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DUKE POWER

November 16, 1992

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

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

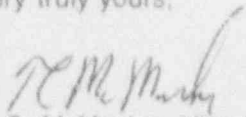
Pursuant to McGuire Technical Specification 4.4.5.5a and 4.4.5.5c, this report is submitted for McGuire Unit 1, EOC-7 Refueling Outage. The following quantity of tubes were inspected and plugged or repaired from either side of the generator:

<u>Steam Generator</u>	<u>Tubes Inspected</u> <u>Full Length</u>	<u>Number of Tubes</u> <u>Plugged or Repaired</u>
A	4472	172
B	4398	118
C	4393	108
D	4399	141

Information concerning tube indications of imperfections, locations, and size are provided as attachments 1, 2, 3 and 4. Tubes removed from service by plugging and repaired by sleeving are identified in attachments 5, 6, 7 and 8.

Questions or problems should be directed to Kay Crane, Regulatory Compliance at (704) 875-4306.

Very truly yours,

  
T. C. McMeekin, Vice President  
McGuire Nuclear Station

Attachments

30-100

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PDR ADOCK 05000369  
Q PDR

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cc: T. A. Reed, Project Manager  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Mr. S. D. Ebner, Regional Administrator  
U. S. Nuclear Regulatory Commission  
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101 Marietta Street, NW - Suite 2900  
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Mr. P. K. VanDoorn  
Senior Resident Inspector  
McGuire Nuclear Site

R. O. Sharpe

Plant: McGUIRE UNIT 1 Steam Generator: A  
Outages: 09/91 RFO 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 1 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
2	1	09/91 RFO	ID (general)	S/N	5.46	HTS-P	+ 5.66
2	35	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.04
2	54	09/91 RFO	ID (general)	10 % TW	0.81	7	+ 0.20
		09/91 SI	ID (general)	S/N	1.80	8	+ 5.96
2	57	09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.08
2	71	09/91 RFO	ID (general)	40 % TW	3.36	HTS-S	
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.04
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 0.04
2	75	09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.08
2	80	09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.12
2	87	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.08
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.08
2	88	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.04
2	104	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
3	33	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.55
3	50	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.04
3	55	09/91 RFO	ID (general)	40 % TW	13.81	HTS-P	+ 1.57
3	86	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.12
3	89	09/91 TS	ID (general)	S/N	0.24	HTS-S	- 0.04
4	46	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.08
4	65	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.04
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.08
4	72	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.08
4	78	09/91 RFO	ID (general)	S/N	7.52	HTS-P	+13.11
4	80	09/91 TS	ID (general)	S/N	0.28	HTS-S	- 0.08
4	93	09/91 RFO	ID (general)	S/N	1.34	HTS-P	+16.89
4	95	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.04
4	96	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.08
4	101	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.12
4	105	09/91 TS	ID (general)	S/N	0.16	HTS-S	
5	8	09/91 RFO	ID (general)	S/N	0.80	1	+13.06
5	36	09/91 RFO	ID (general)	S/N	0.49	5	+ 0.08
5	63	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.08
5	75	09/91 TS	ID (general)	S/N	0.12	HTS-S	
5	78	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.04
5	98	09/91 TS	ID (general)	S/N	0.16	HTS-S	
5	106	09/91 RFO	ID (general)	S/N	2.42	HTS-P	+12.82
		09/91 TS	ID (general)	S/N	0.32	CTS-S	- 1.78
		09/91 TS	ID (general)	S/N	0.12	CTS-S	- 1.90
		09/91 TS	ID (general)	S/N	0.08	CTS-S	- 1.94
5	108	09/91 RFO	ID (general)	S/N	2.18	HTS-P	+15.79
5	112	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.28	HTS-S	- 3.15
6	60	09/91 RFO	ID (general)	S/N	1.60	HTS-P	+16.84
6	84	09/91 RFO	ID (general)	S/N	0.48	2	+ 0.08
6	87	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.08
6	105	09/91 RFO	ID (general)	S/N	0.46	4	
7	54	09/91 TS	ID (general)	S/N	0.28	HTS-S	+ 0.20
		09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.08
7	78	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.04
7	87	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.04
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.04
7	94	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.04
7	110	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.16
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
8	20	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.17
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 0.19
8	41	09/91 RFO	ID (general)	S/N	0.90	CTS-S	+ 9.12
		09/91 SI	ID (general)	S/N	1.17	CTS-S	+ 9.16
8	83	09/91 TS	ID (general)	S/N	0.28	HTS-S	- 0.04
9	11	09/91 RFO	ID (general)	S/N	0.84	11	+ 2.95
9	21	09/91 RFO	ID (general)	1 % TW	0.19	6	
9	29	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.04
9	33	09/91 RFO	ID (general)	1 % TW	0.23	5	
9	63	09/91 RFO	ID (general)	S/N	2.70	HTS-P	+16.78

Plant: McGuire UNIT 1 Steam Generator: A  
Outages: 09/91 RFO 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 1 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
9	86	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.08
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.04
9	88	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.02
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.02
9	92	09/91 RFO	ID (general)	40 % TW	1.81	HTS-S	
		09/91 TS	ID (general)	S/N	0.32	HTS-S	- 0.06
9	97	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
9	101	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.03
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.07
10	18	09/91 RFO	OD (general)	S/N	0.26	3	- 0.05
10	21	09/91 RFO	OD (general)	S/N	0.82	1	
		09/91 SI	OD (general)	S/N	0.10	1	
10	37	09/91 RFO	OD (general)	S/N	0.24	3	+ 0.08
10	60	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.07
10	68	09/91 RFO	ID (general)	40 % TW	3.04	HTS-S	
		09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.08
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.08
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.04
		09/91 TS	ID (general)	S/N	0.08	HTS-S	- 0.03
10	70	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.11
10	76	09/91 TS	ID (general)	S/N	0.28	HTS-S	+ 0.12
10	83	09/91 TS	ID (general)	S/N	0.24	HTS-S	- 0.03
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.03
10	104	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.12
11	22	09/91 RFO	OD (general)	1 % TW	0.14	1	
11	57	09/91 TS	ID (general)	S/N	0.28	HTS-S	+ 0.16
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
11	61	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.01
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.01
11	72	09/91 RFO	OD (general)	S/N	0.37	9	+34.39
11	112	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.12
12	33	09/91 RFO	OD (general)	1 % TW	0.28	5	
12	59	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 1.04
12	79	09/91 TS	ID (general)	S/N	0.32	HTS-S	
12	105	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
13	25	09/91 TS	ID (general)	S/N	0.28	HTS-S	- 1.11
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 1.11
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 1.11
13	64	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.07
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.07
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.03
13	108	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.11
14	45	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 2.56
14	73	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.07
14	78	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.08
14	97	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.03
14	105	09/91 TS	ID (general)	S/N	0.28	HTS-S	+ 0.11
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.01
14	111	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.14
15	52	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.12
15	65	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.04
15	83	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.05
16	29	09/91 TS	ID (general)	S/N	0.08	HTS-S	+ 0.28
16	66	09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.08
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.08
16	70	09/91 SLV	OD (general)	S/N	0.93	HTS-P	+16.21
16	71	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.12
16	76	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.05
16	83	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.04
		09/91 TS	ID (general)	S/N	0.28	HTS-S	+ 0.04
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.04
16	85	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.16

Plant: McGUIRE UNIT 1 Steam Generator: A  
Outages: 09/91 RFO 09/91 SLV 09/91 TS 09/91 SI

## QUERY: ATTACHMENT 1 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
16	92	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.08
16	95	09/91 RFO	ID (general)	S/N	1.53	HTS-P	+ 9.77
16	111	09/91 SLV	ID (general)	S/N	13.63	HTS-P	+ 8.50
17	100	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.03
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.05
1P	60	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.05
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.01
18	61	09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.07
		09/91 TS	ID (general)	S/N	0.04	HTS-S	- 0.14
18	62	09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.08
18	86	09/91 RFO	ID (general)	58 % TW	9.99	HTS-P	+17.17
		09/91 TS	ID (general)	S/N	0.39	HTS-S	- 3.73
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 3.89
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 3.89
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.93
		09/91 TS	ID (general)	S/N	0.14	HTS-S	- 3.93
19	58	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.06
19	68	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.01
1	84	09/91 TS	ID (general)	S/N	0.22	HTS-S	- 0.13
		09/91 TS	ID (general)	S/N	0.13	HTS-S	- 0.17
20	83	09/91 TS	ID (general)	S/N	0.39	HTS-S	- 3.28
20	89	09/91 TS	ID (general)	S/N	0.22	HTS-S	+ 0.09
		09/91 TS	ID (general)	S/N	0.17	HTS-S	+ 0.09
		09/91 TS	ID (general)	S/N	0.17	HTS-S	+ 0.04
		09/91 TS	ID (general)	S/N	0.17	HTS-S	+ 0.04
21	47	09/91 RFO	OD (general)	S/N	0.36		+10.27
		09/91 SI	OD (general)	S/N	0.29		+11.10
21	64	09/91 RFO	ID (general)	S/N	1.79	HTS-P	+16.95
		09/91 RFO	ID (general)	S/N	2.60	HTS-P	+17.87
		09/91 RFO	ID (general)	S/N	1.15	HTS-P	+18.84
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.12
		05/91 TS	ID (general)	S/N	0.16	HTS-S	- 1.22
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 2.17
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 2.21
		09/91 TS	ID (general)	S/N	0.51	HTS-S	- 2.99
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 3.15
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 3.15
21	72	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.04
21	75	09/91 TS	ID (general)	S/N	0.16	HTS-S	
21	78	09/91 RFO	ID (general)	S/N	1.61	HTS-P	+14.18
21	82	09/91 RFO	ID (general)	S/N	2.50	HTS-P	+13.02
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.32
21	105	09/91 RFO	ID (general)	S/N	0.97	HTS-P	+13.30
22	54	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.12
22	72	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.02
22	86	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 3.41
23	59	09/91 RFO	OD (general)	S/N	1.38		+ 6.55
23	65	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.05
23	68	09/91 TS	ID (general)	S/N	0.24	HTS-S	- 0.19
23	70	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.04
24	56	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
24	57	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.16
24	61	09/91 RFO	ID (general)	40 % TW	2.73	HTS-S	
		09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.15
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.11
24	76	09/91 RFO	OD (general)	1 % TW	0.30		
24	78	09/91 RFO	OD (general)	19 % TW	0.14		
		09/91 SI	OD (general)	S/N	0.58		- 0.14
24	100	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.01
24	105	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.12
25	62	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.15
		09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.12
26	46	09/91 RFO	ID (general)	S/N	2.81	HTS-P	+10.51
26	60	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.13
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.06
26	67	09/91 RFO	OD WEAR	40 % TW	2.36	AVB3	
26	79	09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.12

Plant: McGUIRE UNIT 1 Steam Generator: A  
Outages: 09/91 RFO 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 1 INDICATIONS OF IMPERFECTIONS

RDV	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
26	62	09/91 RFO	ID (general)	S/N	5.24	HTS-P	+15.89
26	84	09/91 RFO	ID (general)	S/N	12.61	HTS-P	+13.60
		09/91 RFO	ID (general)	S/N	3.88	HTS-P	+14.58
27	39	09/91 RFO	OD WEAR	14 % TW	0.49	AVB2	
27	65	09/91 TS	ID (general)	S/N	0.16	HTS-S	
		09/91 TS	ID (general)	S/N	0.16	HTS-S	
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.04
27	68	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.04	HTS-S	+ 0.08
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.04
27	71	09/91 RFO	ID (general)	S/N	1.26	CTS-P	+15.55
		09/91 SLV	OD (general)	S/N	1.60	HTS-P	+ 1.83
27	75	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.07
		09/91 TS	ID (general)	S/N	0.21	HTS-S	+ 0.07
27	76	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.04
		09/91 TS	ID (general)	S/N	0.08	HTS-S	+ 0.04
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.04
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.04
		09/91 TS	ID (general)	S/N	0.08	HTS-S	- 0.04
27	77	09/91 RFO	OD WEAR	16 % TW	0.57	AVB1	
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 0.06
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.13
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.13
		09/91 TS	ID (general)	S/P	0.16	HTS-S	- 0.13
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.17
28	43	09/91 RFO	OD WEAR	21 % TW	0.85	AVB2	
28	67	09/91 RFO	OD WEAR	19 % TW	0.74	AVR2	
28	75	09/91 RFO	OD WEAR	16 % TW	0.59	AVB1	
28	76	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.20
28	81	09/91 RFO	OD WEAR	19 % TW	0.70	AVB1	
29	52	09/91 RFO	OD WEAR	20 % TW	0.79	AVB2	
29	62	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.04
29	64	09/91 TS	ID (general)	S/N	0.16	HTS-S	
		09/91 TS	ID (general)	S/N	0.16	HTS-S	
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.04
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.04
29	65	09/91 RFO	ID (general)	S/N	1.45	HTS-P	+10.61
29	66	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.08
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.08
29	68	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
29	70	09/91 TS	ID (general)	S/N	0.37	HTS-S	
29	71	09/91 TS	ID (general)	S/N	0.08	HTS-S	+ 0.08
29	77	09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.20
29	78	09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.12
29	80	09/91 RFO	ID (general)	S/N	1.59	HTS-P	+13.04
		09/91 SI	ID (general)	S/N	1.94	HTS-P	+11.83
29	83	09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.08
29	84	09/91 TS	ID (general)	S/N	0.28	HTS-S	+ 0.04
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.04
29	94	09/91 RFO	OD (general)	16 % TW	0.79	9	+ 5.88
29	104	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.04
30	41	09/91 RFO	OD WEAR	19 % TW	0.71	AVB3	
30	61	09/91 TS	ID (general)	S/N	0.28	HTS-S	+ 0.19
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.15
30	68	09/91 TS	ID (general)	S/N	0.28	HTS-S	+ 0.16
30	71	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.04
30	72	09/91 RFO	OD WEAR	17 % TW	0.63	AVR3	
30	74	09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.16
30	77	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.20
30	78	09/91 RFO	ID (general)	S/N	1.45	HTS-P	+12.87
		09/91 TS	ID (general)	S/N	0.32	HTS-S	- 2.26
		09/91 TS	ID (general)	S/N	0.28	HTS-S	- 2.26
30	81	09/91 TS	ID (general)	S/N	0.28	HTS-S	
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.04
30	83	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.08
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.08

Plant: McGuire UNIT 1 Steam Generator: A  
 Outages: 09/91 RFO 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 1 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.03
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.04
31	41	09/91 RFO	OD WEAR	20 % TW	0.75	AVB2	
31	44	09/91 RFO	OD WEAR	22 % TW	0.91	AVB3	
31	72	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.11
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.11
31	79	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.04
31	89	09/91 TS	ID (general)	S/N	0.04	HTS-S	+ 0.34
31	98	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.18
31	99	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.21
32	39	09/91 RFO	OD (general)	S/N	0.43	2	+ 0.20
32	0	09/91 RFO	OD (general)	S/N	0.50	1	+ 0.05
		09/91 SI	OD (general)	S/N	0.15		
32	67	09/91 TS	ID (general)	S/N	0.32	HTS-S	+ 0.16
32	101	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.18
33	42	09/91 RFO	OD (general)	77 % TW	1.30	8	+ 1.44
33	50	09/91 TS	ID (general)	S/N	0.04	HTS-S	- 0.08
33	52	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.04
33	58	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.08
33	59	09/91 RFO	OD (general)	S/N	0.55	3	+ 0.08
33	94	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.08
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.04
34	46	09/91 RFO	OD (general)	S/N	0.34	1	
		09/91 SI	OD (general)	S/N	0.40	1	
34	47	09/91 RFO	OD (general)	S/N	0.39	1	
34	67	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.01
34	86	09/91 TS	ID (general)	S/N	0.12	HTS-S	- 1.06
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 1.06
		09/91 TS	ID (general)	S/N	0.08	HTS-S	- 1.10
35	40	09/91 RFO	OD WEAR	12 % TW	0.40	AVB3	
35	44	09/91 RFO	OD (general)	S/N	0.52	8	+ 1.66
35	55	09/91 RFO	OD WEAR	21 % TW	0.85	AVB1	
35	59	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.11
35	71	09/91 RFO	OD (general)	20 % TW	0.57	8	+ 1.79
		09/91 SI	OD (general)	S/N	0.30	8	+ 1.74
35	72	09/91 TS	ID (general)	S/N	0.04	CTS-S	+ 0.83
35	74	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.03
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.07
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.07
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.07
35	81	09/91 RFO	ID (general)	S/N	1.63	CTS-P	+ 2.95
35	79	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.09
36	34	09/91 RFO	OD WEAR	12 % TW	0.40	AVB1	
36	35	09/91 RFO	OD WEAR	17 % TW	0.65	AVB2	
36	60	09/91 RFO	OD (general)	S/N	0.53	16	
36	77	09/91 TS	ID (general)	S/N	0.32	HTS-S	- 0.82
		09/91 TS	ID (general)	S/N	0.32	HTS-S	- 0.82
36	83	09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.11
36	85	09/91 TS	ID (general)	S/N	0.28	HTS-S	- 0.49
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.52
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.52
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 0.56
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.56
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.60
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.60
37	16	09/91 RFO	OD WEAR	17 % TW	0.62	AVB1	
		09/91 RFO	OD WEAR	19 % TW	0.72	AVB2	
		09/91 RFO	OD WEAR	19 % TW	0.72	AVB3	
37	29	09/91 RFO	ID (general)	S/N	5.61	HTS-P	+ 9.77
37	69	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.08
37	73	09/91 RFO	OD (general)	S/N	0.11	5	+ 0.11
37	76	09/91 RFO	OD (general)	S/N	0.18	16	
37	82	09/91 RFO	OD (general)	S/N	0.15	17	+ 0.02
38	47	09/91 RFO	OD WEAR	16 % TW	0.56	AVB2	
38	78	09/91 RFO	ID (general)	S/N	5.36	HTS-S	- 0.77
		09/91 TS	ID (general)	S/N	0.04	HTS-S	- 0.91



