



DUKE POWER

September 26, 1988

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

Subject: McGuire Nuclear Station, Unit 1
Docket No. 50-369
Steam Generator Report

Gentlemen:

Pursuant to McGuire Nuclear Station Technical Specification 4.4.5.5b and 6.9.2, attached is the steam generator tube inspection report for the McGuire Unit 1, fourth refueling outage ISI completed September 26, 1987.

The following quantity of steam generator tubes were inspected from the inlet side of the steam generator.

<u>Steam Generator</u>	<u>Tubes Inspected</u>	
	<u>Full Length</u>	<u>Partial Length</u>
A	510	4548
B	549	4555
C	454	4554
D	582	4523

The following information is submitted concerning tube indications of imperfections. The attached lists identify the tubes with imperfections, their location, and size.

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

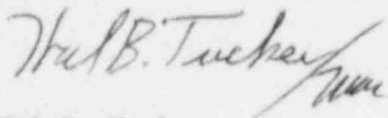
The following quantities of tubes were removed from service. The tubes are identified in the attachments.

AOA7
1/1

<u>Steam Generators</u>	<u>Number of Tubes Plugged</u>	<u>Attachments</u>
A	26	5
B	52	6
C	17	7
D	38	8

If there are any questions concerning this matter, contact S.E. LeRoy at (704) 373-6233.

Very truly yours,



Hal B. Tucker

SEL/333/mmf

Attachment

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NRC Resident Inspector
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MC-801.01

(11)

Plant: McGUIRE UNIT 1
 Outage: SGA 1987

Steam Generator: A

Attachment No. 1

QUERY: Attachment 1 Indications of Imperfections

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	ELEVATION	INCHES
3	37	SSGA 1987	ID (general)	40 % TW	0.00	HTS-P	+16.60
4	22	SSGA 1987	ID (general)	37 % TW	0.00	16	+ 7.50
4	78	SSGA 1987	ID (general)	40 % TW	0.00	HTS-P	+13.10
4	93	SSGA 1987	ID (general)	40 % TW	0.00	HTS-P	+16.90
5	111	SSGA 1987	ID (general)	40 % TW	0.00	HTS-P	+18.80
6	98	SSGA 1987	ID (general)	79 % TW	0.00	HTS-S	
7	30	SSGA 1987	ID (general)	64 % TW	0.00	HTS-P	+18.00
9	63	SSGA 1987	ID (general)	40 % TW	0.00	HTS-P	+16.80
11	110	SSGA 1987	ID (general)	62 % TW	0.00	HTS-P	+17.10
		SSGA 1987	ID (general)	67 % TW	0.00	HTS-P	+16.20
12	46	SSGA 1987	ID (general)	40 % TW	0.00	HTS-P	+ 5.80
12	98	SSGA 1987	ID (general)	40 % TW	0.00	HTS-P	+19.90
13	46	SSGA 1987	ID (general)	54 % TW	0.00	HTS-P	+13.80
		SSGA 1987	ID (general)	40 % TW	0.00	HTS-P	+ 8.50
15	28	SSGA 1987	ID (general)	77 % TW	0.00	HTS-P	+ 8.60
		SSGA 1987	ID (general)	62 % TW	0.00	HTS-P	+ 4.00
15	46	SSGA 1987	ID (general)	40 % TW	0.00	HTS-P	+ 6.70
		SSGA 1987	ID (general)	40 % TW	0.00	HTS-P	+13.30
15	62	SSGA 1987	ID (general)	40 % TW	0.00	HTS-P	+19.80
16	39	SSGA 1987	ID (general)	83 % TW	0.00	HTS-P	+20.00
		SSGA 1987	ID (general)	87 % TW	0.00	HTS-P	+19.00
		SSGA 1987	ID (general)	96 % TW	0.00	HTS-P	+18.00
		SSGA 1987	ID (general)	98 % TW	0.00	HTS-P	+15.90
		SSGA 1987	ID (general)	80 % TW	0.00	HTS-P	+12.10
16	111	SSGA 1987	ID (general)	43 % TW	0.00	HTS-P	+ 8.30
17	47	SSGA 1987	ID (general)	50 % TW	0.00	HTS-P	+ 6.50
17	74	SSGA 1987	ID (general)	41 % TW	0.00	HTS-P	+16.00
19	81	SSGA 1987	ID (general)	55 % TW	0.00	HTS-P	+11.90
19	82	SSGA 1987	ID (general)	41 % TW	0.00	HTS-P	+10.40
19	103	SSGA 1987	ID (general)	40 % TW	0.00	HTS-P	+17.80
20	78	SSGA 1987	ID (general)	40 % TW	0.00	HTS-P	+19.80
20	86	SSGA 1987	ID (general)	40 % TW	0.00	HTS-P	+19.80
20	78	SSGA 1987	ID (general)	40 % TW	0.00	HTS-P	+18.70
20	101	SSGA 1987	ID (general)	40 % TW	0.00	HTS-P	+18.90
20	46	SSGA 1987	ID (general)	40 % TW	0.00	HTS-P	+18.30
20	86	SSGA 1987	ID (general)	93 % TW	0.00	HTS-P	+20.80
		SSGA 1987	ID (general)	89 % TW	0.00	HTS-P	+20.40
		SSGA 1987	ID (general)	88 % TW	0.00	HTS-P	+19.70
		SSGA 1987	ID (general)	40 % TW	0.00	HTS-P	+14.80
30	63	SSGA 1987	ID (general)	84 % TW	0.00	HTS-P	+20.00
30	78	SSGA 1987	ID (general)	40 % TW	0.00	HTS-P	+12.90
31	39	SSGA 1987	ID (general)	40 % TW	0.00	HTS-P	+16.80
34	39	SSGA 1987	ID (general)	40 % TW	0.00	HTS-P	+15.00
37	39	SSGA 1987	ID (general)	76 % TW	0.00	HTS-P	+ 9.00
37	64	SSGA 1987	ID (general)	60 % TW	0.00	HTS-P	+10.00
		SSGA 1987	ID (general)	99 % TW	0.00	HTS-P	+16.40
		SSGA 1987	ID (general)	92 % TW	0.00	HTS-P	+12.70
40	77	SSGA 1987	ID (general)	40 % TW	0.00	HTS-P	+20.80
40	81	SSGA 1987	ID (general)	40 % TW	0.00	HTS-P	+20.80
40	98	SSGA 1987	ID (general)	76 % TW	0.00	HTS-P	+ 9.00
		SSGA 1987	ID (general)	94 % TW	0.00	HTS-P	+ 7.00
		SSGA 1987	ID (general)	90 % TW	0.00	HTS-P	+ 4.00
47	56	SSGA 1987	OD WFDPR	98 % TW	0.00	16	- 0.00
47	58	SSGA 1987	OD WFDPR	91 % TW	0.00	14	- 0.00
47	59	SSGA 1987	OD WFDPR	11 % TW	0.00	14	- 0.00
		SSGA 1987	OD WFDPR	90 % TW	0.00	16	- 0.00
47	60	SSGA 1987	OD WFDPR	90 % TW	0.00	16	- 0.00
47	61	SSGA 1987	OD WFDPR	90 % TW	0.00	16	- 0.00
48	41	SSGA 1987	OD WFDPR	11 % TW	0.00	16	- 0.10
48	54	SSGA 1987	OD WFDPR	90 % TW	0.00	16	- 0.40
48	55	SSGA 1987	OD WFDPR	90 % TW	0.00	16	- 0.00
48	56	SSGA 1987	OD WFDPR	90 % TW	0.00	16	- 0.00
		SSGA 1987	OD WFDPR	93 % TW	0.00	14	- 0.00
		SSGA 1987	OD WFDPR	90 % TW	0.00	16	- 0.00
48	57	SSGA 1987	OD WFDPR	74 % TW	0.00	14	- 0.00
		SSGA 1987	OD WFDPR	74 % TW	0.00	16	- 0.00
		SSGA 1987	OD WFDPR	73 % TW	0.00	17	- 0.10

