

# ***Steam Generator Inspection Summary Report***

## ***McGuire Unit 1 January 1994 Tube Leak Outage***

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

NRC Docket No. 50-369

National Board No. 44

Commercial Service Date: December 1, 1981

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

Revision 0

Prepared By: *Malden Crump* Date: *2/29/00*

Reviewed By: *RK Cape* Date: *2/29/00*

Approved By: *Mous Sample* Date: *2/29/00*

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3	State of North Carolina Department of Labor C/o J. M. Givens, Jr.

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

**As required by the Provisions of the ASME Code Rules**

1. Owner: Duke Energy Corporation, 526 S. Church St., Charlotte, NC 28201-1006  
(Name and Address of Owner)
2. Plant: McGuire Nuclear Station, Highway 73, Cowans Ford, N. C. 28216  
(Name and Address of Plant)
3. Plant Unit: 1      4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date: December 1, 1981
6. National Board Number for Unit 44
7. Components Inspected:

<u>Component</u>	<u>Manufacturer</u>	<u>Manufacturer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
Steam Generator 1A	Westinghouse	1461	NC-178375	68-107
Steam Generator 1B	Westinghouse	1462	NC-178376	68-108
Steam Generator 1C	Westinghouse	1463	NC-178377	68-109
Steam Generator 1D	Westinghouse	1464	NC-178378	68-110

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8<sup>1</sup>/<sub>2</sub> in. x 11 in., (2) information in items 1 through 6 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

**FORM NIS-1 (Back)**

8. Examination Dates January 23, 1994 to February 25, 1994

9. Inspection Period Identification: 1<sup>st</sup> Period of the 2<sup>nd</sup> Interval

10. Inspection Interval Identification: 2<sup>nd</sup> Interval

11. Applicable Edition of Section XI 1986 Addenda None

12. Date/Revision of Inspection Plan: Tech Spec 3-4.4.5 Steam Generator 8/26/93 Revision

13. Abstract of Examinations and Test. Reference attached Inspection Summary Report dated 2/28/00.

14. Abstract of Results of Examination and Tests. Reference attached Inspection Summary Report dated 2/28/00.

15. Abstract of Corrective Measures. Reference attached Inspection Summary Report dated 2/28/00.

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

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

Date 2-29 20 00 Signed Duke Energy Corp. By Mous Sample  
Owner

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of North Carolina employed by \*The HSBI&I Co. of Hartford, Ct. have inspected the components described in this Owner's Report during the period 1-23-1994 to 2-25-1994, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in the Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

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

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

Date 3-2 2000

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

February 28, 2000

Gerald W Crump

Subject: McGuire Nuclear Station  
Unit 1 Steam Generator  
January, 1994, Leaker Outage

Dear Sir,

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

<u>Steam Generator</u>	<u>Tubes Inspected Full Length</u>
A	1
B	2
C	0
D	2

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

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

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

**Steam Generator**

**Attachment**

A	5
B	6
C	7
D	8

If further information is required, please call me at 875-5582.

Sincerely,



P D Christopher  
Eddy Current Data Administrator

PDC:pd

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FTI TUBAN II (Version 2.3) 02/28/2000 11:19:51  
McGuire Nuclear Station - Unit One  
S/G A  
01/94 LKR  
Bobbin, Sleeve Crosswound

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Page 1

ATTACHMENT #1 - INDICATIONS OF IMPERFECTIONS

INDS OF IMPERFECTIONS - SGA

ROW COL OUTAGE TEST TYPE

IND %TW VOLTS LOCATION

Total Indications Found = 0

Total Tubes Found = 0

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FTI TUBAN II (Version 2.3) 02/28/2000 11:19:12  
McGuire Nuclear Station - Unit One  
S/G B  
01/94 LKR  
Bobbin, Sleeve Crosswound

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ATTACHMENT #2 - INDICATIONS OF IMPERFECTIONS

INDS OF IMPERFECTIONS - SGB  
ROW COL OUTAGE TEST TYPE

IND %TW VOLTS LOCATION

Total Indications Found = 0  
Total Tubes Found = 0



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FTI TUBAN II (Version 2.3) 02/28/2000 11:18:41  
McGuire Nuclear Station - Unit One  
S/G C  
01/94 LKR  
Bobbin, Sleeve Crosswound