Plant: McGuire Unit 1 Steam Generator: A  
 Outages: 09/91 RFO 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 1 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
		09/91 TS	ID (general)	S/N	0.04	HTS-S	+ 0.95
		09/91 TS	ID (general)	S/N	0.04	HTS-S	+ 0.95
38	93	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
39	58	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.14
39	72	09/91 RFO	ID (general)	40 % TW	2.42	HTS-S	
		09/91 TS	ID (general)	S/N	0.35	HTS-S	+ 0.16
40	51	09/91 RFO	OD WEAR	30 % TW	1.42	AVB1	
40	54	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
40	72	09/91 RFO	OD (general)	S/N	0.51	6	
40	81	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.07
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.02
40	86	09/91 RFO	OD WEAR	16 % TW	0.60	AVB1	
		09/91 RFO	OD WEAR	16 % TW	0.59	AVB1	
		09/91 RFO	OD WEAR	21 % TW	0.85	AVB3	
41	45	09/91 RFO	OD (general)	14 % TW	3.66	10	+13.06
41	54	09/91 RFO	OD WEAR	19 % TW	0.72	AVR1	
		09/91 RFO	OD WEAR	26 % TW	1.10	AV	
41	59	09/91 RFO	OD WEAR	31 % TW	1.46	AVB	
41	85	09/91 TS	ID (general)	S/N	0.24	HTS-S	0.87
42	25	09/91 RFO	ID (general)	18 % TW	1.40	13	+ 1.82
42	55	09/91 RFO	OD (general)	S/N	0.28	1	
		09/91 SI	OD (general)	S/N	0.06	1	+ 0.03
42	57	09/91 RFO	OD WEAR	19 % TW	0.72	AVB1	
42	80	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 1.18
43	57	09/91 RFO	OD WEAR	26 % TW	1.12	AVB1	
43	80	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.24
45	86	09/91 RFO	OD WEAR	12 % TW	1.21	18	
46	59	09/91 RFO	OD WEAR	8 % TW	0.77	16	
46	72	09/91 RFO	OD WEAR	16 % TW	1.29	18	
47	56	09/91 RFO	OD WEAR	30 % TW	3.71	16	
47	58	09/91 RFO	OD WEAR	20 % TW	2.32	14	
47	59	09/91 RFO	OD WEAR	13 % TW	1.34	16	
		09/91 RFO	OD WEAR	18 % TW	1.88	14	
47	60	09/91 RFO	OD WEAR	10 % TW	1.00	14	
		09/91 RFO	OD WEAR	17 % TW	1.77	16	
47	61	09/91 RFO	OD WEAR	20 % TW	2.16	16	
		09/91 RFO	OD WEAR	15 % TW	1.55	14	
47	64	09/91 RFO	OD (general)	6 % TW	0.39	2	+ 5.17
47	77	09/91 RFO	OD (general)	17 % TW	0.79	16	+ 0.14
48	38	09/91 RFO	OD WEAR	13 % TW	1.24	16	
48	41	09/91 RFO	OD WEAR	13 % TW	1.23	16	
48	53	09/91 RFO	OD WEAR	14 % TW	1.27	17	
48	54	09/91 RFO	OD WEAR	27 % TW	2.96	16	
48	55	09/91 RFO	OD WEAR	16 % TW	1.54	16	
48	56	09/91 RFO	OD WEAR	20 % TW	2.08	12	
		09/91 RFO	OD WEAR	25 % TW	2.76	14	
		09/91 RFO	OD WEAR	21 % TW	2.10	16	
		09/91 RFO	OD WEAR	13 % TW	1.25	17	
48	62	09/91 RFO	OD WEAR	22 % TW	3.12	16	
49	37	06/91 RFO	OD WEAR	10 % TW	0.93	16	
49	38	09/91 RFO	OD WEAR	19 % TW	1.97	16	
49	40	09/91 RFO	OD WEAR	21 % TW	2.76	16	
		09/91 RFO	OD WEAR	17 % TW	1.71	17	
49	41	09/91 RFO	OD WEAR	21 % TW	2.16	16	
49	42	09/91 RFO	OD WEAR	24 % TW	2.59	16	
49	43	09/91 RFO	OD WEAR	21 % TW	2.19	15	
		09/91 RFO	OD WEAR	22 % TW	2.30	16	
		09/91 RFO	OD WEAR	19 % TW	1.96	17	
49	50	09/91 RFO	OD WEAR	22 % TW	2.29	16	
49	53	09/91 RFO	OD WEAR	14 % TW	1.30	12	
		09/91 RFO	OD WEAR	17 % TW	1.61	14	
		09/91 RFO	OD WEAR	28 % TW	3.24	16	
		09/91 RFO	OD WEAR	23 % TW	2.43	17	
		09/91 RFO	OD WEAR	23 % TW	2.43	19	
49	54	09/91 RFO	OD WEAR	21 % TW	2.16	16	
		09/91 RFO	OD WEAR	18 % TW	1.83	17	
49	57	09/91 RFO	OD WEAR	17 % TW	1.64	14	



Plant: MCGUIRE UNIT 1 Steam Generator: A  
 Outages: 09/91 RFO 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 1 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
		09/91 RFO	OD WEAR	23 % TW	2.37	16	
		09/91 RFO	OD WEAR	19 % TW	1.87	17	
49	66	09/91 TS	ID (general)	S/N	0.28	CTS-S	+ 1.14
		09/91 TS	ID (general)	S/N	0.08	CTS-S	+ 1.10
49	67	09/91 TS	ID (general)	S/N	0.12	CTS-S	+ 0.95
49	68	09/91 TS	ID (general)	S/N	0.12	CTS-S	+ 0.91
49	69	09/91 TS	ID (general)	S/N	0.12	CTS-S	+ 1.02
49	70	09/91 TS	ID (general)	S/N	0.12	CTS-S	+ 0.98
49	71	09/91 TS	ID (general)	S/N	0.20	CTS-S	+ 0.91
49	73	09/91 TS	ID (general)	S/N	0.12	CTS-S	+ 0.83
49	74	09/91 RFO	OD WEAR	26 % TW	2.98	16	
49	76	09/91 RFO	OD (general)	S/N	0.77	16	- 0.23
TOTAL TUBES FOUND				=	269		
TOTAL INDICATIONS FOUND				=	454		

Plant: McGUIRE UNIT 1 Steam Generator: B  
Outages 09/91 RFO 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 2 INDICATIONS OF IMPERFECTIONS

ROW	C.J.	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
2	4	09/91 RFO	ID (general)	S/N	1.92	HTS-P	+ 5.63
2	26	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.24
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.20
2	39	09/91 RFO	ID (general)	S/N	11.86	HTS-P	+ 5.19
		09/91 TS	ID (general)	S/N	0.04	HTS-S	- 0.08
2	47	09/91 RFO	ID (general)	S/N	18.59	HTS-P	+ 2.57
2	56	09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.04
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.04
2	63	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.04
2	94	09/91 RFO	ID (general)	65 % TW	2.11	HTS-P	+11.70
3	1	09/91 RFO	ID (general)	65 % TW	6.51	HTS-P	+ 9.17
3	5	09/91 RFO	ID (general)	S/N	17.83	HTS-P	+10.53
3	24	09/91 RFO	OD (general)	19 % TW	0.15	4	
3	47	09/91 RFO	ID (general)	45 % TW	5.81	HTS-P	+ 8.01
3	95	09/91 RFO	ID (general)	S/N	2.39	HTS-P	+ 6.73
		09/91 RFO	ID (general)	S/N	1.84	HTS-P	+ 6.20
3	97	09/91 RFO	OD (general)	1 % TW	2.34	7	+ 9.41
		09/91 SI	OD (general)	S/N	4.41	7	+ 8.40
3	98	09/91 RFO	OD (general)	4 % TW	0.30	4	+11.48
		09/91 SI	OD (general)	S/N	0.17	4	+11.60
4	1	09/91 RFO	ID (general)	S/N	10.31	HTS-P	+ 9.33
4	15	09/91 TS	ID (general)	S/N	0.24	HTS-S	- 0.50
4	78	09/91 TS	ID (general)	S/N	0.24	HTS-S	- 0.91
4	102	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.09
5	6	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.20
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.12
5	7	09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.16
5	78	09/91 RFO	OD (general)	S/N	0.64	4	+11.48
		09/91 SI	OD (general)	S/N	1.48	4	+11.58
6	34	09/91 RFO	ID (general)	S/N	2.99	HTS-P	+11.36
6	35	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.20
6	39	09/91 TS	ID (general)	S/N	0.16	HTS-S	
6	42	09/91 TS	ID (general)	S/N	0.12	HTS-S	
6	45	09/91 RFO	ID (general)	S/N	2.21	HTS-P	+12.11
6	53	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.20
6	90	09/91 TS	ID (general)	S/N	0.20	HTS-S	
7	2	09/91 RFO	ID (general)	69 % TW	9.21	HTS-P	+ 9.14
7	9	09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.08
7	22	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 2.85
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 2.85
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 2.85
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 2.85
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 2.85
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 2.89
7	23	09/91 RFO	ID (general)	48 % TW	6.55	HTS-P	+17.18
7	29	09/91 RFO	ID (general)	80 % TW	9.60	HTS-P	+10.57
7	42	09/91 RFO	ID (general)	40 % TW	4.93	HTS-P	+17.22
7	78	09/91 RFO	ID (general)	40 % TW	3.72	HTS-S	
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.12
8	35	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
8	43	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.16
8	46	09/91 RFO	ID (general)	55 % TW	6.45	HTS-P	+16.18
8	56	09/91 RFO	ID (general)	43 % TW	7.48	HTS-P	+14.18
8	58	09/91 RFO	ID (general)	40 % TW	4.69	HTS-P	+15.35
8	68	09/91 RFO	ID (general)	40 % TW	5.76	HTS-S	
		09/91 RFO	OD (general)	S/N	0.48	2	+ 0.13
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.16
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.16
		09/91 TS	ID (general)	S/N	0.32	HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.28	HTS-S	+ 0.08
		09/91 TS	ID (general)	S/N	0.04	HTS-S	+ 0.08
		09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.04
		09/91 TS	ID (general)	S/N	0.04	HTS-S	- 0.16
		09/91 SI	OD (general)	S/N	0.64	2	
3	69	09/91 RFO	OD (general)	63 % TW	0.72	2	+ 0.05

Plant: McGuire UNIT 1 Steam Generator: B  
 Outages: 09/91 RFO 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 2 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
		09/91 SI	OD (general)	S/N	1.69	2	
9	3	09/91 RFO	ID (general)	S/N	1.38	HTS-P	+ 7.31
9	67	09/91 TS	ID (general)	S/N	0.22	HTS-S	+ 0.18
10	37	09/91 TS	ID (general)	S/N	0.20	CTS-S	+ 0.16
10	50	09/91 RFO	ID (general)	S/N	2.44	HTS-P	+14.80
10	64	09/91 TS	ID (general)	S/N	0.22	HTS-S	+ 0.04
10	65	09/91 RFO	ID (general)	S/N	1.58	HTS-P	+ 4.70
		09/91 TS	ID (general)	S/N	0.14	HTS-S	- 0.04
11	30	09/91 RFO	ID (general)	S/N	4.56	HTS-P	+ 5.87
11	52	09/91 RFO	ID (general)	S/N	2.93	HTS-P	+10.94
11	61	09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.04
11	79	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 2.10
		09/91 TS	ID (general)	S/N	0.71	HTS-S	- 2.22
		09/91 TS	ID (general)	S/N	0.35	HTS-S	- 2.22
11	86	09/91 RFO	ID (general)	S/P	9.06	HTS-P	+17.95
		09/91 TS	ID (general)	S/N	0.35	HTS-S	- 3.01
		09/91 TS	ID (general)	S/N	0.32	HTS-S	- 3.01
		09/91 TS	ID (general)	S/N	0.32	HTS-S	- 3.01
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 3.01
		09/91 TS	ID (general)	S/N	0.28	HTS-S	- 3.04
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 3.04
11	89	09/91 TS	ID (general)	S/N	0.28	HTS-S	- 2.33
11	99	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.20
11	102	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 3.67
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 3.67
12	18	09/91 RFO	ID (general)	S/N	4.75	HTS-P	+12.06
12	29	09/91 RFO	ID (general)	74 % TW	8.48	HTS-P	+ 3.07
12	74	09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.04
12	78	09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.04
12	84	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.07
13	5	09/91 RFO	OD (general)	S/N	0.35	2	+ 0.15
13	41	09/91 SLV	ID (general)	S/N	6.20	HTS-P	+ 7.75
13	47	09/91 RFO	ID (general)	S/N	4.72	HTS-P	+ 4.12
13	82	09/91 TS	ID (general)	S/N	0.35	HTS-S	- 0.39
13	98	09/91 RFO	ID (general)	S/N	17.48	HTS-P	+ 1.64
13	106	09/91 RFO	OD (general)	S/N	0.33	1	- 0.03
14	28	09/91 TS	ID (general)	S/N	0.28	HTS-S	- 1.10
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 1.14
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 1.18
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 1.18
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 1.18
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 1.18
		09/91 TS	ID (general)	S/N	0.04	HTS-S	- 1.22
14	34	09/91 RFO	OD (general)	S/N	0.35	2	+ 0.02
14	41	09/91 RFO	ID (general)	S/N	3.29	HTS-P	+13.90
14	42	09/91 RFO	ID (general)	S/N	3.43	HTS-P	+16.97
14	46	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 1.97
14	47	09/91 RFO	ID (general)	S/N	7.68	HTS-P	+ 5.55
		09/91 RFO	ID (general)	S/N	5.24	HTS-P	+11.48
		09/91 RFO	ID (general)	S/N	9.37	HTS-P	+12.43
14	68	09/91 TS	ID (general)	S/P	0.24	HTS-S	- 1.55
14	73	09/91 RFO	OD (general)	S/N	0.37	3	+ 0.08
		09/91 SI	OD (general)	S/N	0.38	3	
14	78	09/91 TS	ID (general)	S/N	0.12	HTS-S	- 2.33
		09/91 RFO	OD (general)	S/N	0.60	1	- 0.07
15	15	09/91 RFO	ID (general)	56 % TW	2.03	HTS-P	+15.73
15	38	09/91 RFO	ID (general)	S/N	18.88	HTS-P	+17.10
16	111	09/91 RFO	OD (general)	S/N	0.84	5	+ 3.08
17	70	09/91 RFO	ID (general)	S/N	11.49	HTS-P	+ 7.72
18	9	09/91 RFO	OD (general)	S/N	0.25	1	
		09/91 SI	OD (general)	S/N	0.05	1	
18	10	09/91 TS	ID (general)	S/P	0.20	HTS-S	+ 0.04
18	83	09/91 TS	ID (general)	S/N	0.24	HTS-S	- 2.05
19	31	09/91 RFO	ID (general)	S/N	1.38	HTS-P	+14.90
19	32	09/91 RFO	ID (general)	S/N	1.78	HTS-P	+16.81
20	6	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.24

Plan: McGuire UNIT 1 Steam Generator: 8  
 Outages: 09/91 RFO 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 2 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
20	11	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.20
20	14	09/91 RFO	ID (general)	S/N	14.38	HTS-P	+16.02
		09/91 SI	OC (general)	S/N	0.89	2	+ 0.02
		09/91 TS	OC (general)	S/N	0.28	2	
20	32	09/91 RFO	ID (general)	S/N	4.36	HTS-P	+ 6.35
20	35	09/91 RFO	ID (general)	S/N	0.82	HTS-P	+18.85
		09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 2.15
20	39	09/91 RFO	ID (general)	S/N	1.47	HTS-P	+15.94
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.08
20	102	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.55
21	19	09/91 RFO	ID (general)	S/N	4.64	HTS-P	+16.94
		09/91 RFO	CD (general)	17 % TW	0.36	10	+27.75
21	25	09/91 RFO	ID (general)	S/N	2.61	HTS-P	+11.25
21	27	09/91 SLV	ID (general)	S/N	6.58	HTS-P	+14.52
21	31	09/91 RFO	ID (general)	S/N	2.17	HTS-P	+15.02
21	38	09/91 RFO	OD (general)	16 % TW	0.49	CTS-S	+25.28
		09/91 SI	OD (general)	S/N	1.65	CTS-S	+24.62
21	42	09/91 RFO	ID (general)	S/N	1.78	HTS-P	+17.79
		09/91 TS	ID (general)	S/N	0.28	HTS-S	+ 3.08
		09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 3.12
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 3.12
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 3.12
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 3.16
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 3.20
21	56	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.98
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.98
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.98
22	10	09/91 RFO	ID (general)	S/N	1.66	HTS-P	+ 9.58
22	12	09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.08
22	18	09/91 RFO	ID (general)	83 % TW	10.31	HTS-P	+ 5.73
		09/91 RFO	ID (general)	S/N	1.62	HTS-P	+16.04
22	33	09/91 RFO	ID (general)	S/N	4.32	HTS-P	+11.07
22	52	09/91 RFO	ID (general)	S/N	2.68	HTS-P	+16.23
22	63	09/91 TS	ID (general)	S/N	0.12	HTS-S	
22	67	09/91 RFO	ID (general)	S/N	2.73	HTS-P	+12.79
22	70	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.59
		09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.63
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.67
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.67
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.71
22	93	09/91 RFO	ID (general)	S/N	11.59	HTS-P	+13.08
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 2.93
23	20	09/91 RFO	ID (general)	S/N	1.77	HTS-P	+14.98
		09/91 RFO	ID (general)	S/N	2.35	HTS-P	+10.17
23	23	09/91 RFO	ID (general)	S/N	1.77	HTS-P	+ 4.71
		09/91 RFO	ID (general)	S/N	13.32	HTS-P	+ 9.19
		09/91 RFO	ID (general)	S/N	3.11	HTS-P	+10.35
		09/91 RFO	ID (general)	S/N	5.06	HTS-P	+11.53
		09/91 RFO	ID (general)	S/N	13.87	HTS-P	+12.59
		09/91 RFO	ID (general)	S/N	11.65	HTS-P	+14.80
		09/91 RFO	ID (general)	S/N	4.47	HTS-P	+15.98
		09/91 RFO	ID (general)	S/N	7.32	HTS-P	+17.10
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.04
23	26	09/91 RFO	ID (general)	S/N	2.47	HTS-P	+13.75
23	37	09/91 RFO	ID (general)	S/N	1.50	HTS-P	+12.03
		09/91 TS	ID (general)	S/N	0.16	HTS-S	
23	41	09/91 RFO	ID (general)	S/N	2.68	HTS-P	+15.24
23	45	09/91 RFO	ID (general)	S/N	1.73	HTS-P	+10.58
23	61	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.16
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
23	68	09/91 TS	ID (general)	S/N	0.32	HTS-S	+ 2.42
23	82	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.79
		09/91 TS	ID (general)	S/N	0.32	HTS-S	+ 0.79
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.79
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.83
24	18	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.24
24	23	09/91 RFO	OD (general)	71 % TW	0.86	1	+ 0.98

