	+12.69
59	128	06/98	BOBBIN			6.03	TSH	-0.25
60	85	06/98	BOBBIN			0.09	04H	+30.38
		06/98	MRPC H/L SI			0.18	04H	+30.14
60	109	06/98	BOBBIN			0.09	04C	+38.06
61	104	06/98	BOBBIN			0.22	06H	+34.41
		06/98	MRPC H/L SI			0.69	06H	+34.28
62	85	06/98	BOBBIN			0.18	04C	+36.63
		06/98	MRPC C/L SI			0.33	04C	+36.24
63	84	06/98	BOBBIN			0.30	02C	+6.51
		06/98	MRPC C/L SI			0.32	02C	+6.45
64	129	06/98	BOBBIN			6.29	TSH	-0.25
66	103	06/98	BOBBIN			0.25	06H	+3.47
		06/98	MRPC H/L SI			0.19	06H	+3.19
67	106	06/98	BOBBIN			51.37	TEC	+11.80
67	122	06/98	BOBBIN			35.22	TEC	+12.79
67	130	06/98	BOBBIN			65.85	TEC	+12.21
68	35	06/98	BOBBIN			49.95	TEC	+1.46 to +19.65
68	55	06/98	BOBBIN			6.64	TSH	-0.26
		06/98	BOBBIN			0.17	06C	+29.84
		06/98	MRPC C/L SI			0.24	06C	+29.82
68	59	06/98	BOBBIN			26.01	TEC	+19.23

ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS
 INDS OF IMPERFECTIONS - SGB

ROW	COL	OUTAGE	TEST TYPE	IND	%TW	VOLTS	LOCATION	
70	71	06/98	BOBBIN	ODI	1	0.19	07H	+8.71
71	56	06/98	BOBBIN	ODI	1	0.59	FB8	+4.89
		06/98	MRPC UBEND SI	VOL		0.29	FB8	+5.22
71	60	06/98	BOBBIN	ODI	1	0.35	03C	+29.60
		06/98	BOBBIN	ODI	1	0.52	03C	+32.19
		06/98	MRPC C/L SI	VOL		0.24	03C	+31.83
71	74	06/98	BOBBIN	ODI	1	38.05	TEC	+2.86
71	82	06/98	BOBBIN	ODI	1	0.23	06C	+8.76
		06/98	BOBBIN	ODI	3	0.18	09H	-8.80
		06/98	BOBBIN	ODI	6	0.18	08H	+32.44
		06/98	MRPC C/L SI	VOL		0.16	06C	+8.68
		06/98	MRPC H/L SI	VOL		0.26	08H	+32.10
72	55	06/98	BOBBIN	NQI		0.50	FB4	-1.23
		06/98	MRPC UBEND SI	VOL		0.46	FB4	-1.33
		06/98	MRPC UBEND SI	VOL		1.50	FB4	-1.30
73	52	06/98	BOBBIN	ODI	1	0.31	02C	+30.04
73	112	06/98	BOBBIN	ODI	1	25.30	TEC	+11.35
73	120	06/98	BOBBIN	ODI	1	33.42	TEC	+11.46
73	128	06/98	BOBBIN	ODI	1	29.08	TEC	+11.49
74	111	06/98	BOBBIN	ADI		0.44	TSC	+15.26
75	98	06/98	BOBBIN	ODI	1	0.12	01H	+9.96
		06/98	MRPC H/L SI	VOL		0.36	01H	+9.88
75	100	06/98	BOBBIN	ODI	1	33.34	TEC	+11.76
75	124	06/98	BOBBIN	ODI	1	38.80	TEC	+12.80
76	49	06/98	BOBBIN	ODI	1	0.20	TSH	+3.39
		06/98	MRPC H/L SI	VOL		0.18	TSH	+3.20
76	69	06/98	BOBBIN	ODI	1	0.22	04H	+20.36
78	31	06/98	BOBBIN	ODI	1	46.57	TEC	+9.92 to +11.28
78	55	06/98	BOBBIN	ODI	1	45.90	TEC	+10.52
79	24	06/98	BOBBIN	ADI		0.13	03H	+14.26
79	82	06/98	BOBBIN	NQI		0.07	04C	+10.86
		06/98	BOBBIN	ODI	1	0.12	04C	+13.55
		06/98	BOBBIN	ODI	8	0.08	04C	+26.56
		06/98	MRPC C/L SI	VOL		0.16	04C	+13.18
		06/98	MRPC C/L SI	VOL		0.23	04C	+10.55
		06/98	MRPC C/L SI	VOL		0.26	04C	+26.19
79	86	06/98	BOBBIN	ODI	2	0.42	02C	+35.30
		06/98	MRPC C/L SI	VOL		0.62	02C	+35.30
81	32	06/98	BOBBIN	ODI	1	0.44	08C	+30.60
		06/98	MRPC C/L SI	VOL		0.10	08C	+30.22
81	104	06/98	BOBBIN	ODI	13	0.18	02C	+8.77
84	27	06/98	BOBBIN	ODI	1	44.84	TEC	+11.78
84	35	06/98	BOBBIN	ODI	1	40.25	TEC	+11.94
85	52	06/98	BOBBIN	ODI	1	0.24	04H	+29.32
		06/98	MRPC H/L SI	VOL		0.14	04H	+29.48
86	91	06/98	BOBBIN	ODI	1	47.71	TEC	+0.00 to +9.43
86	115	06/98	BOBBIN	ODI	1	53.97	TEC	+9.61
87	26	06/98	BOBBIN	ODI	1	28.21	TEC	+7.40
88	29	06/98	BOBBIN	ODI	1	38.40	TEC	+8.46
88	53	06/98	BOBBIN	ODI	4	0.19	01H	+10.26
		06/98	BOBBIN	ODI	4	41.11	TEC	+4.75 to +8.24
88	101	06/98	BOBBIN	ODI	2	0.68	02H	+9.13
		06/98	MRPC H/L SI	VOL		0.35	02H	+8.73
90	115	06/98	BOBBIN	ODI	1	0.24	03C	+29.01
		06/98	MRPC C/L SI	VOL		0.39	03C	+29.01
92	91	06/98	BOBBIN	ODI	4	0.28	02H	+24.13
		06/98	MRPC H/L SI	VOL		0.38	02H	+23.67
92	99	06/98	BOBBIN	ODI	1	33.91	TEC	+24.51
95	102	06/98	BOBBIN	ADI		0.13	01H	+27.85
96	37	06/98	BOBBIN	ODI	1	0.23	08C	+24.52
97	66	06/98	BOBBIN	ODI	1	44.40	TEC	+13.74
99	36	06/98	BOBBIN	ODI	1	0.27	02C	+13.74
101	66	06/98	BOBBIN	ODI	1	0.24	02C	+33.31
		06/98	MRPC C/L SI	VOL		0.23	02C	+32.79
101	86	06/98	BOBBIN	ODI	1	31.26	TEC	+1.93 to +21.82