Plant: McGUIRE UNIT 1
 Outage: SGA 1987

Steam Generator: A

Attachment No. 1

QUERY: Attachment 1 Indications of Imperfections

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	ELEVATION	INCHES
48	60	SGA 1987	OD WEAR	0.01 % TW	0.00	12	- 0.50
		SGA 1987	OD WEAR	0.08 % TW	0.00	14	- 0.60
		SGA 1987	OD WEAR	0.01 % TW	0.00	16	- 0.60
48	61	SGA 1987	OD WEAR	0.06 % TW	0.00	14	- 0.60
		SGA 1987	OD WEAR	0.03 % TW	0.00	16	- 0.60
		SGA 1987	OD WEAR	0.09 % TW	0.00	17	- 0.60
		SGA 1987	OD WEAR	0.00 % TW	0.00	19	- 0.60
48	62	SGA 1987	OD WEAR	0.06 % TW	0.00	16	- 0.90
49	38	SGA 1987	OD WEAR	0.00 % TW	0.00	16	- 0.90
49	40	SGA 1987	OD WEAR	0.01 % TW	0.00	16	- 0.90
		SGA 1987	OD WEAR	0.00 % TW	0.00	17	- 0.40
49	41	SGA 1987	OD WEAR	0.00 % TW	0.00	16	- 0.90
49	42	SGA 1987	OD WEAR	0.03 % TW	0.00	16	- 0.90
49	43	SGA 1987	OD WEAR	0.09 % TW	0.00	16	- 0.90
		SGA 1987	OD WEAR	0.00 % TW	0.00	16	- 0.50
		SGA 1987	OD WEAR	0.00 % TW	0.00	17	- 0.10
49	50	SGA 1987	OD WEAR	0.00 % TW	0.00	16	- 0.10
49	53	SGA 1987	OD WEAR	0.00 % TW	0.00	19	- 0.10
		SGA 1987	OD WEAR	0.04 % TW	0.00	17	- 0.10
		SGA 1987	OD WEAR	0.06 % TW	0.00	16	- 0.10
		SGA 1987	OD WEAR	0.00 % TW	0.00	14	- 0.50
		SGA 1987	OD WEAR	0.01 % TW	0.00	16	- 0.50
49	54	SGA 1987	OD WEAR	0.03 % TW	0.00	16	- 0.10
		SGA 1987	OD WEAR	0.00 % TW	0.00	17	- 0.90
49	57	SGA 1987	OD WEAR	0.00 % TW	0.00	16	- 0.90
		SGA 1987	OD WEAR	0.01 % TW	0.00	17	- 0.90
49	58	SGA 1987	OD WEAR	0.01 % TW	0.00	14	- 0.60
		SGA 1987	OD WEAR	0.08 % TW	0.00	16	- 0.10
		SGA 1987	OD WEAR	0.00 % TW	0.00	17	- 0.90
		SGA 1987	OD WEAR	0.00 % TW	0.00	19	- 0.10
49	62	SGA 1987	OD WEAR	0.01 % TW	0.00	16	- 0.90
		SGA 1987	OD WEAR	0.00 % TW	0.00	14	- 0.90
		SGA 1987	OD WEAR	0.00 % TW	0.00	16	- 0.90
		SGA 1987	OD WEAR	0.00 % TW	0.00	17	- 0.90
		SGA 1987	OD WEAR	0.04 % TW	0.00	19	- 0.90
		SGA 1987	OD WEAR	0.01 % TW	0.00	19	- 0.90
49	63	SGA 1987	OD WEAR	0.01 % TW	0.00	16	- 0.90
		SGA 1987	OD WEAR	0.07 % TW	0.00	14	- 0.90
		SGA 1987	OD WEAR	0.00 % TW	0.00	16	- 0.10
		SGA 1987	OD WEAR	0.03 % TW	0.00	17	- 0.60
49	74	SGA 1987	OD WEAR	0.05 % TW	0.00	16	- 0.60
49	76	SGA 1987	OD WEAR	0.00 % TW	0.00	16	- 0.40