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Page 1

ATTACHMENT #3 - INDICATIONS OF IMPERFECTIONS

INDS OF IMPERFECTIONS - SGC

ROW COL OUTAGE TEST TYPE

IND %TW VOLTS LOCATION

Total Indications Found = 0  
Total Tubes Found = 0

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FTI TUBAN II (Version 2.3) 02/28/2000 11:17:48  
McGuire Nuclear Station - Unit One  
S/G D  
01/94 LKR  
Bobbin, Sleeve Crosswound

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Page 1

ATTACHMENT #4 - INDICATIONS OF IMPERFECTIONS

INDS OF IMPERFECTIONS - SGD

ROW COL OUTAGE TEST TYPE

IND %TW VOLTS LOCATION

11	75	01/94	Sleeve Crosswound	ODI	40	4.81	TTS-HL	+10.45
40	41	01/94	Sleeve Crosswound	ODI	40	3.53	TTS-HL	-3.08

• Total Indications Found = 2  
Total Tubes Found = 2

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02/29/2000 09:34:40

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McGuire Nuclear Station - Unit One

S/G A

01/94 LKR

Page 1

ATTACHMENT #5 - PLUGGED TUBES

COUNT	ROW	COL	COUNT	ROW	COL
1.	2	1	47.	6	87
2.	2	35	48.	6	96
3.	2	56	49.	6	110
4.	2	57	50.	7	54
5.	2	60	51.	7	55
6.	2	71	52.	7	80
7.	2	73	53.	7	82
8.	2	75	54.	7	87
9.	2	80	55.	7	94
10.	2	87	56.	7	107
11.	2	88	57.	7	110
12.	2	104	58.	8	20
13.	3	23	59.	8	54
14.	3	33	60.	8	83
15.	3	39	61.	8	86
16.	3	50	62.	8	93
17.	3	58	63.	8	106
18.	3	62	64.	9	29
19.	3	65	65.	9	53
20.	3	68	66.	9	86
21.	3	81	67.	9	88
22.	3	83	68.	9	91
23.	3	86	69.	9	92
24.	3	88	70.	9	96
25.	3	89	71.	9	97
26.	4	46	72.	9	101
27.	4	53	73.	9	105
28.	4	65	74.	9	106
29.	4	69	75.	9	107
30.	4	72	76.	10	60
31.	4	86	77.	10	68
32.	4	95	78.	10	70
33.	4	96	79.	10	72
34.	4	97	80.	10	74
35.	4	98	81.	10	76
36.	4	101	82.	10	104
37.	4	105	83.	10	109
38.	5	58	84.	11	26
39.	5	61	85.	11	57
40.	5	63	86.	11	61
41.	5	67	87.	12	103
42.	5	75	88.	12	106
43.	5	98	89.	13	25
44.	5	100	90.	13	64
45.	5	102	91.	13	83
46.	5	112	92.	13	108

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FTI TUBAN II (Version 2.3) 02/29/2000 09:34:40  
McGuire Nuclear Station - Unit One  
S/G A  
01/94 LKR

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Page 2

ATTACHMENT #5 - PLUGGED TUBES  
COUNT ROW COL

	COUNT	ROW	COL	COUNT	ROW	COL
93.	14	45	139.	21	69	
94.	14	73	140.	21	72	
95.	14	78	141.	21	74	
96.	14	79	142.	21	75	
97.	14	80	143.	21	82	
98.	14	88	144.	21	96	
99.	14	97	145.	22	54	
100.	14	105	146.	22	57	
101.	14	111	147.	22	59	
102.	15	52	148.	22	61	
103.	15	65	149.	22	63	
104.	15	82	150.	22	66	
105.	15	83	151.	22	71	
106.	15	84	152.	22	72	
107.	15	85	153.	22	73	
108.	15	91	154.	22	74	
109.	15	92	155.	22	75	
110.	15	94	156.	22	77	
111.	16	29	157.	22	82	
112.	16	62	158.	23	65	
113.	16	68	159.	23	66	
114.	16	71	160.	23	68	
115.	16	76	161.	23	69	
116.	16	79	162.	23	70	
117.	16	81	163.	23	74	
118.	16	85	164.	23	75	
119.	16	88	165.	23	77	
120.	16	110	166.	23	81	
121.	16	111	167.	24	61	
122.	17	100	168.	24	73	
123.	18	60	169.	24	87	
124.	18	61	170.	24	94	
125.	18	80	171.	25	64	
126.	18	82	172.	25	66	
127.	19	58	173.	25	67	
128.	19	68	174.	25	71	
129.	19	76	175.	25	74	
130.	19	78	176.	26	60	
131.	19	84	177.	26	66	
132.	20	60	178.	26	71	
133.	20	73	179.	26	72	
134.	20	77	180.	26	78	
135.	20	79	181.	26	79	
136.	20	89	182.	26	80	
137.	21	64	183.	26	81	
138.	21	67	184.	27	63	

