

CALVERT CLIFFS

UNIT 1

STEAM GENERATORS #11 AND #12

EDDY CURRENT TESTING

FINAL REPORT

MAY/JUNE 1990

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I. INTRODUCTION

Zetec, Inc. and NDE Technology were contracted in January, 1990 to provide equipment and personnel assisting BG&E with the eddy current examination of the Calvert Cliffs Unit 1 Steam Generators in Lusby, Maryland. Zetec, Inc. provided twelve people for data acquisition and thirteen people for the primary data evaluation. NDE Technology provided four people for the secondary data evaluation.

This report summarizes the May/June, 1990 eddy current inspection results of Calvert Cliffs Unit 1 Steam Generators.

II. DISCUSSION

The MIZ-18A eddy current system and qualified operators inspected the Calvert Cliffs Unit 1 Steam Generators 11 and 12. The system uses eddy current as the probing media to measure variations in effective conductivity and/or permeability of the tube being tested.

An alternating voltage is impressed across the test coil. The magnetic field developed by current flow in the test coil causes eddy currents to flow in the tube wall. The corresponding magnetic field caused by eddy current flow in the tube wall is out of phase with the field developed by the current in the test coil. Since these fields tend to cancel one another, the coil voltage is decreased in proportion to the magnitude of eddy current flow in the test piece. The magnitude of eddy currents in the test piece, thus the coil voltage, is dependent on the electrical properties of the tube being tested. The electrical properties which affect the flow of eddy currents are permeability and conductivity. In non-magnetic materials, such as Ni-Cr-Fe alloys, conductivity is usually the only significant variable. When the effective conductivity decreases due to a discontinuity in the tube wall, the coil voltage increases in direct relationship with the effective conductivity change. Thus, the amount of increase in coil voltage is related to the size of the discontinuity in the tube wall. The coil voltage is sinusoidal, thus it can be described with a single vector having magnitude and phase.

The BG&E Technical Specification edc, current (ET) testing plan for the refueling outage selected 100% of the tubes for full length inspection each steam generator (SG).

The examination inspected 16,874 (100%) SG tubes through their entire length. 222 tubes had indications of 20% through-wall degradation or greater. Seven (7) tubes which exceeded the plugging limit of 40% thru wall degradation were removed from service.

As a preventative measure, 5 additional tubes with indications in the sludge pile area were plugged. Of these 5 additional tubes taken out of service, four were in SG 11 and one was in SG 12. Previous metallurgical examination of Unit 1 tubing has shown degradation in this area caused by Intergranular Attack (IGA). Even though these 5 tubes had indications less than the plugging limit, the tubes were plugged due to the potential for a local active IGA degradation mechanism.

SG's 11 and 12 were examined using the Zetec MIZ-18A digital data acquisition system. The frequencies selected were 800, 400, 100, and 30 KHz - all of which were run in the differential and absolute modes. The examination utilized a standard A.560-SF/RM bobbin coil probe. The MIZ-18A digital data acquisition system provided on-line data digitization and storage onto magnetic tape cartridges. The digital signal was also converted to analog where selected frequencies were recorded on strip chart media as an aid to the analyst.

Prior to any ET analysis, the primary, secondary, and Computer Data Screening (CDS) analysts were required to take a BG&E analyst qualification examination. All analysts passed the BG&E site specific test. In addition, CDS, with qualified analysts, was tested and passed the examination.

Each tube's ET data was analyzed by two independent teams of qualified and certified personnel and by computer analysis. Zetec Analysis Software Edition 18.6, Rev. 5 with strip charts was used by each team of analysts. Additionally, all stored digital data was analytically processed by Zetec's CDS program using HP350/360 computers. All distorted and pluggable indications were retested. After all data review was completed, the primary and secondary lead analysts compared results with the CDS results and a final report was produced. Any final resolution was performed by BG&E Level III personnel. Figure II-1 illustrates the outage data analysis process.

In addition to the standard Bobbin ET testing, a large number of tubes were inspected using motorized rotating pancake coil (MRPC) probes. A sample of approximately 20% of the tubes in each SG were examined with the MRPC technique on the hot leg side of the generators in the roll transition region at the top of the tubesheet. This sample was concentrated in the sludge pile region and included 50% of the tubes considered to be in the sludge pile. This expanded MRPC sample was performed to address concerns over circumferential cracking in this region found at other plants. Selected SG U-bend tubing was also inspected utilizing U-bend MRPC probes on both SG's. No evidence of circumferential cracking was detected in either steam generator.

Indications were found in a total of 234 tubes from the 8,421 tubes examined in SG 11 and 204 tubes from the 8,453 tubes examined in SG 12. Seven tubes were found to have indications which exceeded the Technical Specification plugging limit of 40% loss of nominal wall thickness. An additional 5 tubes were plugged as a preventative measure. Of the total 12 tubes plugged during this Inservice Inspection, 9 tubes were plugged in SG 11 and 3 tubes were plugged in SG 12. Table II-1 is a summary of the Calvert Cliffs Unit One 1990 Eddy Current examination results.

Various plots illustrating the locations and distribution of tube indications and a listing of tubes plugged this inspection for SG's 11 and 12 are provided in Appendix I and II respectively. The SG sketch in Appendix III shows the various tube support locations within the SG's and the nomenclature used throughout this report.

All indications found were on tube outside surfaces. The tubing ET indications can be placed into one of three major location categories:

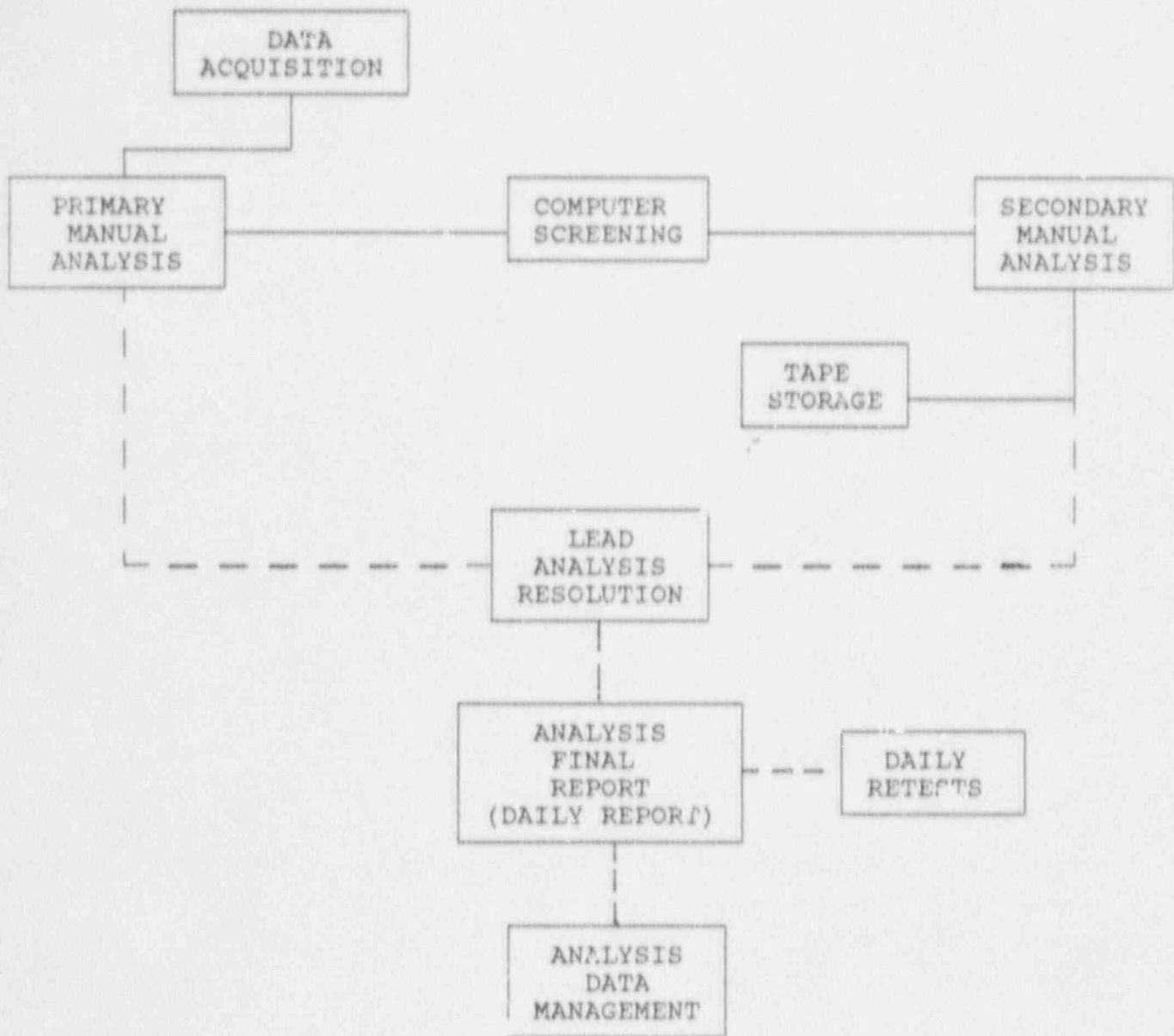
- just below and above the top of the tubesheet
- at supports, or
- in free span areas between and not associated with supports

These inspection results are similar to that reported for Calvert Cliffs Unit 2. There are no apparent differences between Unit 1 and Unit 2 that indicate a unique problem in any particular SG. This is to be expected since operating and chemistry conditions have remained similar between the two plants.

Indications found just below and above the top of the tubesheet are in regions of higher sludge levels. Most of these indications are on the inlet tubesheet side and produce relatively low magnitude signals. In late 1986, tube specimens underwent metallurgical and chemical evaluations. Results show that these indications are caused by IGA.

FIGURE II - 1

Data Analysis Process



- - - - = INFORMATION FLOW

———— = DATA TAPE FLOW

TABLE II - 1

Unit Two Eddy Current Inspection Results

	SG 11	SG 12
Number of Tubes Inspected	8,421	8,453
Percent of Tubes Inspected (full length)	100%	100%
Number of Distorted Indications	15	12
Number of Tubes with Distorted Indications	15	12
Percent of Tubes with Distorted Indications	0.18%	0.14%
Number of Indications <20% (Imperfections)	137	100
Number of Tubes with <20% Indications	134	98
Percent of Tubes with <20% Indications	1.59%	1.16%
Number of Indications 20-39% (Degraded)	118	118
Number of Tubes with 20-39% Indications	106	110
Percent of Tubes with 20-39% Indications	1.26%	1.30%
Number of Indications >39% (Defective)	6	2
Number of Tubes with >39% Indications	5	2
Percent of Tubes with >39% Indications	0.06%	0.02%
Number of Tubes Plugged this Outage	9	3
Total Tubes Plugged each Steam Generator	107	70

NOTE: Tubes which contained more than one indication in more than one category (20%, 20-39%, and 40% and greater), are listed in all appropriate categories.

ET indications seen at support locations appear to be caused by isolated, random tube wear. Wear marks at a support contact region were confirmed on one tube removed from SG 11 in 1983. Note that most indications at supports occur at the vertical middle (VM), diagonal (DH & DC), and vertical hot and cold (VH & VC) leg side supports.

ET indications seen in free span areas are typically low magnitude signals. Three tube specimens containing free span indications were removed from SG 11, one in November, 1983 and two in November, 1986. Investigations of the free span indications showed these indications are manufacturing imperfections. There is no correlation of free span indications with respect to location, elevation, inlet side or outlet side; tube manufacturing imperfections would be expected to produce random occurrences like this.

Corrective measures have been initiated to minimize further degradation to the SG's. During the 1986 outage the removal of all major copper components from the feedwater and condensate systems was completed. The installation of a nitrogen blanketing system on all condensate storage tanks is being completed to reduce auxiliary feedwater and condensate makeup oxygen.

Current chemistry procedures require action to be taken below the Utility/EPRI Steam Generator Reliability Project (SGRP) PWR Secondary Water Chemistry Guideline Action Levels. This enables corrective measures to be initiated before conditions become degraded in the SG's.

APPENDIX I

Eddy Current Test Results for SG 11

- A. List with Plot of All Indications
- B. List with Plot of <20% Indications
- C. List with Plot of 20% - 39% Indications
- D. List with Plot of >39% Indications
- E. List with Plot of Tubes Dented
- F. List with Plot of Tubes Plugged During May/June
1990
- G. List with Plot of all Tubes Plugged

STEAM GENERATOR 11

A. List with Plot of All Indications

All Eddy Current Indications - All Elevations

PLANT: CALVERT CLIFFS UNIT 1

GENERATOR: 11

OUTAGE: 5/90

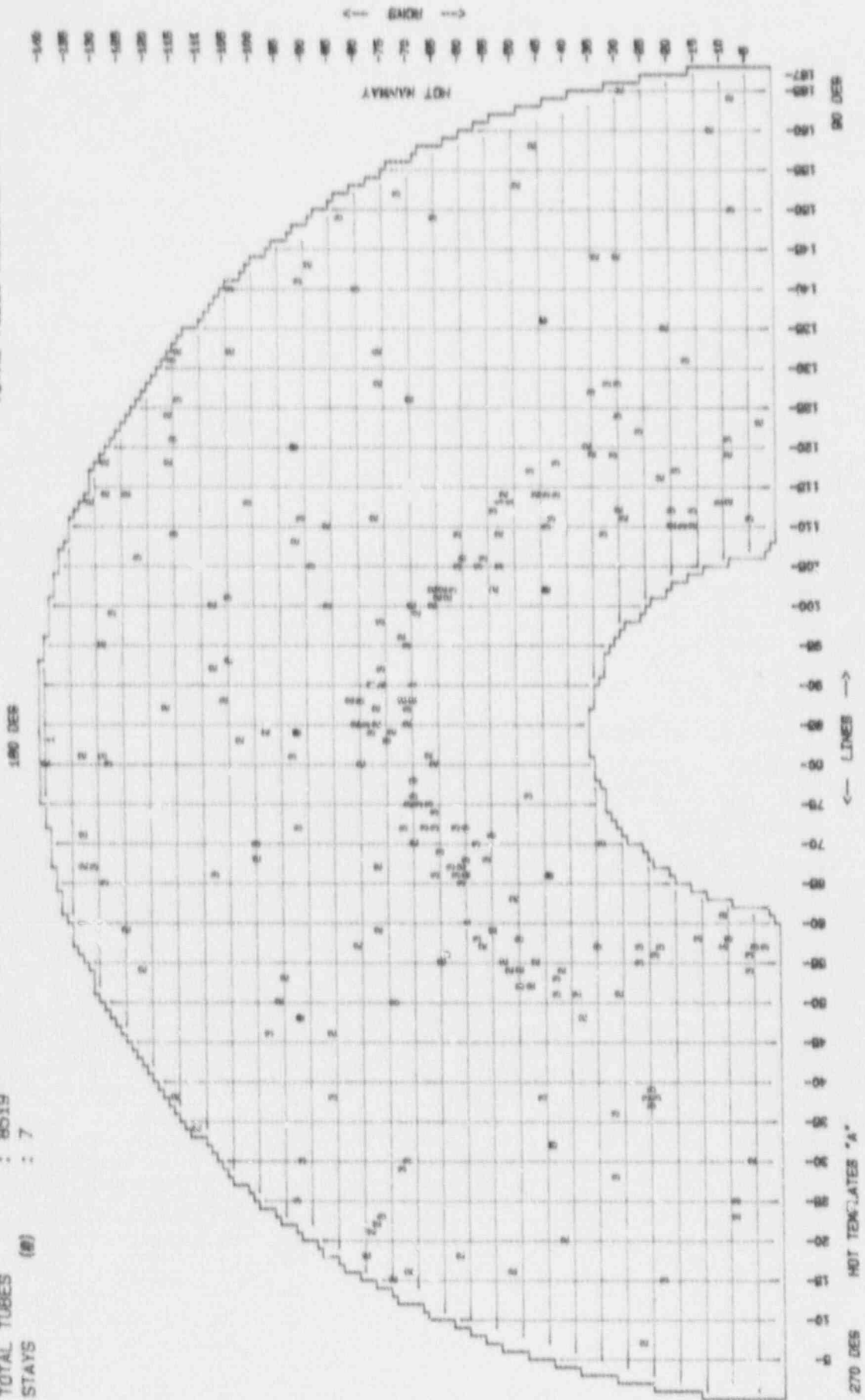
1 - >30 DB

2 - 20-30 (1.05)

3 - <20 (1.24)

TOTAL TUBES : 8519
STAYS : 7

TOTAL TUBES ASSIGNED : 234



Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 11

QUERY: All Eddy Current Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
27	7	5/90	OD	24	0.47	HTS-SF	+ 3.50
23	15	5/90	OD	16	0.43	CTS-SF	+ 5.40
75	15	5/90	OD	22	1.27	C1	+15.60
52	16	5/90	OD	28	0.75	C4	+ 2.80
72	16	5/90	OD	32	0.42	CTS-SF	+ 3.20
62	18	5/90	OD	34	0.57	C5	+ 1.40
80	18	5/90	OD	34	0.60	C1	+19.60
42	20	5/90	OD	34	0.71	H2	+21.60
79	21	5/90	OD	28	0.85	C1	+17.40
78	22	5/90	OD	31	0.51	C7	+ 8.60
9	23	5/90	OD	3	2.99	VM	+ 0.30
77	23	5/90	OD	4	0.65	VM	+ 2.60
9	25	5/90	OD	18	1.11	VM	
93	25	5/90	OD	6	0.94	VH	+26.60
32	28	5/90	OD	7	1.64	CTS-SF	+ 6.50
73	29	5/90	OD	8	0.78	C8	+12.30
6	30	5/90	OD	33	0.62	C2	+16.20
72	30	5/90	OD	13	0.69	C1	+26.60
92	30	5/90	OD	13	1.29	H5	+ 7.50
112	34	5/90	OD	32	0.51	C4	+34.40
32	36	5/90	OD	19	0.51	H2	+11.20
25	37	5/90	OD	16	0.64	HTS-SF	+ 1.00
24	38	5/90	OD	19	1.72	HTS-SF	+ 1.00
26	38	5/90	OD	7	0.81	HTS-SF	+ 1.10
46	38	5/90	OD	17	1.16	VM	- 0.10
86	38	5/90	OD	11	0.61	HTS-SF	+ 1.00
116	38	5/90	OD	37	0.91	C10	+ 1.00
25	39	5/90	OD	16	0.87	HTS-SF	+ 0.80
86	46	5/90	OD	33	1.42	C2	+10.20
98	46	5/90	OD	8	1.23	C1	+18.60
38	48	5/90	OD	28	0.52	HTS-SF	+ 1.70
74	50	5/90	OD	11	0.69	C1	+13.44
96	50	5/90	OD	26	0.79	C7	+12.30
31	51	5/90	OD	24	0.65	HTS-SF	+ 0.93
39	51	5/90	OD	11	0.73	HTS-SF	+ 2.10
43	51	5/90	OD	11	1.04	H1	+ 1.90
48	52	5/90	OD	25	0.60	HTS-SF	+ 0.60
50	52	5/90	OD	10	1.36	HTS-SF	+ 1.40
43	53	5/90	OD	11	1.16	HTS-SF	+ 2.40
95	53	5/90	OD	22	0.75	C4	+27.90
6	54	5/90	OD	11	0.49	C3	+ 9.60
42	54	5/90	OD	28	0.51	HTS-SF	+ 2.70
50	54	5/90	OD	24	1.71	HTS-SF	+ 0.90
52	54	5/90	OD	26	0.41	HTS-SF	+ 0.80
122	54	5/90	OD	27	0.65	H9	+19.90
27	55	5/90	OD	3	2.04	HTS-SF	+ 1.40
47	55	5/90	OD	22	0.44	HTS-SF	+ 1.70
53	55	5/90	OD	25	0.27	HTS-SF	+ 0.70
65	55	5/90	OD	36	0.86	H3	+ 1.20
6	56	5/90	OD	10	1.04	HTS-SF	+ 0.80
24	56	5/90	OD	10	0.95	HTS-SF	+ 0.90
64	56	5/90	OD	16	0.52	H4	+18.60
3	57	5/90	OD	18	0.59	HTS-SF	+ 0.70
5	57	5/90	OD	11	0.58	CTS-SF	+ 1.20
11	57	5/90	OD	16	0.72	CTS-SF	+ 0.80
23	57	5/90	OD	8	0.59	HTS-SF	+ 0.70
27	57	5/90	OD	8	0.74	HTS-SF	+ 0.70
35	57	5/90	OD	6	0.74	HTS-SF	+ 1.40
57	57	5/90	OD	21	2.10	HTS-SF	+ 0.80
81	57	5/90	OD	34	0.53	HTS-SF	+35.20
10	58	5/90	OD	10	0.71	HTS-SF	+ 2.20
16	58	5/90	OD	22	0.73	HTS-SF	+ 1.00
50	58	5/90	OD	8	0.97	HTS-SF	+ 3.00
58	58	5/90	OD	6	0.94	HTS-SF	+ 0.90
55	59	5/90	OD	22	1.04	HTS-SF	+ 1.00
77	59	5/90	OD	38	0.68	H6	+13.90
125	59	5/90	OD	4	0.69	C3	+16.60