TOTAL TUBES FOUND = 64
 TOTAL INDICATIONS FOUND = 109
 TOTAL TUBES IN INPUT FILE = 4674
 TOTAL TUBES INSPECTED = 4548

Plant: McGUIRE UNIT 1
 Outage: SGB 1987

Steam Generator: B

QUERY: Attachment 2 Indications of Imperfections

Attachment No.2

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	ELEVATION	INCHES
2	39	SGB 1987	ID (general)	40 % TW	0.00	HTS - P	+ 5.20
3	47	SGB 1987	ID (general)	55 % TW	0.00	HTS - P	+ 9.60
5	5	SGB 1987	ID (general)	77 % TW	0.00	HTS - P	+ 9.90
5	38	SGB 1987	ID (general)	61 % TW	0.00	HTS - P	+ 18.80
		SGB 1987	ID (general)	80 % TW	0.00	HTS - P	+ 16.80
		SGB 1987	ID (general)	64 % TW	0.00	HTS - P	+ 10.80
		SGB 1987	ID (general)	40 % TW	0.00	HTS - P	+ 9.60
		SGB 1987	ID (general)	40 % TW	0.00	HTS - P	+ 8.70
7	2	SGB 1987	ID (general)	72 % TW	0.00	HTS - P	+ 8.90
7	2	SGB 1987	ID (general)	43 % TW	0.00	HTS - P	+ 17.10
7	9	SGB 1987	ID (general)	60 % TW	0.00	HTS - P	+ 9.70
7	34	SGB 1987	ID (general)	74 % TW	0.00	HTS - P	+ 29.00
8	36	SGB 1987	ID (general)	46 % TW	0.00	HTS - P	+ 15.70
		SGB 1987	ID (general)	89 % TW	0.00	HTS - P	+ 14.00
		SGB 1987	ID (general)	49 % TW	0.00	HTS - P	+ 29.10
9	30	SGB 1987	ID (general)	60 % TW	0.00	HTS - P	+ 15.00
10	50	SGB 1987	ID (general)	92 % TW	0.00	HTS - P	+ 18.00
10	68	SGB 1987	ID (general)	40 % TW	0.00	HTS - P	+ 3.30
11	61	SGB 1987	ID (general)	40 % TW	0.00	HTS - P	+ 17.90
11	86	SGB 1987	ID (general)	80 % TW	0.00	HTS - P	+ 12.00
14	47	SGB 1987	ID (general)	40 % TW	0.00	HTS - P	+ 11.10
14	53	SGB 1987	ID (general)	65 % TW	0.00	HTS - P	+ 15.10
15	112	SGB 1987	OD (general)	28 % TW	0.00	HTS - P	+ 1.40
16	38	SGB 1987	ID (general)	58 % TW	0.00	HTS - P	+ 17.00
17	70	SGB 1987	ID (general)	40 % TW	0.00	HTS - P	+ 7.30
17	32	SGB 1987	ID (general)	40 % TW	0.00	HTS - P	+ 29.00
17	111	SGB 1987	OD (general)	24 % TW	0.00	HTS - P	+ 2.60
18	31	SGB 1987	ID (general)	40 % TW	0.00	HTS - P	+ 17.70
18	41	SGB 1987	ID (general)	40 % TW	0.00	HTS - P	+ 19.90
		SGB 1987	ID (general)	40 % TW	0.00	HTS - P	+ 17.90
18	44	SGB 1987	ID (general)	55 % TW	0.00	HTS - P	+ 17.90
19	51	SGB 1987	ID (general)	40 % TW	0.00	HTS - P	+ 18.90
19	75	SGB 1987	ID (general)	40 % TW	0.00	HTS - P	+ 29.10
20	11	SGB 1987	ID (general)	40 % TW	0.00	HTS - P	+ 10.80
20	19	SGB 1987	ID (general)	40 % TW	0.00	HTS - P	+ 18.80
21	20	SGB 1987	ID (general)	40 % TW	0.00	HTS - P	+ 18.90
21	32	SGB 1987	ID (general)	83 % TW	0.00	HTS - P	+ 10.90
21	35	SGB 1987	ID (general)	40 % TW	0.00	HTS - P	+ 16.80
21	38	SGB 1987	ID (general)	91 % TW	0.00	HTS - P	+ 10.10
21	42	SGB 1987	ID (general)	40 % TW	0.00	HTS - P	+ 17.80
21	18	SGB 1987	ID (general)	40 % TW	0.00	HTS - P	+ 15.70
21	33	SGB 1987	ID (general)	55 % TW	0.00	HTS - P	+ 10.80
21	53	SGB 1987	ID (general)	46 % TW	0.00	HTS - P	+ 14.00
21	56	SGB 1987	ID (general)	40 % TW	0.00	HTS - P	+ 18.80
21	66	SGB 1987	ID (general)	85 % TW	0.00	HTS - P	+ 14.00
21	16	SGB 1987	ID (general)	40 % TW	0.00	HTS - P	+ 14.00
21	16	SGB 1987	ID (general)	40 % TW	0.00	HTS - P	+ 14.00
21	77	SGB 1987	ID (general)	40 % TW	0.00	HTS - P	+ 14.00
21	77	SGB 1987	ID (general)	40 % TW	0.00	HTS - P	+ 14.00
21	166	SGB 1987	ID (general)	67 % TW	0.00	HTS - P	+ 18.90
21	71	SGB 1987	ID (general)	40 % TW	0.00	HTS - P	+ 17.70
21	85	SGB 1987	ID (general)	64 % TW	0.00	HTS - P	+ 18.90
21		SGB 1987	ID (general)	74 % TW	0.00	HTS - P	+ 18.90