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FTI TUBAN II (Version 2.3) 02/29/2000 09:34:40  
McGuire Nuclear Station - Unit One  
S/G A  
01/94 LKR

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Page 3

ATTACHMENT #5 - PLUGGED TUBES

COUNT	ROW	COL	COUNT	ROW	COL
185.	27	64	231.	32	67
186.	27	65	232.	32	77
187.	27	68	233.	32	101
188.	27	69	234.	33	40
189.	27	72	235.	33	52
190.	27	75	236.	33	58
191.	27	76	237.	33	77
192.	27	77	238.	33	86
193.	27	93	239.	33	93
194.	27	106	240.	33	94
195.	28	60	241.	34	67
196.	28	67	242.	34	86
197.	28	68	243.	35	53
198.	28	74	244.	35	59
199.	28	75	245.	35	74
200.	28	76	246.	35	82
201.	28	78	247.	35	84
202.	28	84	248.	36	83
203.	29	62	249.	36	85
204.	29	64	250.	36	99
205.	29	66	251.	37	69
206.	29	68	252.	38	77
207.	29	70	253.	38	80
208.	29	71	254.	38	93
209.	29	73	255.	40	54
210.	29	74	256.	40	81
211.	29	77	257.	40	95
212.	29	78	258.	41	85
213.	29	83	259.	41	86
214.	29	84	260.	42	80
215.	29	104	261.	43	80
216.	30	61	262.	44	74
217.	30	65			
218.	30	66			
219.	30	68			
220.	30	71			
221.	30	74			
222.	30	77			
223.	30	81			
224.	30	83			
225.	31	72			
226.	31	79			
227.	31	86			
228.	31	89			
229.	31	98			
230.	31	99			

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FTI TUBAN II (Version 2.3) 02/29/2000 09:34:40  
McGuire Nuclear Station - Unit One  
S/G A  
01/94 LKR

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Page 4

ATTACHMENT #5 - PLUGGED TUBES  
COUNT ROW COL

COUNT ROW COL

Total Data Items Found = 262  
Total Tubes Found = 262

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FTI TUBAN II (Version 2.3)

02/29/2000 11:01:53

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McGuire Nuclear Station - Unit One

S/G B

01/94 LKR

Page 1

ATTACHMENT #6 - PLUGGED TUBES

COUNT	ROW	COL	COUNT	ROW	COL
1.	2	26	47.	13	30
2.	2	39	48.	13	41
3.	2	56	49.	13	82
4.	3	30	50.	14	28
5.	3	44	51.	14	46
6.	4	15	52.	14	68
7.	4	26	53.	17	35
8.	4	45	54.	18	10
9.	4	78	55.	18	28
10.	4	102	56.	18	47
11.	5	6	57.	18	83
12.	5	7	58.	19	29
13.	5	37	59.	19	51
14.	5	43	60.	20	6
15.	6	20	61.	20	15
16.	6	26	62.	20	102
17.	6	35	63.	21	14
18.	6	38	64.	21	15
19.	6	39	65.	21	20
20.	6	41	66.	21	28
21.	6	42	67.	21	29
22.	6	44	68.	22	12
23.	6	45	69.	22	47
24.	6	53	70.	22	63
25.	6	90	71.	22	72
26.	7	9	72.	23	33
27.	7	10	73.	23	37
28.	7	78	74.	23	61
29.	8	16	75.	23	68
30.	8	35	76.	23	82
31.	8	43	77.	24	18
32.	9	67	78.	24	39
33.	10	26	79.	24	44
34.	10	64	80.	24	46
35.	10	65	81.	24	55
36.	11	12	82.	25	38
37.	11	27	83.	25	56
38.	11	31	84.	25	66
39.	11	38	85.	26	17
40.	11	61	86.	26	21
41.	11	79	87.	26	49
42.	11	89	88.	26	53
43.	11	99	89.	26	62
44.	12	74	90.	26	66
45.	12	78	91.	27	43
46.	13	18	92.	27	71