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 11

QUERY: All Eddy Current Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
60	60	5/90	OD	22	0.87	C4	+ 3.30
		5/90	OD	63	0.70	HTS-SF	+ 0.80
		5/90	OD	16	1.35	HTS-SF	+ 1.70
11	61	5/90	OD	16	0.84	H4	+ 3.70
51	63	5/90	OD	37	0.62	HTS-SF	+ 2.00
61	65	5/90	OD	13	0.80	HTS-SF	+ 1.10
129	65	5/90	OD	17	0.89	H6	
60	66	5/90	OD	22	0.75	HTS-SF	+ 1.70
62	66	5/90	OD	10	1.21	HTS-SF	+ 2.40
66	66	5/90	OD	13	0.61	HTS-SF	+ 0.90
108	66	5/90	OD	17	1.04	HTS-SF	+ 1.40
61	67	5/90	OD	21	0.72	HTS-SF	+ 1.50
63	67	5/90	OD	17	0.63	HTS-SF	+ 0.60
77	67	5/90	OD	24	0.72	VH	+ 22.50
		5/90	OD	16	0.52	VH	+ 27.60
131	67	5/90	OD	12	1.49	CTS-SF	+ 3.10
133	67	5/90	OD	24	0.72	CTS-SF	+ 0.80
56	68	5/90	OD	71	1.37	HTS-SF	+ 1.60
60	68	5/90	OD	16	0.66	HTS-SF	+ 1.60
100	68	5/90	OD	29	0.78	C1	+ 21.10
65	69	5/90	OD	12	0.69	HTS-SF	+ 1.20
34	70	5/90	OD	15	1.21	CTS-SF	+ 0.40
58	70	5/90	OD	12	0.49	HTS-SF	+ 1.00
70	70	5/90	OD	25	1.10	HTS-SF	+ 1.00
100	70	5/90	OD	19	0.49	C4	+ 13.80
55	71	5/90	OD	13	0.56	HTS-SF	+ 1.40
133	71	5/90	OD	27	0.62	H3	+ 7.80
60	72	5/90	OD	4	0.57	HTS-SF	+ 1.60
62	72	5/90	OD	10	0.94	HTS-SF	+ 1.80
66	72	5/90	OD	17	1.21	HTS-SF	+ 1.80
68	72	5/90	OD	3	0.94	HTS-SF	+ 2.00
72	72	5/90	OD	18	0.84	HTS-SF	+ 1.40
92	72	5/90	OD	15	1.12	C2	+ 15.70
66	74	5/90	OD	7	1.37	HTS-SF	+ 1.90
67	75	5/90	OD	3	1.47	HTS-SF	+ 2.00
69	75	5/90	OD	18	0.42	HTS-SF	+ 2.20
71	75	5/90	OD	10	1.10	HTS-SF	+ 1.00
48	76	5/90	OD	16	1.04	C5	+ 31.60
70	76	5/90	OD	13	1.07	HTS-SF	+ 1.00
70	78	5/90	OD	19	1.15	HTS-SF	+ 2.30
66	80	5/90	OD	37	0.66	H3	+ 5.10
80	80	5/90	OD	37	0.52	H1	+ 29.50
		5/90	OD	28	0.75	H2	+ 18.40
128	80	5/90	OD	16	0.91	H4	+ 24.10
140	80	5/90	OD	29	0.70	CTS-SF	+ 19.50
67	81	5/90	OD	37	0.73	C5	+ 10.20
93	81	5/90	OD	12	1.15	C4	+ 15.00
129	81	5/90	OD	16	0.64	DH	+ 10.60
133	81	5/90	OD	29	0.84	C6	+ 11.20
75	83	5/90	OD	13	0.67	HTS-SF	+ 1.00
103	83	5/90	OD	28	0.67	H5	+ 4.60
		5/90	OD	22	0.86	H5	+ 8.20
		5/90	OD	12	0.60	H5	+ 16.80
139	83	5/90	OD	32	1.66	CTS-SF	+ 0.70
		5/90	OD	67	1.04	HTS-SF	+ 20.00
		5/90	OD	53	0.69	HTS-SF	+ 19.60
74	84	5/90	OD	25	0.72	HTS-SF	+ 9.60
78	84	5/90	OD	12	1.90	HTS-SF	+ 1.50
98	84	5/90	OD	26	0.61	CTS-SF	+ 21.80
71	85	5/90	OD	29	0.69	HTS-SF	+ 0.70
77	85	5/90	OD	27	1.05	HTS-SF	+ 1.60
79	85	5/90	OD	10	0.61	HTS-SF	+ 1.50
81	85	5/90	OD	27	0.72	H5	+ 17.00
71	87	5/90	OD	18	0.90	HTS-SF	+ 0.70
77	87	5/90	OD	31	1.01	HTS-SF	+ 0.40
		5/90	OD	17	0.94	HTS-SF	+ 1.50
117	87	5/90	OD	28	0.73	DC	+ 13.60

Plant: CALVERT CLIFFS UNIT 1
Outage: 5/90

Steam Generator: 11

QUERY: All Eddy Current Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES	
70	88	5/90	OD	21	TW	0.85	HTS - SF	+ 2.90
		5/90	OD	31	TW	0.66	HTS - SF	+ 0.80
72	88	5/90	OD	33	TW	1.21	HTS - SF	+ 0.60
80	88	5/90	OD	8	TW	0.56	HTS - SF	+ 0.80
82	88	5/90	OD	22	TW	0.93	C3	+ 29.50
106	88	5/90	OD	10	TW	2.00	VH	
70	90	5/90	OD	5	TW	0.62	HTS - SF	+ 1.10
76	90	5/90	OD	33	TW	1.80	HTS - SF	+ 2.20
78	90	5/90	OD	4	TW	1.36	HTS - SF	+ 0.70
76	92	5/90	OD	16	TW	1.54	HTS - SF	+ 1.60
108	92	5/90	OD	33	TW	0.81	H8	+ 5.10
		5/90	OD	33	TW	0.88	H7	+ 24.50
105	93	5/90	OD	7	TW	0.51	C1 - SF	+ 37.70
		5/90	OD	26	TW	0.74	C2	+ 35.90
		5/90	OD	12	TW	0.69	C4	+ 3.30
		5/90	OD	18	TW	1.03	C2	+ 12.80
		5/90	OD	36	TW	0.60	C1	- 0.10
71	95	5/90	OD	17	TW	0.73	HTS - SF	+ 1.30
129	95	5/90	OD	22	TW	0.66	C1	+ 10.50
72	96	5/90	OD	26	TW	0.54	H7	+ 3.40
76	98	5/90	OD	13	TW	0.77	H5	+ 4.90
69	99	5/90	OD	35	TW	0.76	HTS - SF	+ 0.80
127	99	5/90	OD	23	TW	1.25	C1	+ 34.00
66	100	5/90	OD	38	TW	0.47	HTS - SF	+ 2.00
70	100	5/90	OD	38	TW	0.49	HTS - SF	+ 1.10
		5/90	OD	19	TW	0.49	HTS - SF	+ 15.80
86	100	5/90	OD	23	TW	1.32	H2	+ 27.90
108	100	5/90	OD	23	TW	0.50	HTS - SF	+ 1.80
63	101	5/90	OD	2	TW	0.88	HTS - SF	+ 2.50
65	101	5/90	OD	34	TW	0.88	HTS - SF	+ 1.80
		5/90	OD	16	TW	1.08	HTS - SF	+ 1.80
105	101	5/90	OD	18	TW	0.82	C4	+ 19.90
54	102	5/90	OD	28	TW	0.62	HTS - SF	+ 0.60
62	102	5/90	OD	16	TW	1.03	HTS - SF	+ 2.00
64	102	5/90	OD	37	TW	0.53	HTS - SF	+ 1.60
		5/90	OD	13	TW	0.60	HTS - SF	+ 0.60
66	102	5/90	OD	4	TW	0.72	HTS - SF	+ 1.60
53	105	5/90	OD	15	TW	0.42	HTS - SF	+ 1.40
57	105	5/90	OD	18	TW	0.72	HTS - SF	+ 2.00
61	105	5/90	OD	17	TW	0.73	HTS - SF	+ 2.00
89	105	5/90	OD	18	TW	0.86	C3	+ 177.50
56	106	5/90	OD	12	TW	1.22	HTS - SF	+ 2.00
60	106	5/90	OD	10	TW	0.75	HTS - SF	+ 2.60
122	106	5/90	OD	10	TW	0.53	H9	+ 1.90
92	108	5/90	OD	7	TW	0.80	H5	+ 8.30
33	109	5/90	OD	16	TW	0.52	HTS - SF	+ 0.80
53	109	5/90	OD	38	TW	0.97	HTS - SF	+ 0.60
61	109	5/90	OD	19	TW	0.71	HTS - SF	+ 1.40
115	109	5/90	OD	13	TW	1.07	H8	+ 19.80
16	110	5/90	OD	3	TW	0.42	HTS - SF	+ 0.50
18	110	5/90	OD	22	TW	1.06	HTS - SF	+ 0.90
20	110	5/90	OD	2	TW	0.65	HTS - SF	+ 0.80
44	110	5/90	OD	16	TW	0.51	HTS - SF	+ 1.50
86	110	5/90	OD	33	TW	0.53	C1	+ 21.90
		5/90	OD	12	TW	0.89	C3	+ 11.20
5	111	5/90	OD	16	TW	0.73	HTS - SF	+ 1.70
29	111	5/90	OD	31	TW	0.45	HTS - SF	+ 0.80
43	111	5/90	OD	15	TW	0.43	HTS - SF	+ 1.80
77	111	5/90	OD	38	TW	0.64	H2	+ 29.00
91	111	5/90	OD	3	TW	0.60	H1	+ 15.30
16	112	5/90	OD	1	TW	0.99	HTS - SF	+ 1.50
20	112	5/90	OD	15	TW	0.50	HTS - SF	+ 1.20
30	112	5/90	OD	7	TW	0.94	HTS - SF	+ 1.20
54	112	5/90	OD	10	TW	0.88	HTS - SF	+ 1.00
9	113	5/90	OD	26	TW	0.86	HTS - SF	+ 0.80
11	113	5/90	OD	15	TW	1.01	HTS - SF	+ 1.00
51	113	5/90	OD	2	TW	0.46	HTS - SF	+ 0.90

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 11

QUERY: All Eddy Current Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
53	113	5/90	OD	4.88	0.67	H3	+ 0.70
101	113	5/90	OD	1.19	0.49	H1S	+ 1.90
131	113	5/90	OD	2.73	0.94	VM	+ 3.90
42	114	5/90	OD	1.55	0.47	H1S	+ 2.70
44	114	5/90	OD	1.66	0.67	H1S	+ 2.80
		5/90	OD	1.11	0.88	H1S	+ 2.40
46	114	5/90	OD	2.70	0.68	H1S	+ 3.10
22	114	5/90	OD	1.77	1.43	H1S	+ 0.50
124	114	5/90	OD	2.88	0.48	C3	+ 2.60
		5/90	OD	1.90	0.64	C3	+ 2.30
128	114	5/90	OD	1.13	0.69	H1S	+ 0.30
22	116	5/90	OD	1.37	0.77	H1	+ 2.00
19	117	5/90	OD	1.11	0.50	C2	+ 1.60
47	117	5/90	OD	1.11	0.91	H1S	+ 2.00
42	118	5/90	OD	1.11	0.97	H1S	+ 1.70
116	118	5/90	OD	1.33	0.64	C9	+ 1.00
128	118	5/90	OD	1.33	0.77	C6	+ 2.20
9	119	5/90	OD	1.22	1.30	VM	+ 2.80
31	119	5/90	OD	1.11	1.24	H1S	+ 0.70
35	119	5/90	OD	1.22	0.60	H1S	+ 0.70
36	120	5/90	OD	1.11	0.64	H1S	+ 0.90
9	121	5/90	OD	1.17	1.19	VM	+ 2.80
115	121	5/90	OD	1.16	0.65	C1	+ 3.80
26	122	5/90	OD	1.11	0.75	C1	+ 3.60
3	123	5/90	OD	1.23	0.59	C1	+ 1.00
30	124	5/90	OD	1.11	0.95	H1S	+ 0.80
116	124	5/90	OD	1.11	0.65	C3	+ 6.30
		5/90	OD	1.15	0.93	C3	+ 3.40
		5/90	OD	1.24	0.72	C1	+ 2.40
70	126	5/90	OD	1.17	0.68	C1	+ 2.50
114	126	5/90	OD	1.13	0.91	DH	+ 1.90
35	127	5/90	OD	1.13	0.43	H1S	+ 1.00
		5/90	OD	1.11	0.57	H1S	+ 0.80
30	128	5/90	OD	1.11	0.93	H1S	+ 1.00
32	128	5/90	OD	1.16	0.69	H1S	+ 0.90
76	128	5/90	OD	1.22	0.52	H3	+ 3.20
17	131	5/90	OD	1.11	0.65	C1S	+ 0.70
115	131	5/90	OD	1.13	1.14	DC	+ 2.50
76	132	5/90	OD	1.16	0.91	H4	+ 13.40
		5/90	OD	1.33	0.59	H4	+ 3.40
		5/90	OD	1.22	0.66	H5	+ 3.80
		5/90	OD	1.22	0.67	H5	+ 2.80
104	132	5/90	OD	1.22	1.16	H3	+ 2.60
114	132	5/90	OD	1.33	0.53	H5	+ 2.50
21	135	5/90	OD	1.11	0.40	H1S	+ 0.90
80	140	5/90	OD	1.15	0.58	H4	+ 4.70
104	140	5/90	OD	1.17	0.59	C3	+ 2.10
91	141	5/90	OD	1.10	0.62	H3	+ 3.60
89	143	5/90	OD	1.22	0.92	H2	+ 1.60
30	144	5/90	OD	1.22	0.66	C3	+ 2.60
34	144	5/90	OD	1.22	0.92	C4	+ 2.70
65	149	5/90	OD	1.10	0.93	H4	+ 3.40
83	149	5/90	OD	1.17	0.68	H2	+ 3.00
8	150	5/90	OD	1.17	1.80	VM	+ 2.20
72	152	5/90	OD	1.16	0.64	H3	+ 3.20
49	153	5/90	OD	1.22	0.82	H3	+ 2.60
46	158	5/90	OD	1.22	0.49	C4	+ 4.10
12	160	5/90	OD	1.22	0.54	H2	+ 1.80
8	164	5/90	OD	1.22	0.51	C4	+ 20.10
29	165	5/90	OD	1.24	0.77	H1S	+ 20.10

TOTAL TUBES FOUND = 234
 TOTAL INDICATIONS FOUND = 261
 TOTAL TUBES IN INPUT FILE = 6519
 TOTAL TUBES INSPECTED = 8421

STEAM GENERATOR 11

B. List with Plot of <20% Indications

Less Than 20% Eddy Current Indications - All Elevations

PLANT: CALVERT CLIFFS UNIT 1

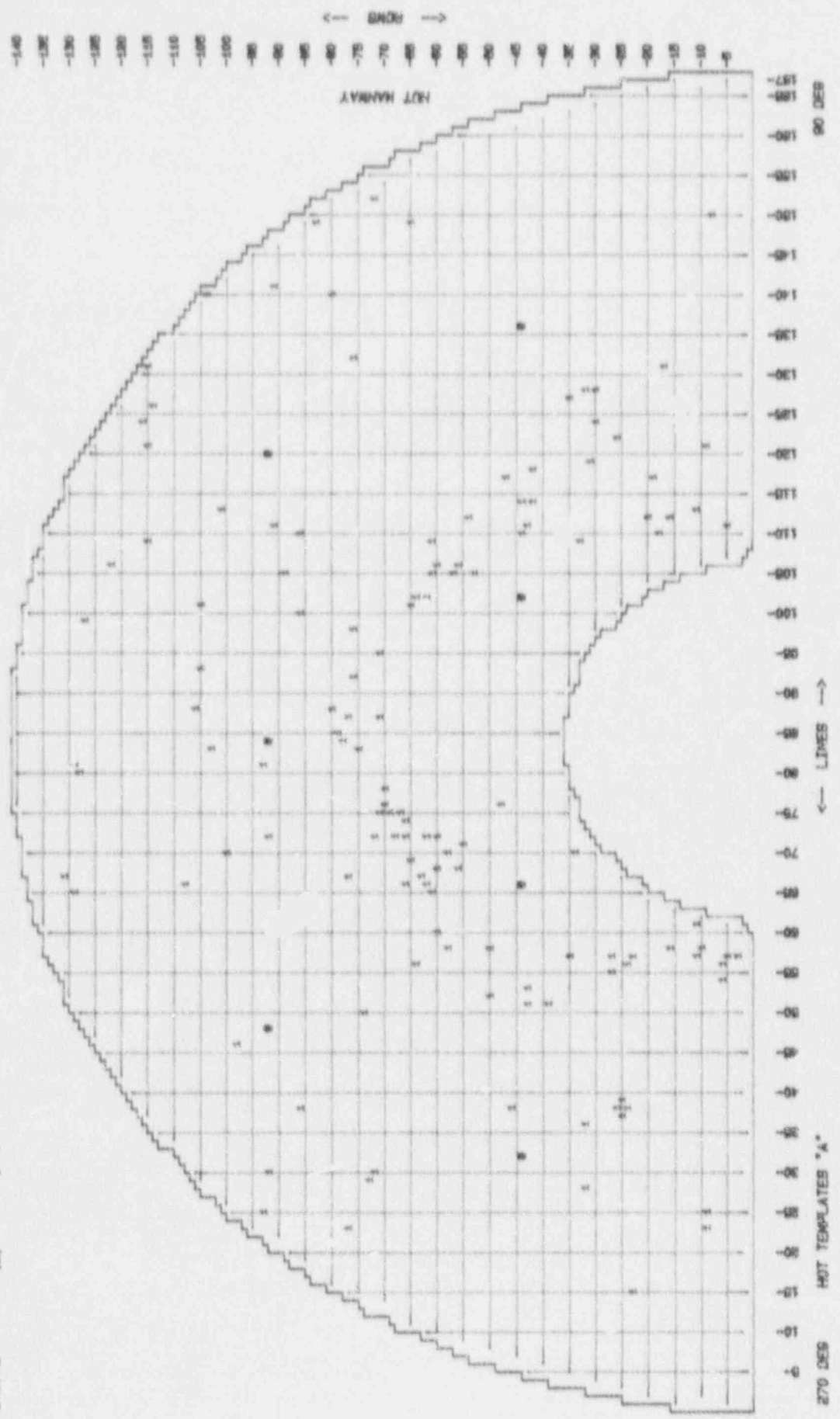
GENERATION: 11

OUTAGE: 5/90

1 - <20 (134)