Plant: McGUIRE UNIT 1
 Outage: SGB 1987

Steam Generator: B

QUERY: Attachment 2 Indications of Imperfections

Attachment No. 2

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	ELEVATION	INCHES
31	39	SGB 1987	ID (general)	52 % TW	0.00	HTS-17	+16.80
31	54	SGB 1987	ID (general)	40 % TW	0.00	HTS-17	+11.00
31	59	SGB 1987	ID (general)	71 % TW	0.00	HTS-17	+10.80
31	72	SGB 1987	ID (general)	40 % TW	0.00	HTS-17	+12.60
32	58	SGB 1987	ID (general)	46 % TW	0.00	HTS-17	+10.70
32	76	SGB 1987	ID (general)	40 % TW	0.00	HTS-17	+20.20
33	19	SGB 1987	ID (general)	78 % TW	0.00	HTS-17	+18.10
		SGB 1987	ID (general)	80 % TW	0.00	HTS-17	+17.10
		SGB 1987	ID (general)	53 % TW	0.00	HTS-17	+16.20
		SGB 1987	ID (general)	92 % TW	0.00	HTS-17	+11.10
33	74	SGB 1987	ID (general)	40 % TW	0.00	HTS-17	+19.60
33	82	SGB 1987	ID (general)	71 % TW	0.00	HTS-17	+20.00
		SGB 1987	ID (general)	91 % TW	0.00	HTS-17	+17.00
		SGB 1987	ID (general)	96 % TW	0.00	HTS-17	+14.20
33	83	SGB 1987	ID (general)	80 % TW	0.00	HTS-17	+17.20
		SGB 1987	ID (general)	85 % TW	0.00	HTS-17	+16.20
		SGB 1987	ID (general)	83 % TW	0.00	HTS-17	+12.10
		SGB 1987	ID (general)	87 % TW	0.00	HTS-17	+19.90
33	98	SGB 1987	ID (general)	83 % TW	0.00	HTS-17	+20.10
		SGB 1987	ID (general)	96 % TW	0.00	HTS-17	+19.10
		SGB 1987	ID (general)	97 % TW	0.00	HTS-17	+16.20
34	81	SGB 1987	ID (general)	85 % TW	0.00	HTS-17	+19.00
35	99	SGB 1987	ID (general)	83 % TW	0.00	HTS-17	+ 6.00
35	101	SGB 1987	OD (general)	78 % TW	0.00	2	- 0.40
37	72	SGB 1987	ID (general)	89 % TW	0.00	HTS-17	+20.10
41	20	SGB 1987	ID (general)	67 % TW	0.00	HTS-17	+ 6.20
41	21	SGB 1987	ID (general)	83 % TW	0.00	HTS-17	+13.20
42	30	SGB 1987	ID (general)	50 % TW	0.00	HTS-17	+19.10
		SGB 1987	ID (general)	78 % TW	0.00	HTS-17	+15.10
43	30	SGB 1987	ID (general)	64 % TW	0.00	HTS-17	+19.10
44	82	SGB 1987	ID (general)	83 % TW	0.00	HTS-17	+ 3.10
49	40	SGB 1987	OD W/AR	22 % TW	0.00	17	- 0.10
49	52	SGB 1987	OD W/AR	22 % TW	0.00	19	- 0.20
		SGB 1987	OD W/AR	21 % TW	0.00	17	+ 0.30
		SGB 1987	OD W/AR	25 % TW	0.00	14	+ 0.10
49	57	SGB 1987	OD W/AR	21 % TW	0.00	19	
		SGB 1987	OD W/AR	21 % TW	0.00	17	