Plant: McGUIRE UNIT 1 Steam Generator: B  
Outages: 09/91 RFO 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 2 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
24	25	09/91 RFO	ID (general)	S/N	3.31	HTS-P	+17.75
		09/91 TS	ID (general)	S/N	0.32	HTS-S	- 3.13
		09/91 SI	ID (general)	S/N	2.36	HTS-S	- 3.29
24	28	09/91 RFO	ID (general)	58 % TW	8.59	HTS-P	+ 9.32
24	39	09/91 SLV	ID (general)	S/N	3.62	HTS-P	+ 9.66
24	43	09/91 TS	ID (general)	S/N	0.04	HTS-S	- 0.12
24	46	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.08
24	50	09/91 RFO	ID (general)	S/N	1.56	HTS-P	+15.24
24	88	09/91 RFO	OD (general)	S/N	0.37	1	+ 0.13
		09/91 SI	OD (general)	S/N	0.39	1	
25	38	09/91 TS	ID (general)	S/N	0.32	HTS-S	+ 0.12
25	92	05/91 RFO	ID (general)	S/N	4.01	HTS-P	+13.72
26	8	09/91 RFO	OD WEAR	17 % TW	0.89	AVB2	
26	21	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.20
26	49	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.16
26	53	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.16
26	62	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 1.92
26	80	09/91 TS	ID (general)	S/N	0.24	HTS-S	- 2.92
26	87	09/91 RFO	ID (general)	S/N	1.72	HTS-P	+12.18
27	8	09/91 RFO	OD (general)	21 % TW	0.56	6	+34.78
27	16	09/91 RFO	ID (general)	S/N	16.21	HTS-P	+11.15
27	22	09/91 SLV	ID (general)	S/N	6.20	HTS-P	+ 6.08
27	43	09/91 TS	ID (general)	S/N	0.24	HTS-S	- 1.27
27	74	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.04
28	15	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 2.21
28	24	09/91 RFO	OD (general)	S/N	0.36	1	+ 0.05
28	68	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
28	71	09/91 RFO	ID (general)	S/N	3.48	HTS-P	+17.51
		09/91 TS	ID (general)	S/N	0.35	HTS-S	+ 0.16
		09/91 TS	ID (general)	S/N	0.35	HTS-S	- 2.97
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 3.01
		09/91 TS	ID (general)	S/N	0.28	HTS-S	- 3.01
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 3.05
28	85	09/91 RFO	ID (general)	88 % TW	7.56	HTS-P	+11.45
		05/91 RFO	ID (general)	S/N	2.52	HTS-P	+14.47
		09/91 RFO	ID (general)	85 % TW	8.21	HTS-P	+18.22
		09/91 TS	ID (general)	S/N	0.35	HTS-S	- 2.82
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 2.90
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 2.94
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 2.94
29	57	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.08
29	63	09/91 TS	ID (general)	S/N	0.24	HTS-S	
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.04
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.04
29	74	09/91 TS	ID (general)	S/N	0.24	HTS-S	- 2.39
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 2.50
30	35	05/91 RFO	OD WEAR	22 % TW	0.77	AVB2	
30	55	09/91 RFO	ID (general)	S/N	6.01	HTS-P	+ 1.37
30	57	09/91 TS	ID (general)	S/N	0.16	HTS-S	
30	61	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.12
31	13	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.16
31	15	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.16
31	30	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.16
31	54	09/91 SLV	ID (general)	S/N	3.73	HTS-P	+11.21
31	56	09/91 RFO	ID (general)	S/N	2.40	HTS-P	+14.09
31	59	09/91 RFO	ID (general)	S/N	4.34	HTS-P	+11.13
31	69	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.16
31	79	09/91 TS	ID (general)	S/N	0.24	HTS-S	- 2.09
32	21	09/91 RFO	OD (general)	S/N	0.43	1	+ 0.05
		09/91 SI	OD (general)	S/N	0.24	1	
32	53	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.04
32	56	09/91 TS	ID (general)	S/N	0.28	HTS-S	- 3.32
32	68	09/91 TS	ID (general)	S/N	0.32	HTS-S	+ 0.20
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.16
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12

Plant: McGuire Unit 1 Steam Generator: B  
 Outages: 07/91 RFO 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 2 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
33	19	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
		09/91 RFO	ID (general)	S/N	5.02	HTS-P	+ 0.93
		09/91 RFO	ID (general)	S/N	3.09	HTS-P	+11.44
		09/91 RFO	ID (general)	S/N	1.61	HTS-P	+12.26
		09/91 RFO	ID (general)	S/N	2.20	HTS-P	+13.21
		09/91 RFO	ID (general)	S/N	3.12	HTS-P	+17.13
		09/91 RFO	ID (general)	44 % TW	4.82	HTS-P	+15.30
		09/91 RFO	ID (general)	S/N	3.66	HTS-P	+16.24
		09/91 RFO	ID (general)	72 % TW	4.63	HTS-P	+18.20
		09/91 TS	ID (general)	S/N	0.20	HTS-S	
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 2.91
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 2.91
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 2.91
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 2.91
		09/91 TS	ID (general)	S/N	0.04	HTS-S	- 2.95
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 2.95
33	52	09/91 RFO	OD (general)	S/N	0.64	6	+17.68
		09/91 SI	OD (general)	S/N	1.32	6	+18.20
33	66	09/91 RFO	ID (general)	S/N	5.98	HTS-P	+ 6.08
33	75	09/91 TS	ID (general)	S/N	0.12	CTS-S	+ 0.91
33	100	09/91 RFO	OD WEAR	18 % TW	0.95	AVB2	
33	102	09/91 RFO	OD (general)	1 % TW	1.22	2	+31.48
34	15	09/91 RFO	OD (general)	S/N	0.66	1	+ 0.07
34	24	09/91 RFO	ID (general)	S/N	5.29	HTS-P	+ 1.36
34	30	09/91 RFO	OD WEAR	16 % TW	0.80	AVB2	
34	55	09/91 RFO	ID (general)	S/N	2.27	HTS-P	+13.26
		09/91 TS	ID (general)	S/N	0.12	HTS-S	
34	57	09/91 RFO	ID (general)	S/N	5.79	HTS-P	+14.21
34	64	09/91 RFO	ID (general)	S/N	1.87	HTS-P	+11.06
34	77	09/91 RFO	OD (general)	S/N	0.27	2	+ 0.03
34	86	09/91 RFO	OD (general)	S/N	0.68	AVG1	+20.17
35	39	09/91 RFO	ID (general)	S/N	2.40	HTS-P	+13.79
35	41	09/91 SLV	ID (general)	S/N	2.82	HTS-P	+12.03
35	47	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
35	48	09/91 RFO	OD WEAR	17 % TW	3.53	AVB1	
35	50	09/91 RFO	OD (general)	S/N	0.42	1	+ 0.03
35	53	09/91 RFO	OD WEAR	24 % TW	1.38	AVB2	
35	54	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.12
35	75	09/91 RFO	OD WEAR	18 % TW	0.57	AVB3	
35	78	09/91 RFO	OD WEAR	26 % TW	1.65	AVB3	
35	99	09/91 RFO	ID (general)	80 % TW	16.92	HTS-P	+ 5.37
36	39	09/91 RFO	OD WEAR	15 % TW	0.72	AVB1	
36	65	09/91 RFO	OD WEAR	15 % TW	0.74	AVB3	
		09/91 RFO	OD WEAR	19 % TW	0.99	AVB4	
36	69	09/91 RFO	OD WEAR	21 % TW	1.17	AVB3	
36	72	09/91 RFO	OD WEAR	11 % TW	0.31	AVB2	
37	49	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
38	30	09/91 RFO	ID (general)	S/N	4.40	HTS-P	+ 6.27
38	44	09/91 TS	ID (general)	S/N	0.28	HTS-S	+ 0.12
38	54	09/91 RFO	OD WEAR	20 % TW	0.69	AVB1	
		09/91 RFO	OD WEAR	15 % TW	0.46	AVB3	
38	58	09/91 RFO	OD WEAR	37 % TW	3.21	AVB3	
		09/91 RFO	OD WEAR	13 % TW	0.62	AVB1	
38	59	09/91 RFO	OD WEAR	21 % TW	1.14	AVB2	
		09/91 RFO	OD WEAR	14 % TW	0.69	AVB1	
		09/91 RFO	OD WEAR	15 % TW	0.76	AVB3	
38	98	09/91 TS	ID (general)	S/N	0.28	HTS-P	- 2.99
		09/91 TS	ID (general)	S/N	0.28	HTS-S	- 2.99
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.10
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.10
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.10
39	05	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.28
21	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.16	
76	09/91 RFO	OD WEAR	50 % TW	4.17	AVB2		
		09/91 RFO	OD WEAR	21 % TW	0.73	AVB3	
		09/91 RFO	OD WEAR	11 % TW	0.31	AVB4	
39	86	09/91 RFO	OD WEAR	25 % TW	1.50	AVB2	



Plant: McGUIRE UNIT 1 Steam Generator: B  
Outages: 09/91 RFO 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 2 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
40	31	09/91 RFO	OD WEAR	32 % TW	2.33	AVB1	
40	31	09/91 TS	ID (general)	S/N	0.28	HTS-S	+ 0.24
40	34	09/91 RFO	OD (general)	61 % TW	0.46	2	+ 0.15
40	38	09/91 RFO	OD WEAR	17 % TW	0.85	AVB3	
40	42	09/91 RFO	OD WEAR	14 % TW	0.44	AVB1	
40	70	09/91 RFO	OD WEAR	21 % TW	1.13	AVB3	
41	22	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.20
41	25	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.20
41	27	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.20
41	44	09/91 RFO	OD WEAR	15 % TW	0.75	AVB4	
		09/91 RFO	OD WEAR	11 % TW	0.53	AVB3	
		09/91 RFO	OD WEAR	22 % TW	1.28	AVB2	
41	47	09/91 TS	ID (general)	S/N	0.28	HTS-S	- 3.06
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 3.13
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 3.17
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 3.17
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.17
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 3.21
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.21
41	48	09/91 RFO	OD WEAR	20 % TW	1.06	AVB2	
41	57	09/91 RFO	OD WEAR	13 % TW	0.60	AVB1	
41	58	09/91 RFO	OD WEAR	25 % TW	1.55	AVB1	
41	61	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.20
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.20
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.16
41	64	09/91 RFO	OD WEAR	30 % TW	2.10	AVB1	
		09/91 RFO	OD WEAR	26 % TW	1.64	AVB2	
		09/91 RFO	OD WEAR	27 % TW	1.69	AVB3	
41	65	09/91 RFO	OD WEAR	13 % TW	0.65	AVB1	
		09/91 RFO	OD WEAR	34 % TW	2.62	AVB2	
		09/91 RFO	OD WEAR	21 % TW	1.14	AVB3	
41	66	09/91 RFO	OD WEAR	19 % TW	0.97	AVB1	
41	68	09/91 RFO	OD WEAR	12 % TW	0.59	AVB1	
		09/91 RFO	OD WEAR	7 % TW	0.21	AVB3	
41	70	09/91 RFO	OD WEAR	17 % TW	0.86	AVB1	
41	71	09/91 RFO	OD WEAR	14 % TW	0.42	AVB1	
41	72	09/91 RFO	OD WEAR	12 % TW	0.58	AVB1	
41	85	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.16
41	87	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 1.05
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 1.05
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 1.05
41	91	09/91 TS	ID (general)	S/N	0.28	HTS-S	- 3.05
42	35	09/91 TS	ID (general)	S/N	0.28	HTS-S	+ 0.16
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.08
42	59	09/91 RFO	OD WEAR	37 % TW	1.90	AVB1	
		09/91 RFO	OD WEAR	16 % TW	0.51	AVB2	
		09/91 RFO	OD WEAR	17 % TW	0.57	AVB3	
42	64	09/91 RFO	OD WEAR	27 % TW	1.71	AVB1	
42	73	09/91 RFO	OD WEAR	19 % TW	0.98	AVB2	
		09/91 RFO	OD WEAR	45 % TW	5.15	AVB3	
43	22	09/91 RFO	OD WEAR	20 % TW	1.08	AVB1	
		09/91 RFO	OD WEAR	16 % TW	0.80	AVB2	
43	24	09/91 RFO	OD (general)	14 % TW	0.79	6	+12.55
43	34	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.20
43	35	09/91 TS	ID (general)	S/N	0.28	HTS-S	+ 0.24
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.16
43	36	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.16
43	89	09/91 RFO	ID (general)	S/N	2.70	HTS-P	+16.95
44	28	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.20
44	33	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.16
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.16
44	60	09/91 TS	ID (general)	S/N	0.32	HTS-S	+ 0.28
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.20
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.16
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.12



Plant: McGuire UNIT 1 Steam Generator: B  
Outages: 09/91 RFO 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 2 INDICATIONS OF IMPERFECTION

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
44	62	09/91 RFO	OD WEAR	18 % TW	0.95	AVB1	
44	63	09/91 RFO	OD WEAR	18 % TW	0.94	AVB1	
44	65	09/91 TS	ID (general)	S/N	0.26	HTS-S	+ 0.24
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.24
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.20
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.20
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.20
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.16
		09/91 TS	ID (general)	S/N	0.04	HTS-S	+ 0.08
44	82	09/91 RFO	ID (general)	75 % TW	23.16	HTS-P	+ 3.54
44	86	09/91 RFO	OD (general)	S/N	0.49	1	+ 0.16
45	30	09/91 RFO	OD (general)	S/N	0.31	3	
45	61	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
45	74	09/91 RFO	OD (general)	S/N	0.27	3	+ 0.19
45	83	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 1.22
46	33	09/91 RFO	OD (general)	S/N	0.69	1	- 0.05
		09/91 SI	OD (general)	S/N	0.33	1	
46	31	09/91 RFO	OD (general)	S/N	0.51	3	+ 0.03
46	36	09/91 RFO	OD (general)	73 % TW	1.56	1	+ 0.05
		09/91 SI	OD (general)	S/N	0.55	1	
46	77	09/91 RFO	OD (general)	S/N	0.34	2	+ 0.19
47	84	09/91 TS	ID (general)	S/N	0.32	HTS-S	- 2.02
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 2.06
		09/91 TS	ID (general)	S/N	0.28	HTS-S	- 2.06
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 2.06
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 2.10
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 2.10
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 2.14
49	40	09/91 RFO	OD WEAR	15 % TW	1.57	17	
49	52	09/91 RFO	OD WEAR	24 % TW	2.75	16	
		09/91 RFO	OD WEAR	11 % TW	1.05	17	
		09/91 RFO	OD WEAR	21 % TW	2.30	19	
49	57	09/91 RFO	OD WEAR	14 % TW	1.82	17	
		09/91 RFO	OD WEAR	13 % TW	1.68	19	
49	78	09/91 TS	ID (general)	S/N	0.17	HTS-S	- 1.74