TOTAL TUBES : 8519
STAYS : 7

TOTAL TUBES ASSIGNED : 134



Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 11

QUERY: Less Than 20% Eddy Current Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
23	15	5/90	OD	16	0.43	CTS-SF	+ 5.40
9	22	5/90	OD	3	2.93	VM	+ 0.30
77	33	5/90	OD	4	0.65	VM	+ 2.60
9	25	5/90	OD	18	1.11	VM	
93	35	5/90	OD	6	0.94	VM	+ 26.60
32	38	5/90	OD	7	1.54	CTS-SF	+ 6.50
73	39	5/90	OD	8	0.78	CB	+ 12.30
72	30	5/90	OD	13	0.69	C1	+ 26.60
92	30	5/90	OD	13	1.29	H5	+ 7.50
32	36	5/90	OD	19	0.51	H2	+ 11.20
25	37	5/90	OD	16	0.64	HTS-SF	+ 1.00
24	38	5/90	OD	19	1.72	HTS-SF	+ 1.00
26	38	5/90	OD	7	0.81	HTS-SF	+ 1.10
46	38	5/90	OD	17	1.16	VM	- 0.10
86	38	5/90	OD	11	0.61	HTS-SF	+ 1.00
25	39	5/90	OD	16	0.87	HTS-SF	+ 0.80
98	46	5/90	OD	8	1.23	C1	+ 18.60
74	50	5/90	OD	11	0.69	C1	+ 13.44
39	51	5/90	OD	11	0.73	HTS-SF	+ 2.10
43	51	5/90	OD	11	1.04	H1	+ 1.90
50	52	5/90	OD	10	1.36	HTS-SF	+ 1.40
43	53	5/90	OD	11	1.16	HTS-SF	+ 2.40
6	54	5/90	OD	11	0.49	C3	+ 9.60
27	55	5/90	OD	2	2.04	HTS-SF	+ 1.40
6	56	5/90	OD	10	1.04	HTS-SF	+ 0.80
24	56	5/90	OD	10	0.95	HTS-SF	+ 0.90
64	56	5/90	OD	16	0.52	H4	+ 18.60
3	57	5/90	OD	18	0.50	HTS-SF	+ 0.70
5	57	5/90	OD	11	0.58	CTS-SF	+ 1.20
11	57	5/90	OD	16	0.73	CTS-SF	+ 0.80
23	57	5/90	OD	8	0.59	HTS-SF	+ 0.70
27	57	5/90	OD	8	0.74	HTS-SF	+ 0.70
35	57	5/90	OD	6	0.74	HTS-SF	+ 1.40
10	58	5/90	OD	10	0.71	HTS-SF	+ 2.20
16	58	5/90	OD	2	0.73	HTS-SF	+ 1.00
50	58	5/90	OD	8	0.97	HTS-SF	+ 3.00
58	58	5/90	OD	6	0.94	HTS-SF	+ 0.90
60	60	5/90	OD	16	1.35	HTS-SF	+ 1.70
11	61	5/90	OD	16	0.84	H4	+ 3.70
61	65	5/90	OD	13	0.80	HTS-SF	+ 1.10
129	65	5/90	OD	17	0.89	H6	
62	66	5/90	OD	10	1.21	HTS-SF	+ 2.40
66	66	5/90	OD	13	0.61	HTS-SF	+ 0.90
108	66	5/90	OD	17	1.04	HTS-SF	+ 1.40
63	67	5/90	OD	17	0.63	HTS-SF	+ 0.60
77	67	5/90	OD	16	0.52	VH	+ 27.60
131	67	5/90	OD	12	1.49	CTS-SF	+ 3.10
56	68	5/90	OD	11	1.37	HTS-SF	+ 1.60
60	68	5/90	OD	16	0.66	HTS-SF	+ 1.60
65	69	5/90	OD	12	0.69	HTS-SF	+ 1.20
34	70	5/90	OD	15	1.21	CTS-SF	+ 0.40
58	70	5/90	OD	12	0.49	HTS-SF	+ 1.00
100	70	5/90	OD	19	0.49	C4	+ 13.80
55	71	5/90	OD	13	0.56	HTS-SF	+ 1.40
60	72	5/90	OD	4	0.57	HTS-SF	+ 1.60
62	72	5/90	OD	10	0.94	HTS-SF	+ 1.80
66	72	5/90	OD	17	1.21	HTS-SF	+ 1.80
68	72	5/90	OD	3	0.94	HTS-SF	+ 2.00
72	72	5/90	OD	18	0.84	VH	+ 1.40
92	72	5/90	OD	15	1.11	C2	+ 15.70
66	74	5/90	OD	7	1.37	HTS-SF	+ 1.90
67	75	5/90	OD	3	1.47	HTS-SF	+ 2.00
69	75	5/90	OD	18	0.42	HTS-SF	+ 2.20
71	75	5/90	OD	10	1.10	HTS-SF	+ 1.00
48	76	5/90	OD	16	1.04	C5	+ 31.60
70	76	5/90	OD	13	1.07	HTS-SF	+ 1.00
70	78	5/90	OD	19	1.15	HTS-SF	+ 2.30

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 11

QUERY: Less Than 20% Eddy Current Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
128	80	5/90	OD	16	0.91	H4	+24.10
93	81	5/90	OD	12	1.15	C4	+15.00
129	81	5/90	OD	16	0.64	DH	+10.60
75	83	5/90	OD	13	0.67	HTS - SF	+ 1.00
103	83	5/90	OD	12	0.60	H5	+16.80
78	84	5/90	OD	12	1.90	HTS - SF	+ 1.50
79	85	5/90	OD	10	0.61	HTS - SF	+ 1.50
71	87	5/90	OD	18	0.90	HTS - SF	+ 0.70
77	87	5/90	OD	17	0.94	HTS - SF	+ 1.50
80	88	5/90	OD	8	0.56	HTS - SF	+ 0.80
106	88	5/90	OD	10	2.00	VH	
76	92	5/90	OD	16	1.54	HTS - SF	+ 1.60
105	92	5/90	OD	12	0.69	C4	+ 3.30
		5/90	OD	18	1.03	C2	+12.80
71	95	5/90	OD	17	0.73	HTS - SF	+ 1.30
76	98	5/90	OD	13	0.77	H5	+ 4.90
127	99	5/90	OD	12	1.25	C1	+34.00
86	100	5/90	OD	19	0.49	HTS - SF	+15.80
65	101	5/90	OD	16	1.08	HTS - SF	+ 1.80
105	101	5/90	OD	18	0.82	C4	+19.90
62	102	5/90	OD	16	1.02	HTS - SF	+ 2.00
64	102	5/90	OD	13	0.60	HTS - SF	+ 0.60
53	105	5/90	OD	15	0.42	HTS - SF	+ 1.40
57	105	5/90	OD	18	0.72	HTS - SF	+ 2.00
61	105	5/90	OD	17	0.73	HTS - SF	+ 2.00
89	105	5/90	OD	18	0.86	C3	+ 17.50
56	106	5/90	OD	12	1.22	HTS - SF	+ 2.00
60	106	5/90	OD	17	0.75	HTS - SF	+ 2.60
122	106	5/90	OD	10	0.53	H9	+ 1.90
33	109	5/90	OD	16	0.52	HTS - SF	+ 0.80
61	109	5/90	OD	19	0.71	HTS - SF	+ 1.40
115	109	5/90	OD	13	1.07	H8	+19.80
18	110	5/90	OD	22	1.06	HTS - SF	+ 0.90
44	110	5/90	OD	16	0.51	HTS - SF	+ 1.50
86	110	5/90	OD	12	0.89	C3	+11.20
5	111	5/90	OD	16	0.73	HTS - SF	+ 1.70
43	111	5/90	OD	15	0.43	HTS - SF	+ 1.60
91	111	5/90	OD	3	0.60	H1	+15.20
16	112	5/90	OD	12	0.99	HTS - SF	+ 1.50
20	112	5/90	OD	15	0.50	HTS - SF	+ 1.20
54	112	5/90	OD	10	0.68	HTS - SF	+ 1.00
11	113	5/90	OD	15	1.01	HTS - SF	+ 1.00
101	113	5/90	OD	19	0.49	HTS - SF	+13.90
42	114	5/90	OD	13	0.47	HTS - SF	+ 2.70
44	114	5/90	OD	16	0.87	HTS - SF	+ 2.80
		5/90	OD	11	0.88	HTS - SF	+22.40
19	117	5/90	OD	19	0.50	C2	+ 17.60
47	117	5/90	OD	11	0.91	HTS - SF	+ 2.00
42	118	5/90	OD	19	0.97	HTS - SF	+ 1.70
31	119	5/90	OD	12	1.24	HTS - SF	+ 0.70
9	121	5/90	OD	17	1.19	VM	
115	121	5/90	OD	16	0.65	HTS - SF	+ 35.80
26	122	5/90	OD	16	0.75	HTS - SF	+ 8.60
30	124	5/90	OD	13	0.97	HTS - SF	+ 0.80
116	124	5/90	OD	15	0.95	C2	+34.00
114	126	5/90	OD	7	0.91	DH	+12.90
35	127	5/90	OD	15	0.43	HTS - SF	+ 1.00
		5/90	OD	13	0.57	HTS - SF	+ 0.80
30	128	5/90	OD	11	0.92	HTS - SF	+ 1.00
32	128	5/90	OD	16	0.69	HTS - SF	+ 0.90
17	131	5/90	OD	11	0.65	HTS - SF	+ 0.70
115	131	5/90	OD	13	1.14	DC	
76	132	5/90	OD	16	0.91	H4	+20.50
80	140	5/90	OD	15	0.58	H4	+24.70
104	140	5/90	OD	17	0.59	C3	+21.00
91	141	5/90	OD	10	0.62	H3	+36.60
65	149	5/90	OD	10	0.93	H4	+34.40

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 11

QUERY: Less Than 20% Eddy Current Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
83	149	5/90	OD	15 % TW	0.68	H2	+ 8.00
8	150	5/90	OD	10 % TW	1.80	VM	
72	152	5/90	OD	16 % TW	0.64	H3	+32.20
TOTAL TUBES FOUND			=	134			
TOTAL INDICATIONS FOUND			=	137			
TOTAL TUBES IN INPUT FILE			=	8519			
TOTAL TUBES INSPECTED			=	8421			

STEAM GENERATOR 11

C. List with Plot of 20% - 39% Indications

20-39% EDDY CURRENT INDICATIONS - ALL ELEVATIONS

PLANT: CALVERT CLIFFS UNIT 1

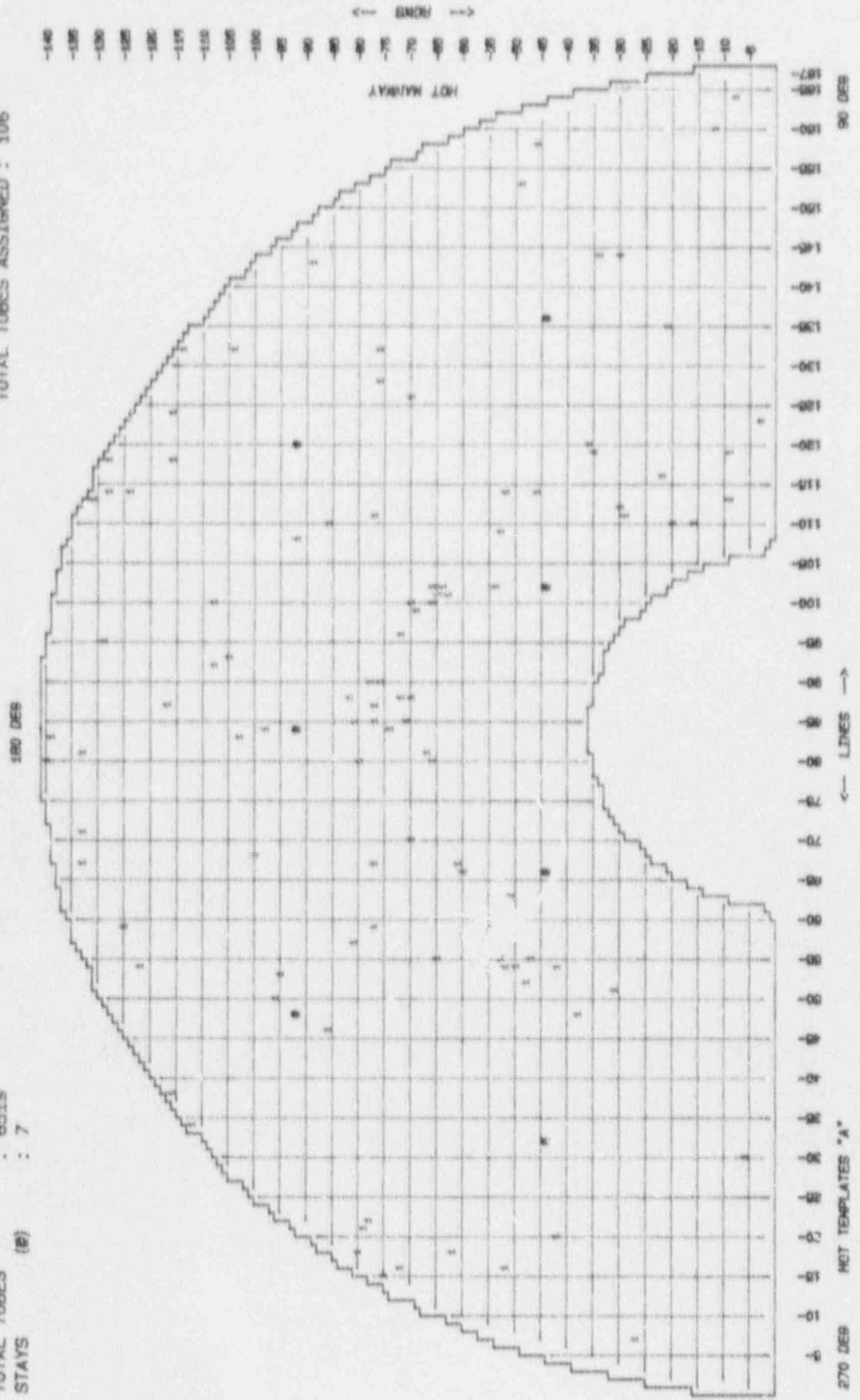
GENERATOR 11

OUTAGE: 5/90

1 - 20-39 (106)

TOTAL TUBES : 8515
STAYS : 7

TOTAL TUBES ASSIGNED : 106



Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 11

QUERY: 20-39% EDDY CURRENT INDICATIONS - ALL ELEVATIONS

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
27	7	5/90	OD	0.47	HTS-SF	+ 3.50	
75	15	5/90	OD	1.27	C1	+15.60	
52	16	5/90	OD	0.75	C4	+ 2.80	
72	16	5/90	OD	0.42	CTS-SF	+ 3.20	
62	18	5/90	OD	0.57	C5	+ 1.40	
80	18	5/90	OD	0.60	C1	+19.60	
42	20	5/90	OD	0.71	H2	+21.60	
79	21	5/90	OD	0.85	C1	+17.40	
78	22	5/90	OD	0.51	C7	+ 8.60	
6	30	5/90	OD	0.62	C2	+16.20	
112	34	5/90	OD	0.51	C4	+34.40	
116	38	5/90	OD	0.91	C10	+ 1.00	
86	46	5/90	OD	1.42	C2	+10.20	
38	48	5/90	OD	0.52	HTS-SF	+ 1.70	
96	50	5/90	OD	0.79	C7	+12.30	
31	51	5/90	OD	0.65	HTS-SF	+ 0.93	
48	52	5/90	OD	0.60	HTS-SF	+ 0.60	
95	53	5/90	OD	0.75	C4	+27.90	
42	54	5/90	OD	0.61	HTS-SF	+ 2.70	
50	54	5/90	OD	1.71	HTS-SF	+ 0.90	
52	54	5/90	OD	0.41	HTS-SF	+ 0.80	
122	54	5/90	OD	0.55	H9	+19.90	
47	55	5/90	OD	0.44	HTS-SF	+ 1.70	
53	55	5/90	OD	2.27	HTS-SF	+ 0.70	
65	55	5/90	OD	0.86	H3	+ 1.20	
57	57	5/90	OD	2.10	HTS-SF	+ 0.80	
81	57	5/90	OD	0.53	HTS-SF	+35.20	
55	59	5/90	OD	1.04	HTS-SF	+ 1.00	
77	59	5/90	OD	0.68	H6	+13.90	
125	59	5/90	OD	0.69	C3	+16.60	
51	63	5/90	OD	0.87	C4	+ 3.30	
60	66	5/90	OD	0.62	HTS-SF	+ 2.00	
61	67	5/90	OD	0.75	HTS-SF	+ 1.70	
77	67	5/90	OD	0.72	HTS-SF	+ 1.50	
133	67	5/90	OD	0.72	VH	+22.50	
100	68	5/90	OD	0.72	CTS-SF	+ 0.80	
70	70	5/90	OD	0.78	C1	+21.10	
133	71	5/90	OD	1.10	HTS-SF	+ 1.00	
66	80	5/90	OD	0.62	H3	+ 7.80	
80	80	5/90	OD	0.66	H3	+ 5.10	
140	80	5/90	OD	0.52	H1	+29.50	
67	81	5/90	OD	0.75	H2	+18.40	
133	81	5/90	OD	0.70	CTS-SF	+19.60	
103	83	5/90	OD	0.73	C5	+10.20	
74	84	5/90	OD	0.84	C6	+11.20	
98	84	5/90	OD	0.67	H5	+ 4.60	
71	85	5/90	OD	0.86	H5	+ 8.20	
77	85	5/90	OD	1.66	CTS-SF	+ 0.70	
81	85	5/90	OD	0.72	HTS-SF	+ 9.60	
77	87	5/90	OD	0.61	CTS-SF	+21.80	
117	87	5/90	OD	0.69	HTS-SF	+ 0.70	
70	88	5/90	OD	1.05	HYS-SF	+ 1.60	
70	88	5/90	OD	0.72	H5	+17.00	
70	88	5/90	OD	1.01	HTS-SF	+ 0.40	
70	88	5/90	OD	0.73	DC	+13.60	
70	88	5/90	OD	0.85	HTS-SF	+ 2.90	
70	88	5/90	OD	0.66	HTS-SF	+ 0.80	
70	88	5/90	OD	1.21	HTS-SF	+ 0.60	
82	88	5/90	OD	0.93	C3	+29.50	
76	90	5/90	OD	1.80	HTS-SF	+ 2.20	
78	90	5/90	OD	1.36	HTS-SF	+ 0.70	
108	92	5/90	OD	0.81	H8	+ 5.10	
105	93	5/90	OD	0.88	H7	+24.50	
105	93	5/90	OD	0.51	CTS-SF	+37.70	
105	93	5/90	OD	0.74	C2	+35.90	
105	93	5/90	OD	0.60	C1	+ 0.10	
129	95	5/90	OD	0.66	C1	+10.50	