TOTAL TUBES FOUND = 73
 TOTAL INDICATIONS FOUND = 104
 TOTAL TUBES IN INPUT FILE = 4674
 TOTAL TUBES INSPECTED = 4555

Plant: McGUIRE UNIT 1
 Outage: SGC 1987

Steam Generator: C

QUERY: Attachment 3 Indications of Imperfections

Attachment No. 3

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	ELEVATION	INCHES
3	61	SGC 1987	ID (general)	61 % TW	5.49	HTS-0	+17.20
3	104	SGC 1987	ID (general)	87 % TW	6.31	HTS-0	+15.20
5	55	SGC 1987	ID (general)	57 % TW	5.36	HTS-0	+20.00
6	59	SGC 1987	ID (general)	58 % TW	5.31	HTS-0	+17.20
6	68	SGC 1987	ID (general)	61 % TW	4.90	HTS-0	+18.20
		SGC 1987	ID (general)	75 % TW	8.00	HTS-0	+17.20
11	37	SGC 1987	ID (general)	40 % TW	1.77	HTS-0	+14.80
12	67	SGC 1987	ID (general)	70 % TW	4.99	HTS-0	+20.40
		SGC 1987	ID (general)	96 % TW	11.49	HTS-0	+19.00
14	74	SGC 1987	ID (general)	52 % TW	7.68	HTS-0	+17.90
14	78	SGC 1987	ID (general)	33 % TW	15.72	HTS-0	+ 1.30
14	98	SGC 1987	ID (general)	67 % TW	3.56	HTS-0	+14.10
17	33	SGC 1987	ID (general)	40 % TW	9.16	HTS-0	+11.80
17	35	SGC 1987	ID (general)	58 % TW	10.40	HTS-0	+ 6.80
17	61	SGC 1987	ID (general)	44 % TW	4.63	HTS-0	+11.90
17	63	SGC 1987	ID (general)	74 % TW	6.80	HTS-0	+16.00
17	64	SGC 1987	ID (general)	92 % TW	7.04	HTS-0	+15.90
17	70	SGC 1987	ID (general)	40 % TW	3.73	HTS-0	+19.90
18	70	SGC 1987	ID (general)	40 % TW	6.24	HTS-0	+ 8.10
19	108	SGC 1987	ID (general)	57 % TW	5.18	HTS-0	+16.10
27	57	SGC 1987	ID (general)	100 % TW	21.51	HTS-0	+21.20
27	82	SGC 1987	ID (general)	49 % TW	3.18	HTS-0	+19.90
		SGC 1987	ID (general)	89 % TW	13.17	HTS-0	+19.00
		SGC 1987	ID (general)	81 % TW	5.73	HTS-0	+18.00
28	66	SGC 1987	ID (general)	52 % TW	6.52	HTS-0	+19.00
		SGC 1987	ID (general)	67 % TW	6.46	HTS-0	+18.00
		SGC 1987	ID (general)	87 % TW	5.21	HTS-0	+16.00
36	91	SGC 1987	ID (general)	40 % TW	4.71	HTS-0	+19.90
49	39	SGC 1987	OD WDR	00 % TW	1.46	16	- 0.10
49	41	SGC 1987	OD WDR	01 % TW	1.69	17	- 0.10
		SGC 1987	OD WDR	06 % TW	3.11	16	- 0.10
49	71	SGC 1987	OD WDR	05 % TW	1.56	16	- 0.10
49	74	SGC 1987	OD WDR	09 % TW	4.00	16	- 0.20
		SGC 1987	OD WDR	11 % TW	1.65	14	- 0.70
49	75	SGC 1987	OD WDR	08 % TW	4.00	16	- 0.20
49	79	SGC 1987	OD WDR	03 % TW	2.14	16	- 0.20