FTI TUBAN II (Version 2.3) 04/05/1999 11:38:12
 McGuire N.S. - Unit One Replacement
 S/G B
 06/98 RFO
 BOBBIN,MRPC C/L SI,MRPC H/L SI,MRPC UBEND SI

ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS
 INDS OF IMPERFECTIONS - SGB

ROW	COL	OUTAGE	TEST TYPE	IND	%TW	VOLTS	LOCATION		
102	35	06/98	BOBBIN	ODI	1	0.17	01H		+14.79
		06/98	BOBBIN	ODI	1	0.23	02H		+26.41
103	48	06/98	BOBBIN	OXF		60.13	TEC		+10.24
103	56	06/98	BOBBIN	OXF		28.81	TEC		+9.41
103	64	06/98	BOBBIN	OXF		58.41	TEC		+10.10
103	72	06/98	BOBBIN	OXF		47.23	TEC		+9.76
104	45	06/98	BOBBIN	NEX		9.47	TSC		-0.26
104	79	06/98	BOBBIN	OXF		32.83	TEC		+13.74
104	87	06/98	BOBBIN	OXF		27.19	TEC		+13.57
105	46	06/98	BOBBIN	OXF		26.86	TEC		+4.20
106	49	06/98	BOBBIN	OXF		45.91	TEC	to	+7.52
106	57	06/98	BOBBIN	OXF		68.60	TEC	to	+2.64
106	65	06/98	BOBBIN	OXF		34.45	TEC		+8.08
106	73	06/98	BOBBIN	OXF		33.90	TEC	to	+8.45
106	89	06/98	BOBBIN	OXF		34.99	TSC		-1.66
107	60	06/98	BOBBIN	OXF		27.04	TEC		+8.46
107	80	06/98	BOBBIN	OXF		30.11	TEC		+5.78
108	45	06/98	BOBBIN	NEX		8.21	TSC	to	+0.00
		06/98	BOBBIN	OXF		34.76	TEC	to	+7.77
108	69	06/98	BOBBIN	OXF		26.65	TEC		+7.09
108	77	06/98	BOBBIN	OXF		28.91	TEC		+8.27
108	97	06/98	BOBBIN	OXF		26.44	TEC		+12.54
112	57	06/98	BOBBIN	NEX		5.53	TSH		-0.25
113	78	06/98	BOBBIN	OXF		50.42	TEC	to	+13.08
114	53	06/98	BOBBIN	NEX		8.24	TSH		-0.25
114	55	06/98	BOBBIN	NEX		5.23	TSH		-0.25
114	73	06/98	BOBBIN	OXF		49.54	TEC	to	+8.33
114	79	06/98	BOBBIN	OXF		24.20	TEC	to	+17.58
114	81	06/98	BOBBIN	OXF		47.11	TEC	to	+11.39
114	83	06/98	BOBBIN	OXF		30.92	TEC		+8.81
114	87	06/98	BOBBIN	IRR		29.30	TEC	to	+23.05
114	89	06/98	BOBBIN	OXF		33.43	TEC	to	+11.65
114	91	06/98	BOBBIN	OXF		38.03	TEC	to	+8.68
115	56	06/98	BOBBIN	NEX		4.84	TSH		-0.25
116	55	06/98	BOBBIN	NEX		6.42	TSH		-0.25
117	58	06/98	BOBBIN	NEX		7.22	TSH		-0.28
117	70	06/98	BOBBIN	OXF		39.00	TSC		-2.11
		06/98	BOBBIN	OXF		32.75	TEC	to	+24.90
117	86	06/98	BOBBIN	OXF		31.65	TEC	to	+13.33

Total Indications Found = 234
 Total Tubes Found = 166

FTI TUBAN II (Version 2.3) 04/05/1999 11:39:29
McGuire N.S. - Unit One Replacement
S/G C
06/98 RFO
BOBBIN,MRPC C/L SI,MRPC H/L SI,MRPC UBEND SI

ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

INDS OF IMPERFECTIONS - SGC

ROW COL OUTAGE TEST TYPE

IND %TW VOLTS LOCATION

ROW	COL	OUTAGE	TEST TYPE	IND	%TW	VOLTS	LOCATION	
2	139	06/98	BOBBIN	ODI	1	0.56	01H	+7.76
		06/98	MRPC H/L SI	VOL		0.16	01H	+7.23
3	46	06/98	BOBBIN	ODI	1	0.23	08C	+11.34
		06/98	BOBBIN	ODI	1	0.33	02C	+21.60
		06/98	MRPC C/L SI	VOL		0.20	08C	+11.31
		06/98	MRPC C/L SI	VOL		0.41	02C	+21.75
4	51	06/98	BOBBIN	OXF		52.87	TEC	+12.26
4	59	06/98	BOBBIN	OXF		75.36	TEC	+12.32
4	67	06/98	BOBBIN	OXF		51.55	TEC	+12.01 to +13.15
5	80	06/98	BOBBIN	ODI	1	0.43	02C	+34.38
		06/98	MRPC C/L SI	VOL		0.42	02C	+34.17
6	77	06/98	BOBBIN	ODI	1	0.30	01C	+17.55
		06/98	MRPC C/L SI	VOL		0.41	01C	+17.27
6	129	06/98	BOBBIN	ODI	1	0.36	02H	+31.90
7	80	06/98	BOBBIN	ODI	2	0.24	02C	+16.93
		06/98	MRPC C/L SI	VOL		0.09	02C	+16.58
12	45	06/98	BOBBIN	ODI	1	0.44	03H	+15.10
		06/98	MRPC H/L SI	VOL		0.25	03H	+14.48
12	49	06/98	BOBBIN	ODI	9	0.11	04C	+15.03
		06/98	BOBBIN	ODI	14	0.07	08C	+5.80
		06/98	MRPC C/L SI	VOL		0.14	08C	+5.67
		06/98	MRPC C/L SI	VOL		0.57	04C	+15.14
12	105	06/98	BOBBIN	ADI		0.17	01C	+17.21
13	54	06/98	BOBBIN	ODI	9	0.26	01C	+7.10
		06/98	MRPC C/L SI	VOL		1.09	01C	+7.27
13	122	06/98	BOBBIN	ADI		0.18	04C	+7.63
		06/98	BOBBIN	ADI		0.25	05H	+26.27
		06/98	MRPC C/L SI	VOL		0.17	04C	+7.35
		06/98	MRPC H/L SI	VOL		0.11	05H	+25.74
		06/98	MRPC H/L SI	VOL		0.37	05H	+24.13
14	43	06/98	BOBBIN	ADI		0.17	04C	+3.06
		06/98	MRPC C/L SI	VOL		0.19	04C	+2.96
16	37	06/98	BOBBIN	ODI	1	0.88	01C	+22.93 to +31.08
17	96	06/98	BOBBIN	ODI	17	0.13	03C	+28.57
		06/98	MRPC C/L SI	VOL		0.22	03C	+28.75
18	9	06/98	BOBBIN	OXF		28.91	TEC	+16.08
		06/98	BOBBIN	ODI	7	0.21	05C	+19.54
		06/98	MRPC C/L SI	VOL		0.18	05C	+19.20
18	17	06/98	BOBBIN	OXF		40.14	TEC	+15.41
18	19	06/98	BOBBIN	ODI	1	0.16	01C	+19.50
18	25	06/98	BOBBIN	OXF		31.39	TEC	+14.59 to +16.22
19	12	06/98	BOBBIN	ODI	8	0.32	06H	+13.74
		06/98	MRPC H/L SI	VOL		0.19	06H	+14.85
		06/98	MRPC H/L SI	VOL		0.26	06H	+13.74
19	78	06/98	BOBBIN	OXF		35.18	TEH	+0.41 to +1.80
19	86	06/98	BOBBIN	OXF		34.13	TEH	+0.50 to +2.76
21	10	06/98	BOBBIN	ODI	12	0.28	03H	+13.34
		06/98	MRPC H/L SI	VOL		0.29	03H	+13.40
21	42	06/98	BOBBIN	NQI		0.65	CBH	+7.19
22	121	06/98	BOBBIN	ODI	1	0.71	03H	+14.78
		06/98	MRPC H/L SI	VOL		0.96	03H	+14.82
23	78	06/98	BOBBIN	ODI	1	0.30	03C	+16.23
		06/98	BOBBIN	ODI	14	0.12	01C	+12.48
		06/98	MRPC C/L SI	VOL		0.23	03C	+15.45
		06/98	MRPC C/L SI	VOL		0.51	01C	+12.34
23	118	06/98	BOBBIN	ODI	1	0.30	02H	+17.58
		06/98	MRPC H/L SI	VOL		0.25	02H	+17.59
25	12	06/98	BOBBIN	ODI	1	0.53	07H	+16.67
		06/98	MRPC H/L SI	VOL		0.51	07H	+16.74
25	66	06/98	BOBBIN	ODI	1	0.36	06C	+32.92
		06/98	MRPC C/L SI	VOL		0.17	06C	+32.73
26	9	06/98	BOBBIN	ODI	1	0.34	04C	+37.83
		06/98	MRPC C/L SI	VOL		0.49	04C	+37.84
27	32	06/98	BOBBIN	ODI	7	0.34	03C	+29.65
		06/98	MRPC C/L SI	VOL		0.34	03C	+25.66

FTI TUBAN II (Version 2.3) 04/05/1999 11:39:29
 McGuire N.S. - Unit One Replacement
 S/G C
 06/98 RFO
 BOBBIN,MRPC C/L SI,MRPC H/L SI,MRPC UBEND SI

ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

INDS OF IMPERFECTIONS - SGC
 ROW COL OUTAGE TEST TYPE

IND %TW VOLTS LOCATION

ROW	COL	OUTAGE	TEST TYPE	IND	%TW	VOLTS	LOCATION	
		06/98	MRPC C/L SI			0.35	03C	+29.48
29	20	06/98	BOBBIN			0.27	06C	+22.15
		06/98	MRPC C/L SI			0.49	06C	+24.06
29	102	06/98	BOBBIN			0.29	02H	+20.35
		06/98	MRPC H/L SI			0.51	02H	+20.62
30	69	06/98	BOBBIN			0.20	03H	+7.34
		06/98	BOBBIN			0.21	07H	+2.91
		06/98	BOBBIN			0.68	01C	+13.07
		06/98	MRPC C/L SI			0.39	01C	+14.04
		06/98	MRPC H/L SI			0.31	03H	+7.02
		06/98	MRPC H/L SI			0.32	07H	+2.65
31	12	06/98	BOBBIN			0.17	02C	+14.99
		06/98	MRPC C/L SI			0.21	02C	+15.26
31	98	06/98	BOBBIN			0.11	07C	+30.14
34	67	06/98	BOBBIN			25.07	TEH	+21.36
34	93	06/98	BOBBIN			0.67	04C	+26.89
		06/98	MRPC C/L SI			0.69	04C	+26.52
35	126	06/98	BOBBIN			0.17	05H	+6.95
		06/98	MRPC H/L SI			0.21	05H	+6.70
36	27	06/98	BOBBIN			0.18	02C	+15.23
		06/98	MRPC C/L SI			0.26	02C	+15.08
37	6	06/98	BOBBIN			0.21	05H	+16.50
		06/98	MRPC H/L SI			0.54	05H	+17.08
37	44	06/98	BOBBIN			0.11	03C	+16.18
		06/98	MRPC C/L SI			0.52	03C	+16.34
38	137	06/98	BOBBIN			29.18	TEC	+8.05
39	64	06/98	BOBBIN			0.23	02C	+28.09
		06/98	MRPC C/L SI			0.45	02C	+27.95
39	68	06/98	BOBBIN			0.20	02C	+15.57
39	82	06/98	BOBBIN			0.61	06C	+8.17
		06/98	MRPC C/L SI			0.32	06C	+8.06
39	104	06/98	BOBBIN			0.40	06C	+5.63
40	49	06/98	BOBBIN			0.22	04C	+22.77
41	10	06/98	BOBBIN			0.23	02C	+10.17
		06/98	MRPC C/L SI			0.16	02C	+9.97
41	14	06/98	BOBBIN			0.19	02C	+28.25
		06/98	MRPC C/L SI			0.44	02C	+28.60
45	106	06/98	BOBBIN			0.70	02C	+6.12
45	132	06/98	BOBBIN			0.13	04C	+12.47
		06/98	BOBBIN			0.25	02C	+15.17
		06/98	MRPC C/L SI			0.15	02C	+14.91
46	37	06/98	BOBBIN			0.30	06C	+19.00
		06/98	BOBBIN			0.40	06C	+19.96
		06/98	MRPC C/L SI			0.19	06C	+19.19
		06/98	MRPC C/L SI			0.36	06C	+19.89
47	24	06/98	BOBBIN			0.61	02H	+22.10
		06/98	MRPC H/L SI			0.30	02H	+22.70
49	104	06/98	BOBBIN			0.20	03C	+17.11
		06/98	MRPC C/L SI			0.20	03C	+17.28
51	20	06/98	BOBBIN			0.35	04C	+21.80
		06/98	BOBBIN			0.29	04C	+22.32
		06/98	BOBBIN			0.21	04C	+19.47
		06/98	MRPC C/L SI			0.25	04C	+22.52
		06/98	MRPC C/L SI			0.36	04C	+19.56
		06/98	MRPC C/L SI			0.68	04C	+21.74
51	66	06/98	BOBBIN			0.25	02C	+12.02
		06/98	MRPC C/L SI			0.44	02C	+11.57
51	68	06/98	BOBBIN			0.21	FB6	+1.55
		06/98	MRPC UBEND SI			0.23	FB6	+2.13
51	74	06/98	BOBBIN			0.24	04C	+19.74
		06/98	MRPC C/L SI			0.25	04C	+19.60
51	90	06/98	BOBBIN			0.11	06C	+12.93
		06/98	MRPC C/L SI			0.28	06C	+15.51
51	96	06/98	BOBBIN			0.47	04C	+19.60
		06/98	MRPC C/L SI			0.44	04C	+19.27

FTI TUBAN II (Version 2.3) 04/05/1999 11:39:29
 McGuire N.S. - Unit One Replacement
 S/G C
 06/98 RFO
 BOBBIN,MRPC C/L SI,MRPC H/L SI,MRPC UBEND SI

ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

INDS OF IMPERFECTIONS - SGC
 ROW COL OUTAGE TEST TYPE

IND %TW VOLTS LOCATION

ROW	COL	OUTAGE	TEST TYPE	IND	%TW	VOLTS	LOCATION			
52	75	06/98	BOBBIN	ADI		0.24	06C			+23.46
		06/98	BOBBIN	ODI	1	0.21	06C			+22.53
		06/98	MRPC C/L SI	VOL		0.34	06C			+23.04
		06/98	MRPC C/L SI	VOL		0.37	06C			+22.11
54	13	06/98	BOBBIN	ODI	1	0.10	03C			+21.64
		06/98	MRPC C/L SI	VOL		0.22	03C			+21.78
54	35	06/98	BOBBIN	ODI	1	0.04	TSC			+4.76
55	10	06/98	BOBBIN	ADI		0.21	04C			+19.21
		06/98	MRPC C/L SI	VOL		0.14	04C			+19.74
55	20	06/98	BOBBIN	ODI	1	0.18	06C			+17.20
60	115	06/98	BOBBIN	ODI	9	0.12	01C			+10.13
60	123	06/98	BOBBIN	ODI	7	0.38	05C			+28.40
		06/98	MRPC C/L SI	VOL		0.23	05C			+28.13
61	68	06/98	BOBBIN	NQI		0.15	FB5			+0.72
62	77	06/98	BOBBIN	ODI	14	0.25	01C			+9.86
		06/98	MRPC C/L SI	VOL		0.16	01C			+9.21
63	44	06/98	BOBBIN	ODI	6	0.18	07H			+25.19
		06/98	MRPC H/L SI	VOL		0.43	07H			+25.31
63	62	06/98	BOBBIN	OXF		78.78	TEC		+1.03 to	+3.51
63	70	06/98	BOBBIN	OXF		73.93	TEC		+1.36 to	+2.37
63	78	06/98	BOBBIN	OXF		*****	TEC		+1.22 to	+2.83
63	82	06/98	BOBBIN	ADI		0.12	03C			+29.09
		06/98	BOBBIN	ADI		0.14	02C			+3.85
		06/98	MRPC C/L SI	VOL		0.15	02C			+3.64
64	21	06/98	BOBBIN	ODI	14	0.74	04C			+32.53
		06/98	MRPC C/L SI	VOL		0.39	04C			+32.70
64	25	06/98	BOBBIN	ODI	19	0.30	03H			+8.85
		06/98	MRPC H/L SI	VOL		0.28	03H			+8.70
65	98	06/98	BOBBIN	ADI		0.20	03C			+7.26
		06/98	BOBBIN	ADI		0.31	03H			+6.09
		06/98	BOBBIN	ODI	1	0.33	02C			+34.72
		06/98	BOBBIN	ODI	3	0.17	07C			+6.96
		06/98	MRPC C/L SI	VOL		0.24	03C			+11.08
		06/98	MRPC C/L SI	VOL		0.29	03C			+7.34
		06/98	MRPC C/L SI	VOL		0.32	07C			+6.89
		06/98	MRPC C/L SI	VOL		0.46	02C			+34.79
		06/98	MRPC H/L SI	VOL		0.26	03H			+6.14
66	85	06/98	BOBBIN	ADI		0.21	03C			+23.04
66	101	06/98	BOBBIN	ADI		0.21	04H			+26.00
67	106	06/98	BOBBIN	ODI	7	0.10	07H			+24.95
		06/98	BOBBIN	ODI	11	0.87	07H			+25.88
		06/98	MRPC H/L SI	VOL		0.29	07H			+26.15
		06/98	MRPC H/L SI	VOL		0.32	07H			+25.49
		06/98	MRPC H/L SI	VOL		0.66	07H			+26.16
68	99	06/98	BOBBIN	ADI		0.19	01C			+26.83
		06/98	BOBBIN	ODI	1	0.22	01C			+28.67
		06/98	MRPC C/L SI	VOL		0.16	01C			+25.80
69	88	06/98	BOBBIN	ADI		0.14	02C			+12.64
		06/98	MRPC C/L SI	VOL		0.35	02C			+12.28
70	55	06/98	BOBBIN	ODI	17	0.14	03C			+5.74
		06/98	MRPC C/L SI	VOL		0.27	03C			+5.47
70	107	06/98	BOBBIN	ODI	8	0.25	05H			+26.64
		06/98	MRPC H/L SI	VOL		0.35	05H			+26.58
71	72	06/98	BOBBIN	ODI	1	0.41	02H			+20.97
		06/98	MRPC H/L SI	VOL		0.19	02H			+20.75
73	18	06/98	BOBBIN	ADI		0.21	02H			+25.74
73	74	06/98	BOBBIN	ADI		0.15	03H			+34.37
73	90	06/98	BOBBIN	ODI	1	0.26	03C			+33.14
		06/98	MRPC C/L SI	VOL		0.53	03C			+33.24
73	98	06/98	BOBBIN	ADI		0.17	01C			+19.76
		06/98	MRPC C/L SI	VOL		0.11	01C			+19.22
74	117	06/98	BOBBIN	ODI	15	0.12	TSC			+2.02
		06/98	MRPC C/L SI	VOL		0.21	TSC			+2.04
75	48	06/98	BOBBIN	ODI	1	0.23	09C			+6.13
		06/98	BOBBIN	ODI	1	0.31	08H			+34.03

FTI TUBAN II (Version 2.3) 04/05/1999 11:39:29
 McGuire N.S. - Unit One Replacement
 S/G C
 06/98 RFO
 BOBBIN,MRPC C/L SI,MRPC H/L SI,MRPC UBEND SI

ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

INDS OF IMPERFECTIONS - SGC

ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION	
		06/98	MRPC	H/L SI			0.44	08H	+34.06
75	60	06/98	BOBBIN				0.21	02H	+15.31
		06/98	MRPC	H/L SI			0.22	02H	+15.26
77	22	06/98	BOBBIN				25.67	TEH	+12.88
78	35	06/98	BOBBIN				0.62	08C	+11.65
		06/98	BOBBIN		1		0.13	06C	+5.10
		06/98	MRPC	C/L SI			0.07	06C	+4.83
		06/98	MRPC	C/L SI			0.69	08C	+12.17
79	52	06/98	BOBBIN				0.26	01C	+19.64
		06/98	MRPC	C/L SI			0.25	01C	+19.48
79	68	06/98	BOBBIN				0.42	01C	+12.50
		06/98	MRPC	C/L SI			0.49	01C	+12.43
83	50	06/98	BOBBIN				0.20	05H	+24.16
		06/98	MRPC	H/L SI			0.10	05H	+24.10
85	28	06/98	BOBBIN				0.26	04C	+21.16
85	48	06/98	BOBBIN				0.24	03C	+16.58
		06/98	BOBBIN				0.23	TSC	+18.17
		06/98	MRPC	C/L SI			0.08	TSC	+18.07
		06/98	MRPC	C/L SI			0.38	03C	+15.66
86	55	06/98	BOBBIN				0.24	02H	+27.63
		06/98	MRPC	H/L SI			0.34	02H	+27.99
88	41	06/98	BOBBIN				0.29	05C	+18.44
92	51	06/98	BOBBIN				0.41	04H	+33.77
		06/98	MRPC	H/L SI			0.38	04H	+33.96
92	117	06/98	BOBBIN				0.21	FB4	+6.52
		06/98	MRPC	UBEND SI			3.46	FB4	+6.70
94	67	06/98	BOBBIN				0.22	05C	+16.94
		06/98	MRPC	C/L SI			0.48	05C	+16.93
96	81	06/98	BOBBIN				33.94	TEH	+11.67 to +12.35
96	97	06/98	BOBBIN				0.14	02C	+26.59
97	68	06/98	BOBBIN				0.35	08C	+27.69
98	103	06/98	BOBBIN				0.17	03H	+17.63
99	34	06/98	BOBBIN				6.01	TSC	-0.25
104	67	06/98	BOBBIN				0.37	03C	+10.38
		06/98	MRPC	C/L SI			0.33	03C	+9.74
105	40	06/98	BOBBIN				0.19	04H	+10.73
105	54	06/98	BOBBIN				0.42	04C	+21.90
		06/98	MRPC	C/L SI			0.25	04C	+21.76
106	43	06/98	BOBBIN				0.23	04C	+24.64
		06/98	MRPC	C/L SI			0.35	04C	+24.78
110	71	06/98	BOBBIN				0.29	06C	+23.85
		06/98	MRPC	C/L SI			0.49	06C	+23.22
112	81	06/98	BOBBIN				0.40	02C	+34.45
		06/98	MRPC	C/L SI			0.55	02C	+33.97
112	97	06/98	BOBBIN				0.23	02C	+34.64
		06/98	MRPC	C/L SI			0.38	02C	+34.89
117	84	06/98	BOBBIN				0.14	06C	+32.30

Total Indications Found = 242

Total Tubes Found = 120

FTI TUBAN II (Version 2.3) 04/12/1999 13:55:32
 McGuire N.S. - Unit One Replacement
 S/G D
 06/98 RFO
 BOBBIN,MRPC C/L SI,MRPC H/L SI,MRPC UBEND SI

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

IND	%TW	VOLTS	LOCATION	
2	79	06/98	BOBBIN	ODI 1 1.05 04H +7.00
		06/98	MRPC H/L SI	VOL 0.58 04H +6.90
5	8	06/98	BOBBIN	ODI 1 0.29 01H +30.30
		06/98	MRPC H/L SI	VOL 0.35 01H +30.17
7	140	06/98	BOBBIN	ODI 1 0.47 01H +25.66
9	68	06/98	BOBBIN	VOL 0.36 01H +25.39
		06/98	MRPC H/L SI	ODI 1 0.35 07C +31.42
11	60	06/98	BOBBIN	VOL 0.40 07C +31.12
13	46	06/98	BOBBIN	ODI 1 0.84 04C +4.85
		06/98	MRPC C/L SI	VOL 0.51 04C +4.62
14	95	06/98	BOBBIN	ODI 1 0.15 01C +20.74
		06/98	MRPC C/L SI	VOL 0.16 01C +20.49
15	142	06/98	BOBBIN	ODI 11 0.31 05H +34.52
18	43	06/98	BOBBIN	VOL 0.54 05H +34.35
22	53	06/98	BOBBIN	ADI 0.14 07C +11.69
		06/98	MRPC H/L SI	ODI 1 0.10 06H +29.99
22	131	06/98	BOBBIN	ADI 0.27 04H +32.05 to +34.85
		06/98	BOBBIN	ODI 1 0.10 06H +29.99
23	130	06/98	BOBBIN	ODI 12 0.12 05H +20.07
24	55	06/98	BOBBIN	VOL 0.50 05H +20.08
		06/98	MRPC H/L SI	VOL 0.50 05H +20.08
24	59	06/98	BOBBIN	ODI 1 0.18 04C +20.76
		06/98	BOBBIN	ODI 1 0.30 01H +27.43
		06/98	BOBBIN	ODI 1 0.33 05H +29.72
		06/98	BOBBIN	ODI 1 0.34 04C +19.68
		06/98	MRPC C/L SI	VOL 0.47 04C +20.64
		06/98	MRPC C/L SI	VOL 0.67 04C +19.62
		06/98	MRPC H/L SI	VOL 0.45 05H +29.36
		06/98	MRPC H/L SI	VOL 0.52 01H +27.17
		06/98	MRPC H/L SI	VOL 0.92 05H +27.32
24	65	06/98	BOBBIN	ODI 1 0.46 04C +20.31
25	60	06/98	BOBBIN	VOL 0.69 04C +20.11
		06/98	MRPC C/L SI	ADI 0.17 02H +5.39
25	88	06/98	BOBBIN	ODI 1 0.69 04H +11.49
30	109	06/98	BOBBIN	VOL 0.81 04H +11.50
		06/98	MRPC H/L SI	ODI 1 0.69 04H +11.49
31	134	06/98	BOBBIN	VOL 0.81 04H +11.50
31	136	06/98	BOBBIN	ODI 8 0.34 02H +31.53
32	129	06/98	BOBBIN	VOL 0.86 02H +31.72
34	71	06/98	BOBBIN	ODI 8 0.34 02H +31.53
		06/98	MRPC H/L SI	VOL 0.86 02H +31.72
34	135	06/98	BOBBIN	ODI 8 0.34 02H +31.53
35	138	06/98	BOBBIN	VOL 0.86 02H +31.72
38	21	06/98	BOBBIN	ODI 8 0.34 02H +31.53
38	71	06/98	BOBBIN	VOL 0.86 02H +31.72
		06/98	MRPC H/L SI	ODI 8 0.34 02H +31.53
40	125	06/98	BOBBIN	VOL 0.86 02H +31.72
		06/98	MRPC H/L SI	ODI 8 0.34 02H +31.53
42	71	06/98	BOBBIN	VOL 0.86 02H +31.72
		06/98	MRPC H/L SI	ODI 8 0.34 02H +31.53
44	7	06/98	BOBBIN	VOL 0.86 02H +31.72
		06/98	MRPC H/L SI	ODI 8 0.34 02H +31.53
45	66	06/98	BOBBIN	VOL 0.86 02H +31.72
		06/98	MRPC H/L SI	ODI 8 0.34 02H +31.53
46	127	06/98	BOBBIN	VOL 0.86 02H +31.72
		06/98	MRPC H/L SI	ODI 8 0.34 02H +31.53
47	42	06/98	BOBBIN	VOL 0.86 02H +31.72
47	66	06/98	BOBBIN	ODI 1 0.22 03H +25.22
47	80	06/98	BOBBIN	ODI 5 0.60 04C +10.63
48	23	06/98	BOBBIN	ODI 1 0.41 02H +29.33
		06/98	MRPC C/L SI	VOL 0.56 03H +9.73
		06/98	MRPC C/L SI	ODI 1 0.47 08H +10.87
		06/98	MRPC C/L SI	VOL 0.29 08H +10.38
		06/98	MRPC C/L SI	ODI 1 0.22 03H +25.22
		06/98	MRPC C/L SI	ODI 5 0.60 04C +10.63
		06/98	MRPC C/L SI	ODI 1 0.41 02H +29.33
		06/98	MRPC C/L SI	ODI 1 0.70 06C +26.78
		06/98	MRPC C/L SI	VOL 0.24 06C +26.22