Plant: CALVERT CLIFFS UNIT 1
Outage: 5/90

Steam Generator: 1

QUERY: 20-39% EDDY CURRENT INDICATIONS - ALL ELEVATIONS

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
72	96	5/90	OD	2.6	0.54	H7	+ 3.40
69	99	5/90	OD	2.5	0.76	HTS-SF	+ 0.80
66	100	5/90	OD	2.8	0.47	HTS-SF	+ 2.00
70	100	5/90	OD	2.8	0.49	HTS-SF	+ 1.10
		5/90	OD	2.8	0.49	HTS-SF	+ 1.30
108	100	5/90	OD	2.0	1.32	H2	+ 27.90
63	101	5/90	OD	2.2	0.50	HTS-SF	+ 1.80
65	101	5/90	OD	2.4	0.88	HTS-SF	+ 2.50
54	102	5/90	OD	2.8	0.62	HTS-SF	+ 0.60
64	102	5/90	OD	2.7	0.53	HTS-SF	+ 1.60
66	102	5/90	OD	2.4	0.72	HTS-SF	+ 1.60
92	108	5/90	OD	2.8	0.80	H5	+ 8.30
53	109	5/90	OD	2.8	0.97	HTS-SF	+ 0.60
16	110	5/90	OD	2.1	0.42	HTS-SF	+ 0.50
20	110	5/90	OD	2.8	0.85	HTS-SF	+ 0.80
86	110	5/90	OD	2.5	0.53	C1	+ 21.90
29	111	5/90	OD	2.8	0.45	HTS-SF	+ 0.80
77	111	5/90	OD	2.8	0.64	H2	+ 29.00
30	112	5/90	OD	2.7	0.94	HTS-SF	+ 1.20
9	113	5/90	OD	2.6	0.86	HTS-SF	+ 0.80
131	113	5/90	OD	2.6	0.94	VM	+ 3.90
46	114	5/90	OD	2.6	0.68	HTS-SF	+ 3.10
52	114	5/90	OD	2.7	1.43	HTS-SF	+ 0.50
124	114	5/90	OD	2.8	0.48	C3	+ 33.60
		5/90	OD	2.8	0.64	C3	+ 37.30
128	114	5/90	OD	2.8	0.69	HTS-SF	+ 0.30
22	116	5/90	OD	2.8	0.77	H1	+ 33.00
116	118	5/90	OD	2.8	0.64	C9	+ 11.00
128	118	5/90	OD	2.8	0.55	C6	+ 8.20
9	119	5/90	OD	2.8	1.30	VM	
35	119	5/90	OD	2.8	0.60	HTS-SF	+ 0.70
36	120	5/90	OD	2.8	0.64	HTS-SF	+ 0.90
3	122	5/90	OD	2.2	0.59	CT-SF	+ 1.00
116	124	5/90	OD	2.1	0.65	C2	+ 6.30
		5/90	OD	2.5	0.72	C3	+ 24.90
76	126	5/90	OD	2.4	0.68	C1	+ 25.40
76	128	5/90	OD	2.5	0.52	H3	+ 35.20
76	132	5/90	OD	2.8	0.59	H4	+ 13.40
		5/90	OD	2.2	0.66	H4	+ 4.10
		5/90	OD	2.2	0.67	H5	+ 28.20
104	132	5/90	OD	2.6	1.16	H3	+ 6.40
114	132	5/90	OD	2.6	0.53	H5	+ 25.90
21	135	5/90	OD	3.1	0.40	HTS-SF	+ 0.90
89	143	5/90	OD	2.2	0.92	H2	+ 16.00
30	144	5/90	OD	2.4	0.66	C3	+ 26.50
34	144	5/90	OD	2.2	0.92	C4	+ 27.40
49	153	5/90	OD	2.6	0.82	H3	
46	158	5/90	OD	2.8	0.49	C4	+ 26.90
12	160	5/90	OD	2.2	0.54	H2	+ 4.10
8	164	5/90	OD	2.6	0.51	C4	+ 18.50
29	165	5/90	OD	2.4	0.77	HTS-SF	+ 20.10

TOTAL TUBES FOUND = 106
TOTAL INDICATIONS FOUND = 118
TOTAL TUBES IN INPUT FILE = 8519
TOTAL TUBES INSPECTED = 8421

STEAM GENERATOR 11

D. List with Plot of >39% Indications

40% And Greater Eddy Current Indications - All Elevations

PLANT: CALVERT CLIFFS UNIT 1

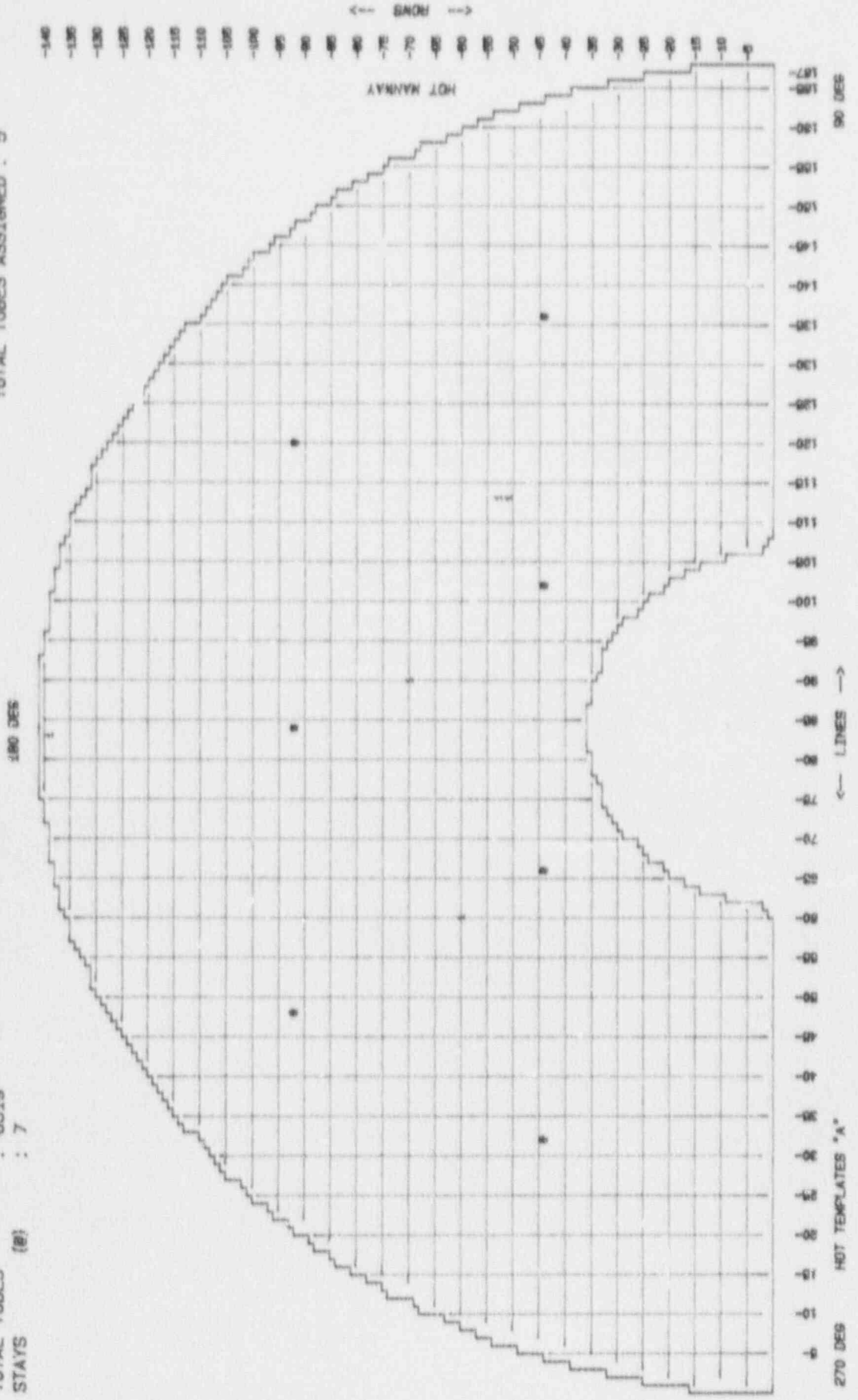
GENERATOR 11

OUTAGE: 5/90

1 = >30 (5)

TOTAL TUBES : 8519
STAYS : 7

TOTAL TUBES ASSIGNED : 5



Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 11

QUERY: 40% and Greater Eddy Current Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
60	60	5/90	OD	63 % TW	0.70	HTS-SF	+ 0.80
139	83	5/90	OD	67 % TW	1.04	HTS-PF	+20.00
		5/90	OD	53 % TW	0.89	HTS-PF	+19.60
70	90	5/90	OD	59 % TW	0.82	HTS-SF4	+ 1.10
51	113	5/90	OD	62 % TW	0.46	HTS-SF	+ 0.90
53	113	5/90	OD	48 % TW	0.67	HTS-SF	+ 0.70

TOTAL TUBES FOUND = 5
 TOTAL INDICATIONS FOUND = 6

TOTAL TUBES IN INPUT FILE = 8519
 TOTAL TUBES INSPECTED = 8421

STEAM GENERATOR 11

E. List with Plot of Tubes Dented

ALL DENT INDICATIONS - ALL ELEVATIONS

PLANT: CALVERT CLIFFS UNIT 1

GENERATOR: 1.1

OUTAGE: 5/90

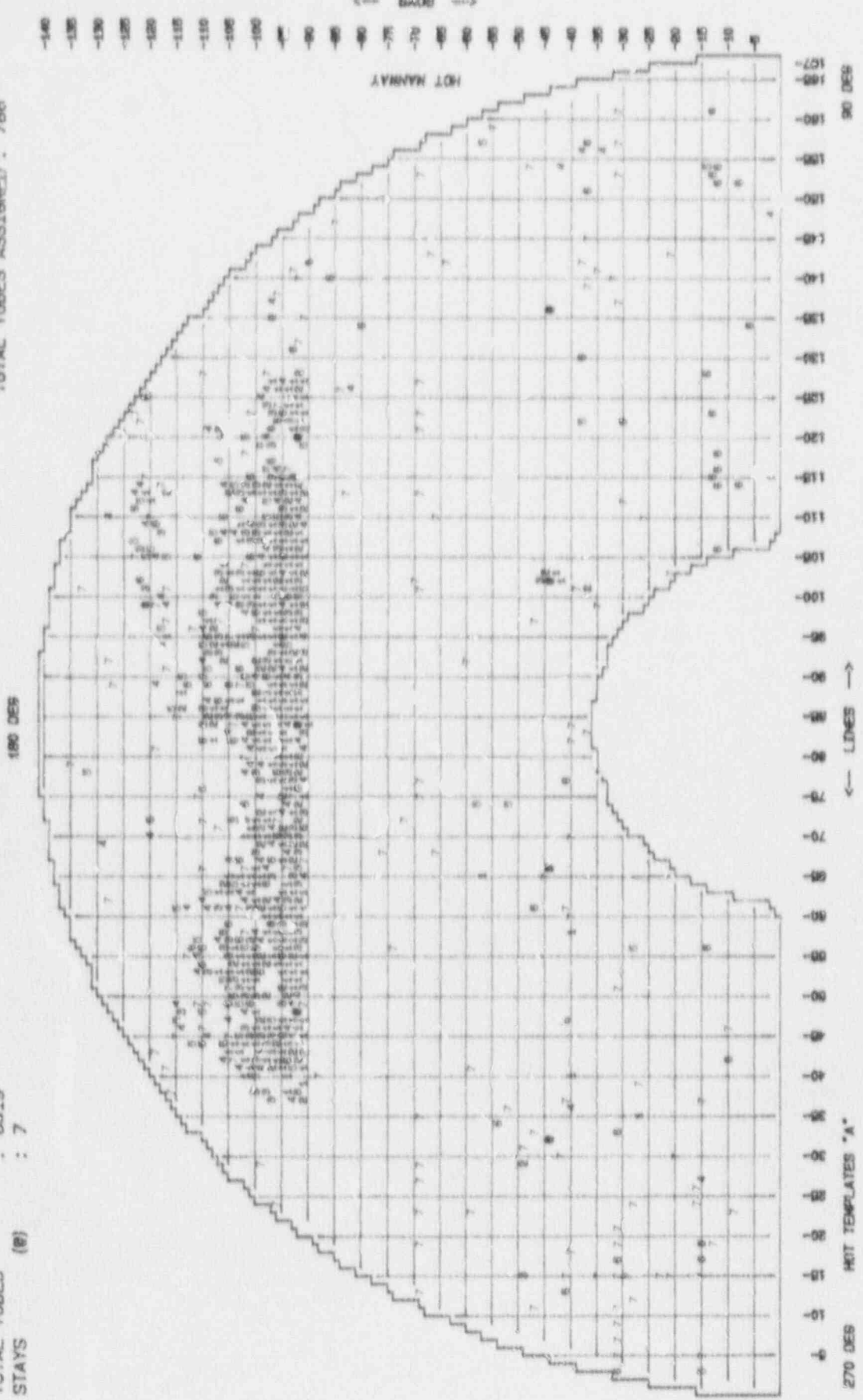
- 1 - >49.99 (2398)
- 4 - 20.00-29.99 (194)
- 7 - 5.00-9.99 (548)

- 2 - 40.00-49.99 (868)
- 5 - 15.00-19.99 (335)
- 8 - <5.00 (3)

- 3 - 30.00-39.99 (927)
- 6 - 10.00-14.99 (985)

TOTAL TUBES : 8519
STAYS : 7

TOTAL TUBES ASSIGNED : 786



Plant: CALVERT CLIFFS UNIT 1
Outage: 5/90

Steam Generator: 11

QUERY: ALL DENT INDICATIONS - ALL ELEVATIONS

ROW	LINE	OUTAGE	INDICATION	VALUE	VOILTS	LOCATION	INCHES
15	31	5/90	DENT	16.68	DH		
31	31	5/90	DENT	11.60	VM		
15	31	5/90	DENT	10.40	DH		
31	31	5/90	DENT	9.40	VM		
31	7	5/90	DENT	8.40	VM		- 1.80
31	9	5/90	DENT	8.17	VM		
31	11	5/90	DENT	8.80	VM		
47	11	5/90	DENT	8.40	CS		+14.90
28	11	5/90	DENT	6.60	VM		
41	11	5/90	DENT	11.60	VM		
66	11	5/90	DENT	6.60	VM		+22.40
99	11	5/90	DENT	6.60	DC		
21	11	5/90	DENT	6.60	VM		
33	11	5/90	DENT	6.50	VM		+ 1.40
33	11	5/90	DENT	6.50	VM		
35	11	5/90	DENT	6.50	VM		
41	11	5/90	DENT	6.50	VM		
49	11	5/90	DENT	6.50	VM		
15	17	5/90	DENT	4.40	HT	-SF	+18.10
31	17	5/90	DENT	10.10	H6		+ 9.20
40	17	5/90	DENT	10.10	VM		
11	14	5/90	DENT	8.30	VM		
11	15	5/90	DENT	8.30	C6		+ 9.30
11	15	5/90	DENT	8.30	H6		+ 9.30
11	14	5/90	DENT	6.40	VM		
11	14	5/90	DENT	6.40	DH		+ 7.80
11	14	5/90	DENT	6.40	VM		
5	6	5/90	DENT	7.70	VM		- 3.10
6	6	5/90	DENT	7.70	VM		- 3.90
16	4	5/90	DENT	6.60	VM		+22.50
8	4	5/90	DENT	9.90	H4		+34.80
9	4	5/90	DENT	9.90	VM		
11	4	5/90	DENT	9.11	CS		- 1.30
11	6	5/90	DENT	9.40	CS		+ 7.30
4	6	5/90	DENT	3.40	DC		
4	6	5/90	DENT	7.70	DH		+23.60
6	6	5/90	DENT	4.20	C1		+24.70
6	6	5/90	DENT	6.60	DH		+ 8.30
20	0	5/90	DENT	6.60	H1		
4	0	5/90	DENT	6.60	H5		+15.80
4	0	5/90	DENT	6.60	C1		+32.20
3	4	5/90	DENT	6.60	HT		+18.10
4	7	5/90	DENT	10.90	VM		
3	5	5/90	DENT	12.90	CS		+34.10
3	5	5/90	DENT	12.90	CS		+34.00
6	9	5/90	DENT	5.60	CS		+ 0.80
40	6	5/90	DENT	7.70	VM		+22.30
5	2	5/90	DENT	20.00	C2		+36.60
15	2	5/90	DENT	6.60	H7		+ 16.60
41	7	5/90	DENT	8.80	H4		
9	1	5/90	DENT	4.90	VM		
9	3	5/90	DENT	4.90	H9		
9	7	5/90	DENT	11.10	H9		
9	2	5/90	DENT	14.70	H9		
9	4	5/90	DENT	14.70	H9		
9	8	5/90	DENT	9.17	H9		
100	8	5/90	DENT	3.15	H9		
116	7	5/90	DENT	6.60	H9		
27	9	5/90	DENT	7.30	VM		+14.40
9	1	5/90	DENT	5.70	H9		+ 8.00
40	40	5/90	DENT	61.30	H2		+33.80
88	40	5/90	DENT	61.45	VC		+11.70
94	40	5/90	DENT	73.50	H9		
100	40	5/90	DENT	19.50	H9		
102	40	5/90	DENT	54.90	H9		
59	41	5/90	DENT	6.90	C18	-SF	+22.20