TOTAL TUBES FOUND = 38
 TOTAL INDICATIONS FOUND = 36
 TOTAL TUBES IN INPUT FILE = 4674
 TOTAL TUBES INSPECTED = 4554

Plant: McGUIRE UNIT 1
 Outage: SGD 1987

Steam Generator: D

QUERY: Attachment 4 Indications of Imperfections

Attachment No.4

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	ELEVATION	INCHES
27	65	SGD 1987	ID (general)	40 % TW	0.00	HTS-p	+18.40
27	69	SGD 1987	ID (general)	75 % TW	0.00	HTS-p	+3.60
29	46	SGD 1987	ID (general)	54 % TW	0.00	HTS-p	+12.00
29	58	SGD 1987	ID (general)	95 % TW	0.00	HTS-p	+16.00
29	67	SGD 1987	ID (general)	80 % TW	0.00	HTS-p	+11.30
29	88	SGD 1987	ID (general)	51 % TW	0.00	HTS-p	+12.20
30	33	SGD 1987	ID (general)	77 % TW	0.00	HTS-p	+18.30
30	43	SGD 1987	ID (general)	48 % TW	0.00	HTS-p	+6.40
30	44	SGD 1987	ID (general)	84 % TW	0.00	HTS-p	+17.10
30	61	SGD 1987	ID (general)	59 % TW	0.00	HTS-p	+6.50
30	62	SGD 1987	ID (general)	40 % TW	0.00	HTS-p	+17.50
30	68	SGD 1987	ID (general)	93 % TW	0.00	HTS-p	+13.40
30	77	SGD 1987	ID (general)	51 % TW	0.00	HTS-p	+12.80
31	14	SGD 1987	ID (general)	93 % TW	0.00	HTS-p	+12.40
31	38	SGD 1987	ID (general)	42 % TW	0.00	HTS-p	+15.10
31	43	SGD 1987	ID (general)	45 % TW	0.00	HTS-p	+10.10
31	70	SGD 1987	ID (general)	54 % TW	0.00	HTS-p	+4.40
32	24	SGD 1987	ID (general)	70 % TW	0.00	HTS-p	+20.00
32	30	SGD 1987	ID (general)	87 % TW	0.00	HTS-p	+13.00
32	53	SGD 1987	ID (general)	97 % TW	0.00	HTS-p	+13.10
36	31	SGD 1987	ID (general)	72 % TW	0.00	HTS-p	+15.20
36	43	SGD 1987	ID (general)	40 % TW	0.00	HTS-p	+10.70
36	61	SGD 1987	ID (general)	70 % TW	0.00	HTS-p	+19.20
37	26	SGD 1987	ID (general)	48 % TW	0.00	HTS-p	+11.10
37	63	SGD 1987	ID (general)	72 % TW	0.00	HTS-p	+12.50
38	24	SGD 1987	ID (general)	72 % TW	0.00	HTS-p	+14.20
39	34	SGD 1987	ID (general)	68 % TW	0.00	HTS-p	+18.10
39	52	SGD 1987	ID (general)	90 % TW	0.00	HTS-p	+13.30
39	75	SGD 1987	ID (general)	91 % TW	0.00	HTS-p	+11.30
40	41	SGD 1987	ID (general)	59 % TW	0.00	HTS-p	+18.00
43	53	SGD 1987	ID (general)	51 % TW	0.00	HTS-p	+5.10
43	60	SGD 1987	ID (general)	65 % TW	0.00	HTS-p	+3.00
44	43	SGD 1987	ID (general)	62 % TW	0.00	HTS-p	+15.80
45	75	SGD 1987	ID (general)	70 % TW	0.00	HTS-p	+18.90
46	63	SGD 1987	ID (general)	91 % TW	0.00	HTS-p	+17.00
47	82	SGD 1987	OD WEAR	21 % TW	0.00	15	
48	69	SGD 1987	OD WEAR	21 % TW	0.00	18	- 0.10
48	82	SGD 1987	OD WEAR	21 % TW	0.00	15	
49	38	SGD 1987	OD WEAR	22 % TW	0.00	16	- 0.10
49	62	SGD 1987	ID (general)	56 % TW	0.00	HTS-p	+14.10
49	69	SGD 1987	OD WEAR	21 % TW	0.00	17	+ 0.20
49	74	SGD 1987	OD WEAR	21 % TW	0.00	17	- 0.20
49		SGD 1987	OD WEAR	31 % TW	0.00	16	- 0.10
49	75	SGD 1987	OD WEAR	20 % TW	0.00	17	- 0.10
49		SGD 1987	OD WEAR	32 % TW	0.00	16	- 0.10
49	78	SGD 1987	OD WEAR	22 % TW	0.00	17	- 0.40
49	79	SGD 1987	OD WEAR	21 % TW	0.00	17	- 0.20
49	80	SGD 1987	OD WEAR	22 % TW	0.00	17	- 0.50
49	81	SGD 1987	OD WEAR	21 % TW	0.00	17	- 0.50