FTI TUBAN II (Version 2.3) 04/12/1999 13:55:32
 McGuire N.S. - Unit One Replacement
 S/G D
 06/98 RFO
 BOBBIN,MRPC C/L SI,MRPC H/L SI,MRPC UBEND SI

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

IND	%TW	VOLTS	LOCATION	
51	14	06/98	BOBBIN	ODI 25.05 TSC -1.15 to -0.04
52	69	06/98	BOBBIN	ODI 1 0.48 03C +3.85
		06/98	MRPC C/L SI	VOL 0.29 03C +3.13
53	32	06/98	BOBBIN	ODI 1 0.27 06H +19.95
53	84	06/98	BOBBIN	ADI 0.15 02H +20.89
		06/98	BOBBIN	ODI 14 0.18 02H +18.90
54	97	06/98	BOBBIN	ADI 0.13 05C +11.43
55	40	06/98	BOBBIN	ODI 39.71 TSC -1.01
56	65	06/98	BOBBIN	ODI 36.04 TSH -0.75 to +0.00
56	93	06/98	BOBBIN	ADI 0.14 04H +14.25
57	72	06/98	BOBBIN	ODI 1 0.14 04H +20.04
		06/98	BOBBIN	ODI 1 0.14 04H +20.04
58	47	06/98	BOBBIN	ODI 1 0.25 04H +25.13
		06/98	BOBBIN	ODI 2 0.17 06H +23.36
		06/98	BOBBIN	ODI 14 0.25 02H +29.14
		06/98	MRPC H/L SI	VOL 0.27 04H +24.32
		06/98	MRPC H/L SI	VOL 0.37 02H +28.66
		06/98	MRPC H/L SI	VOL 0.53 06H +21.40
		06/98	MRPC H/L SI	VOL 0.54 06H +23.08
		06/98	MRPC H/L SI	VOL 0.61 02H +10.19
59	54	06/98	BOBBIN	ODI 29.92 TEH +24.69
		06/98	BOBBIN	ODI 29.92 TEH +24.69
60	17	06/98	BOBBIN	ODI 36.06 TEH +3.70
63	32	06/98	BOBBIN	ODI 30.08 TSH -1.39 to -0.38
63	124	06/98	BOBBIN	ADI 0.27 05C +3.40
		06/98	BOBBIN	ODI 1 0.38 04H +29.49
		06/98	BOBBIN	ODI 1 0.46 08H +23.00
		06/98	MRPC H/L SI	VOL 0.37 04H +29.50
63	130	06/98	BOBBIN	ODI 11 0.10 05H +16.85
64	57	06/98	BOBBIN	ODI 1 0.47 02H +23.12
		06/98	MRPC H/L SI	VOL 0.50 02H +22.42
64	63	06/98	BOBBIN	ODI 1 0.30 05C +17.52
		06/98	MRPC C/L SI	VOL 0.21 05C +17.32
64	71	06/98	BOBBIN	ODI 1 0.23 03C +6.61
64	85	06/98	BOBBIN	ODI 28.22 TEC +20.37
65	74	06/98	BOBBIN	ODI 32.34 TSH -1.10
66	97	06/98	BOBBIN	ODI 1 0.45 06H +27.94
68	43	06/98	BOBBIN	ODI 1 0.33 04C +23.11
69	80	06/98	BOBBIN	ADI 0.27 02C +16.60
70	91	06/98	BOBBIN	ODI 1 0.67 03C +37.78
		06/98	MRPC C/L SI	VOL 0.18 03C +38.00
73	56	06/98	BOBBIN	ODI 1 0.33 08H +30.55
		06/98	MRPC H/L SI	VOL 0.47 08H +29.87
73	96	06/98	BOBBIN	ADI 0.29 FB1 +6.22
		06/98	BOBBIN	ADI 0.31 FB1 +9.15
76	107	06/98	BOBBIN	ODI 25.07 TSC -1.17 to +0.00
79	68	06/98	BOBBIN	ODI 34.32 TSH -0.94 to -0.35
83	98	06/98	BOBBIN	ODI 27.74 TSH -0.65
84	93	06/98	BOBBIN	ODI 1 0.13 03H +19.63
		06/98	BOBBIN	ODI 7 0.09 07H +15.01
		06/98	MRPC C/L SI	VOL 0.49 03C +10.74
		06/98	MRPC H/L SI	VOL 0.32 03H +17.58
		06/98	MRPC H/L SI	VOL 0.52 07H +15.03
		06/98	MRPC H/L SI	VOL 0.55 03H +19.90
		06/98	BOBBIN	ODI 5 0.07 03C +10.32 to +13.12
85	120	06/98	BOBBIN	ADI 0.15 04C +28.22
86	69	06/98	BOBBIN	ODI 35.91 TEC +13.93
		06/98	BOBBIN	ODI 45.64 TSC -1.26
86	103	06/98	BOBBIN	ODI 1 0.57 FB8 +9.32
86	109	06/98	BOBBIN	ADI 0.22 04C +10.76
		06/98	MRPC C/L SI	VOL 0.25 04C +10.78
90	101	06/98	BOBBIN	ODI 1 0.13 06H +24.00
		06/98	BOBBIN	ODI 2 0.27 06C +5.94
		06/98	MRPC C/L SI	VOL 0.63 06C +6.16
		06/98	MRPC H/L SI	VOL 0.23 06H +24.35