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 11

QUERY: ALL DENT INDICATIONS - ALL ELEVATIONS

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
91	41	5/90	DENT		87.62	H9	
93	41	5/90	DENT		17.86	H9	
95	41	5/90	DENT		66.17	H9	
97	41	5/90	DENT		43.74	H9	
99	41	5/90	DENT		20.65	H9	
101	41	5/90	DENT		78.86	H9	
103	41	5/90	DENT		26.13	H9	
117	41	5/90	DENT		123.30	H9	+ 6.50
10	42	5/90	DENT		42.24	H9	
92	42	5/90	DENT		10.87	H9	
94	42	5/90	DENT		73.43	H9	
98	42	5/90	DENT		72.18	H9	
100	42	5/90	DENT		74.54	H9	
102	42	5/90	DENT		67.90	H9	
104	42	5/90	DENT		26.38	H9	
106	42	5/90	DENT		29.58	H9	
91	43	5/90	DENT		49.63	H9	
93	43	5/90	DENT		46.27	H9	
95	43	5/90	DENT		68.93	H9	
97	43	5/90	DENT		148.70	H9	
99	43	5/90	DENT		64.08	H9	
103	43	5/90	DENT		71.94	H9	
105	43	5/90	DENT		76.95	H9	
119	43	5/90	DENT		8.64	H9	+19.60
			DENT		9.75	H9	+20.50
92	44	5/90	DENT		93.84	H9	
94	44	5/90	DENT		132.50	H9	
			DENT		15.31	H9	+ 7.60
96	44	5/90	DENT		43.72	H9	
98	44	5/90	DENT		77.59	H9	
100	44	5/90	DENT		50.24	H9	
102	44	5/90	DENT		79.04	H9	
104	44	5/90	DENT		78.11	H9	
106	44	5/90	DENT		17.55	H9	
110	44	5/90	DENT		14.40	H9	
112	44	5/90	DENT		18.93	H9	
91	45	5/90	DENT		59.17	H9	
93	45	5/90	DENT		161.70	H9	
95	45	5/90	DENT		44.37	H9	
97	45	5/90	DENT		30.00	H9	
99	45	5/90	DENT		37.77	H9	
101	45	5/90	DENT		33.14	H9	
103	45	5/90	DENT		15.80	H9	
105	45	5/90	DENT		7.09	H9	
109	45	5/90	DENT		10.03	H9	
			DENT		20.45	H9	+13.50
115	45	5/90	DENT		5.37	H9	
10	46	5/90	DENT		8.51	CM	
92	46	5/90	DENT		9.90	H9	
94	46	5/90	DENT		22.76	H9	
96	46	5/90	DENT		70.45	H9	
98	46	5/90	DENT		74.93	H9	
100	46	5/90	DENT		50.79	H9	
102	46	5/90	DENT		37.88	H9	
110	46	5/90	DENT		5.95	H9	
114	46	5/90	DENT		29.87	H9	
41	47	5/90	DENT		11.11	CM	
91	47	5/90	DENT		73.26	H9	
93	47	5/90	DENT		92.65	H9	
95	47	5/90	DENT		72.92	H9	
97	47	5/90	DENT		17.20	H9	
99	47	5/90	DENT		46.82	H9	
105	47	5/90	DENT		22.07	H9	
115	47	5/90	DENT		15.22	H9	
100	48	5/90	DENT		107.20	H9	
102	48	5/90	DENT		23.53	H9	

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 11

QUERY: ALL DENT INDICATIONS - ALL ELEVATIONS

JW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
110	48	5/90	DENT		16.01	H9	
114	48	5/90	DENT		35.09	H9	
91	49	5/90	DENT		8.96	C9	+ 1.80
93	49	5/90	DENT		38.07	H9	
95	49	5/90	DENT		34.55	H9	
101	49	5/90	DENT		12.49	H9	
103	49	5/90	DENT		19.48	H9	
105	49	5/90	DENT		10.00	H9	
109	49	5/90	DENT		35.67	H9	
111	49	5/90	DENT		31.73	H9	
115	49	5/90	DENT		26.75	H9	
92	50	5/90	DENT		23.10	H9	
94	50	5/90	DENT		42.27	H9	
98	50	5/90	DENT		41.51	H9	
100	50	5/90	DENT		35.08	H9	
102	50	5/90	DENT		36.25	H9	
104	50	5/90	DENT		12.93	H9	
31	51	5/90	DENT		6.06	VM	
91	51	5/90	DENT		34.26	H9	
93	51	5/90	DENT		7.58	H9	+ 0.36
95	51	5/90	DENT		68.27	H9	
101	51	5/90	DENT		41.41	H9	
103	51	5/90	DENT		63.44	H9	
105	51	5/90	DENT		34.40	H9	
107	51	5/90	DENT		9.53	H9	
94	52	5/90	DENT		91.51	H9	
100	52	5/90	DENT		63.37	H9	
102	52	5/90	DENT		95.53	H9	
104	52	5/90	DENT		76.64	H9	
106	52	5/90	DENT		34.29	H9	
108	52	5/90	DENT		17.23	H9	
91	53	5/90	DENT		77.44	H9	
93	53	5/90	DENT		89.93	H9	
95	53	5/90	DENT		100.60	H9	
97	53	5/90	DENT		12.93	H9	
99	53	5/90	DENT		13.41	H9	
101	53	5/90	DENT		43.41	H9	
103	53	5/90	DENT		93.63	H9	
105	53	5/90	DENT		96.89	H9	
107	53	5/90	DENT		83.43	H9	
109	53	5/90	DENT		35.98	H9	
111	53	5/90	DENT		23.10	H9	
92	54	5/90	DENT		67.24	H9	
94	54	5/90	DENT		76.29	H9	
96	54	5/90	DENT		95.50	H9	
98	54	5/90	DENT		47.48	H9	
100	54	5/90	DENT		67.58	H9	
102	54	5/90	DENT		122.20	H9	
104	54	5/90	DENT		43.51	H9	
106	54	5/90	DENT		13.15	H9	
91	55	5/90	DENT		50.02	H9	
93	55	5/90	DENT		49.64	H9	
95	55	5/90	DENT		10.21	H9	
97	55	5/90	DENT		65.73	H9	
99	55	5/90	DENT		45.33	H9	
101	55	5/90	DENT		115.90	H9	
103	55	5/90	DENT		84.38	H9	
105	55	5/90	DENT		74.99	H9	
111	55	5/90	DENT		29.41	H9	
113	55	5/90	DENT		9.45	DM	
114	56	5/90	DENT		13.65	H6	+ 9.70
28	56	5/90	DENT		17.87	VM	
74	56	5/90	DENT		5.34	H4	+27.50
92	56	5/90	DENT		34.51	H9	
94	56	5/90	DENT		23.90	H9	
96	56	5/90	DENT		67.11	H9	
100	56	5/90	DENT		60.75	H9	
102	56	5/90	DENT		19.11	H9	

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 11

QUERY: ALL DENT INDICATIONS - ALL ELEVATIONS

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
104	56	5/90	DENT		75.34		
106	56	5/90	DENT		51.20		
110	56	5/90	DENT		12.68		
112	56	5/90	DENT		11.05		
91	57	5/90	DENT		11.07		
93	57	5/90	DENT		11.70		
95	57	5/90	DENT		10.90		
97	57	5/90	DENT		11.80		
99	57	5/90	DENT		11.80		
101	57	5/90	DENT		11.80		
103	57	5/90	DENT		11.80		
105	57	5/90	DENT		11.80		
107	57	5/90	DENT		11.80		
111	57	5/90	DENT		11.80		
40	58	5/90	DENT		11.80		+37.80
			DENT		11.80		+ 0.20
92	58	5/90	DENT		11.80		
94	58	5/90	DENT		11.80		
96	58	5/90	DENT		11.80		
98	58	5/90	DENT		11.80		
100	58	5/90	DENT		11.80		
102	58	5/90	DENT		11.80		
96	59	5/90	DENT		11.80		
91	59	5/90	DENT		11.80		
93	59	5/90	DENT		11.80		
95	59	5/90	DENT		11.80		
97	59	5/90	DENT		11.80		
105	59	5/90	DENT		11.80		
40	60	5/90	DENT		14.67		+24.10
92	60	5/90	DENT		11.80		
94	60	5/90	DENT		11.80		
96	60	5/90	DENT		11.80		
98	60	5/90	DENT		11.80		
41	61	5/90	DENT		11.80		
47	61	5/90	DENT		10.94	6-SF	+18.90
91	61	5/90	DENT		11.80		
93	61	5/90	DENT		11.80		
95	61	5/90	DENT		11.80		
97	61	5/90	DENT		11.80		
99	61	5/90	DENT		11.80		
101	61	5/90	DENT		11.80		
103	61	5/90	DENT		11.80		
105	61	5/90	DENT		11.80		
107	61	5/90	DENT		11.80		
109	61	5/90	DENT		11.80		
113	61	5/90	DENT		11.80		
115	61	5/90	DENT		11.80		
92	62	5/90	DENT		11.80		
94	62	5/90	DENT		11.80		
96	62	5/90	DENT		11.80		
98	62	5/90	DENT		11.80		
100	62	5/90	DENT		11.80		
102	62	5/90	DENT		11.80		
110	62	5/90	DENT		11.80		
128	63	5/90	DENT		11.80	6-SF	+21.50
91	63	5/90	DENT		11.80		
93	63	5/90	DENT		11.80		
95	63	5/90	DENT		11.80		
101	63	5/90	DENT		11.80		
103	63	5/90	DENT		11.80		
105	63	5/90	DENT		11.80		
107	63	5/90	DENT		11.80		
109	63	5/90	DENT		11.80		
92	64	5/90	DENT		11.80		+13.60
94	64	5/90	DENT		11.80		
98	64	5/90	DENT		11.80		
100	64	5/90	DENT		11.80		

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 11

QUERY: ALL DENT INDICATIONS - ALL ELEVATIONS

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
102	64	5/90	DENT	50.	H9		
104	64	5/90	DENT	18.	H9		
106	64	5/90	DENT	49.	H9		
45	65	5/90	DENT	7.	H9		+ 4.00
57	65	5/90	DENT	5.	H9		+37.30
91	65	5/90	DENT	0.	H9		
93	65	5/90	DENT	6.	H9		
97	65	5/90	DENT	6.	H9		
99	65	5/90	DENT	6.	H9		
101	65	5/90	DENT	6.	H9		
103	65	5/90	DENT	6.	H9		
105	65	5/90	DENT	6.	H9		
92	66	5/90	DENT	6.	H9		
94	66	5/90	DENT	6.	H9		
98	66	5/90	DENT	6.	H9		
100	66	5/90	DENT	6.	H9		
102	66	5/90	DENT	6.	H9		
110	66	5/90	DENT	6.	H9		+22.50
91	67	5/90	DENT	6.	H9		+ 2.40
93	67	5/90	DENT	6.	H9		
95	67	5/90	DENT	6.	H9		
97	67	5/90	DENT	6.	H9		
99	67	5/90	DENT	6.	H9		
103	67	5/90	DENT	6.	H9		
105	67	5/90	DENT	6.	H9		
66	68	5/90	DENT	7.	H9		+12.20
76	68	5/90	DENT	7.	H9		+17.30
92	68	5/90	DENT	7.	H9		
94	68	5/90	DENT	7.	H9		
100	68	5/90	DENT	7.	H9		+17.40
91	69	5/90	DENT	7.	H9		
93	69	5/90	DENT	7.	H9		
95	69	5/90	DENT	7.	H9		
97	69	5/90	DENT	7.	H9		
99	69	5/90	DENT	7.	H9		
129	69	5/90	DENT	7.	H9		+20.70
40	70	5/90	DENT	8.	H9		
92	70	5/90	DENT	8.	H9		
94	70	5/90	DENT	8.	H9		
96	70	5/90	DENT	8.	H9		
98	70	5/90	DENT	8.	H9		
100	70	5/90	DENT	8.	H9		
102	70	5/90	DENT	8.	H9		
120	70	5/90	DENT	8.	H9		+18.60
		5/90	DENT	16.	H9		+17.40
		5/90	DENT	5.	H9		+ 9.60
		5/90	DENT	14.	H9		+ 5.40
91	71	5/90	DENT	28.	H9		
93	71	5/90	DENT	10.	H9		
95	71	5/90	DENT	4.	H9		
97	71	5/90	DENT	4.	H9		
99	71	5/90	DENT	4.	H9		
101	71	5/90	DENT	6.	H9		
107	71	5/90	DENT	6.	H9		
72	72	5/90	DENT	4.	H9		+20.20
92	72	5/90	DENT	4.	H9		
96	72	5/90	DENT	4.	H9		
98	72	5/90	DENT	4.	H9		
100	72	5/90	DENT	4.	H9		
102	72	5/90	DENT	4.	H9		
104	72	5/90	DENT	4.	H9		
110	72	5/90	DENT	4.	H9		
120	72	5/90	DENT	4.	H9		
91	73	5/90	DENT	11.	H9		
93	73	5/90	DENT	11.	H9		

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 11

QUERY: ALL DENT INDICATIONS - ALL ELEVATIONS

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
95	73	5/90	DENT		28.99	H9	
			DENT		7.33	C9	
97	73	5/90	DENT		50.05	H9	
99	73	5/90	DENT		43.67	H9	
52	74	5/90	DENT		17.77	C4	+ 2.70
58	74	5/90	DENT		6.49	H7	
			DENT		16.61	C6	+21.80
92	74	5/90	DENT		49.87	H9	
94	74	5/90	DENT		12.70	H9	
102	74	5/90	DENT		12.70	H9	
69	75	5/90	DENT		5.55	H8	+21.10
91	75	5/90	DENT		5.55	H8	
93	75	5/90	DENT		43.41	H9	
95	75	5/90	DENT		28.06	H9	
99	75	5/90	DENT		6.84	V31	+29.00
111	75	5/90	DENT		12.91	H9	
92	76	5/90	DENT		61.45	H9	
94	76	5/90	DENT		16.75	H9	
110	76	5/90	DENT		10.08	H1	+28.80
41	77	5/90	DENT		5.62	V31	+24.20
69	77	5/90	DENT		5.62	H9	
91	77	5/90	DENT		5.62	H9	
93	77	5/90	DENT		5.62	H9	
95	77	5/90	DENT		5.62	H9	
97	77	5/90	DENT		5.62	H9	
99	77	5/90	DENT		5.62	H9	
92	78	5/90	DENT		44.74	H9	
94	78	5/90	DENT		13.95	H9	
96	78	5/90	DENT		7.74	H9	
100	78	5/90	DENT		24.94	H9	+15.60
			DENT		26.08	H9	+16.20
			DENT		26.08	H9	
102	78	5/90	DENT		15.88	H9	+42.30
132	78	5/90	DENT		40.88	H9	
91	79	5/90	DENT		70.88	H9	
93	79	5/90	DENT		40.88	H9	
95	79	5/90	DENT		40.88	H9	
97	79	5/90	DENT		40.88	H9	
99	79	5/90	DENT		40.88	H9	
101	79	5/90	DENT		40.88	H9	
135	79	5/90	DENT		7.84	H9	
92	80	5/90	DENT		49.20	H9	+21.40
94	80	5/90	DENT		58.19	H9	
96	80	5/90	DENT		63.06	H9	
102	80	5/90	DENT		7.06	H9	
91	81	5/90	DENT		26.14	H9	
95	81	5/90	DENT		117.80	H9	
97	81	5/90	DENT		94.85	H9	
99	81	5/90	DENT		79.67	H9	
101	81	5/90	DENT		24.83	H9	
119	81	5/90	DENT		9.42	C10	+ 1.30
40	82	5/90	DENT		7.13	H9	+19.00
92	82	5/90	DENT		23.99	H9	
94	82	5/90	DENT		57.01	H9	
96	82	5/90	DENT		151.30	H9	
98	82	5/90	DENT		97.16	H9	
100	82	5/90	DENT		145.40	H9	
102	82	5/90	DENT		22.11	H9	
104	82	5/90	DENT		10.17	H9	
108	82	5/90	DENT		70.48	H9	
110	82	5/90	DENT		10.30	H9	
37	83	5/90	DENT		7.89	V31	
91	83	5/90	DENT		37.86	H9	
95	83	5/90	DENT		67.79	H9	
97	83	5/90	DENT		168.70	H9	
99	83	5/90	DENT		101.60	H9	
101	83	5/90	DENT		48.21	H9	

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 11

QUERY: ALL DENT INDICATIONS - ALL ELEVATIONS

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
105	83	5/90	DENT		22.00	H9	
47	84	5/90	DENT		7.93	VM	
9	84	5/90	DENT		9.11	H7S-SF	
4	84	5/90	DENT		27.08	H9	
76	84	5/90	DENT		22.86	VM	+17.50
		5/90	DENT		22.16	H9	
98	84	5/90	DENT		22.80	H9	
100	84	5/90	DENT		20.92	H9	
102	84	5/90	DENT		20.10	H9	
104	84	5/90	DENT		17	H9	
108	84	5/90	DENT		4	H9	
110	84	5/90	DENT		4	H9	
91	85	5/90	DENT		2.78	CC	
		5/90	DENT		2.04	CC	+ 5.00
		5/90	DENT		2.11	CC	+ 6.00
		5/90	DENT		7.27	H7S-SF	
93	85	5/90	DENT		6.11	H9	
95	85	5/90	DENT		7.41	H9	
97	85	5/90	DENT		7.41	H9	
99	85	5/90	DENT		7.75	H9	
101	85	5/90	DENT		6.21	H9	
103	85	5/90	DENT		4.08	H9	
105	85	5/90	DENT		4.20	H9	
107	85	5/90	DENT		4.40	H9	
109	85	5/90	DENT		4.98	H9	
115	85	5/90	DENT		6.98	H9	
92	86	5/90	DENT		1.50	CC	
94	86	5/90	DENT		1.50	CC	
96	86	5/90	DENT		1.50	CC	
98	86	5/90	DENT		1.50	CC	
100	86	5/90	DENT		1.50	CC	
106	86	5/90	DENT		1.50	CC	
108	86	5/90	DENT		1.50	CC	
110	86	5/90	DENT		1.50	CC	
114	86	5/90	DENT		1.50	CC	
116	86	5/90	DENT		1.50	CC	
91	87	5/90	DENT		6.19	H9	
93	87	5/90	DENT		7.90	H9	
95	87	5/90	DENT		7.90	H9	
97	87	5/90	DENT		6.60	H9	
99	87	5/90	DENT		9.40	H9	
103	87	5/90	DENT		6.32	H9	
105	87	5/90	DENT		6.60	H9	
107	87	5/90	DENT		7.77	H9	
109	87	5/90	DENT		6.03	H9	
92	88	5/90	DENT		1.70	H9	
94	88	5/90	DENT		1.70	H9	
96	88	5/90	DENT		1.70	H9	
98	88	5/90	DENT		1.70	H9	
100	88	5/90	DENT		1.70	H9	
114	88	5/90	DENT		1.70	H9	
91	89	5/90	DENT		6.17	H9	
93	89	5/90	DENT		6.11	H9	
95	89	5/90	DENT		6.11	H9	
97	89	5/90	DENT		6.48	H9	
101	89	5/90	DENT		6.48	H9	
103	89	5/90	DENT		6.74	H9	
105	89	5/90	DENT		6.21	H9	
109	89	5/90	DENT		6.20	H9	
113	89	5/90	DENT		6.69	H9	
119	89	5/90	DENT		6.06	H9	
127	89	5/90	DENT		6.11	CC	+19.40
92	90	5/90	DENT		6.07	H9	
94	90	5/90	DENT		6.07	H9	
96	90	5/90	DENT		6.07	H9	
98	90	5/90	DENT		6.17	H9	
100	90	5/90	DENT		6.18	H9	