TOTAL TUBES FOUND = 110
 TOTAL INDICATIONS FOUND = 116
 TOTAL TUBES IN INPUT FILE = 4674
 TOTAL TUBES INSPECTED = 4523

Plant: McGUIRE UNIT 1
 Outage: SGA 1987

Steam Generator: A

QUERY: Attachment 5 Tubes Plugged

Attachment No. 5

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	ELEVATION	INCHES
3	37	SGA 1987	PLUGGED	MECH		HTS-P	
5	111	SGA 1987	PLUGGED	MECH		HTS-P	
6	98	SGA 1987	PLUGGED	MECH		HTS-P	
7	30	SGA 1987	PLUGGED	MECH		HTS-P	
11	110	SGA 1987	PLUGGED	MECH		HTS-P	
12	98	SGA 1987	PLUGGED	MECH		HTS-P	
15	62	SGA 1987	PLUGGED	MECH		HTS-P	
16	39	SGA 1987	PLUGGED	MECH		HTS-P	
17	74	SGA 1987	PLUGGED	MECH		HTS-P	
19	82	SGA 1987	PLUGGED	MECH		HTS-P	
19	103	SGA 1987	PLUGGED	MECH		HTS-P	
20	78	SGA 1987	PLUGGED	MECH		HTS-P	
20	86	SGA 1987	PLUGGED	MECH		HTS-P	
20	28	SGA 1987	PLUGGED	MECH		HTS-P	
23	78	SGA 1987	PLUGGED	MECH		HTS-P	
23	101	SGA 1987	PLUGGED	MECH		HTS-P	
29	86	SGA 1987	PLUGGED	MECH		HTS-P	
29	63	SGA 1987	PLUGGED	MECH		HTS-P	
31	39	SGA 1987	PLUGGED	MECH		HTS-P	
34	29	SGA 1987	PLUGGED	MECH		HTS-P	
36	26	SGA 1987	PLUGGED	MECH		HTS-P	
37	64	SGA 1987	PLUGGED	MECH		HTS-P	
40	77	SGA 1987	PLUGGED	MECH		HTS-P	
40	82	SGA 1987	PLUGGED	MECH		HTS-P	
42	81	SGA 1987	PLUGGED	MECH		HTS-P	
49	63	SGA 1987	PLUGGED	MECH		HTS-P	

TOTAL TUBES FOUND = 26
 TOTAL INDICATIONS FOUND = 26
 TOTAL TUBES IN INPUT FILE = 4674
 TOTAL TUBES INSPECTED = 4548

Plant: McGUIRE UNIT 1
 Outage: SGB 1987

Steam Generator: B

Attachment No.6

QUERY: Attachment 6 Tubes Plugged

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	ELEVATION	INCHES
2	14	SGB 1987	PLUGGED	MECH		HTS	-p
5	38	SGB 1987	PLUGGED	MECH		HTS	-p
6	6	SGB 1987	PLUGGED	MECH		HTS	-p
6	46	SGB 1987	PLUGGED	MECH		HTS	-p
7	34	SGB 1987	PLUGGED	MECH		HTS	-p
8	38	SGB 1987	PLUGGED	MECH		HTS	-p
9	30	SGB 1987	PLUGGED	MECH		HTS	-p
10	28	SGB 1987	PLUGGED	MECH		HTS	-p
10	52	SGB 1987	PLUGGED	MECH		HTS	-p
10	68	SGB 1987	PLUGGED	MECH		HTS	-p
11	65	SGB 1987	PLUGGED	MECH		HTS	-p
13	55	SGB 1987	PLUGGED	MECH		HTS	-p
14	53	SGB 1987	PLUGGED	MECH		HTS	-p
17	69	SGB 1987	PLUGGED	MECH		HTS	-p
17	82	SGB 1987	PLUGGED	MECH		HTS	-p
18	41	SGB 1987	PLUGGED	MECH		HTS	-p
18	44	SGB 1987	PLUGGED	MECH		HTS	-p
19	75	SGB 1987	PLUGGED	MECH		HTS	-p
20	69	SGB 1987	PLUGGED	MECH		HTS	-p
21	32	SGB 1987	PLUGGED	MECH		HTS	-p
21	35	SGB 1987	PLUGGED	MECH		HTS	-p
21	70	SGB 1987	PLUGGED	MECH		HTS	-p
23	16	SGB 1987	PLUGGED	MECH		HTS	-p
23	30	SGB 1987	PLUGGED	MECH		HTS	-p
23	38	SGB 1987	PLUGGED	MECH		HTS	-p
23	54	SGB 1987	PLUGGED	MECH		HTS	-p
23	56	SGB 1987	PLUGGED	MECH		HTS	-p
23	72	SGB 1987	PLUGGED	MECH		HTS	-p
23	73	SGB 1987	PLUGGED	MECH		HTS	-p
23	25	SGB 1987	PLUGGED	MECH		HTS	-p
23	43	SGB 1987	PLUGGED	MECH		HTS	-p
23	49	SGB 1987	PLUGGED	MECH		HTS	-p
26	69	SGB 1987	PLUGGED	MECH		HTS	-p
31	39	SGB 1987	PLUGGED	MECH		HTS	-p
33	76	SGB 1987	PLUGGED	MECH		HTS	-p
33	74	SGB 1987	PLUGGED	MECH		HTS	-p
33	82	SGB 1987	PLUGGED	MECH		HTS	-p
33	83	SGB 1987	PLUGGED	MECH		HTS	-p
33	98	SGB 1987	PLUGGED	MECH		HTS	-p
34	81	SGB 1987	PLUGGED	MECH		HTS	-p
34	95	SGB 1987	PLUGGED	MECH		HTS	-p
35	101	SGB 1987	PLUGGED	MECH		HTS	-p
36	67	SGB 1987	PLUGGED	MECH		HTS	-p
36	74	SGB 1987	PLUGGED	MECH		HTS	-p
37	72	SGB 1987	PLUGGED	MECH		HTS	-p
39	97	SGB 1987	PLUGGED	MECH		HTS	-p
42	30	SGB 1987	PLUGGED	MECH		HTS	-p
42	41	SGB 1987	PLUGGED	MECH		HTS	-p
42	78	SGB 1987	PLUGGED	MECH		HTS	-p
42	30	SGB 1987	PLUGGED	MECH		HTS	-p
46	88	SGB 1987	PLUGGED	MECH		HTS	-p
49	81	SGB 1987	PLUGGED	MECH		HTS	-p