FTI TUBAN II (Version 2.3) 04/12/1999 13:55:32
 McGuire N.S. - Unit One Replacement
 S/G D
 06/98 RFO
 BOBBIN,MRPC C/L SI,MRPC H/L SI,MRPC UBEND SI

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ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

INDS OF IMPERFECTIONS - SGD

ROW	COL	OUTAGE	TEST	TYPE	IND	%TW	VOLTS	LOCATION		
91	96	06/98	BOBBIN		ODI	38.37	TEC		+0.00 to	+5.08
93	102	06/98	BOBBIN		ODI	1	0.37	06H	+23.29	
		06/98	MRPC H/L SI		VOL		0.52	06H	+23.64	
95	72	06/98	BOBBIN		ODI	1	0.61	04C	+31.48	
98	45	06/98	BOBBIN		ODI	1	0.31	06C	+20.84	
		06/98	MRPC C/L SI		VOL		0.46	06C	+20.27	
98	71	06/98	BOBBIN		ODI	1	0.30	06C	+18.75	
		06/98	BOBBIN		ODI	1	0.33	02C	+28.48	
		06/98	MRPC C/L SI		VOL		0.48	06C	+18.78	
		06/98	MRPC C/L SI		VOL		0.57	02C	+28.61	
101	48	06/98	BOBBIN		ODI		78.35	TEH	+5.74	
110	63	06/98	BOBBIN		ODI		58.21	TEH	+10.91 to	+20.96
110	71	06/98	BOBBIN		ODI		59.17	TEH	+10.89 to	+21.93
110	97	06/98	BOBBIN		ODI		26.88	TEH	+1.96	
112	67	06/98	BOBBIN		ADI		0.12	05C	+34.04	
116	75	06/98	BOBBIN		ADI		0.18	FB7	+9.46	
		06/98	MRPC C/L SI		VOL		0.26	FB7	+10.53	

Total Indications Found = 147

Total Tubes Found = 81

FTI TUBAN II (Version 2.3)

04/12/1999 16:53:56

McGuire N.S. - Unit One Replacement

S/G A

06/98 RFO

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ATTACHMENT 5 - NO TUBES WERE PLUGGED IN THE 6/98 RFO FOR S/G A
COUNT ROW COL

Total Data Items Found = 0
Total Tubes Found = 0

FTI TUBAN II (Version 2.3)
McGuire N.S. - Unit One Replacement
S/G B
06/98 RFO

04/12/1999 16:50:15

Page 1

ATTACHMENT 6 - TUBES PLUGGED 6/98 RFO
COUNT ROW COL

1. 24 121

Total Data Items Found = 1
Total Tubes Found = 1

FTI TUBAN II (Version 2.3)
McGuire N.S. - Unit One Replacement
S/G C
06/98 RFO

04/12/1999 16:51:05

Page 1

ATTACHMENT 7 - TUBES PLUGGED 6/98 RFO
COUNT ROW COL

1. 51 68

Total Data Items Found = 1
Total Tubes Found = 1

FTI TUBAN II (Version 2.3) 04/12/1999 16:52:51
McGuire N.S. - Unit One Replacement
S/G D
06/98 RFO

Page 1

ATTACHMENT 8 - NO TUBES WERE PLUGGED FOR THE 6/98 RFO IN SGD
COUNT ROW COL

Total Data Items Found = 0
Total Tubes Found = 0