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 11

QUERY: ALL DENT INDICATIONS - ALL ELEVATIONS

ROW	LINE	OUTAGE	INDICATION	VALUE	VENTS LOCATION	INCHES
102	90	5/90	DENT	18.43	H9	
110	90	5/90	DENT	18.07	H9	
114	90	5/90	DENT	17.45	H9	
91	91	5/90	DENT	6.86	C9	+ 1.80
			DENT	41.79	H9	
93	91	5/90	DENT	50.70	H9	
95	91	5/90	DENT	23.00	H9	
97	91	5/90	DENT	44.86	H9	
99	91	5/90	DENT	46.63	H9	
103	91	5/90	DENT	10.35	H9	
109	91	5/90	DENT	19.11	H9	
117	91	5/90	DENT	3.78	C10	
60	92	5/90	DENT	8.51	C15-SF	+ 6.80
92	92	5/90	DENT	109.30	H9	
94	92	5/90	DENT	56.81	H9	
96	92	5/90	DENT	61.73	H9	
98	92	5/90	DENT	50.83	H9	
100	92	5/90	DENT	44.63	H9	
106	92	5/90	DENT	49.03	H9	
110	92	5/90	DENT	24.91	H9	
128	92	5/90	DENT	5.11	C16-SF	+22.60
91	93	5/90	DENT	54.27	H9	
93	93	5/90	DENT	44.63	H9	
95	93	5/90	DENT	59.23	H9	
97	93	5/90	DENT	55.77	H9	
107	93	5/90	DENT	34.13	H9	
109	93	5/90	DENT	44.46	H9	
94	94	5/90	DENT	11.14	H9	
96	94	5/90	DENT	58.44	H9	
102	94	5/90	DENT	15.26	H9	
104	94	5/90	DENT	45.88	H9	
106	94	5/90	DENT	72.81	H9	
108	94	5/90	DENT	41.19	H9	
110	94	5/90	DENT	19.03	H9	
			DENT	10.26	C1	+33.90
118	94	5/90	DENT	69.33	H10	
91	95	5/90	DENT	27.63	H9	
93	95	5/90	DENT	97.17	H9	
95	95	5/90	DENT	40.74	H9	
97	95	5/90	DENT	90.24	H9	
99	95	5/90	DENT	99.01	H9	
101	95	5/90	DENT	32.15	H9	
103	95	5/90	DENT	56.86	H9	
105	95	5/90	DENT	33.36	H9	
107	95	5/90	DENT	14.00	H9	
109	95	5/90	DENT	73.76	H10	
117	95	5/90	DENT	7.54	H10	
119	95	5/90	DENT	7.54	H9	
92	96	5/90	DENT	54.14	H9	
94	96	5/90	DENT	88.37	H9	
96	96	5/90	DENT	5.37	H9	
100	96	5/90	DENT	43.08	H9	
108	96	5/90	DENT	33.79	H9	
110	96	5/90	DENT	5.35	H9	
112	96	5/90	DENT	17.00	H10	
118	96	5/90	DENT	5.66	H4	+ 6.20
47	97	5/90	DENT	13.47	C9	+ 1.90
91	97	5/90	DENT	22.40	H9	
93	97	5/90	DENT	85.83	H9	
95	97	5/90	DENT	82.66	H9	
97	97	5/90	DENT	134.00	H9	
99	97	5/90	DENT	66.29	H9	
107	97	5/90	DENT	6.05	H9	
109	97	5/90	DENT	61.28	H9	
117	97	5/90	DENT	6.73	C10	
92	98	5/90	DENT	34.55	H9	

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 11

QUERY: ALL DENT INDICATIONS - ALL ELEVATIONS

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
95	103	5/90	DENT		29.99	H9	
97	103	5/90	DENT		61.11	H9	
99	103	5/90	DE JT		13.98	H9	
101	103	5/90	DENT		33.77	H9	
103	103	5/90	DENT		54.99	H9	
105	103	5/90	DENT		54.40	H9	
107	103	5/90	DENT		55.99	H9	
92	104	5/90	DENT		53.79	H9	
94	104	5/90	DENT		54.99	H9	
96	104	5/90	DENT		56.44	H9	
98	104	5/90	DENT		62.22	H9	
102	104	5/90	DENT		6.17	H9	
106	104	5/90	DENT		61.74	H9	
91	105	5/90	DENT		6.81	C6	
		5/90	DENT		6.44	H9	
93	105	5/90	DENT		75.31	H9	
95	105	5/90	DENT		48.34	H9	
97	105	5/90	DENT		103.60	H9	
99	105	5/90	DENT		23.60	H9	
101	105	5/90	DENT		14.89	H9	
111	105	5/90	DENT		10.80	VC	
117	105	5/90	DENT		5.86	VM	+ 3.20
		5/90	DENT		15.88	H10	
119	105	5/90	DENT		21.81	H10	
121	105	5/90	DENT		19.66	H10	
123	105	5/90	DENT		7.44	H10	
12	106	5/90	DENT		11.11	C6	+ 7.90
92	106	5/90	DENT		44.00	H9	
94	106	5/90	DENT		48.04	H9	
96	106	5/90	DENT		49.04	H9	
98	106	5/90	DENT		52.79	H9	
120	106	5/90	DENT		9.11	C6	+13.60
		5/90	DENT		16.98	H10	
122	106	5/90	DENT		30.98	H10	
91	107	5/90	DENT		73.70	H9	
93	107	5/90	DENT		103.00	H9	
95	107	5/90	DENT		67.18	H9	
97	107	5/90	DENT		8.63	C6	+15.50
		5/90	DENT		54.49	H9	
99	107	5/90	DENT		43.99	H9	
101	107	5/90	DE JT		73.99	H9	
103	107	5/90	DENT		73.99	H9	
107	107	5/90	DENT		11.23	H9	
123	107	5/90	DENT		15.15	H10	
92	108	5/90	DENT		5.66	H9	
94	108	5/90	DENT		45.27	H9	
96	108	5/90	DENT		47.40	H9	
98	108	5/90	DENT		60.96	H9	
100	108	5/90	DENT		35.21	H9	
102	108	5/90	DENT		36.93	H9	
104	108	5/90	DENT		36.72	H9	
106	108	5/90	DENT		33.01	H9	
108	108	5/90	DENT		17.79	H9	
118	108	5/90	DENT		37.31	H10	
91	109	5/90	DENT		27.86	H9	
93	109	5/90	DENT		48.82	H9	
95	109	5/90	DENT		35.74	H9	
97	109	5/90	DENT		40.04	H9	
99	109	5/90	DENT		43.78	H9	
101	109	5/90	DENT		47.77	H9	
103	109	5/90	DENT		68.76	H9	
119	109	5/90	DENT		112.51	H10	
121	109	5/90	DENT		112.33	H10	
26	110	5/90	DENT		5.41	CC	+22.50
66	110	5/90	DENT		6.13	VM	
92	110	5/90	DENT		20.08	H9	
94	110	5/90	DENT		2.48	H9	

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 11

QUERY: ALL DENT INDICATIONS - ALL ELEVATIONS

ROW	LINE	OUTAGE	INDICATION	VALLE	VOLTS	LOCATION	INCHES
96	110	5/90	DENT		16.04	H9	
98	110	5/90	DENT		19.48	H9	
106	110	5/90	DENT		18.48	H9	
120	110	5/90	DENT		6.021	H9	+ 9.60
128	110	5/90	DENT		22.800	C1	+30.90
			DENT		17.49	H9	
91	111	5/90	DENT		48.78	H9	
93	111	5/90	DENT		51.04	H9	
95	111	5/90	DENT		4.18	H9	
103	111	5/90	DENT		10.74	H9	
			DENT		12.03	C10	
123	111	5/90	DENT		7.14	H7	+ 8.80
			DENT		7.33	H7	+11.00
30	111	5/90	DENT		4.2	H9	
92	111	5/90	DENT		4.2	H9	
94	111	5/90	DENT		4.2	H9	
96	111	5/90	DENT		4.2	H9	
98	111	5/90	DENT		16.06	H9	
102	111	5/90	DENT		3.78	H9	
120	111	5/90	DENT		18.80	H10	
122	111	5/90	DENT		18.80	H10	
69	111	5/90	DENT		5.04	C10	+24.40
83	111	5/90	DENT		6.00	H10	+31.50
91	111	5/90	DENT		4.4	H9	
93	111	5/90	DENT		4.4	H9	
95	111	5/90	DENT		1.5	H9	
97	111	5/90	DENT		9.18	H9	
99	111	5/90	DENT		4.5	H9	
101	111	5/90	DENT		6.4	H9	
103	111	5/90	DENT		4.4	H9	
105	111	5/90	DENT		48.97	H9	
117	111	5/90	DENT		46.15	H10	
121	111	5/90	DENT		50.6	H10	
123	111	5/90	DENT		6.16	H10	
8	114	5/90	DENT		10.04	C6	+ 6.40
12	114	5/90	DENT		13.18	C6	+ 9.90
			DENT		4.4	H9	+ 7.60
92	114	5/90	DENT		4.4	H9	
94	114	5/90	DENT		4.4	H9	
96	114	5/90	DENT		11.07	H9	
98	114	5/90	DENT		48.74	H9	
100	114	5/90	DENT		34.7	H9	
102	114	5/90	DENT		34.7	H9	
104	114	5/90	DENT		19.4	H9	
106	114	5/90	DENT		20.4	H9	
118	114	5/90	DENT		34.7	H9	
122	114	5/90	DENT		34.7	H10	
1	115	5/90	DENT		10.7	C6	+ 8.00
99	115	5/90	DENT		14.48	H9	
95	115	5/90	DENT		14.48	H9	
97	115	5/90	DENT		14.48	H9	
101	115	5/90	DENT		14.48	H9	
121	115	5/90	DENT		5.4	H10	
12	116	5/90	DENT		11.1	H6	+ 7.60
94	116	5/90	DENT		10.8	H9	
96	116	5/90	DENT		10.8	H9	
98	116	5/90	DENT		10.8	H9	
97	117	5/90	DENT		10.8	H9	
107	117	5/90	DENT		16.9	H9	
12	118	5/90	DENT		10.8	C6	+ 7.70
102	118	5/90	DENT		10.8	H9	
91	119	5/90	DENT		14.4	C6	+ 2.00
			DENT		11.9	C3	
97	119	5/90	DENT		11.9	H9	
99	119	5/90	DENT		11.9	H9	
98	120	5/90	DENT		7.4	H9	
102	120	5/90	DENT		8.4	H9	

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 11

QUERY: ALL DENT INDICATIONS - ALL ELEVATIONS

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
106	120	5/90	DENT		37.85	H9	
89	121	/90	DENT		10.40	V7	+21.60
91	121	/90	DENT		10.48	C8	+ 7.30
		/90	DENT		6.38	C8	+ 7.90
		/90	DENT		7.91	C8	+ 8.30
		/90	DENT		13.34	C8	
93	121	/90	DENT		6.00	H9	
97	121	/90	DENT		14.30	H9	
105	121	/90	DENT		12.15	H9	
107	121	/90	DENT		4.07	H9	
109	121	/90	DENT		7.10	C6	+ 1.00
		/90	DENT		7.11	H9	
		/90	DENT		10.05	H9	+15.80
		/90	DENT		7.00	H9	+18.10
		/90	DENT		7.75	H9	+19.70
30	122	/90	DENT		10.00	H1	+13.30
		/90	DENT		10.00	H1	+13.70
38	1	/90	DENT		1.00	C4	+ 2.60
92	123	/90	DENT		6.00	H9	
94	123	/90	DENT		4.14	H9	
96	123	/90	DENT		10.44	H9	
102	123	/90	DENT		6.64	H9	
102	123	/90	DENT		7.60	H9	
103	123	/90	DENT		11.00	C6	+17.80
89	123	/90	DENT		7.00	C6	+ 8.10
91	123	/90	DENT		7.00	H9	+24.10
		/90	DENT		7.19	H9	
93	1	/90	DENT		5.40	H9	+ 2.10
95	123	/90	DENT		10.00	H9	
97	123	/90	DENT		10.40	H9	
		/90	DENT		10.40	H9	+ 1.40
101	123	/90	DENT		11.00	H9	
102	123	/90	DENT		11.00	H9	
92	123	/90	DENT		9.77	H9	
94	123	/90	DENT		11.14	H9	
96	123	/90	DENT		11.00	H9	+14.60
98	123	/90	DENT		11.00	H9	
91	123	/90	DENT		11.00	H9	
93	123	/90	DENT		11.00	H9	
99	123	/90	DENT		11.00	H9	
121	123	/90	DENT		16.44	H9	+15.50
82	123	/90	DENT		16.44	H9	+15.00
		/90	DENT		11.00	H9	+ 1.00
		/90	DENT		11.00	H9	+10.20
		/90	DENT		11.00	H9	+ 3.80
		/90	DENT		11.00	H9	+15.40
		/90	DENT		11.00	H9	+15.90
84	126	/90	DENT		4.00	C3	
92	126	/90	DENT		4.00	H9	
94	126	/90	DENT		4.00	H9	
96	126	/90	DENT		4.00	H9	
98	126	/90	DENT		4.00	H9	
83	127	/90	DENT		4.00	C3	+24.30
91	127	/90	DENT		4.00	H9	
		/90	DENT		4.00	H9	+ 2.00
93	127	/90	DENT		4.00	H9	
95	127	/90	DENT		4.00	H9	
97	127	/90	DENT		4.00	H9	
14	128	/90	DENT		4.00	C3	+ 9.00
92	128	/90	DENT		4.00	H9	
98	128	/90	DENT		4.00	H9	
110	128	/90	DENT		4.00	H9	
38	130	/90	DENT		11.00	H9	+32.30
93	131	/90	DENT		11.00	H9	

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 11

QUERY: ALL DENT INDICATIONS - ALL ELEVATIONS

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
92	132	5/90	DENT		5.86	H9	
6	134	5/90	DENT		12.19	C6	+ 6.00
		5/90	DENT		12.19	C6	+ 6.00
80	134	5/90	DENT		12.26	H8	+14.80
91	135	5/90	DENT		6.35	C9	
97	135	5/90	DENT		12.48	C9	
31	137	5/90	DENT		6.03	VM	
97	137	5/90	DENT		20.52	H9	
96	138	5/90	DENT		6.28	H9	
37	139	5/90	DENT		9.60	VM	
32	140	5/90	DENT		6.87	C4	+ 7.10
86	140	5/90	DENT		14.26	H5	+ 1.80
92	140	5/90	DENT		5.51	H9	
35	141	5/90	DENT		5.63	VM	
93	141	5/90	DENT		6.73	HTS-SF	+ 18.65
38	142	5/90	DENT		7.06	C4	+ 2.80
64	142	5/90	DENT		8.33	DH	+ 27.50
90	142	5/90	DENT		10.46	VM	
21	143	5/90	DENT		5.99	C3	+ 10.90
67	143	5/90	DENT		6.08	C7	+ 2.20
37	145	5/90	DENT		8.04	VM	+ 3.90
		5/90	DENT		7.38	VM	+ 1.80
85	147	5/90	DENT		8.13	H1	+ 22.80
2	148	5/90	DENT		16.87	VM	
		5/90	DENT		24.56	VM	
37	151	5/90	DENT		14.08	VM	
8	152	5/90	DENT		11.00	C6	+ 6.20
12	152	5/90	DENT		13.50	C6	+ 7.80
13	153	5/90	DENT		12.81	C6	+ 8.20
31	153	5/90	DENT		5.68	VM	
69	154	5/90	DENT		6.45	DC	+ 7.90
12	154	5/90	DENT		11.06	C6	+ 7.60
14	154	5/90	DENT		15.47	C6	+ 9.80
42	154	5/90	DENT		20.70	C7	
		5/90	DENT		20.99	C	+ 1.10
		5/90	DENT		25.25	C6	+ 20.10
48	154	5/90	DENT		8.49	DH	
34	156	5/90	DENT		27.94	VM	+ 8.20
38	156	5/90	DENT		24.93	H2	+ 12.90
31	157	5/90	DENT		9.29	VM	
37	157	5/90	DENT		10.96	VM	+ 5.00
57	157	5/90	DENT		18.27	H7	+ 2.80
55	159	5/90	DENT		9.89	VM	
13	161	5/90	DENT		12.77	C6	+ 8.20
31	161	5/90	DENT		8.71	VM	

TOTAL TUBES FOUND = 786
 TOTAL INDICATIONS FOUND = 649
 TOTAL TUBES IN INPUT FILE = 8519
 TOTAL TUBES INSPECTED = 8421

STEAM GENERATOR 11

F. List with Plot of Tubes Plugged
During May/June 1990

TUBES PLUGGED 5/90 OUTAGE

PLANT: CALVERT CLIFFS UNIT 1
 OUTAGE: 5/90

GENERATOR 11

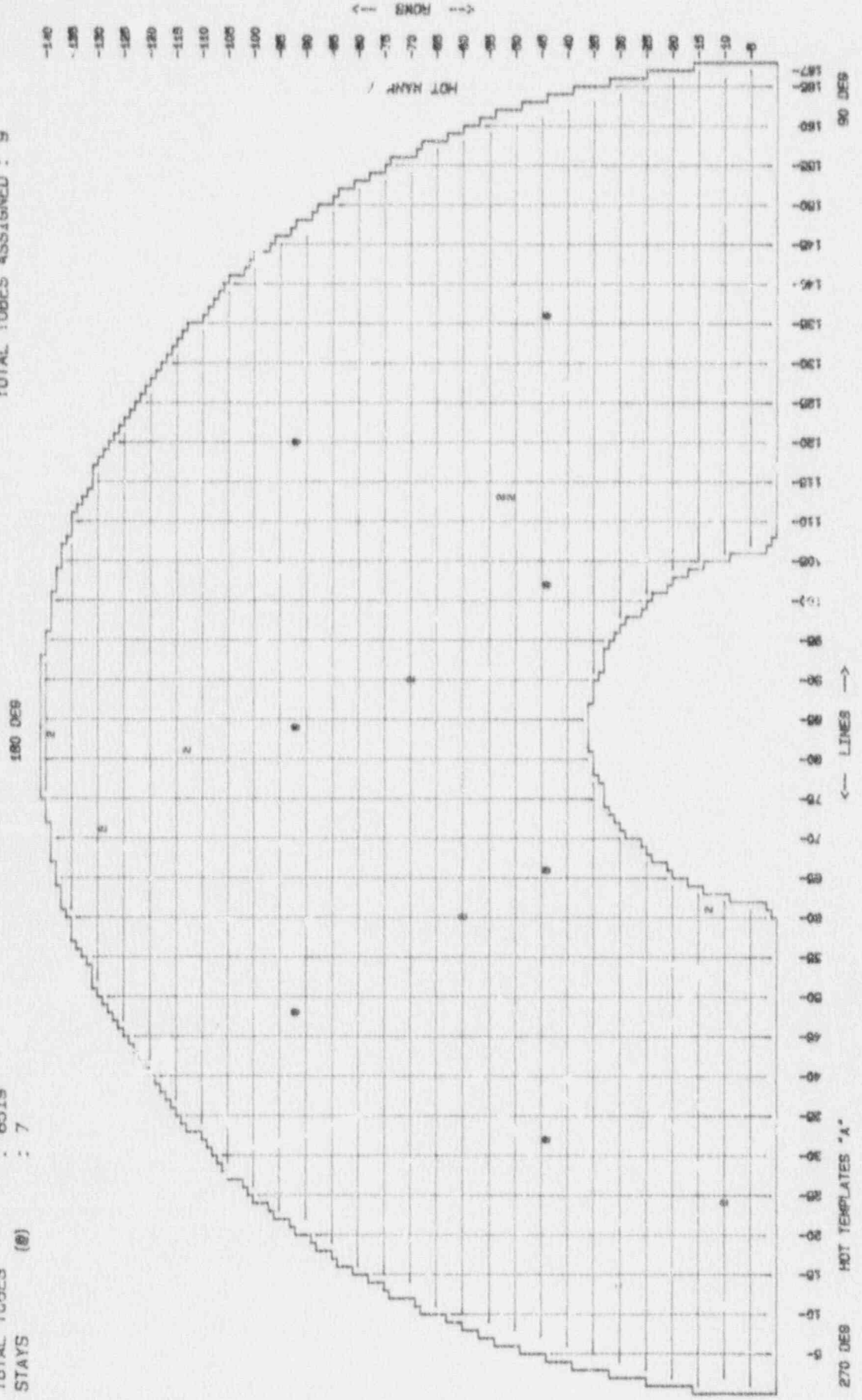
1 = MECH-OE (0)
 4 = CONST (0)