TOTAL TUBES FOUND = 259  
TOTAL INDICATIONS FOUND = 437

Plant: McGUIRE UNIT 1 Steam Generator: C  
Outages: 09/91 BOB 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 3 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOL% LOCATION	INCHES
2	67	09/91 BOB	00 (general)	4 % TW	0.61 S	+ 3.73
		09/91 SI	00 (general)	S/N	1.04 S	+ 4.19
2	94	09/91 TS	ID (general)	S/N	0.16 HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.16 HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.16 HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.16 HTS-S	+ 0.12
2	95	09/91 TS	ID (general)	S/N	0.32 HTS-S	+ 0.16
		09/91 TS	ID (general)	S/N	0.20 HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.16 HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.16 HTS-S	+ 0.12
2	105	09/91 TS	ID (general)	S/N	0.12 HTS-S	+ 0.08
2	108	09/91 TS	ID (general)	S/N	0.12 HTS-S	+ 0.12
2	109	09/91 TS	ID (general)	S/N	0.16 HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.16 HTS-S	+ 0.12
2	111	09/91 TS	ID (general)	S/N	0.12 HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.12 HTS-S	+ 0.12
3	64	09/91 TS	ID (general)	S/N	0.20 HTS-S	+ 0.04
3	102	09/91 TS	ID (general)	S/N	0.20 HTS-S	+ 0.04
3	106	09/91 TS	ID (general)	S/N	0.20 HTS-S	+ 0.04
		09/91 TS	ID (general)	S/N	0.20 HTS-S	+ 0.04
4	64	09/91 TS	ID (general)	S/N	0.10 HTS-S	- 2.33
		09/91 TS	ID (general)	S/N	0.13 HTS-S	- 2.33
		09/91 TS	ID (general)	S/N	0.10 HTS-S	- 2.33
		09/91 TS	ID (general)	S/N	0.10 HTS-S	- 2.36
		09/91 TS	ID (general)	S/N	0.07 HTS-S	- 2.36
4	71	09/91 TS	ID (general)	S/N	0.13 HTS-S	+ 0.03
		09/91 TS	ID (general)	S/N	0.03 HTS-S	- 0.07
4	77	09/91 TS	ID (general)	S/N	0.10 HTS-S	+ 0.03
4	81	09/91 TS	ID (general)	S/N	0.16 HTS-S	- 0.03
4	93	09/91 TS	ID (general)	S/N	0.13 HTS-S	+ 0.07
4	101	09/91 TS	ID (general)	S/N	0.13 HTS-S	+ 0.10
		09/91 TS	ID (general)	S/N	0.10 HTS-S	+ 0.07
4	105	09/91 TS	ID (general)	S/N	0.20 HTS-S	+ 0.10
		09/91 TS	ID (general)	S/N	0.27 HTS-S	+ 0.13
		09/91 TS	ID (general)	S/N	0.13 HTS-S	+ 0.03
5	63	09/91 BOB	ID (general)	S/N	5.91 HTS-P	+18.34
		09/91 BOB	ID (general)	40 % TW	9.75 HTS-S	
		09/91 TS	ID (general)	S/N	0.31 HTS-S	+ 0.31
		09/91 TS	ID (general)	S/N	0.23 HTS-S	+ 0.19
		09/91 TS	ID (general)	S/N	0.15 HTS-S	+ 0.15
5	68	09/91 TS	ID (general)	S/N	0.15 HTS-S	- 2.77
		09/91 TS	ID (general)	S/N	0.15 HTS-S	- 2.81
		09/91 TS	ID (general)	S/N	0.15 HTS-S	- 2.81
		09/91 TS	ID (general)	S/N	0.11 HTS-S	- 2.81
5	75	09/91 TS	ID (general)	S/N	0.19 HTS-S	+ 0.19
		09/91 TS	ID (general)	S/N	0.11 HTS-S	+ 0.15
5	78	09/91 TS	ID (general)	S/N	0.19 HTS-S	+ 0.23
		09/91 TS	ID (general)	S/N	0.15 HTS-S	+ 0.23
		09/91 TS	ID (general)	S/N	0.15 HTS-S	+ 0.08
5	80	09/91 TS	ID (general)	S/N	0.19 HTS-S	+ 0.08
5	81	09/91 BOB	00 (general)	S/N	0.76 S	+16.36
5	95	09/91 TS	ID (general)	S/N	0.16 HTS-S	+ 0.07
5	101	09/91 TS	ID (general)	S/N	0.16 HTS-S	- 0.03
		09/91 TS	ID (general)	S/N	0.13 HTS-S	- 0.07
5	103	09/91 TS	ID (general)	S/N	0.16 HTS-S	
6	95	09/91 TS	ID (general)	S/N	0.15 HTS-S	+ 0.04
		09/91 TS	ID (general)	S/N	0.11 HTS-S	+ 0.04
6	98	09/91 TS	ID (general)	S/N	0.04 HTS-S	- 0.15
7	106	09/91 TS	ID (general)	S/N	0.11 HTS-S	+ 0.04
7	113	09/91 TS	ID (general)	S/N	0.53 HTS-S	+ 0.49
		09/91 TS	ID (general)	S/N	0.15 HTS-S	+ 0.08
8	72	09/91 TS	ID (general)	S/N	0.10 HTS-S	
		09/91 TS	ID (general)	S/N	0.13 HTS-S	
8	98	09/91 TS	ID (general)	S/N	0.13 HTS-S	+ 0.03
		09/91 TS	ID (general)	S/N	0.10 HTS-S	
8	109	09/91 TS	ID (general)	S/N	0.10 HTS-S	+ 0.06
9	71	09/91 TS	ID (general)	S/N	0.16 HTS-S	

Plant: McGUIRE UNIT 1 Steam Generator: C  
Outages: 09/91 BOB 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 3 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
10	22	09/91 BOB	OD (general)	S/N	0.58	10	+29.05
10	55	09/91 TS	ID (general)	S/N	0.16	HTS-S	
10	86	09/91 TS	ID (general)	S/N	0.28	HTS-S	+ 0.08
11	37	09/91 BOB	ID (general)	S/N	1.78	HTS-P	+15.08
11	51	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.08
11	80	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.04
11	82	09/91 BOB	OD (general)	S/N	0.63	1	+ 0.13
		09/91 SI	OD (general)	S/N	1.46	1	- 0.04
11	98	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.04
11	113	09/91 TS	ID (general)	S/N	0.12	HTS-S	- 2.82
12	31	09/91 BOB	OD (general)	S/N	0.12	4	
12	58	09/91 TS	ID (general)	S/N	0.63	CTS-S	- 0.04
		09/91 TS	ID (general)	S/N	0.59	CTS-S	- 0.04
		09/91 TS	ID (general)	S/N	0.28	CTS-S	- 0.04
		09/91 TS	ID (general)	S/N	0.20	CTS-S	- 0.04
		09/91 TS	ID (general)	S/N	0.32	CTS-S	- 0.08
		09/91 TS	ID (general)	S/N	0.20	CTS-S	- 0.35
		09/91 TS	ID (general)	S/N	0.20	CTS-S	- 0.35
		09/91 TS	ID (general)	S/N	0.47	CTS-S	- 1.10
		09/91 TS	ID (general)	S/N	0.08	CTS-S	- 1.14
		09/91 TS	ID (general)	S/N	0.12	CTS-S	- 1.26
		09/91 TS	ID (general)	S/N	0.04	CTS-S	- 1.30
		09/91 TS	ID (general)	S/N	0.32	CTS-S	- 1.34
		09/91 TS	ID (general)	S/N	0.24	CTS-S	- 1.38
		09/91 TS	ID (general)	S/N	0.12	CTS-S	- 1.42
		09/91 TS	ID (general)	S/N	0.04	CTS-S	- 1.58
12	68	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.04
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.04
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.04
		09/91 TS	ID (general)	S/N	0.12	HTS-S	
12	78	09/91 TS	ID (general)	S/N	0.12	HTS-S	
13	10	09/91 BOB	OD (general)	S/N	0.43	4	+29.68
13	56	09/91 BOB	OD (general)	S/N	0.28	3	
13	65	09/91 BOB	ID (general)	S/N	5.95	HTS-P	+18.51
13	78	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.04
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.04
		09/91 TS	ID (general)	S/N	0.12	HTS-S	
		09/91 TS	ID (general)	S/N	0.16	HTS-S	
13	111	09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.04
14	60	09/91 BOB	ID (general)	S/N	5.24	HTS-P	+18.91
14	61	09/91 BOB	ID (general)	63 % TW	7.09	HTS-P	+ 6.31
14	69	09/91 BOB	ID (general)	55 % TW	6.63	HTS-P	+ 7.38
		09/91 SI	ID (general)	S/N	0.79	HTS-P	+ 7.34
14	97	09/91 BOB	OD (general)	50 % TW	1.25	17	+13.75
		09/91 SI	OD (general)	S/N	0.81	17	+13.92
14	98	09/91 BOB	ID (general)	75 % TW	4.40	HTS-P	+14.14
15	28	09/91 BOB	OD (general)	3 % TW	0.67	6	+35.84
		09/91 SI	OD (general)	S/N	0.80	6	+36.70
15	102	09/91 TS	ID (general)	S/N	0.11	HTS-S	+ 0.04
15	105	09/91 BOB	ID (general)	64 % TW	6.22	HTS-P	+ 9.48
15	112	09/91 BOB	ID (general)	99 % TW	17.70	CTS-P	- 1.77
16	18	09/91 BOB	OD (general)	S/N	0.31	11	
		09/91 BOB	OD (general)	S/N	0.69	11	+25.10
		09/91 BOB	OD (general)	S/N	0.45	11	+21.28
16	35	09/91 TS	ID (general)	S/N	0.28	HTS-S	- 2.88
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 2.88
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 2.88
16	44	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.16
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
16	50	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
16	101	09/91 BOB	OD (general)	S/N	0.38	3	+ 0.03
16	102	09/91 BOB	OD (general)	16 % TW	0.55	4	+18.52
17	4	09/91 BOB	OD (general)	S/N	0.39	1	+ 0.05
17	54	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.12
17	73	09/91 BOB	OD (general)	S/N	0.33	6	+ 0.08
17	101	09/91 BOB	OD (general)	S/N	0.32	3	+ 0.13
18	58	09/91 BOB	ID (general)	40 % TW	3.73	HTS-S	

Plant: McGUIRE UNIT 1 Steam Generator: C  
Outages: 09/91 BOB 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 3 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS LOCATION	INCHES
		09/91 TS	ID (general)	S/N	0.24 HTS-S	+ 0.07
		09/91 TS	ID (general)	S/N	0.23 HTS-S	+ 0.08
18	69	09/91 BOB	ID (general)	S/N	5.78 HTS-P	+ 8.29
18	73	09/91 TS	ID (general)	S/N	0.14 HTS-S	- 0.52
18	75	09/91 TS	ID (general)	S/N	0.15 HTS-S	- 0.27
		09/91 TS	ID (general)	S/N	0.04 HTS-S	- 0.34
18	80	09/91 TS	ID (general)	S/N	0.21 HTS-S	+ 0.10
		09/91 TS	ID (general)	S/N	0.14 HTS-S	+ 0.07
		09/91 TS	ID (general)	S/N	0.14 HTS-S	- 0.24
18	81	09/91 TS	ID (general)	S/N	0.21 HTS-S	- 0.07
18	88	09/91 TS	ID (general)	S/N	0.04 HTS-S	- 1.15
		09/91 TS	ID (general)	S/N	0.11 HTS-S	- 1.19
18	72	09/91 TS	ID (general)	S/N	0.15 HTS-S	- 2.07
18	98	09/91 BOB	OD (general)	S/N	0.27 3	+ 0.03
18	104	09/91 BOB	OD (general)	S/N	0.28 4	- 0.03
19	49	09/91 TS	ID (general)	S/N	0.16 HTS-S	+ 0.20
19	57	09/91 BOB	OD (general)	S/N	0.28 2	- 0.05
19	63	09/91 BOB	OD (general)	S/N	0.20 1	+ 0.02
19	67	09/91 BOB	OD (general)	S/N	0.16 3	- 0.03
19	68	09/91 TS	ID (general)	S/N	0.14 HTS-S	- 0.42
19	74	09/91 BOB	OD (general)	17 % TW	0.79 12	+20.27
19	78	09/91 BOB	ID (general)	44 % TW	6.52 HTS-P	+ 4.47
		09/91 TS	ID (general)	S/N	0.14 HTS-S	- 0.10
19	90	09/91 TS	ID (general)	S/N	0.26 HTS-S	- 3.19
19	91	09/91 BOB	OD (general)	11 % TW	0.81 11	+40.84
20	50	09/91 BOB	OD (general)	18 % TW	0.66 3	+10.86
20	88	09/91 TS	ID (general)	S/N	0.24 HTS-S	+ 0.17
20	89	09/91 TS	ID (general)	S/N	0.11 HTS-S	
20	94	09/91 TS	ID (general)	S/N	0.15 HTS-S	+ 0.11
21	55	09/91 TS	ID (general)	S/N	0.20 HTS-S	+ 0.32
21	64	09/91 TS	ID (general)	S/N	0.10 HTS-S	- 0.03
		09/91 TS	ID (general)	S/N	0.14 HTS-S	- 0.07
		09/91 TS	ID (general)	S/N	0.03 HTS-S	- 0.14
		09/91 TS	ID (general)	S/N	0.03 HTS-S	- 0.14
21	65	09/91 TS	ID (general)	S/N	0.14 HTS-S	+ 0.07
21	67	09/91 BOB	OD (general)	1 % TW	0.73 3	+ 6.26
21	68	09/91 TS	ID (general)	S/N	0.27 HTS-S	+ 0.20
		09/91 TS	ID (general)	S/N	0.24 HTS-S	+ 0.14
21	79	09/91 TS	ID (general)	S/N	0.14 HTS-S	- 0.17
22	25	09/91 BOB	OD (general)	S/N	0.23 6	+30.11
22	62	09/91 TS	ID (general)	S/N	0.17 HTS-S	+ 0.05
22	69	09/91 TS	ID (general)	S/N	0.21 HTS-S	+ 0.10
22	105	09/91 BOB	OD (general)	9 % TW	0.72 17	+ 3.21
23	9	09/91 BOB	OD (general)	2 % TW	0.82 HTS-S	+20.07
24	38	09/91 BOB	OD (general)	S/N	0.63 1	
		09/91 SI	OD (general)	S/N	0.26 1	+ 0.21
24	53	09/91 TS	ID (general)	S/N	0.20 HTS-S	+ 0.19
24	62	09/91 TS	ID (general)	S/N	0.12 HTS-S	
		09/91 TS	ID (general)	S/N	0.16 HTS-S	
24	67	09/91 TS	ID (general)	S/N	0.15 HTS-S	+ 0.15
24	77	09/91 TS	ID (general)	S/N	0.28 HTS-S	+ 0.28
		09/91 TS	ID (general)	S/N	0.17 HTS-S	+ 0.21
24	78	09/91 BOB	ID (general)	S/N	1.33 CTS-P	+ 8.46
24	89	09/91 BOB	OD (general)	S/N	0.30 17	
24	99	09/91 TS	ID (general)	S/N	0.17 HTS-S	+ 0.24
25	7	09/91 BOB	ID (general)	S/N	1.45 HTS-P	+11.05
25	53	09/91 TS	ID (general)	S/N	0.32 HTS-S	+ 0.27
25	68	09/91 TS	ID (general)	S/N	0.24 HTS-S	+ 0.16
		09/91 TS	ID (general)	S/N	0.20 HTS-S	+ 0.16
		09/91 TS	ID (general)	S/N	0.16 HTS-S	+ 0.12
25	71	09/91 TS	ID (general)	S/N	0.24 HTS-S	+ 0.12
25	75	09/91 BOB	OD (general)	4 % TW	0.46 6	+ 9.57
27	22	09/91 BOB	ID (general)	S/N	1.50 HTS-P	+ 5.48
27	31	09/91 BOB	OD WEAR	21 % TW	1.06 AVB3	
27	39	09/91 TS	ID (general)	S/N	0.20 HTS-S	+ 0.16
		09/91 TS	ID (general)	S/N	0.16 HTS-S	+ 0.16
27	42	09/91 TS	ID (general)	S/N	0.20 HTS-S	+ 0.20

Plant: McGuire UNIT 1 Steam Generator: C  
 Outages: 09/91 BOB 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 3 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
27	44	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.16
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
27	66	09/91 BOB	ID (general)	43 % TW	3.43		+11.47
27	73	09/91 TS	ID (general)	S/N	0.79	HTS-S	- 0.16
27	89	09/91 BOB	OD (general)	20 % TW	0.14	3	+ 0.05
27	104	09/91 BOB	ID (general)	40 % TW	3.49	HTS-S	
		09/91 TS	ID (general)	S/N	0.36	HTS-S	+ 0.28
		09/91 TS	ID (general)	S/N	0.28	HTS-S	+ 0.28
		09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.24
		09/91 TS	ID (general)	S/N	0.28	HTS-S	+ 0.24
27	106	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.20
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.20
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.20
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.12
28	30	09/91 BOB	OD (general)	S/N	0.26	4	
28	37	09/91 BOB	OD WEAR	13 % TW	0.57	AVG4	
28	42	09/91 BOB	OD (general)	S/N	0.22	2	
28	43	09/91 BOB	OD WEAR	10 % TW	0.42	AVG2	
28	53	09/91 BOB	OD WEAR	14 % TW	0.63	AVB1	
28	57	09/91 BOB	OD (general)	S/N	0.40	9	+23.41
28	61	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.12
28	79	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.16
29	50	09/91 BOB	OD WEAR	12 % TW	0.51	AVB1	
29	91	09/91 BOB	OD (general)	2 % TW	0.71	6	+18.97
29	105	09/91 BOB	OD WEAR	12 % TW	0.50	AVB3	
30	48	09/91 BOB	OD (general)	S/N	1.04	8	+ 3.93
30	64	09/91 BOB	OD (general)	S/N	0.16	4	+ 0.03
30	105	09/91 BOB	OD WEAR	19 % TW	0.94	AVB2	
		09/91 BOB	OD WEAR	21 % TW	1.07	AVB3	
31	48	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.07
		09/91 TS	ID (general)	S/N	0.16	HTS-S	
31	53	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.20
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.20
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.16
31	76	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.12
31	79	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
32	61	09/91 BOB	OD (general)	1 % TW	2.99	15	+ 2.37
		09/91 SI	OD (general)	S/N	0.45	15	+ 2.44
32	69	09/91 TS	ID (general)	S/N	0.21	HTS-S	+ 0.14
33	29	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.94
33	33	09/91 BOB	OD WEAR	23 % TW	1.18	AVB3	
33	46	09/91 BOB	OD WEAR	20 % TW	0.99	AVB2	
33	49	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.01
		09/91 TS	ID (general)	S/N	1.10	HTS-S	- 0.03
33	89	09/91 BOB	OD (general)	13 % TW	0.41	3	+19.33
		09/91 BOB	OD (general)	S/N	0.80	3	+24.28
33	94	09/91 BOB	OD (general)	S/N	0.19	4	+ 0.08
33	102	09/91 BOB	OD WEAR	11 % TW	0.47	AVB3	
		09/91 BOB	OD WEAR	21 % TW	1.07	AVB2	
34	64	09/91 TS	ID (general)	S/N	0.17	HTS-S	+ 0.14
34	77	09/91 TS	ID (general)	S/N	0.15	HTS-S	+ 0.15
34	86	09/91 BOB	ID (general)	S/N	1.84	HTS-P	+ 4.29
34	101	09/91 BOB	OD WEAR	12 % TW	0.50	AVB2	
		09/91 BOB	OD WEAR	12 % TW	0.50	AVB3	
35	19	09/91 BOB	OD WEAR	21 % TW	1.02	AVB2	
35	46	09/91 BOB	OD WEAR	18 % TW	0.86	AVB1	
35	48	09/91 BOB	OD WEAR	14 % TW	0.64	AVB1	
35	56	09/91 BOB	OD WEAR	18 % TW	0.87	AVB1	
35	100	09/91 BOB	OD WEAR	23 % TW	0.85	AVB3	
36	47	09/91 BOB	OD WEAR	15 % TW	0.66	AVB1	
36	70	09/91 BOB	ID (general)	50 % TW	2.37	HTS-P	+ 7.25
36	93	09/91 TS	ID (general)	S/N	0.14	HTS-S	+ 0.17
36	100	09/91 BOB	OD WEAR	19 % TW	0.79	AVB3	