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FTI TUBAN II (Version 2.3) 02/29/2000 11:01:53  
McGuire Nuclear Station - Unit One  
S/G B  
01/94 LKR

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Page 2

ATTACHMENT #6 - PLUGGED TUBES

COUNT	ROW	COL	COUNT	ROW	COL
93.	28	15	139.	42	88
94.	28	68	140.	43	34
95.	28	71	141.	43	35
96.	29	56	142.	43	36
97.	29	57	143.	43	38
98.	29	63	144.	44	28
99.	30	22	145.	44	33
100.	30	57	146.	44	60
101.	31	13	147.	44	65
102.	31	15	148.	45	50
103.	31	23	149.	45	61
104.	31	48	150.	45	83
105.	31	54	151.	47	84
106.	31	69	152.	48	59
107.	31	79			
108.	32	42			
109.	32	68			
110.	33	19			
111.	33	76			
112.	34	53			
113.	34	55			
114.	35	41			
115.	35	46			
116.	35	47			
117.	35	49			
118.	35	54			
119.	36	45			
120.	36	64			
121.	37	49			
122.	38	43			
123.	38	44			
124.	39	19			
125.	39	21			
126.	39	64			
127.	39	82			
128.	41	22			
129.	41	25			
130.	41	27			
131.	41	34			
132.	41	41			
133.	41	42			
134.	41	47			
135.	41	61			
136.	41	85			
137.	42	35			
138.	42	36			



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FTI TUBAN II (Version 2.3) 02/29/2000 11:01:53  
McGuire Nuclear Station - Unit One  
S/G B  
01/94 LKR

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Page 3

ATTACHMENT #6 - PLUGGED TUBES  
COUNT ROW COL

COUNT ROW COL

Total Data Items Found = 152  
Total Tubes Found = 152

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FTI TUBAN II (Version 2.3) 02/29/2000 11:01:24  
McGuire Nuclear Station - Unit One  
S/G C  
01/94 LKR

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Page 1

ATTACHMENT #7 - PLUGGED TUBES

COUNT	ROW	COL	COUNT	ROW	COL
1.	2	94	47.	21	64
2.	2	105	48.	21	79
3.	2	108	49.	22	62
4.	2	109	50.	24	53
5.	2	111	51.	24	62
6.	3	64	52.	24	67
7.	3	102	53.	24	77
8.	4	71	54.	25	68
9.	4	77	55.	25	71
10.	4	81	56.	27	39
11.	4	93	57.	27	42
12.	4	101	58.	27	44
13.	4	105	59.	27	73
14.	5	68	60.	27	106
15.	5	80	61.	28	61
16.	5	95	62.	28	79
17.	5	101	63.	31	48
18.	5	103	64.	31	53
19.	7	106	65.	31	76
20.	7	113	66.	31	79
21.	8	72	67.	32	69
22.	8	98	68.	33	29
23.	10	55	69.	33	49
24.	10	86	70.	34	64
25.	11	51	71.	34	77
26.	11	98	72.	36	95
27.	11	113	73.	41	92
28.	12	68	74.	44	88
29.	12	78	75.	46	85
30.	13	78	76.	46	87
31.	13	111	77.	48	81
32.	15	102			
33.	16	35			
34.	16	44			
35.	16	50			
36.	17	54			
37.	18	58			
38.	18	73			
39.	18	88			
40.	18	89			
41.	19	49			
42.	19	90			
43.	20	88			
44.	20	89			
45.	20	94			
46.	21	55			

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FTI TUBAN II (Version 2.3) 02/29/2000 11:03:52  
McGuire Nuclear Station - Unit One  
S/G D  
01/94 LKR