TOTAL TUBES FOUND = 52
 TOTAL INDICATIONS FOUND = 52
 TOTAL TUBES IN INPUT FILE = 4674
 TOTAL TUBES INSPECTED = 4555

Plant: McGUIRE UNIT 1
 Outage: SGC 1987

Steam Generator: C

Attachment No.7

QUERY: Attachment 7 Tubes Plugged

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	ELEVATION	INCHES
----	----	----	----	----	----	----	----
3	104	SGC 1987	PLUGGED	MECH		HTS-D	
6	55	SGC 1987	PLUGGED	MECH		HTS-D	
6	59	SGC 1987	PLUGGED	MECH		HTS-D	
12	67	SGC 1987	PLUGGED	MECH		HTS-D	
17	63	SGC 1987	PLUGGED	MECH		HTS-D	
17	64	SGC 1987	PLUGGED	MECH		HTS-D	
17	70	SGC 1987	PLUGGED	MECH		HTS-D	
19	108	SGC 1987	PLUGGED	MECH		HTS-D	
24	73	SGC 1987	PLUGGED	MECH		HTS-D	
27	49	SGC 1987	PLUGGED	MECH		HTS-D	
27	55	SGC 1987	PLUGGED	MECH		HTS-D	
27	57	SGC 1987	PLUGGED	MECH		HTS-D	
27	82	SGC 1987	PLUGGED	MECH		HTS-D	
28	49	SGC 1987	PLUGGED	MECH		HTS-D	
28	66	SGC 1987	PLUGGED	MECH		HTS-D	
36	91	SGC 1987	PLUGGED	MECH		HTS-D	
39	47	SGC 1987	PLUGGED	MECH		HTS-D	

TOTAL TUBES FOUND = 17
 TOTAL INDICATIONS FOUND = 17
 TOTAL TUBES IN INPUT FILE = 4674
 TOTAL TUBES INSPECTED = 4554

Plant: McGUIRE UNIT 1
 Outage: SGD 1987

Steam Generator: D

QUERY: Attachment 8 Tubes Plugged

Attachment No.8

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	ELEVATION	INCHES
2	33	SGD 1987	PLUGGED	MECH		HTS-D	
2	42	SGD 1987	PLUGGED	MECH		HTS-D	
3	60	SGD 1987	PLUGGED	MECH		HTS-D	
3	29	SGD 1987	PLUGGED	MECH		HTS-D	
3	41	SGD 1987	PLUGGED	MECH		HTS-D	
3	65	SGD 1987	PLUGGED	MECH		HTS-D	
4	73	SGD 1987	PLUGGED	MECH		HTS-D	
4	76	SGD 1987	PLUGGED	MECH		HTS-D	
5	65	SGD 1987	PLUGGED	MECH		HTS-D	
6	64	SGD 1987	PLUGGED	MECH		HTS-D	
7	50	SGD 1987	PLUGGED	MECH		HTS-D	
7	83	SGD 1987	PLUGGED	MECH		HTS-D	
8	36	SGD 1987	PLUGGED	MECH		HTS-D	
8	84	SGD 1987	PLUGGED	MECH		HTS-D	
8	95	SGD 1987	PLUGGED	MECH		HTS-D	
9	10	SGD 1987	PLUGGED	MECH		HTS-D	
9	46	SGD 1987	PLUGGED	MECH		HTS-D	
11	32	SGD 1987	PLUGGED	MECH		HTS-D	
15	90	SGD 1987	PLUGGED	MECH		HTS-D	
16	73	SGD 1987	PLUGGED	MECH		HTS-D	
17	49	SGD 1987	PLUGGED	MECH		HTS-D	
17	86	SGD 1987	PLUGGED	MECH		HTS-D	
18	86	SGD 1987	PLUGGED	MECH		HTS-D	
18	90	SGD 1987	PLUGGED	MECH		HTS-D	
19	8	SGD 1987	PLUGGED	MECH		HTS-D	
20	77	SGD 1987	PLUGGED	MECH		HTS-D	
24	68	SGD 1987	PLUGGED	MECH		HTS-D	
26	39	SGD 1987	PLUGGED	MECH		HTS-D	
26	50	SGD 1987	PLUGGED	MECH		HTS-D	
27	65	SGD 1987	PLUGGED	MECH		HTS-D	
29	58	SGD 1987	PLUGGED	MECH		HTS-D	
31	43	SGD 1987	PLUGGED	MECH		HTS-D	
32	24	SGD 1987	PLUGGED	MECH		HTS-D	
36	61	SGD 1987	PLUGGED	MECH		HTS-D	
37	47	SGD 1987	PLUGGED	MECH		HTS-D	
37	61	SGD 1987	PLUGGED	MECH		HTS-D	
44	43	SGD 1987	PLUGGED	MECH		HTS-D	
49	52	SGD 1987	PLUGGED	MECH		HTS-D	

TOTAL TUBES FOUND = 38
 TOTAL INDICATIONS FOUND = 38
 TOTAL TUBES IN INPUT FILE = 4674
 TOTAL TUBES INSPECTED = 4523