2 = 2-31-M (0)

3 = WELD-OE (0)

TOTAL TUBES : 8519
 STAYS : 7

TOTAL TUBES ASSIGNED : 9



Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 11

QUERY OUTPUT

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
10	24	5/90	PLUGGED	MECH-W		HTS-1FF	
		5/90	PLUGGED	MECH-W		CTS-1FF	
60	60	5/90	PLUGGED	MECH-W		HTS-1FF	
		5/90	PLUGGED	MECH-W		CTS-1FF	
13	61	5/90	PLUGGED	MECH-W		HTS-1FF	
		5/90	PLUGGED	MECH-W		CTS-1FF	
129	71	5/90	PLUGGED	MECH-W		HTS-1FF	
		5/90	PLUGGED	MECH-W		CTS-1FF	
113	81	5/90	PLUGGED	MECH-W		HTS-1FF	
		5/90	PLUGGED	MECH-W		CTS-1FF	
139	83	5/90	PLUGGED	MECH-W		HTS-1FF	
		5/90	PLUGGED	MECH-W		CTS-1FF	
70	90	5/90	PLUGGED	MECH-W		HTS-1FF	
		5/90	PLUGGED	MECH-W		CTS-1FF	
51	113	5/90	PLUGGED	MECH-W		HTS-1FF	
		5/90	PLUGGED	MECH-W		CTS-1FF	
53	113	5/90	PLUGGED	MECH-W		HTS-1FF	
		5/90	PLUGGED	MECH-W		CTS-1FF	

TOTAL TUBES FOUND # 9
 TOTAL INDICATIONS FOUND # 18
 TOTAL TUBES IN INPUT FILE # 8519
 TOTAL TUBES INSPECTED # 8421

STEAM GENERATOR 11

G. List with File of all Tubes Plugged

ALL TUBES PLUGGED

GENERATOR 11

PLANT: CALVERT CLIFFS UNIT 1
 OUTAGES: 12/80 06/80 10/83 04/85 10/86 04/88 5/90

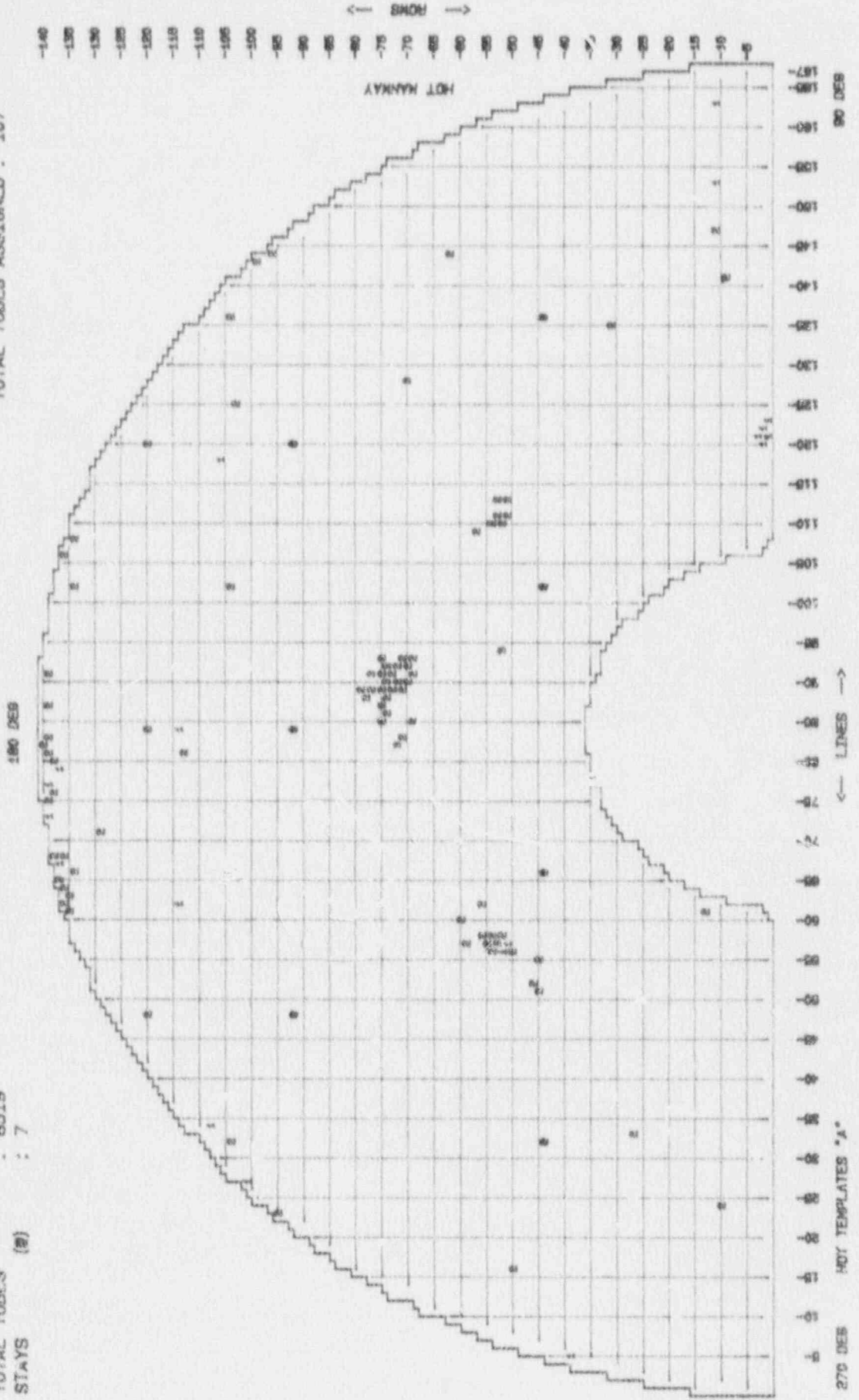
3 = WELD-OE (W)

2 = MECH-W (M)

TOTAL TUBES ASSIGNED : 107

TOTAL TUBES : 8519
 STAYS : 7

1 = MECH-OE (E)
 4 = CONST (C)



Plant: CALVERT CLIFFS UNIT 1
 Outages: 12/80 06/82 10/83 04/85

10/P: 04/88

Steam Generator: 11
 5/90

QUERY: ALL TUBES PLUGGED

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
39	5	10/84	PLUGGED	MEOH10E		HT	1.75
		10/84	PLUGGED	MEOH10E		HT	1.75
50	16	04/88	PLUGGED	MEOH10E		HT	1.75
		04/88	PLUGGED	MEOH10E		HT	1.75
95	23	06/82	PLUGGED	MEOH10E	1.00	HT	1.75
		06/82	PLUGGED	MEOH10E		HT	1.75
10	24	5/90	PLUGGED	MEOH10E		HT	1.75
		5/90	PLUGGED	MEOH10E		HT	1.75
101	27	10/84	PLUGGED	MEOH10E		HT	1.75
		10/84	PLUGGED	MEOH10E		HT	1.75
104	32	06/82	PLUGGED	MEOH10E		HT	1.75
		06/82	PLUGGED	MEOH10E		HT	1.75
27	33	04/88	PLUGGED	MEOH10E		HT	1.75
		04/88	PLUGGED	MEOH10E		HT	1.75
108	34	10/84	PLUGGED	MEOH10E		HT	1.75
		10/84	PLUGGED	MEOH10E		HT	1.75
120	48	06/82	PLUGGED	MEOH10E		HT	1.75
		06/82	PLUGGED	MEOH10E		HT	1.75
45	51	04/88	PLUGGED	MEOH10E		HT	1.75
		04/88	PLUGGED	MEOH10E		HT	1.75
46	52	04/88	PLUGGED	MEOH10E		HT	1.75
		04/88	PLUGGED	MEOH10E		HT	1.75
45	55	04/88	PLUGGED	MEOH10E		HT	1.75
		04/88	PLUGGED	MEOH10E		HT	1.75
50	56	04/88	PLUGGED	MEOH10E		HT	1.75
		04/88	PLUGGED	MEOH10E		HT	1.75
52	56	10/84	PLUGGED	MEOH10E		HT	1.75
		10/84	PLUGGED	MEOH10E		HT	1.75
54	56	04/88	PLUGGED	MEOH10E		HT	1.75
		04/88	PLUGGED	MEOH10E		HT	1.75
51	57	10/84	PLUGGED	MEOH10E		HT	1.75
		10/84	PLUGGED	MEOH10E		HT	1.75
53	57	10/84	PLUGGED	MEOH10E		HT	1.75
		10/84	PLUGGED	MEOH10E		HT	1.75
55	57	04/88	PLUGGED	MEOH10E		HT	1.75
		04/88	PLUGGED	MEOH10E		HT	1.75
59	57	04/88	PLUGGED	MEOH10E		HT	1.75
		04/88	PLUGGED	MEOH10E		HT	1.75
52	58	04/88	PLUGGED	MEOH10E		HT	1.75
		04/88	PLUGGED	MEOH10E		HT	1.75
54	58	04/88	PLUGGED	MEOH10E		HT	1.75
		04/88	PLUGGED	MEOH10E		HT	1.75
56	58	04/88	PLUGGED	MEOH10E		HT	1.75
		04/88	PLUGGED	MEOH10E		HT	1.75
60	60	5/90	PLUGGED	MEOH10E		HT	1.75
		5/90	PLUGGED	MEOH10E		HT	1.75
13	61	5/90	PLUGGED	MEOH10E		HT	1.75
		5/90	PLUGGED	MEOH10E		HT	1.75
135	61	06/82	PLUGGED	MEOH10E		HT	1.75
		06/82	PLUGGED	MEOH10E		HT	1.75
56	62	04/88	PLUGGED	MEOH10E		HT	1.75
		04/88	PLUGGED	MEOH10E		HT	1.75
114	62	10/84	PLUGGED	MEOH10E		HT	1.75
		10/84	PLUGGED	MEOH10E		HT	1.75
136	62	06/82	PLUGGED	MEOH10E		HT	1.75
		06/82	PLUGGED	MEOH10E		HT	1.75
135	63	06/82	PLUGGED	MEOH10E		HT	1.75
		06/82	PLUGGED	MEOH10E		HT	1.75
136	64	06/82	PLUGGED	MEOH10E		HT	1.75
		06/82	PLUGGED	MEOH10E		HT	1.75
137	65	06/82	PLUGGED	MEOH10E		HT	1.75
		06/82	PLUGGED	MEOH10E		HT	1.75
104	66	06/82	PLUGGED	MEOH10E		HT	1.75
		06/82	PLUGGED	MEOH10E		HT	1.75
134	66	06/82	PLUGGED	MEOH10E		HT	1.75
		06/82	PLUGGED	MEOH10E		HT	1.75
137	67	10/84	PLUGGED	MEOH10E		HT	1.75

Plant: CALVERT CLIFFS UNIT 1
 Outages: 12/80 06/82 10/83 04/85 10/86 04/88 5/90
 Steam Generator: 11

QUERY: ALL TUB PLUGGED

RDW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
136	68	10/86	PLUGGED	MECH-CE		CTS-PP	
		04/88	PLUGGED	MECH-W		HTS-PP	
		04/88	PLUGGED	MECH-W		CTS-PP	
138	68	04/88	PLUGGED	MECH-W		HTS-PP	
		04/88	PLUGGED	MECH-W		CTS-PP	
129	71	5/90	PLUGGED	MECH-W		HTS-PP	
		5/90	PLUGGED	MECH-W		CTS-PP	
139	73	10/86	PLUGGED	MECH-CE		HTS-PP	
		10/86	PLUGGED	MECH-CE		CTS-PP	
139	75	04/88	PLUGGED	MECH-W		HTS-PP	
		04/88	PLUGGED	MECH-W		CTS-PP	
138	76	04/88	PLUGGED	MECH-W		HTS-PP	
		04/88	PLUGGED	MECH-W		CTS-PP	
139	77	10/86	PLUGGED	MECH-CE		HTS-PP	
		10/86	PLUGGED	MECH-CE		CTS-PP	
137	79	10/86	PLUGGED	MECH-CE		HTS-PP	
		10/86	PLUGGED	MECH-CE		CTS-PP	
138	80	04/85	PLUGGED	MECH-W		CTS-PP	
		04/85	PLUGGED	MECH-W		HTS-PP	
113	81	5/90	PLUGGED	MECH-W		HTS-PP	
		5/90	PLUGGED	MECH-W		CTS-PP	
139	81	04/85	PLUGGED	MECH-W		CTS-PP	
		04/85	PLUGGED	MECH-W		HTS-PP	
	72	82	10/86	PLUGGED	WELD-CE	HTS-PP	
			10/86	PLUGGED	WELD-CE	CTS-PP	
140	82	04/85	PLUGGED	MECH-W		CTS-PP	
		04/85	PLUGGED	MECH-W		HTS-PP	
	71	83	04/88	PLUGGED	MECH-W	HTS-PP	
			04/88	PLUGGED	MECH-W	CTS-PP	
139	83	5/90	PLUGGED	MECH-W		HTS-PP	
		5/90	PLUGGED	MECH-W		CTS-PP	
114	84	10/86	PLUGGED	MECH-CE		HTS-PP	
		10/86	PLUGGED	MECH-CE		CTS-PP	
120	84	06/82	PLUGGED	MECH-W		CTS-PP	
		06/82	PLUGGED	MECH-W		HTS-PP	
69	85	04/88	PLUGGED	MECH-W		HTS-PP	
		04/88	PLUGGED	MECH-W		CTS-PP	
	75	85	04/88	PLUGGED	MECH-W	HTS-PP	
			04/88	PLUGGED	MECH-W	CTS-PP	
	74	86	04/88	PLUGGED	MECH-W	HTS-PP	
			04/88	PLUGGED	MECH-W	CTS-PP	
	75	87	04/85	PLUGGED	MECH-W	CTS-PP	
			04/85	PLUGGED	MECH-W	HTS-PP	
139	87	04/88	PLUGGED	MECH-W		HTS-PP	
		04/88	PLUGGED	MECH-W		CTS-PP	
	74	88	04/88	PLUGGED	MECH-W	HTS-PP	
			04/88	PLUGGED	MECH-W	CTS-PP	
	78	88	04/88	PLUGGED	MECH-W	HTS-PP	
			04/88	PLUGGED	MECH-W	CTS-PP	
	71	89	04/88	PLUGGED	MECH-W	HTS-PP	
			04/88	PLUGGED	MECH-W	CTS-PP	
	73	89	04/88	PLUGGED	MECH-W	HTS-PP	
			04/88	PLUGGED	MECH-W	CTS-PP	
	75	89	04/85	PLUGGED	MECH-W	CTS-PP	
			04/85	PLUGGED	MECH-W	HTS-PP	
	77	89	04/88	PLUGGED	MECH-W	HTS-PP	
			04/88	PLUGGED	MECH-W	CTS-PP	
	79	89	04/88	PLUGGED	MECH-W	HTS-PP	
			04/88	PLUGGED	MECH-W	CTS-PP	
	70	90	5/90	PLUGGED	MECH-W	HTS-PP	
			5/90	PLUGGED	MECH-W	CTS-PP	
	72	90	04/88	PLUGGED	MECH-W	HTS-PP	
			04/88	PLUGGED	MECH-W	CTS-PP	
	74	90	10/86	PLUGGED	WELD-CE	HTS-PP	
			10/86	PLUGGED	WELD-CE	CTS-PP	
69	91	04/85	PLUGGED	MECH-W		CTS-PP	
		04/85	PLUGGED	MECH-W		HTS-PP	

Plant: CALVERT CLIFFS UNIT 1
 Outages: 12/80 06/82 10/83 04/85 10/86 04/88 5/90
 Steam Generator: 11