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ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
37	47	09/91 BOB	OD WEAR	13 % TW	0.52	AVB1	
37	92	09/91 BOB	ID (general)	S/N	2.13	HTS-P	+ 4.23
38	31	09/91 BOB	OD WEAR	28 % TW	1.59	AVB3	
	09/91 BOB	OD WEAR	19 % TW	0.95	AVB4		
38	39	09/91 BOB	OD WEAR	51 % TW	1.88	AVB3	
38	40	09/91 BOB	OD WEAR	34 % TW	2.10	AVB2	
	09/91 BOB	OD WEAR	47 % TW	4.36	AVB3		
38	52	09/91 BOB	OD WEAR	16 % TW	0.73	AVB1	
38	64	09/91 BOB	OD (general)	12 % TW	0.31	2	+12.03
39	29	09/91 BOB	OD WEAR	28 % TW	1.60	AVB2	
39	32	09/91 BOB	OD WEAR	16 % TW	0.72	AVB2	
39	36	09/91 BOB	OD WEAR	34 % TW	2.29	AVB3	
	09/91 BOB	OD WEAR	45 % TW	4.13	AVB2		
	09/91 BOB	OD WEAR	22 % TW	1.10	AVB1		
39	39	09/91 BOB	OD WEAR	15 % TW	0.67	AVB3	
39	44	09/91 BOB	OD WEAR	42 % TW	3.54	AVB2	
	09/91 BOB	OD WEAR	32 % TW	2.01	AVB3		
39	50	09/91 BOB	OD WEAR	21 % TW	1.04	AVB1	
39	52	09/91 BOB	OD WEAR	15 % TW	0.67	AVB1	
39	58	09/91 BOB	OD WEAR	15 % TW	0.68	AVB1	
	09/91 BOB	OD WEAR	13 % TW	0.56	AVB3		
39	82	09/91 BOB	OD WEAR	25 % TW	1.39	AVB2	
40	20	09/91 BOB	OD WEAR	15 % TW	0.58	AVB2	
40	26	09/91 BOB	OD WEAR	15 % TW	0.65	AVB1	
40	39	09/91 BOB	OD WEAR	15 % TW	0.65	AVB2	
40	41	09/91 BOB	OD WEAR	31 % TW	1.95	AVB2	
40	42	09/91 BOB	OD WEAR	21 % TW	1.03	AVB2	
	09/91 BOB	OD WEAR	14 % TW	0.62	AVB3		
40	43	09/91 BOB	OD WEAR	10 % TW	0.40	AVB1	
	09/91 BOB	OD WEAR	21 % TW	1.02	AVB2		
	09/91 BOB	OD WEAR	22 % TW	1.15	AVB3		
	09/91 BOB	OD WEAR	15 % TW	0.70	AVB4		
40	46	09/91 BOB	OD WEAR	15 % TW	0.67	AVB1	
40	47	09/91 BOB	OD WEAR	24 % TW	1.29	AVB1	
40	48	09/91 BOB	OD WEAR	16 % TW	0.73	AVB1	
40	60	09/91 BOB	OD WEAR	14 % TW	0.60	AVB1	
40	61	09/91 BOB	OD WEAR	21 % TW	1.06	AVB2	
40	64	09/91 BOB	OD WEAR	13 % TW	0.59	AVB1	
40	65	09/91 BOB	OD WEAR	14 % TW	0.61	AVB1	
40	71	09/91 BOB	OD WEAR	13 % TW	0.59	AVB1	
40	80	09/91 BOB	OD WEAR	13 % TW	0.55	AVB1	
40	81	09/91 BOB	OD WEAR	12 % TW	0.54	AVB2	
40	82	09/91 BOB	OD WEAR	11 % TW	0.47	AVB2	
40	83	09/91 BOB	OD WEAR	13 % TW	0.57	AVB2	
	09/91 BOB	OD WEAR	15 % TW	0.65	AVB3		
41	21	09/91 BOB	OD WEAR	8 % TW	0.34	AVB1	
41	24	09/91 BOB	OD WEAR	22 % TW	1.09	AVB2	
41	39	09/91 BOB	OD WEAR	19 % TW	0.91	AVB2	
41	55	09/91 BOB	OD WEAR	18 % TW	0.85	AVB2	
41	92	09/91 TS	ID (general)	S/N	0.14	HTS-S	+ 0.07
42	30	09/91 BOB	OD (general)	1 % TW	0.59	19	+ 7.65
42	79	09/91 BOB	ID (general)	48 % TW	4.59	HTS-P	+11.62
42	87	09/91 BOB	OD WEAR	13 % TW	0.53	AVB1	
	09/91 BOB	OD WEAR	17 % TW	0.80	AVB3		
43	33	09/91 BOB	OD WEAR	17 % TW	0.79	AVB2	
	09/91 BOB	OD WEAR	20 % TW	1.01	AVB3		
43	47	09/91 BOB	OD WEAR	23 % TW	1.18	AVB1	
43	48	09/91 BOB	OD WEAR	15 % TW	0.67	AVB1	
43	50	09/91 BOB	OD WEAR	18 % TW	0.86	AVB1	
43	53	09/91 BOB	OD WEAR	18 % TW	0.83	AVB1	
43	54	09/91 BOB	OD WEAR	17 % TW	0.82	AVB1	
43	55	09/91 BOB	OD WEAR	17 % TW	0.80	AVB1	
43	56	09/91 BOB	OD WEAR	27 % TW	1.54	AVB1	
43	61	09/91 BOB	OD WEAR	15 % TW	0.70	AVB1	
43	74	09/91 BOB	OD (general)	S/N	0.41	6	
44	23	09/91 BOB	OD (general)	12 % TW	0.45	2	+ 1.06
	09/91 SI	OD (general)	S/N	0.37	2		+ 0.99



Plant: McGUIRE UNIT 1                      Steam Generator: C  
Outages: 09/91 BOB    09/91 SLV    09/91 TS    09/91 S1

QUERY: ATTACHMENT 3 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
44	88	09/91 TS	ID (general)	S/N	0.15	HTS-S	+ 0.11
46	64	09/91 TS	ID (general)	S/N	0.48	HTS-S	- 1.94
46	85	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
46	87	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.16
48	81	09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.08
49	39	09/91 BOB	OD (general)	12 % TW	0.68	16	+ 0.03
		09/91 BOB	OD WEAR	11 % TW	1.04	17	
		09/91 S1	OD (general)	S/N	0.52	16	+ 0.07
		09/91 S1	OD WEAR	15 % TW	0.17	17	
49	41	09/91 BOB	OD (general)	S/N	0.47	14	- 0.05
		09/91 BOB	OD WEAR	26 % TW	3.23	16	
		09/91 BOB	OD WEAR	16 % TW	1.85	17	
		09/91 S1	OD WEAR	17 % TW	0.26	14	
		09/91 S1	OD WEAR	23 % TW	0.39	16	
		09/91 S1	OD WEAR	15 % TW	0.23	17	
49	64	09/91 TS	ID (general)	S/N	0.68	CTS-S	+ 0.77
49	70	09/91 BOB	OD (general)	7 % TW	0.54	12	+ 1.16
49	71	09/91 BOB	OD WEAR	14 % TW	1.50	16	
		09/91 TS	ID (general)	S/N	0.16	CTS-S	+ 1.13
49	73	09/91 BOB	OD WEAR	10 % TW	0.94	16	
49	74	09/91 BOB	OD WEAR	16 % TW	1.76	14	
		09/91 BOB	OD WEAR	29 % TW	3.71	16	
49	75	09/91 BOB	OD WEAR	33 % TW	4.52	16	
49	79	09/91 BOB	OD WEAR	19 % TW	2.15	16	

TOTAL TUBES FOUND        = 235  
TOTAL INDICATIONS FOUND   = 359



Plant: McGuire UNIT 1 Steam Generator: D  
 Outages: 09/91 BOB 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 4 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
2	11	09/91 BOB	ID (general)	S/N	1.40	HTS-P	+ 5.41
2	16	09/91 TS	ID (general)	S/N	0.59	CTS-S	- 0.35
		09/91 TS	ID (general)	S/N	0.51	CTS-S	- 0.43
		09/91 TS	ID (general)	S/N	0.32	CTS-S	- 0.59
		09/91 TS	ID (general)	S/N	0.28	CTS-S	- 0.63
2	29	09/91 BOB	ID (general)	48 % TW	5.64	HTS-P	+ 5.52
2	38	09/91 TS	ID (general)	S/N	0.39	HTS-S	- 3.15
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 3.23
2	39	09/91 BOB	ID (general)	S/N	1.36	HTS-P	+10.75
2	52	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 1.38
2	61	09/91 BOB	ID (general)	S/N	3.16	HTS-P	+ 7.41
2	74	09/91 SLV	ID (general)	53 % TW	3.70	HTS-P	+11.70
2	89	09/91 BOB	ID (general)	S/N	1.12	HTS-P	+18.48
		09/91 TS	ID (general)	S/N	0.35	HTS-S	- 2.61
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 2.73
3	27	09/91 TS	ID (general)	S/N	0.35	HTS-S	- 3.44
3	32	09/91 BOB	ID (general)	S/N	1.32	HTS-P	+19.36
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 1.46
		09/91 TS	ID (general)	S/N	0.39	HTS-S	- 1.50
		09/91 TS	ID (general)	S/N	0.32	HTS-S	- 1.50
		09/91 TS	ID (general)	S/N	0.32	HTS-S	- 1.50
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 1.54
		09/91 TS	ID (general)	S/N	0.32	HTS-S	- 1.58
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 1.65
3	35	09/91 SLV	ID (general)	S/N	2.07	HTS-P	+ 8.14
3	40	09/91 BOB	ID (general)	S/N	6.42	HTS-P	+16.24
3	46	09/91 BOB	ID (general)	S/N	1.88	HTS-P	+16.73
3	75	09/91 TS	ID (general)	S/N	0.32	HTS-S	- 3.64
		09/91 TS	ID (general)	S/N	0.32	HTS-S	- 3.68
3	76	09/91 BOB	ID (general)	S/N	1.21	HTS-P	+18.43
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 2.44
3	80	09/91 BOB	ID (general)	S/N	1.50	HTS-P	+17.50
		09/91 TS	ID (general)	S/N	0.28	HTS-S	- 3.49
		09/91 TS	ID (general)	S/N	0.28	HTS-S	- 3.68
		09/91 TS	ID (general)	S/N	0.28	HTS-S	- 3.68
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 3.80
3	100	09/91 BOB	ID (general)	S/N	0.79	1	- 0.05
4	35	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
4	41	09/91 BOB	ID (general)	65 % TW	15.42	HTS-P	+ 1.77
4	55	09/91 TS	ID (general)	S/N	0.24	HTS-S	- 3.74
4	71	09/91 BOB	ID (general)	S/N	65 6		+26.38
		09/91 SI	ID (general)	S/N	6		+25.80
4	79	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 1.83
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 1.83
4	84	09/91 BOB	ID (general)	S/N	2.27	HTS-P	+10.88
5	40	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.16
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.12
5	42	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.16
5	61	09/91 SI	ID (general)	S/N	0.33	HTS-S	- 6.42
		09/91 SI	ID (general)	S/N	0.24	HTS-S	- 6.47
5	67	09/91 BOB	ID (general)	S/N	1.51	HTS-P	+13.47
5	68	09/91 BOB	ID (general)	60 % TW	4.09	HTS-P	+10.68
6	6	09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.08
6	30	09/91 SLV	ID (general)	63 % TW	5.25	HTS-P	+ 9.72
6	35	09/91 BOB	ID (general)	S/N	2.70	HTS-P	+ 8.59
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 2.45
6	37	09/91 SLV	ID (general)	70 % TW	10.12	HTS-P	+ 9.89
6	46	09/91 SI	ID (general)	S/N	0.28	HTS-S	+ 0.09
6	67	09/91 TS	ID (general)	S/N	0.32	HTS-S	- 2.56
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 2.60
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 2.64
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 2.64
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 2.68
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 2.68
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 2.68
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 2.72
6	68	09/91 BOB	ID (general)	S/N	1.88	HTS-P	+17.22

Plant: MCQUIRE UNIT 1  
 Outages: 09/91 BOB 09/91 SLV 09/91 TS 09/91 S1

Steam Generator: D

QUERY: ATTACHMENT 4- INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
		09/91 TS	ID (general)	S/N	0.32	HTS-S	+ 3.54
		09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 3.57
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 3.57
6	69	09/91 TS	ID (general)	S/N	0.12	HTL-S	+ 0.11
6	82	09/91 BOB	ID (general)	S/N	3.62	HTS-P	+14.37
6	91	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.08
6	101	09/91 TS	ID (general)	S/N	0.04	HTS-S	+ 1.26
7	60	09/91 BOB	ID (general)	S/N	1.60	HTS-P	+ 9.70
7	61	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 2.62
7	62	09/91 SLV	ID (general)	S/N	3.13	HTS-P	+15.16
7	71	09/91 TS	ID (general)	S/N	0.14	HTS-S	+ 0.08
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.08
		09/91 TS	ID (general)	S/N	0.17	HTS-S	+ 0.08
7	76	09/91 TS	ID (general)	S/N	0.14	HTS-S	+ 0.12
7	91	09/91 TS	ID (general)	S/N	0.35	HTS-S	+ 3.70
		09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 3.82
8	23	09/91 BOB	ID (general)	70 % TW	19.35	HTS-P	+ 2.62
		09/91 BOB	ID (general)	S/N	2.08	HTS-P	+ 9.67
8	26	09/91 BOB	ID (general)	S/N	2.42	HTS-P	+ 4.75
		09/91 TS	ID (general)	14 % TW	0.16	CTS-S	+ 1.80
		09/91 TS	ID (general)	10 % TW	0.12	CTS-S	+ 1.80
		09/91 TS	ID (general)	8 % TW	0.04	CTS-S	+ 1.80
		09/91 TS	ID (general)	12 % TW	0.08	CTS-S	+ 1.84
		09/91 TS	ID (general)	3 % TW	0.12	CTS-S	+ 2.95
		09/91 TS	ID (general)	6 % TW	0.28	CTS-S	+ 2.99
		09/91 TS	ID (general)	10 % TW	0.35	CTS-S	+ 2.99
		09/91 TS	ID (general)	12 % TW	0.39	CTS-S	+ 2.99
		09/91 TS	ID (general)	8 % TW	0.28	CTS-S	+ 2.99
		09/91 TS	ID (general)	4 % TW	0.20	CTS-S	+ 3.03
		09/91 TS	ID (general)	3 % TW	0.16	CTS-S	+ 3.07
		09/91 TS	ID (general)	3 % TW	0.14	CTS-S	+ 3.11
8	61	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.63
8	63	09/91 BOB	ID (general)	S/N	1.73	HTS-P	+10.57
		09/91 BOB	ID (general)	S/N	2.33	HTS-P	+15.85
8	66	09/91 TS	ID (general)	7 % TW	0.12	CTS-S	+ 3.72
8	74	09/91 BOB	ID (general)	65 % TW	7.04	HTS-P	+ 6.79
8	75	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 3.04
8	76	09/91 BOB	ID (general)	85 % TW	11.94	HTS-P	+10.56
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.08
8	78	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.04
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.08
8	83	09/91 BOB	ID (general)	S/N	1.79	HTS-P	+13.67
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 3.74
		09/91 TS	ID (general)	S/N	0.10	HTS-S	+ 3.78
8	90	09/91 BOB	ID (general)	S/N	0.76	HTS-P	+20.36
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.12
8	102	09/91 BOB	ID (general)	S/N	2.01	HTS-P	+16.73
9	5	09/91 BOB	ID (general)	S/N	1.95	HTS-P	+14.75
9	13	09/91 SLV	ID (general)	68 % TW	16.65	HTS-P	+ 9.67
9	15	09/91 BOB	ID (general)	78 % TW	3.57	CTS-P	+15.60
9	71	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 3.52
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 3.52
9	75	09/91 SLV	ID (general)	S/N	2.94	HTS-P	+14.24
9	77	09/91 TS	ID (general)	S/N	0.28	HTS-S	+ 3.13
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 3.13
9	80	09/91 SLV	ID (general)	S/N	6.95	HTS-P	+ 9.15
9	81	09/91 BOB	ID (general)	S/N	2.77	HTS-P	+ 7.07
9	88	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.12
10	12	09/91 TS	ID (general)	S/N	0.28	HTS-S	+ 0.16
		09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 3.98
10	43	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.02
10	60	09/91 TS	ID (general)	S/N	0.28	HTS-S	+ 0.75
10	74	09/91 BOB	ID (general)	S/N	0.94	HTS-P	+20.55
		09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.43
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.47
10	75	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.04