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Page 1

ATTACHMENT #8 - PLUGGED TUBES  
COUNT ROW COL

	COUNT	ROW	COL	COUNT	ROW	COL
1.	2	52		47.	8	77
2.	2	71		48.	8	82
3.	2	74		49.	8	90
4.	2	87		50.	9	35
5.	3	32		51.	9	37
6.	3	35		52.	9	57
7.	3	39		53.	9	69
8.	3	42		54.	9	75
9.	3	46		55.	9	79
10.	3	56		56.	9	80
11.	3	68		57.	9	83
12.	4	17		58.	9	88
13.	4	27		59.	10	17
14.	4	28		60.	10	28
15.	4	30		61.	10	29
16.	4	31		62.	10	31
17.	4	32		63.	10	32
18.	4	36		64.	10	40
19.	4	55		65.	10	43
20.	4	62		66.	10	60
21.	4	63		67.	10	63
22.	4	64		68.	10	67
23.	4	79		69.	10	72
24.	5	19		70.	10	75
25.	5	25		71.	11	3
26.	5	40		72.	11	14
27.	6	6		73.	11	16
28.	6	30		74.	11	18
29.	6	37		75.	11	20
30.	6	65		76.	11	25
31.	6	69		77.	11	34
32.	6	79		78.	11	52
33.	6	91		79.	11	60
34.	6	101		80.	11	67
35.	7	11		81.	11	69
36.	7	15		82.	11	75
37.	7	39		83.	11	77
38.	7	57		84.	11	81
39.	7	62		85.	11	82
40.	7	71		86.	11	97
41.	7	78		87.	12	10
42.	8	9		88.	12	20
43.	8	28		89.	12	24
44.	8	42		90.	12	25
45.	8	62		91.	12	27
46.	8	76		92.	12	34

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FTI TUBAN II (Version 2.3)  
McGuire Nuclear Station - Unit One  
S/G D  
01/94 LKR

02/29/2000 11:03:52

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Page 2

ATTACHMENT #8 - PLUGGED TUBES

COUNT	ROW	COL	COUNT	ROW	COL
93.	12	35	139.	19	46
94.	12	60	140.	19	61
95.	12	62	141.	19	70
96.	12	63	142.	19	77
97.	12	81	143.	20	9
98.	13	25	144.	20	47
99.	13	26	145.	20	49
100.	13	29	146.	20	55
101.	13	33	147.	20	80
102.	13	36	148.	22	35
103.	13	45	149.	22	44
104.	13	46	150.	22	50
105.	13	60	151.	22	78
106.	13	61	152.	22	80
107.	13	62	153.	22	87
108.	13	90	154.	23	19
109.	14	22	155.	23	24
110.	14	29	156.	23	36
111.	14	30	157.	23	45
112.	14	60	158.	23	46
113.	14	86	159.	23	47
114.	15	27	160.	23	53
115.	15	37	161.	25	53
116.	15	58	162.	25	56
117.	15	60	163.	25	81
118.	15	62	164.	26	44
119.	15	76	165.	26	47
120.	15	80	166.	27	9
121.	16	20	167.	27	49
122.	16	61	168.	27	53
123.	17	5	169.	27	54
124.	17	18	170.	27	62
125.	17	31	171.	27	67
126.	17	38	172.	27	70
127.	17	43	173.	28	55
128.	18	10	174.	28	69
129.	18	13	175.	29	18
130.	18	14	176.	30	23
131.	18	15	177.	30	44
132.	18	31	178.	30	45
133.	18	54	179.	30	47
134.	18	55	180.	30	52
135.	18	57	181.	30	56
136.	19	10	182.	31	47
137.	19	13	183.	31	50
138.	19	31	184.	31	75

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FTI TUBAN II (Version 2.3) 02/29/2000 11:03:52  
McGuire Nuclear Station - Unit One  
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01/94 LKR

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Page 3

ATTACHMENT #8 - PLUGGED TUBES

COUNT	ROW	COL	COUNT	ROW	COL
185.	31	84	231.	46	57
186.	32	30	232.	47	52
187.	32	64	233.	48	81
188.	32	80			
189.	33	39			
190.	33	41			
191.	33	43			
192.	33	59			
193.	33	60			
194.	33	81			
195.	33	97			
196.	34	31			
197.	34	47			
198.	35	27			
199.	35	33			
200.	35	47			
201.	35	51			
202.	35	53			
203.	35	54			
204.	35	66			
205.	35	67			
206.	35	75			
207.	36	26			
208.	36	31			
209.	36	43			
210.	36	47			
211.	36	51			
212.	36	63			
213.	36	65			
214.	36	99			
215.	37	50			
216.	38	19			
217.	38	47			
218.	38	77			
219.	38	80			
220.	40	23			
221.	40	30			
222.	40	31			
223.	40	32			
224.	40	40			
225.	40	41			
226.	41	28			
227.	41	66			
228.	44	31			
229.	44	71			
230.	45	30			

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ATTACHMENT #8 - PLUGGED TUBES  
COUNT ROW COL

COUNT ROW COL

Total Data Items Found = 233  
Total Tubes Found = 233