Plant: McGuire Unit 1 Steam Generator: 7  
Outages: 09/91 BOB 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 4 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.04
10	84	09/91 TS	ID (general)	S/N	0.24	HTS-S	- 2.86
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 2.56
		09/91 TS	ID (general)	S/N	0.15	HTS-S	- 2.90
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 2.90
10	85	09/91 BOB	ID (general)	63 % TW	9.09	H -P	+11.66
10	87	09/91 BOB	ID (general)	S/N	1.52	H-S-P	+14.40
10	102	09/91 BOB	ID (general)	17 % TW	0.63	17	+20.64
		09/91 SI	ID (general)	S/N	0.23	17	+21.41
10	103	09/91 BOB	ID (general)	9 % TW	0.38	17	+21.09
11	2	09/91 BOB	ID (general)	S/N	1.52	HTS-P	+12.83
11	13	09/91 BOB	ID (general)	S/N	5.32	CTS-P	+17.07
		09/91 TS	ID (general)	S/N	0.08	CTS-S	- 3.83
		09/91 TS	ID (general)	S/N	0.04	CTS-S	- 3.87
		09/91 TS	ID (general)	S/N	0.04	CTS-S	- 3.87
		09/91 TS	ID (general)	S/N	0.04	CTS-S	- 3.87
		09/91 TS	ID (general)	S/N	0.04	CTS-S	- 3.87
		09/91 TS	ID (general)	S/N	0.04	CTS-S	- 3.87
		09/91 TS	ID (general)	S/N	0.04	CTS-S	- 3.87
11	16	09/91 BOB	ID (general)	45 % TW	11.32	HT -P	+ 3.76
		09/91 BOB	ID (general)	40 % TW	1.23	H-S-S	
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 6.12
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
11	25	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 1.06
11	34	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.24
11	61	09/91 SLV	ID (general)	S/N	1.65	HTS-P	16.08
11	67	09/91 TS	ID (general)	S/N	0.24	HTS-S	- 2.49
11	72	09/91 BOB	ID (general)	S/N	2.24	HTS-P	+14.01
11	75	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.08
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
11	77	09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.04
		09/91 TS	ID (general)	S/N	0.08	HTS-S	
11	81	09/91 TS	ID (general)	S/N	0.12	HTS-S	
11	82	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
11	84	09/91 BOB	ID (general)	S/N	2.51	HTS-P	+11.14
		09/91 BOB	ID (general)	S/N	2.78	HTS-P	+13.93
11	85	09/91 BOB	ID (general)	88 % TW	9.26	HTS-P	+ 9.72
11	94	09/91 BOB	ID (general)	S/N	0.92	HTS-P	+19.60
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.04
		09/91 TS	ID (general)	S/N	0.39	HTS-S	- 1.42
11	96	09/91 BOB	ID (general)	S/N	1.75	HTS-P	+17.44
		09/91 TS	ID (general)	S/N	0.43	HTS-S	- 3.54
11	97	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 2.44
12	4	09/91 BOB	ID (general)	S/N	1.00	2	+17.00
12	20	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.08
12	25	09/91 TS	ID (general)	S/N	0.24	HTS-S	- 1.02
12	27	09/91 TS	ID (general)	S/N	0.24	HTS-S	- 1.03
12	30	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 4.06
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 4.10
12	55	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.08
12	60	09/91 TS	ID (general)	S/N	0.32	HTS-S	- 0.67
		09/91 TS	ID (general)	S/N	0.28	HTS-S	- 0.78
		09/91 TS	ID (general)	S/N	0.28	HTS-S	- 0.78
		09/91 TS	ID (general)	S/N	0.67	HTS-S	- 1.35
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 1.59
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 3.54
13	11	09/91 BOB	ID (general)	43 % TW	9.08	HTS-P	+12.69
		09/91 BOB	ID (general)	S/N	1.65	HTS-P	+13.78
13	25	09/91 TS	ID (general)	S/N	0.28	HTS-S	- 0.99
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 1.03
13	36	09/91 TS	ID (general)	S/N	0.63	HTS-S	- 2.09
13	45	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.08
13	65	09/91 BOB	ID (general)	63 % TW	7.51	HTS-P	+ 8.59
13	66	09/91 BOB	ID (general)	S/N	3.31	HTS-P	+12.76
13	77	09/91 BOB	ID (general)	S/N	1.75	HTS-P	+14.94
13	83	09/91 BOB	ID (general)	S/N	2.12	HTS-P	+10.90

Plant: McGuire Unit 1 Steam Generator: D  
Outages: 09/91 BOB 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 4 INDICATIONS OF IMPERFECTIONS

ROW	DATE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
13	90	09/91 TS	ID (general)	S/N	0.32	HTS-S	- 1.78
14	22	09/91 TS	ID (general)	S/N	0.24	HTS-S	- 1.07
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 1.07
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 1.11
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 1.11
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 1.11
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 1.15
14	29	09/91 SLV	ID (general)	S/N	3.56	HTS-P	+13.37
14	32	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 1.69
14	38	09/91 BOB	ID (general)	S/N	1.47	HTS-P	+14.45
14	48	09/91 BOB	ID (general)	S/N	1.93	HTS-P	+ 6.56
14	80	09/91 BOB	ID (general)	59 % TW	6.27	HTS-P	+ 9.55
15	27	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.16
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.12
15	37	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
15	38	09/91 BOB	ID (general)	S/N	6.14	HTS-P	+15.61
15	58	09/91 TS	ID (general)	S/N	0.32	HTS-S	- 1.69
15	59	09/91 BOB	ID (general)	S/N	4.61	HTS-P	+14.93
15	60	09/91 TS	ID (general)	S/N	0.28	HTS-S	- 0.79
15	76	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.04
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.04
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.04
15	80	09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.04
16	11	09/91 BOB	ID (general)	S/N	9.32	HTS-P	+14.96
16	13	09/91 BOB	ID (general)	S/N	4.01	HTS-P	+12.74
16	16	09/91 BOB	ID (general)	45 % TW	8.78	HTS-P	+12.29
		09/91 SLV	ID (general)	S/N	7.79	HTS-P	+14.65
		09/91 SI	ID (general)	S/N	0.30	HTS-P	+12.85
16	17	09/91 BOB	ID (general)	S/N	3.58	HTS-P	+10.97
16	20	09/91 BOB	ID (general)	S/N	1.69	HTS-P	+ 7.28
		09/91 BOB	ID (general)	S/N	3.41	HTS-P	+17.90
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.11
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 3.11
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 3.25
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 3.25
16	21	09/91 BOB	ID (general)	88 % TW	6.65	HTS-P	+17.05
		09/91 TS	ID (general)	S/N	7.43	HTS-S	- 3.53
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.73
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.73
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.73
16	57	09/91 BOB	ID (general)	S/N	7.01	HTS-P	+14.10
16	61	09/91 TS	ID (general)	S/N	0.24	HTS-S	- 1.38
16	65	09/91 BOB	ID (general)	S/N	8.39	HTS-P	+12.18
		09/91 TS	ID (general)	S/N	0.32	HTS-S	- 1.97
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 2.01
17	5	09/91 SLV	ID (general)	S/N	2.51	HTS-P	+14.52
17	12	09/91 BOB	ID (general)	S/N	1.39	HTS-P	+17.77
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 3.38
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 3.38
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.46
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 3.50
17	15	09/91 BOB	ID (general)	S/N	3.84	HTS-P	+15.49
17	24	09/91 BOB	ID (general)	78 % TW	4.09	HTS-P	+13.44
17	31	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.06
17	38	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
17	43	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
17	81	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 3.97
18	4	09/91 BOB	ID (general)	35 % TW	6.57	HTS-P	+10.98
18	10	09/91 SLV	ID (general)	S/N	3.55	HTS-P	+13.45
18	16	09/91 BOB	ID (general)	S/N	2.64	HTS-P	+15.67
18	73	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 2.20
18	34	09/91 BOB	ID (general)	S/N	2.09	HTS-P	+13.12
18	49	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.14
18	57	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
18	89	09/91 BOB	ID (general)	S/N	2.27	HTS-P	+12.62
18	96	09/91 BOB	ID (general)	S/N	2.74	HTS-P	+ 1.15

Plant: McDUFFE UNIT 1 Steam Generator: D  
Outages: 09/91 BOB 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 4 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	UNITS	OK/FLOW	INCHES
19	13	09/91 BOB	ID (general)	S/N	6.62	HTS-P	+10.87
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.12
19	22	09/91 BOB	ID (general)	S/N	1.39	HTS-P	+17.86
		09/91 TS	ID (general)	S/N	0.14	HTS-S	- 3.53
		09/91 TS	ID (general)	S/N	0.28	HTS-S	- 3.57
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.57
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 3.61
		09/91 TS	ID (general)	S/N	0.	HTS-S	- 3.61
		09/91 TS	ID (general)	S/N	0.	HTS-S	- 3.65
		09/91 TS	ID (general)	S/N	0.08	HTS-S	- 3.77
19	62	09/91 BOB	ID (general)	S/N	6.33	HTS-P	+ 7.42
		09/91 BOB	ID (general)	55 % TW	14.98	HTS-P	+13.51
19	70	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.77
19	87	09/91 BOB	ID (general)	S/N	1.56	HTS-P	+12.82
20	9	09/91 TS	ID (general)	S/N	0.39	HTS-S	- 3.00
20	17	09/91 BOB	ID (general)	S/N	1.71	HTS-P	+11.64
20	20	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 1.00
20	24	09/91 BOB	ID (general)	73 % TW	2.93	HTS-P	+ 8.58
20	38	09/91 BOB	ID (general)	S/N	1.53	HTS-P	+10.75
20	55	09/91 BOB	ID (general)	40 % TW	3.15	HTS-S	
		09/91 TS	ID (general)	S/N	0.28	HTS-S	+ 0.24
20	80	09/91 SLV	ID (general)	S/N	2.07	HTS-P	+12.97
20	90	09/91 BOB	ID (general)	S/N	1.75	HTS-P	+14.42
20	92	09/91 BOB	ID (general)	S/N	2.12	HTS-P	+11.52
21	12	09/91 TS	ID (general)	S/N	0.35	HTS-S	- 1.39
21	43	09/91 BOB	ID (general)	S/N	12.43	HTS-P	+ 9.58
21	56	09/91 TS	ID (general)	S/N	0.08	HTS-S	+ 0.67
21	87	09/91 BOB	ID (general)	S/N	2.31	HTS-P	+11.57
22	10	09/91 BOB	ID (general)	S/N	7.82	HTS-P	+16.67
		09/91 TS	ID (general)	S/N	0.08	HTS-S	- 4.19
22	30	09/91 BOB	ID (general)	S/N	1.74	HTS-P	+ 5.13
22	55	09/91 BOB	ID (general)	S/N	7.34	HTS-P	+ 6.18
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.04
22	58	09/91 BOB	ID (general)	S/N	13.68	HTS-P	+14.59
22	44	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
22	45	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
22	78	09/91 BOB	ID (general)	85 % TW	10.77	HTS-P	+17.88
		09/91 TS	ID (general)	S/N	0.35	HTS-S	- 2.82
		09/91 TS	ID (general)	S/N	0.35	HTS-S	- 2.82
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 2.82
		09/91 TS	ID (general)	S/N	0.39	HTS-S	- 2.86
		09/91 TS	ID (general)	S/N	0.17	HTS-S	- 2.86
		09/91 TS	ID (general)	S/N	0.06	HTS-S	- 2.86
		09/91 TS	ID (general)	S/N	0.28	HTS-S	- 2.90
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 2.90
		09/91 TS	ID (general)	S/N	0.28	HTS-S	- 2.94
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 2.98
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.02
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 3.02
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.02
22	80	09/91 SLV	ID (general)	48 % TW	6.04	HTS-P	+ 5.66
22	87	09/91 TS	ID (general)	S/N	0.32	HTS-S	- 1.35
23	11	09/91 TS	ID (general)	S/N	0.24	HTS-S	- 3.97
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 4.01
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 4.05
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 4.05
23	19	09/91 TS	ID (general)	S/N	0.28	HTS-S	- 3.97
23	31	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
23	36	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.12
23	46	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.04
23	47	09/91 TS	ID (general)	S/N	0.24	HTS-S	- 0.24
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.28
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.32
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.32
23	53	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.19
		09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.15
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 3.70

Plant: McGUIRE UNIT 1 Steam Generator: D  
Outages: 09/91 BOB 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 4 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
23	56	09/91 BOB	ID (general)	48 % TW	4.52	HTS-P	+10.03
23	66	09/91 TS	ID (general)	S/N	0.23	HTS-S	+ 0.08
23	92	09/91 BOB	ID (general)	48 % TW	7.07	HTS-P	+ 7.13
24	1	09/91 BOB	ID (general)	70 % TW	3.38	CTS-P	+16.93
24	1	09/91 TS	ID (general)	S/N	0.43	HTS-S	- 3.32
24	1	09/91 TS	ID (general)	S/N	0.28	HTS-S	- 3.36
24	23	09/91 BOB	ID (general)	S/N	4.42	HTS-P	+16.83
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 4.01
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 4.05
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 4.05
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 4.05
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 4.09
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 4.09
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 4.09
		09/91 TS	ID (general)	S/N	0.08	HTS-S	- 4.17
25	29	09/91 BOB	ID (general)	S/N	1.61	HTS-P	+ 4.69
25	37	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.20
		09/91 TS	ID (general)	S/N	0.32	CTS-S	+ 1.07
25	54	09/91 BOB	ID (general)	56 % TW	10.76	HTS-P	+11.36
25	79	09/91 BOB	ID (general)	S/N	6.43	HTS-P	+15.16
25	81	09/91 BOB	ID (general)	S/N	3.78	HTS-P	+11.50
		09/91 TS	ID (general)	S/N	0.24	HTS-S	
26	8	09/91 BOB	OD (general)	18 % TW	0.46		+27.94
		09/91 SI	OD (general)	S/N	0.55	3	+27.94
26	17	09/91 BOB	ID (general)	40 % TW	12.12	HTS-P	+11.91
26	44	09/91 TS	ID (general)	S/N	0.24	HTS-S	- 1.88
26	47	09/91 TS	ID (general)	S/N	0.24	HTS-S	- 2.86
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 2.86
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 2.90
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 2.90
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 2.90
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 2.90
27	66	09/91 BOB	ID (general)	68 % TW	4.51	HTS-P	+10.57
27	9	09/91 TS	ID (general)	S/N	0.28	HTS-S	+ 0.24
27	30	09/91 BOB	ID (general)	40 % TW	7.50	HTS-P	+10.27
27	53	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.16
27	62	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.08
27	69	09/91 BOB	ID (general)	75 % TW	14.16	HTS-P	+ 3.71
27	70	09/91 BOB	ID (general)	S/N	1.62	HTS-P	+18.99
		09/91 TS	ID (general)	S/N	0.28	HTS-S	- 1.69
		09/91 TS	ID (general)	S/N	0.28	HTS-S	- 1.69
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 1.73
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 1.73
		09/91 TS	ID (general)	S/N	0.28	HTS-S	- 1.73
27	82	09/91 BOB	ID (general)	S/N	1.90	HTS-P	+11.47
28	9	09/91 BOB	OD (general)	29 % TW	0.32	HTS-S	+ 1.93
28	55	09/91 SLV	ID (general)	48 % TW	5.69	HTS-P	+13.12
28	70	09/91 BOB	ID (general)	S/N	11.90	HTS-P	+ 4.29
29	34	09/91 BOB	ID (general)	S/N	1.78	HTS-P	+16.28
29	43	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.66
29	44	09/91 BOB	ID (general)	55 % TW	6.92	HTS-P	+ 1.63
29	46	09/91 BOB	ID (general)	53 % TW	4.78	HTS-P	+ 9.72
29	49	09/91 BOB	ID (general)	S/N	2.50	HTS-P	+16.66
29	66	09/91 BOB	ID (general)	75 % TW	4.54	HTS-P	+13.52
29	67	09/91 BOB	ID (general)	S/N	5.38	HTS-P	+11.57
29	70	09/91 BOB	ID (general)	S/N	2.53	HTS-P	+17.39
		09/91 TS	ID (general)	S/N	0.59	HTS-S	- 3.29
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 3.65
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 3.65
		09/91 TS	ID (general)	S/N	0.28	HTS-S	- 3.65
		09/91 TS	ID (general)	S/N	0.35	HTS-S	- 3.69
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 3.69
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 3.76
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 3.76
29	88	09/91 BOB	ID (general)	S/N	3.00	HTS-P	+12.54



Plant: McGUIRE UNIT 1 Steam Generator: D  
Out/In: 09/91 BOB 09/91 SLV 09/91 TS 09/91 SI

D.FRY: ATTACHMENT & INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
29	93	09/91 TS	ID (general)	S/N	0.63	HTS-S	- 3.24
30	23	09/91 TS	ID (general)	S/N	0.24	HTS-S	- 2.53
30	44	09/91 BOB	ID (general)	63 % TW	4.31	HTS-P	+16.72
		09/91 TS	ID (general)	S/N	0.28	HTS-S	- 3.64
		09/91 TS	ID (general)	S/N	0.32	HTS-S	- 3.68
		09/91 TS	ID (general)	S/N	0.32	HTS-S	- 3.68
		09/91 TS	ID (general)	S/N	0.28	HTS-S	- 3.72
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.72
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.72
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 3.76
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.76
		09/91 TS	ID (general)	S/N	0.08	HTS-S	- 3.84
30	51	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
30	52	09/91 SLV	ID (general)	S/N	3.16	HTS-P	+13.86
30	56	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
30	58	09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.12
30	61	09/91 BOB	ID (general)	48 % TW	4.04	HTS-P	+ 5.81
		09/91 BOB	ID (general)	S/N	1.63	HTS-P	+ 7.70
30	62	09/91 )	ID (general)	S/N	1.34	HTS-P	+16.45
		09/91 )	ID (general)	S/N	0.71	HTS-S	- 3.07
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 3.11
		09/91 TS	ID (general)	S/N	0.35	HTS-S	- 3.42
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 3.42
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 3.46
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.46
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 3.54
30	68	09/91 BOB	ID (general)	S/N	2.82	HTS-P	+13.00
30	69	09/91 BOB	ID (general)	S/N	1.74	HTS-P	+ 7.45
30	77	09/91 BOB	ID (general)	45 % TW	12.01	HTS-P	+13.22
31	16	09/91 BOB	ID (general)	S/N	4.18	HTS-P	+12.11
31	29	09/91 BOB	ID (general)	S/N	3.21	HTS-P	+18.18
		09/91 TS	ID (general)	S/N	0.32	HTS-S	- 2.48
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 2.52
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 2.56
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 2.60
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 2.64
31	38	09/91 BOB	ID (general)	S/N	8.84	HTS-P	+15.09
31	42	09/91 TS	ID (general)	S/N	0.28	HTS-S	- 2.55
31	47	09/91 TS	ID (general)	S/N	0.32	HTS-S	- 1.20
31	62	09/91 TS	ID (general)	S/N	0.16	HTS-S	-
		09/91 TS	ID (general)	S/N	0.20	HTS-S	-
		09/91 TS	ID (general)	S/N	0.16	HTS-S	-
31	70	09/91 BOB	ID (general)	50 % TW	10.58	HTS-P	+ 4.31
32	30	09/91 SLV	ID (general)	88 % TW	2.67	HTS-P	+13.53
32	43	09/91 BOB	ID (general)	58 % TW	3.19	HTS-P	+ 6.01
32	52	09/91 BOB	ID (general)	80 % TW	1.11	1	+ 0.03
32	64	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.16
32	68	09/91 BOB	ID (general)	S/N	0.75	17	+ 2.13
33	20	09/91 BOB	ID (general)	S/N	1.95	HTS-P	+ 7.14
33	23	09/91 BOB	ID (general)	55 % TW	2.92	HTS-P	+11.22
33	33	09/91 BOB	ID (general)	70 % TW	2.71	HTS-P	+17.24
		09/91 TS	ID (general)	S/N	0.32	HTS-S	- 3.56
		09/91 TS	ID (general)	S/N	0.32	HTS-S	- 3.64
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 3.68
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 3.68
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.68
		09/91 TS	ID (general)	S/N	0.32	HTS-S	- 3.68
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.72
		09/91 TS	ID (general)	S/N	0.04	HTS-S	- 3.80
33	39	09/91 BOB	ID (general)	S/N	1.13	HTS-P	+16.69
		09/91 TS	ID (general)	S/N	0.28	HTS-S	- 3.60
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 3.64
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.68
33	41	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
33	55	09/91 BOB	ID WEAR	17 % TW	0.60	AVB1	
33	59	09/91 TS	ID (general)	S/N	0.16	HTS-S	



Plant: McGUIRE UNIT 1 Steam Generator: D  
Outages: 09/91 BOB 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 4 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
33	60	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.08
33	83	09/91 BOB	ID (general)	55 % TW	14.53	HTS-P	+ 9.67
33	97	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.12
34	37	09/91 BOB	ID (general)	S/N	1.60	HTS-P	+ 7.72
34	47	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.04
34	60	09/91 BOB	ID (general)	S/N	4.04	HTS-P	+18.23
34	61	09/91 TS	ID (general)	S/N	0.32	HTS-S	- 3.57
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 3.65
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.69
34	88	09/91 BOB	ID (general)	S/N	1.80	HTS-P	+ 3.79
35	18	09/91 BOB	ID (general)	S/N	0.35	I	
35	22	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
35	47	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.89
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.93
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.93
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.93
		09/91 TS	ID (general)	S/N	0.04	HTS-S	- 0.01
		09/91 TS	ID (general)	S/N	0.43	HTS-S	- 0.70
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 3.86
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.86
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.90
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.90
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 3.90
35	53	09/91 BOB	ID (general)	40 % TW	1.69	HTS-S	
		09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.20
35	65	09/91 BOB	ID (general)	68 % TW	5.37	HTS-P	+14.30
35	72	09/91 BOB	ID (general)	S/N	1.92	HTS-P	+ 3.30
36	26	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
36	30	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.16
36	31	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.79
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.83
36	47	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 2.71
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 2.75
36	63	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.75
36	65	09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.83
36	92	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.35
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.35
37	26	09/91 BOB	ID (general)	53 % TW	8.40	HTS-P	+11.31
37	50	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.16
37	63	09/91 BOB	ID (general)	70 % TW	7.35	HTS-P	+12.77
37	84	09/91 BOB	ID (general)	53 % TW	4.94	HTS-P	+12.69
37	97	09/91 BOB	ID (general)	S/N	0.44	I	+ 0.10
38	17	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.20
38	19	09/91 BOB	ID (general)	S/N	5.86	HTS-P	+16.31
38	24	09/91 BOB	ID (general)	58 % TW	5.35	HTS-P	+16.59
38	40	09/91 BOB	ID (general)	88 % TW	2.87	HTS-P	+15.61
38	47	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.60
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.64
38	53	09/91 BOB	ID WEAR	14 % TW	0.50	AVB1	
38	63	09/91 BOB	ID (general)	S/N	3.72	HTS-P	+13.53
38	66	09/91 BOB	ID (general)	S/N	1.95	HTS-P	+12.59
38	72	09/91 BOB	ID (general)	S/N	1.93	HTS-P	+11.88
38	75	09/91 TS	ID (general)	S/N	0.16	HTS-S	- 2.48
38	77	09/91 SLV	ID (general)	50 % TW	4.54	HTS-P	+13.65
38	80	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 1.77
39	30	09/91 BOB	ID WEAR	14 % TW	0.48	AVB3	
		09/91 BOB	ID (general)	S/N	1.21	HTS-P	+16.21
39	30	09/91 BOB	ID (general)	S/N	5.48	HTS-P	+ 8.46
		09/91 BOB	ID (general)	S/N	2.11	HTS-P	+17.81
		09/91 TS	ID (general)	S/N	0.32	HTS-S	- 3.22
		09/91 TS	ID (general)	S/N	0.32	HTS-S	- 3.26
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 3.26
		09/91 TS	ID (general)	S/N	0.35	HTS-S	- 3.30
		09/91 TS	ID (general)	S/N	0.32	HTS-S	- 3.30
		09/91 TS	ID (general)	S/N	0.28	HTS-S	- 3.30
		09/91 TS	ID (general)	S/N	0.32	HTS-S	- 3.22
39	39	09/91 BOB	ID (general)	S/N	2.32	HTS-P	+ 9.83

Plant: McGuire Unit 1  
 Outages: 09/91 H04 09/91 SLV 09/91 TS 09/91 S1

Steam Generator: D

## QUERY: ATTACHMENT 4 INDICATIONS OF IMPERFECTIONS

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
39	45	09/91 BOB	ID (general)	65 % TW	4.38	HTS-P	+ 9.63
39	51	09/91 BOB	OD WEAR	12 % TW	0.38	AVB1	
39	52	09/91 BOB	ID (general)	S/N	7.19	HTS-P	+13.60
39	66	09/91 BOB	OD WEAR	10 % TW	0.34	AVB1	
39	67	09/91 BOB	ID (general)	S/N	3.25	HTS-P	+13.37
39	70	09/91 TS	ID (general)	S/N	0.15	HTS-S	- 3.82
39	75	09/91 BOB	ID (general)	95 % TW	6.00	HTS-P	+11.29
39	84	09/91 BOB	ID (general)	68 % TW	3.62	HTS-P	+12.55
40	23	09/91 TS	ID (general)	S/N	0.24	HTS-S	+ 0.24
40	30	09/91 TS	ID (general)	S/N	0.20	HTS-S	+ 0.08
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.04
		09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.04
40	31	09/91 TS	ID (general)	S/N	0.28	HTS-S	- 0.63
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.71
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 0.71
		09/91 TS	ID (general)	S/N	0.12	HTS-S	- 0.75
40	32	09/91 TS	ID (general)	S/N	0.32	HTS-S	- 3.27
40	40	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.24
		09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.12
40	41	09/91 BOB	ID (general)	65 % TW	6.86	HTS-P	+18.13
		09/91 TS	ID (general)	S/N	0.39	HTS-S	- 2.69
		09/91 TS	ID (general)	S/N	0.43	HTS-S	- 2.69
		09/91 TS	ID (general)	S/N	0.28	HTS-S	- 2.73
		09/91 TS	ID (general)	S/N	7.24	HTS-S	- 2.73
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 2.77
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 2.77
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 2.77
		09/91 TS	ID (general)	S/N	0.24	HTS-S	- 2.77
40	52	09/91 BC	ID (general)	S/N	1.56	HTS-P	+16.68
40	62	09/91 BOB	ID (general)	48 % TW	5.05	HTS-P	+12.44
40	66	09/91 BOB	OD WEAR	15 % TW	0.55	AVB1	
40	75	09/91 BOB	ID (general)	S/A	3.40	HTS-P	+ 9.87
40	93	09/91 BOB	OD WEAR	13 % TW	0.47	AVB1	
41	28	09/91 TS	ID (general)	S/N	0.28	HTS-S	- 0.55
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.55
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.55
41	52	09/91 TS	ID (general)	S/N	0.12	HTS-S	+ 0.04
41	53	09/91 BOB	ID (general)	S/N	2.56	HTS-P	+15.29
41	70	09/91 BOB	OD (general)	S/N	0.27	2	
41	95	09/91 BOB	OD (general)	S/N	0.36	HTS-S	+ 0.68
42	25	09/91 BOB	ID (general)	40 % TW	5.99	HTS-P	+16.25
42	70	09/91 TS	ID (general)	S/N	0.24	HTS-S	- 2.88
		09/91 TS	ID (general)	S/N	0.16	HTS-S	- 2.92
42	76	09/91 BOB	OD (general)	S/N	0.32	1	+ 0.08
43	46	09/91 BOB	OD WEAR	11 % TW	0.37	AVB1	
43	66	09/91 BOB	OD WEAR	12 % TW	0.42	AVB1	
44	31	09/91 BOB	ID (general)	S/N	4.46	HTS-P	+18.13
		09/91 TS	ID (general)	S/N	0.43	HTS-S	- 3.12
		09/91 TS	ID (general)	S/N	0.43	HTS-S	- 3.12
44	37	09/91 BOB	ID (general)	S/N	7.54	HTS-P	+15.73
44	49	09/91 BOB	OD WEAR	14 % TW	0.47	AVB1	
44	53	09/91 BOB	OD WEAR	17 % TW	0.64	AVB1	
44	66	09/91 BOB	OD WEAR	15 % TW	0.55	AVB1	
44	71	09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.16
45	26	09/91 BOB	ID (general)	65 % TW	1.51	HTS-P	+11.26
45	30	09/91 TS	ID (general)	S/N	0.16	HTS-S	+ 0.16
45	34	09/91 BOB	OD WEAR	15 % TW	0.53	AVB1	
45	48	09/91 BOB	OD WEAR	9 % TW	0.29	AVB1	
45	52	09/91 BOB	OD WEAR	15 % TW	0.53	AVB1	
45	57	09/91 BOB	OD WEAR	25 % TW	1.08	AVB1	
45	59	09/91 BOB	OD WEAR	30 % TW	1.42	AVB1	
45	60	09/91 BOB	OD WEAR	11 % TW	0.38	AVB1	
46	57	09/91 BOB	ID (general)	S/N	1.43	HTS-S	- 0.57
		09/91 TS	ID (general)	S/N	0.28	HTS-S	- 0.35
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.35
		09/91 TS	ID (general)	S/N	0.20	HTS-S	- 0.39

Plant: McGUIRE UNIT 1 Steam Generator: D  
Cutages: 09/91 BOB 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT A INDICATIONS OF IMPERFECTIONS

ROW	COL	CUTAGE	INDICATION	VALUE	VOLTS LOCATION	INCHES
46	78	09/91 TS	ID (general)	S/N	0.24 HTS-S	- 0.39
47	36	09/91 BOB	OD WEAR	19 % TW	2.10 AVB1	
47	42	09/91 BOB	ID (general)	S/N	0.33 3	+ 0.02
47	45	09/91 BOB	ID (general)	93 % TW	20.69 HTS-P	+ 1.50
47	46	09/91 BOB	ID (general)	S/N	3.55 HTS-P	+13.54
47	46	09/91 BOB	ID (general)	S/N	3.44 HTS-P	+10.62
47	46	09/91 BOB	OD (general)	S/N	1.70 20	+ 5.78
47	52	09/91 SI	OD (general)	S/V	1.23 20	+ 5.08
47	52	09/91 TS	ID (general)	S/N	0.20 HTS-S	- 0.68
47	78	09/91 BOB	OD WEAR	15 % TW	0.56 AVB1	
47	81	09/91 BOB	OD WEAR	12 % TW	0.41 AVB2	
47	81	09/91 BOB	ID (general)	S/N	1.17 HTS-P	+ 4.41
48	30	09/91 TS	ID (general)	S/N	0.16 HTS-S	- 3.51
49	32	09/91 TS	ID (general)	S/N	0.20 HTS-S	+ 0.08
49	33	09/91 TS	ID (general)	S/N	0.24 HTS-S	+ 0.17
49	38	09/91 BOB	OD WEAR	22 % TW	1.21 16	
49	62	09/91 BOB	ID (general)	55 % TW	7.24 HTS-P	+14.28
49	68	09/91 BOB	ID (general)	S/N	1.98 HTS-P	+19.89
49	69	09/91 TS	ID (general)	S/N	0.24 HTS-S	- 1.38
49	69	09/91 TS	ID (general)	S/N	0.20 HTS-S	- 1.42
49	69	09/91 TS	ID (general)	S/N	0.12 HTS-S	- 1.42
49	69	09/91 BOB	OD (general)	S/N	0.46 17	+ 0.07

TOTAL TUBES FOUND = 350  
TOTAL INDICATIONS FOUND = 625

Plant: MCGUIRE UNIT 1 Steam Generator: A  
Outages: 09/91 RFO 09/91 SCV 09/91 TS 09/91

QUERY: ATTACHMENT 5 TUBES PLUGGED OR REPAIRED

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
2	1	09/91 RFO	SLEEVED	Design 3	HTS-P	+11.00	
2	35	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
2	54	09/91 RFO	PLUGGED	MECH	HTS-P		
		09/91 RFO	PLUGGED	MECH	CTS-P		
2	57	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
2	71	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
2	75	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
2	80	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
2	87	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
2	88	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
2	104	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
3	33	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
3	50	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
3	86	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
3	89	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
4	46	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
4	65	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
4	72	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
4	80	09/91 RFO	PLUGGED	MECH	HTS-P		
		09/91 RFO	PLUGGED	MECH	CTS-P		
4	95	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
4	96	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
4	101	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
4	105	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
5	63	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
5	75	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
5	78	09/91 RFO	PLUGGED	MECH	HTS-P		
		09/91 RFO	PLUGGED	MECH	CTS-P		
5	98	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
5	106	09/91 RFO	PLUGGED	MECH	HTS-P		
		09/91 RFO	PLUGGED	MECH	CTS-P		
5	112	09/91 RFO	SLEEVED	Design 3	HTS-P	+11.00	
6	87	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
7	54	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
7	78	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
7	87	02/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
7	94	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
7	110	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
8	20	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
8	83	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
9	29	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
9	86	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
9	88	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
9	92	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
9	97	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
9	101	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
10	21	09/91 RFO	PLUGGED	MECH	HTS-P		
		09/91 RFO	PLUGGED	MECH	CTS-P		
10	60	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
10	68	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
10	70	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
10	76	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
10	83	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
10	104	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
11	57	02/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
11	61	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
11	112	09/91 RFO	SLEEVED	Design 3	HTS-P	+11.00	
12	59	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
12	79	09/91 RFO	PLUGGED	MECH	HTS-P		
		09/91 RFO	PLUGGED	MECH	CTS-P		
12	105	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
		09/91 RFO	PLUGGED	MECH	HTS-P		
		09/91 RFO	PLUGGED	MECH	CTS-P		
13	25	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
13	64	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
13	108	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
14	45	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	

Plant: McGUIRE UNIT 1 Steam Generator: A  
Outages: 09/91 RFO 09/91 SLV 09/91 TS 09/91 SJ

QUERY: ATTACHMENT IS TUBES PLUGGED OR REPAIRED

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
14	75	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
14	78	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
14	97	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
14	105	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
14	111	09/91 RFO	SLEEVED	Design 3	HTS-P	+11.00	
15	52	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
15	65	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
15	65	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
16	29	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
16	63	09/91 RFO	PLUGGED	MECH	HTS-P		
		09/91 RFO	PLUGGED	MECH	CTS-P		
16	66	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
16	70	09/91 RFO	PLUGGED	MECH	HTS-P		
		09/91 RFO	PLUGGED	MECH	CTS-P		
16	71	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
16	76	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
16	83	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
16	85	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
16	92	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
17	100	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
18	60	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
18	61	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
18	82	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
19	58	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
19	58	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
19	84	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
20	89	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
21	64	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
21	72	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
21	75	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
21	82	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
22	54	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
22	72	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
23	65	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
23	68	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
23	70	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
24	56	09/91 RFO	PLUGGED	MECH	HTS-P		
		09/91 RFO	PLUGGED	MECH	CTS-P		
24	57	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
24	61	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
24	78	09/91 RFO	PLUGGED	MECH	HTS-P		
		09/91 RFO	PLUGGED	MECH	CTS-P		
24	100	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
24	105	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
25	67	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
26	60	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
26	67	09/91 RFO	PLUGGED	MECH	HTS-P		
		09/91 RFO	PLUGGED	MECH	CTS-P		
26	79	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
27	65	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
27	68	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
27	71	09/91 RFO	PLUGGED	MECH	HTS-P		
		09/91 RFO	PLUGGED	MECH	CTS-P		
27	75	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
27	76	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
27	77	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
28	76	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
29	62	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
29	64	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
29	66	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
29	68	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
29	70	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
29	71	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
29	77	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
29	78	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
29	83	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
29	84	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	

Plant: MCGUIRE UNIT 1 Steam Generator: A  
Outages: 09/91 RFO 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 5 TUBES PLUGGED OR REPAIRED

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS LOCATION	INCHES
29	104	09/91 RFO	SLEEVED	Design 3	HTS-P	+11.00
30	61	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
30	68	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
30	71	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
30	74	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
30	77	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
30	78	09/91 RFO	PLUGGED	MECH	HTS-P	
		09/91 RFO	PLUGGED	MECH	CTS-P	
30	81	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
30	83	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
31	72	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
31	79	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
31	89	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
31	98	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
31	99	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
32	40	09/91 RFO	PLUGGED	MECH	HTS-P	
		09/91 RFO	PLUGGED	MECH	CTS-P	
32	67	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
32	101	09/91 RFO	SLEEVED	Design 3	HTS-P	+11.00
33	42	09/91 RFO	PLUGGED	MECH	HTS-P	
		09/91 RFO	PLUGGED	MECH	CTS-P	
33	50	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
33	52	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
33	58	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
33	94	09/91 RFO	SLEEVED	Design 3	HTS-P	+11.00
34	46	09/91 RFO	PLUGGED	MECH	HTS-P	
		09/91 RFO	PLUGGED	MECH	CTS-P	
34	67	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
34	86	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
35	59	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
35	71	09/91 RFO	PLUGGED	MECH	HTS-P	
		09/91 RFO	PLUGGED	MECH	CTS-P	
35	72	09/91 RFO	PLUGGED	MECH	HTS-P	
		09/91 RFO	PLUGGED	MECH	CTS-P	
35	74	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
35	82	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
36	77	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
36	83	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
36	85	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
37	69	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
38	78	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
38	93	09/91 RFO	SLEEVED	Design 3	HTS-P	+11.00
39	58	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
39	72	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
40	54	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
40	81	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
41	85	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
42	55	09/91 RFO	PLUGGED	MECH	HTS-P	
		09/91 RFO	PLUGGED	MECH	CTS-P	
42	80	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
43	80	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50
45	44	09/91 RFO	PLUGGED	MECH	HTS-P	
		09/91 RFO	PLUGGED	MECH	CTS-P	
49	66	09/91 RFO	PLUGGED	MECH	HTS-P	
		09/91 RFO	PLUGGED	MECH	CTS-P	
49	67	09/91 RFO	PLUGGED	MECH	HTS-P	
		09/91 RFO	PLUGGED	MECH	CTS-P	
49	68	09/91 RFO	PLUGGED	MECH	HTS-P	
		09/91 RFO	PLUGGED	MECH	CTS-P	
49	69	09/91 RFO	PLUGGED	MECH	HTS-P	
		09/91 RFO	PLUGGED	MECH	CTS-P	
49	70	09/91 RFO	PLUGGED	MECH	HTS-P	
		09/91 RFO	PLUGGED	MECH	CTS-P	
49	71	09/91 RFO	PLUGGED	MECH	HTS-P	
		09/91 RFO	PLUGGED	MECH	CTS-P	
49	73	09/91 RFO	PLUGGED	MECH	HTS-P	
		09/91 RFO	PLUGGED	MECH	CTS-P	

TOTAL TUBES FOUND \* 172  
TOTAL INDICATIONS FOUND \* 201

Plant: MCQUEEN UNIT 1 Steam Generator: B  
Outages: 09/91 RFO 1/9/91 SLV 09/91 TS 09/91 LT

QUERY: ATTACHMENT 6 TUBES PLUGGED OR REPAIRED

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
2	26	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
2	39	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
2	56	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
2	63	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
3	97	09/91 RFO	PLUGGED	MECH	CTS-P		
		09/91 RFO	PLUGGED	MECH	HTS-P		
4	15	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
4	78	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
4	102	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
5	6	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
5	7	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
6	35	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
6	39	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
6	42	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
6	45	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
6	53	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
6	90	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
7	9	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
7	78	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
8	35	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
8	43	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
8	68	09/91 RFO	PLUGGED	MECH	CTS-P		
		09/91 RFO	PLUGGED	MECH	HTS-P		
8	69	09/91 RFO	PLUGGED	MECH	CTS-P		
		09/91 RFO	PLUGGED	MECH	HTS-P		
9	67	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
10	37	09/91 RFO	PLUGGED	MECH	CTS-P		
		09/91 RFO	PLUGGED	MECH	HTS-P		
10	64	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
10	65	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
11	61	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
11	79	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
11	89	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
11	99	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
12	74	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
12	78	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
13	82	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
14	28	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
14	46	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
14	64	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
14	73	09/91 RFO	PLUGGED	MECH	CTS-P		
		09/91 RFO	PLUGGED	MECH	HTS-P		
18	9	09/91 RFO	PLUGGED	MECH	CTS-P		
		09/91 RFO	PLUGGED	MECH	HTS-P		
18	10	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
18	83	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
20	6	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
20	14	09/91 RFO	PLUGGED	MECH	CTS-P		
		09/91 RFO	PLUGGED	MECH	HTS-P		
20	35	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
20	39	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
20	102	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
21	56	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
22	12	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
22	63	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
22	72	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
23	22	09/91 RFO	PLUGGED	MECH	CTS-P		
		09/91 RFO	PLUGGED	MECH	HTS-P		
23	37	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
23	61	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
23	68	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
23	82	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
24	18	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
24	23	09/91 RFO	PLUGGED	MECH	CTS-P		
		09/91 RFO	PLUGGED	MECH	HTS-P		
24	43	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	
24	46	09/91 RFO	SLEEVED	Design 3	HTS-P	+17.50	



Plant: McGuire Unit 1 Steam Generator: B  
 Outages: 09/91 RFO 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 6 TUBES PLUGGED OR REPAIRED

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
24	88	09/91 RFO	PLUGGED	MECH		CTS-P	
		09/91 RFO	PLUGGED	MECH		HTS-P	
25	3R	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
26	21	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
26	22	09/91 TS	OBSTRUCTED	610 MILS		HTS-S	
26	49	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
26	53	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
26	62	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
27	43	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
27	74	09/91 RFO	PLUGGED	MECH		CTS-P	
		09/91 RFO	PLUGGED	MECH		HTS-P	
28	15	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
28	68	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
28	71	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
29	57	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
29	63	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
30	57	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
30	61	09/91 RFO	PLUGGED	MECH		CTS-P	
		09/91 RFO	PLUGGED	MECH		HTS-P	
31	13	09/91 RFO	SLEEVED	Design 3		HTS-P	+11.00
31	15	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
31	30	09/91 RFO	PLUGGED	MECH		CTS-P	
		09/91 RFO	PLUGGED	MECH		HTS-P	
31	69	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
31	79	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
32	21	09/91 RFO	PLUGGED	MECH		CTS-P	
		09/91 RFO	PLUGGED	MECH		HTS-P	
32	53	09/91 RFO	PLUGGED	MECH		CTS-P	
		09/91 RFO	PLUGGED	MECH		HTS-P	
32	68	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
33	19	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
33	75	09/91 RFO	PLUGGED	MECH		CTS-P	
		09/91 RFO	PLUGGED	MECH		HTS-P	
34	15	09/91 RFO	PLUGGED	MECH		CTS-P	
		09/91 RFO	PLUGGED	MECH		HTS-P	
34	55	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
35	47	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
35	54	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
37	49	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
38	44	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
38	98	09/91 RFO	SLEEVED	Design 3		HTS-P	+11.00
39	19	09/91 RFO	SLEEVED	Design 3		HTS-P	+11.00
39	21	09/91 RFO	SLEEVED	Design 3		HTS-P	+11.00
39	76	09/91 RFO	PLUGGED	MECH		CTS-P	
		09/91 RFO	PLUGGED	MECH		HTS-P	
40	31	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
40	34	09/91 RFO	PLUGGED	MECH		CTS-P	
		09/91 RFO	PLUGGED	MECH		HTS-P	
41	22	09/91 RFO	SLEEVED	Design 3		HTS-P	+11.00
41	25	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
41	27	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
41	47	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
41	61	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
41	85	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
41	87	09/91 RFO	SLEEVED	Design 3		HTS-P	+11.00
42	35	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
42	73	09/91 RFO	PLUGGED	MECH		CTS-P	
		09/91 RFO	PLUGGED	MECH		HTS-P	
43	34	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
43	35	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
43	36	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
44	28	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
44	33	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
44	60	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
44	65	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
45	61	09/91 RFO	SLEEVED	Design 3		HTS-P	+17.50
45	93	09/91 RFO	SLEEVED	Design 3		HTS-P	+11.00

Plant: McGUIRE UNIT 1 Steam Generator: B  
Outages: 09/91 RFO 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 6 TUBES PLUGGED OR REPAIRED  
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ROW	COL	UTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
46	33	09/91 RFO	PLUGGED	MECH		CTS-P	
		09/91 RFO	PLUGGED	MECH		HTS-P	
46	35	09/91 RFO	PLUGGED	MECH		CTS-P	
		09/91 RFO	PLUGGED	MECH		HTS-P	
47	84	09/91 RFO	SLEEVED	Design 3		HTS-P	+11.00
49	78	09/91 RFO	SLEEVED	Design 3		HTS-P	+11.00
TOTAL TUBES FOUND				=	118		
TOTAL INDICATIONS FOUND				=	140		



Plant: McGuire Unit 1 Steam Generator: C  
Outages: 09/91 BOB 09/91 SLV 09/91 TS 09/91 SJ

QUERY: ATTACHMENT 7 TUBES PLUGGED OR REPAIRED

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
21	55	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
21	64	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
21	65	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
21	68	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
21	79	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
22	62	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
22	69	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
24	38	09/91 BOB	PLUGGED	MECH	HTS-P		
		09/91 BOB	PLUGGED	MECH	CTS-P		
24	62	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
24	67	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
24	77	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
24	99	09/91 BOB	PLUGGED	MECH	HTS-P		
		09/91 BOB	PLUGGED	MECH	CTS-P		
25	53	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
25	68	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
25	71	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
27	39	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
27	42	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
27	44	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
27	73	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
27	104	09/91 BOB	SLEEVED	Design 3	HTS-P	+11.00	
27	106	09/91 BOB	SLEEVED	Design 3	HTS-P	+11.00	
28	61	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
28	79	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
31	48	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
31	53	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
31	76	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
31	79	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
32	69	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
33	29	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
33	49	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
34	64	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
34	77	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
36	95	09/91 BOB	SLEEVED	Design 3	HTS-P	+11.00	
38	39	09/91 BOB	PLUGGED	MECH	HTS-P		
		09/91 BOB	PLUGGED	MECH	CTS-P		
38	40	09/91 BOB	PLUGGED	MECH	HTS-P		
		09/91 BOB	PLUGGED	MECH	CTS-P		
39	36	09/91 BOB	PLUGGED	MECH	HTS-P		
		09/91 BOB	PLUGGED	MECH	CTS-P		
39	44	09/91 BOB	PLUGGED	MECH	HTS-P		
		09/91 BOB	PLUGGED	MECH	CTS-P		
41	92	09/91 BOB	SLEEVED	Design 3	HTS-P	+11.00	
44	88	09/91 BOB	SLEEVED	Design 3	HTS-P	+11.00	
46	64	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
46	85	09/91 BOB	SLEEVED	Design 3	HTS-P	+11.00	
46	87	09/91 BOB	SLEEVED	Design 3	HTS-P	+11.00	
48	81	09/91 BOB	SLEEVED	Design 3	HTS-P	+11.00	
49	64	09/91 BOB	PLUGGED	MECH	HTS-P		
		09/91 BOB	PLUGGED	MECH	CTS-P		
49	71	09/91 BOB	PLUGGED	MECH	HTS-P		
		09/91 BOB	PLUGGED	MECH	CTS-P		

TOTAL TUBES FOUND = 108  
TOTAL INDICATIONS FOUND = 120

Plant: McGUIRE UNIT 1 Steam Generator: D  
 Outages: 09/91 BOB 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 8 TUBES PLUGGED OR REPAIRED

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
2	16	09/91 BOB	PLUGGED	MECH		HTS-P	
		09/91 BOB	PLUGGED	MECH		CTS-P	
2	52	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
3	32	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
3	46	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
4	35	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
4	55	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
4	79	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
5	40	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
5	42	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
6	6	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
6	44	09/91 BOB	PLUGGED	MECH		HTS-P	
		09/91 BOB	PLUGGED	MECH		CTS-P	
6	69	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
6	91	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
6	101	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
7	71	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
7	76	09/91 BOB	PLUGGED	MECH		HTS-P	
		09/91 BOB	PLUGGED	MECH		CTS-P	
8	26	09/91 BOB	PLUGGED	MECH		HTS-P	
		09/91 BOB	PLUGGED	MECH		CTS-P	
8	6	09/91 BOB	PLUGGED	MECH		HTS-P	
		09/91 BOB	PLUGGED	MECH		CTS-P	
8	76	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
9	78	09/91 BOB	PLUGGED	MECH		HTS-P	
		09/91 BOB	PLUGGED	MECH		CTS-P	
9	90	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
9	88	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
10	12	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
10	43	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
10	60	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
10	72	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
10	75	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
10	84	09/91 BOB	PLUGGED	MECH		HTS-P	
		09/91 BOB	PLUGGED	MECH		CTS-P	
11	16	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
11	25	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
11	34	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
11	61	09/91 BOB	PLUGGED	MECH		HTS-P	
		09/91 BOB	PLUGGED	MECH		CTS-P	
11	67	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
11	75	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
11	77	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
11	81	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
11	82	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
11	94	09/91 BOB	PLUGGED	MECH		HTS-P	
		09/91 BOB	PLUGGED	MECH		CTS-P	
11	97	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
12	20	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
12	25	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
12	27	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
12	55	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
12	60	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
13	25	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
13	36	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
13	45	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
13	90	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
14	22	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
14	32	09/91 BOB	PLUGGED	MECH		HTS-P	
		09/91 BOB	PLUGGED	MECH		CTS-P	
15	27	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
15	37	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
15	58	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
15	61	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
15	76	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
15	80	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50
16	20	09/91 BOB	SLEEVED	Design 3		HTS-P	+17.50

Plant: McGuire Unit 1 Steam Generator: D  
Outages: 09/91 BOB 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 8 TUBES PLUGGED OR REPAIRED

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
16	61	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
16	65	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
17	31	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
17	38	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
17	43	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
18	49	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
18	57	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
19	13	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
19	70	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
20	9	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
20	20	09/91 BOB	PLUGGED	MECH	HTS-P		
		09/91 BOB	PLUGGED	MECH	CTS-P		
20	55	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
21	12	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
21	56	09/91 BOB	PLUGGED	MECH	HTS-P		
		09/91 BOB	PLUGGED	MECH	CTS-P		
22	35	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
22	44	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
22	45	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
22	78	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
22	87	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
23	19	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
23	31	09/91 LWB	SLEEVED	Design 3	HTS-P	+17.50	
23	36	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
23	46	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
23	47	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
23	53	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
23	66	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
25	37	09/91 BOB	PLUGGED	MECH	HTS-P		
		09/91 BOB	PLUGGED	MECH	CTS-P		
25	81	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
26	44	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
26	47	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
27	9	09/91 BOB	SLEEVED	Design 3	HTS-P	+11.00	
27	53	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
27	62	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
27	70	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
27	70	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
30	23	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
30	44	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
30	51	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
30	56	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
30	58	09/91 BOB	PLUGGED	MECH	HTS-P		
		09/91 BOB	PLUGGED	MECH	CTS-P		
31	41	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
31	62	09/91 BOB	PLUGGED	MECH	HTS-P		
		09/91 BOB	PLUGGED	MECH	CTS-P		
32	52	09/91 BOB	PLUGGED	MECH	HTS-P		
		09/91 BOB	PLUGGED	MECH	CTS-P		
32	64	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
33	39	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
33	41	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
33	59	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
33	60	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
33	97	09/91 BOB	SLEEVED	Design 3	HTS-P	+11.00	
34	47	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
34	61	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
35	22	09/91 BOB	PLUGGED	MECH	HTS-P		
		09/91 BOB	PLUGGED	MECH	CTS-P		
35	47	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
35	53	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
36	21	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
36	30	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
36	31	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
36	47	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
36	63	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
36	65	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	



Plant: McGuire Unit 1 Steam Generator: D  
Outages: 09/91 BOB 09/91 SLV 09/91 TS 09/91 SI

QUERY: ATTACHMENT 8 TUBES PLUGGED OR REPAIRED

ROW	COL	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
36	99	09/91 BOB	SLEEVED	Design 3	HTS-P	+11.00	
37	50	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
38	17	09/91 BOB	SLEEVED	Design 3	HTS-P	+11.00	
38	19	09/91 BOB	SLEEVED	Design 3	HTS-P	+11.00	
38	47	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
38	72	09/91 BOB	PLUGGED	MECH	HTS-P		
		09/91 BOB	PLUGGED	MECH	CTS-P		
38	80	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
40	23	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
40	30	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
40	31	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
40	32	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
40	40	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
40	41	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
41	28	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
41	52	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
42	26	09/91 BOB	PLUGGED	MECH	HTS-P		
		09/91 BOB	PLUGGED	MECH	CTS-P		
44	31	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
44	71	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
45	30	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
46	57	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
47	52	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	
49	32	09/91 BOB	SLEEVED	Design 3	HTS-P	+11.00	
49	33	09/91 BOB	SLEEVED	Design 3	HTS-P	+11.00	
49	68	09/91 BOB	SLEEVED	Design 3	HTS-P	+17.50	

TOTAL TUBES FOUND = 141  
TOTAL INDICATIONS FOUND = 160