QUERY: ALL TUBES PLUGGED

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
73	91	04/85	PLUGGED	MECH-W		CTS	1FF
		04/85	PLUGGED	MECH-W		HTS	1FF
75	91	04/85	PLUGGED	MECH-W		CTS	1FF
		04/85	PLUGGED	MECH-W		HTS	1FF
77	91	10/86	PLUGGED	WELD-CE		HTS	1FF
		10/86	PLUGGED	WELD-CE		CTS	1FF
139	91	04/85	PLUGGED	MECH-W		CTS	1FF
		04/85	PLUGGED	MECH-W		HTS	1FF
70	92	04/88	PLUGGED	MECH-W		HTS	1FF
		04/88	PLUGGED	MECH-W		CTS	1FF
72	92	04/85	PLUGGED	MECH-W		CTS	1FF
		04/85	PLUGGED	MECH-W		HTS	1FF
74	92	04/88	PLUGGED	MECH-W		HTS	1FF
		04/88	PLUGGED	MECH-W		CTS	1FF
69	93	04/88	PLUGGED	MECH-W		HTS	1FF
		04/88	PLUGGED	MECH-W		CTS	1FF
71	93	04/88	PLUGGED	MECH-W		HTS	1FF
		04/88	PLUGGED	MECH-W		CTS	1FF
75	93	04/88	PLUGGED	MECH-W		HTS	1FF
		04/88	PLUGGED	MECH-W		CTS	1FF
52	94	10/86	PLUGGED	WELD-CE		HTS	1FF
		10/86	PLUGGED	WELD-CE		CTS	1FF
104	102	06/82	PLUGGED	MECH-W		CTS	1FF
		06/82	PLUGGED	MECH-W		HTS	1FF
134	102	06/82	PLUGGED	MECH-W		CTS	1FF
		06/82	PLUGGED	MECH-W		HTS	1FF
136	106	10/83	PLUGGED	MECH-W		CTS	1FF
		10/83	PLUGGED	MECH-W		HTS	1FF
134	108	04/88	PLUGGED	MECH-W		HTS	1FF
		04/88	PLUGGED	MECH-W		CTS	1FF
57	109	04/88	PLUGGED	MECH-W		HTS	1FF
		04/88	PLUGGED	MECH-W		CTS	1FF
52	110	04/88	PLUGGED	MECH-W		HTS	1FF
		04/88	PLUGGED	MECH-W		CTS	1FF
54	110	04/88	PLUGGED	MECH-W		HTS	1FF
		04/88	PLUGGED	MECH-W		CTS	1FF
51	111	04/88	PLUGGED	MECH-W		HTS	1FF
		04/88	PLUGGED	MECH-W		CTS	1FF
53	111	04/85	PLUGGED	MECH-W		CTS	1FF
		04/85	PLUGGED	MECH-W		HTS	1FF
51	113	5/90	PLUGGED	MECH-W		HTS	1FF
		5/90	PLUGGED	MECH-W		CTS	1FF
53	113	5/90	PLUGGED	MECH-W		HTS	1FF
		5/90	PLUGGED	MECH-W		CTS	1FF
106	118	10/86	PLUGGED	MECH-CE		HTS	1FF
		10/86	PLUGGED	MECH-CE		CTS	1FF
2	120	10/86	PLUGGED	MECH-CE		HTS	1FF
		10/86	PLUGGED	MECH-CE		CTS	1FF
120	120	06/82	PLUGGED	MECH-W		CTS	1FF
		06/82	PLUGGED	MECH-W		HTS	1FF
1	121	10/86	PLUGGED	MECH-CE		HTS	1FF
		10/86	PLUGGED	MECH-CE		CTS	1FF
3	121	10/86	PLUGGED	MECH-CE		HTS	1FF
		10/86	PLUGGED	MECH-CE		CTS	1FF
2	122	10/86	PLUGGED	MECH-CE		HTS	1FF
		10/86	PLUGGED	MECH-CE		CTS	1FF
1	123	10/86	PLUGGED	MECH-CE		HTS	1FF
		10/86	PLUGGED	MECH-CE		CTS	1FF
103	125	04/88	PLUGGED	MECH-W		HTS	1FF
		04/88	PLUGGED	MECH-W		CTS	1FF
70	128	10/86	PLUGGED	WELD-CE		HTS	1FF
		10/86	PLUGGED	WELD-CE		CTS	1FF
31	135	04/88	PLUGGED	MECH-W		HTS	1FF
		04/88	PLUGGED	MECH-W		CTS	1FF
104	136	06/82	PLUGGED	MECH-W		CTS	1FF
		06/82	PLUGGED	MECH-W		HTS	1FF
9	141	04/85	PLUGGED	MECH-W		CTS	1FF

Plant: CALVERT CLIFFS UNIT 1
 Outages: 12/80 06/82 10/83 04/85 10/86 04/88 5/90 Steam Generator: 11

QUERY: ALL TUBES PLUGGED

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
		04/85	PLUGGED	MECH-W		HTS-PF	
99	143	10/83	PLUGGED	MECH-W		CTS-PF	
		10/83	PLUGGED	MECH-W		HTS-PF	
62	144	04/85	PLUGGED	MECH-W		CTS-PF	
		04/85	PLUGGED	MECH-W		HTS-PF	
96	144	10/83	PLUGGED	MECH-W		CTS-PF	
		10/83	PLUGGED	MECH-W		HTS-PF	
11	147	04/88	PLUGGED	MECH-W		HTS-PF	
		04/88	PLUGGED	MECH-W		CTS-PF	
11	153	10/86	PLUGGED	MECH-DR		HTS-PF	
		10/86	PLUGGED	MECH-DR		CTS-PF	
11	163	10/86	PLUGGED	MECH-DR		HTS-PF	
		10/86	PLUGGED	MECH-DR		CTS-PF	

TOTAL TUBES FOUND # 107
 TOTAL INDICATIONS FOUND # 214

APPENDIX II

Eddy Current Test Results for SG 12

- A. List with Plot of All Indications
- B. List with Plot of <20% Indications
- C. List with Plot of 20% - 39% Indications
- D. List with Plot of >39% Indications
- E. List with Plot of Tubes Dented
- F. List with Plot of Tubes Plugged During May/June
1990
- G. List with Plot of all Tubes Plugged

STEAM GENERATOR 12

A. List with Plot of All Indications

All Eddy Current Indications - All Elevations

PLANT: CALVERT CLIFFS UNIT 1
 OUTAGE: 5/90

GENERATOR: 12

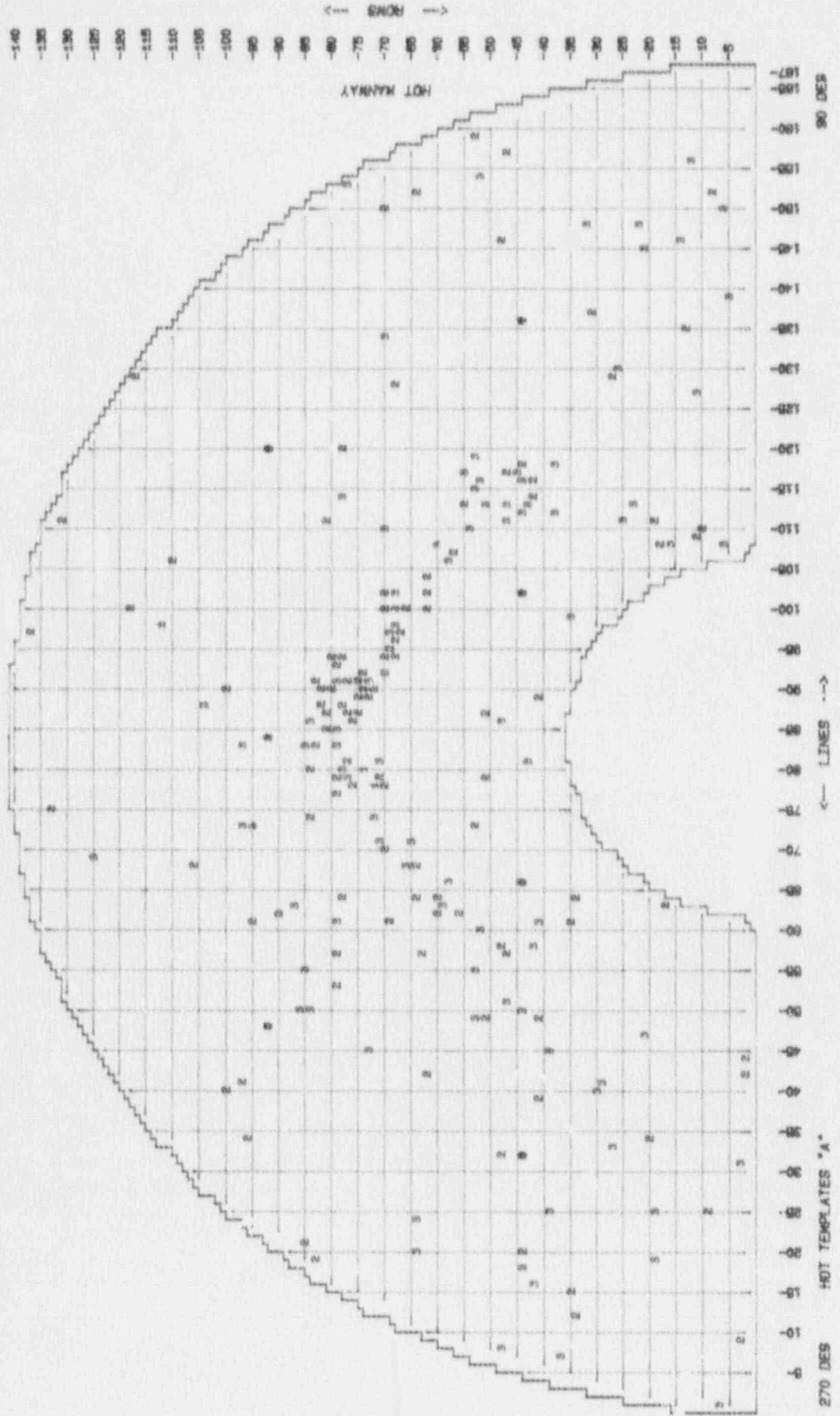
1 = >39 (in)

2 = 20-39 (110)

3 = <20 (90)

TOTAL TUBES : 8519
 STAYS : 7

TOTAL TUBES ASSIGNED : 204



Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 12

QUERY: All Eddy Current Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
7	1	5/90	OD	8	8	TW	1.01 H4
37	7	5/90	OD	12	8	TW	0.64 H2 +15.80
48	8	5/90	OD	17	8	TW	1.09 H5 + 4.50
3	9	5/90	OD	38	8	TW	1.17 C5 + 4.10
34	12	5/90	OD	31	8	TW	0.80 HTS-SF +30.40
35	15	5/90	OD	28	8	TW	0.48 HTS-SF + 2.90
42	16	5/90	OD	13	8	TW	1.28 H1 +17.40
44	18	5/90	OD	18	8	TW	0.57 H6 +22.20
19	19	5/90	OD	7	8	TW	0.96 HTS-SF +13.20
83		5/90	OD	33	8	TW	1.15 H6 +21.90
		5/90	OD	12	8	TW	0.83 H7 +10.70
44	20	5/90	OD	22	8	TW	0.58 H2 +20.30
		5/90	OD	24	8	TW	0.67 H5 +12.70
64	20	5/90	OD	8	8	TW	0.72 H5 +34.50
85	21	5/90	OD	35	8	TW	0.78 H5 +10.90
64	24	5/90	OD	11	8	TW	0.56 H6 +10.10
		5/90	OD	10	8	TW	0.72 H6 +19.90
9	25	5/90	OD	38	8	TW	0.83 VM
19	25	5/90	OD	10	8	TW	0.94 CTS-SF +12.10
39	25	5/90	OD	4	8	TW	0.66 CTS-SF +13.60
3	31	5/90	OD	11	8	TW	0.73 CTS-SF +26.50
48	32	5/90	OD	36	8	TW	0.71 DH + 6.00
27	33	5/90	OD	13	8	TW	0.73 H5 +37.50
20	34	5/90	OD	32	8	TW	0.88 HTS-SF +33.70
96	34	5/90	OD	22	8	TW	0.99 C7 + 1.40
41	39	5/90	OD	24	8	TW	0.71 H6 + 1.90
30	40	5/90	OD	17	8	TW	1.72 HTS-SF + 0.70
100	40	5/90	OD	32	8	TW	1.08 C5 + 1.40
29	41	5/90	OD	16	8	TW	0.78 HTS-SF + 0.80
97	41	5/90	OD	38	8	TW	0.67 C5 + 2.50
2	42	5/90	OD	24	8	TW	0.51 HTS-SF + 1.10
62	42	5/90	OD	26	8	TW	1.31 CTS-SF + 0.60
2	44	5/90	OD	21	8	TW	1.03 CTS-SF + 0.50
39	45	5/90	OD	19	8	TW	8.97 HTS-SF
73	45	5/90	OD	13	8	TW	0.54 H3 +11.60
21	47	5/90	OD	19	8	TW	0.59 C3 +14.60
41	49	5/90	OD	36	8	TW	0.38 HTS-SF + 0.80
51	49	5/90	OD	26	8	TW	0.53 H4 +24.70
53	49	5/90	OD	10	8	TW	0.63 C6 + 3.60
44	50	5/90	OD	16	8	TW	0.84 HTS-SF + 1.20
84	50	5/90	OD	15	8	TW	39.27 HTS-SF
86	50	5/90	OD	15	8	TW	40.85 HTS-SF
47	51	5/90	OD	17	8	TW	1.34 VM + 5.00
79	53	5/90	OD	26	8	TW	0.54 C4 +25.50
53	55	5/90	OD	17	8	TW	0.80 H3 +32.60
85	55	5/90	OD	11	8	TW	4.81 HTS-SF
47	57	5/90	OD	21	8	TW	0.53 HTS-SF + 1.90
63	57	5/90	OD	24	8	TW	0.68 C3 +37.50
		5/90	OD	34	8	TW	0.81 C4 + 5.80
79	57	5/90	OD	38	8	TW	0.85 C5 +22.40
42	58	5/90	OD	12	8	TW	0.72 C3 + 1.40
48	58	5/90	OD	22	8	TW	0.66 HTS-SF + 2.20
52	60	5/90	OD	18	8	TW	0.68 HTS-SF +22.20
35	61	5/90	OD	25	8	TW	0.64 H2 +13.80
41	61	5/90	OD	16	8	TW	0.43 H5 +35.50
69	61	5/90	OD	29	8	TW	0.58 DH +25.50
79	61	5/90	OD	15	8	TW	1.47 H8 +13.20
95	61	5/90	OD	37	8	TW	0.96 H7 + 9.90
56	62	5/90	OD	27	8	TW	2.23 HTS-SF + 0.60
60	62	5/90	OD	26	8	TW	0.69 HTS-SF + 1.30
90	62	5/90	OD	23	8	TW	0.81 C4 +24.30
17	63	5/90	OD	29	8	TW	0.43 C2 +24.70
59	63	5/90	OD	15	8	TW	0.88 HTS-SF + 1.20
87	63	5/90	OD	12	8	TW	0.71 H7 +13.30
34	64	5/90	OD	35	8	TW	0.58 H4 +22.60
60	64	5/90	OD	37	8	TW	0.77 HTS-SF + 1.00
64	64	5/90	OD	24	8	TW	0.75 HTS-SF + 1.70

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 12

QUERY: All Eddy Current Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
78	64	5/90	OD	24	0.94	C7	- 0.60
58	66	5/90	OD	13	0.60	HTS - SF	+ 2.20
64	68	5/90	OD	27	0.47	HTS - SF	- 0.70
		5/90	OD	19	0.79	HTS - SF	+ 1.30
	68	5/90	OD	15	1.30	HTS - SF	+ 2.40
106	68	5/90	OD	38	0.69	H5	+ 2.10
125	69	5/90	OD	16	3.14	VC	+ 7.40
70	70	5/90	OD	23	0.53	HTS - SF	+ 1.10
65	71	5/90	OD	13	0.78	HTS - SF	+ 2.30
71	71	5/90	OD	16	0.82	HTS - SF	+ 1.10
53	73	5/90	OD	23	0.63	VM	+ 11.00
95	73	5/90	OD	12	2.23	VM	+ 1.00
97	73	5/90	OD	19	0.86	VM	+ 10.00
72	74	5/90	OD	13	0.90	HTS - SF	+ 1.30
84	74	5/90	OD	34	0.52	VH	+ 20.40
133	75	5/90	OD	13	0.89	VM	+ 17.50
79	77	5/90	OD	22	0.53	H1	+ 6.60
70	78	5/90	OD	37	0.83	HTS - SF	+ 0.70
72	78	5/90	OD	45	0.61	HTS - SF	+ 0.90
76	78	5/90	OD	32	1.35	HTS - SF	+ 0.80
		5/90	OD	19	1.19	HTS - SF	+ 1.50
51	79	5/90	OD	38	0.53	C4	+ 6.70
71	79	5/90	OD	22	0.77	HTS - SF	+ 1.10
77	79	5/90	OD	15	0.98	HTS - SF	+ 1.70
79	79	5/90	OD	38	0.71	C2	+ 16.30
74	80	5/90	OD	48	0.54	HTS - SF	+ 1.00
78	80	5/90	OD	18	1.09	C5	+ 26.00
84	80	5/90	OD	29	0.64	H3	+ 34.90
43	81	5/90	OD	11	0.69	HTS - SF	+ 27.10
71	81	5/90	OD	10	2.29	HTS - SF	+ 0.90
77	81	5/90	OD	27	1.72	HTS - SF	+ 1.60
79	83	5/90	OD	22	0.90	HTS - SF	+ 2.50
83	83	5/90	OD	25	1.75	HTS - SF	+ 0.80
85	83	5/90	OD	7	0.98	HTS - SF	+ 0.80
97	83	5/90	OD	17	0.99	H5	+ 21.20
79	85	5/90	OD	8	1.12	HTS - SF	+ 2.50
81	85	5/90	OD	26	1.49	HTS - SF	+ 0.50
48	86	5/90	OD	12	1.02	C3	+ 26.50
76	86	5/90	OD	23	1.09	HTS - SF	+ 3.10
84	86	5/90	OD	17	0.70	HTS - SF	+ 1.10
51	87	5/90	OD	11	0.50	C1	+ 18.60
		5/90	OD	22	0.62	C1	+ 27.90
75	87	5/90	OD	27	1.15	HTS - SF	+ 1.50
77	67	5/90	OD	18	2.00	HTS - SF	+ 2.70
		5/90	OD	22	0.83	HTS - SF	+ 1.50
81	87	5/90	OD	34	0.53	HTS - SF	+ 1.70
78	88	5/90	OD	19	1.36	HTS - SF	+ 2.90
		5/90	OD	33	0.52	HTS - SF	+ 1.50
82	88	5/90	OD	26	0.84	HTS - SF	+ 1.30
104	88	5/90	OD	19	0.67	VM	
41	89	5/90	OD	38	0.67	H1	+ 20.40
73	89	5/90	OD	32	1.32	HTS - SF	+ 0.90
75	89	5/90	OD	21	0.93	HTS - SF	+ 1.50
72	90	5/90	OD	33	0.57	HTS - SF	+ 1.10
74	90	5/90	OD	18	1.03	HTS - SF	+ 1.60
		5/90	OD	13	0.40	HTS - SF	+ 1.80
80	90	5/90	OD	27	0.57	HTS - SF	+ 0.70
82	90	5/90	OD	26	1.76	HTS - SF	+ 0.70
100	90	5/90	OD	25	1.27	H3	+ 29.40
73	91	5/90	OD	12	1.12	HTS - SF	+ 2.00
75	91	5/90	OD	26	1.72	HTS - SF	+ 1.50
77	91	5/90	OD	24	0.56	HTS - SF	+ 2.70
79	91	5/90	OD	16	0.80	HTS - SF	+ 0.80
83	91	5/90	OD	31	0.62	H6	+ 21.30
		5/90	OD	37	0.70	H7	+ 13.20
70	92	5/90	OD	34	0.81	HTS - SF	+ 1.20
74	92	5/90	OD	21	1.00	HTS - SF	+ 1.70

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 12

QUERY: All Eddy Current Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
		5/90	OD	28	1.13	HTS-SF	+ 0.50
79	93	5/90	OD	23	0.49	HTS-SF	+ 0.60
68	94	5/90	OD	26	1.78	HTS-SF	+ 0.70
70	94	5/90	OD	28	0.35	HTS-SF	+ 2.10
78	94	5/90	OD	26	1.36	HTS-SF	+ 0.80
80	94	5/90	OD	22	0.81	HTS-SF	+ 1.10
		5/90	OD	24	0.57	HTS-SF	+ 1.80
		5/90	OD	26	0.49	HTS-SF	+ 1.40
69	95	5/90	OD	25	1.13	H5	+33.20
68	96	5/90	OD	22	0.57	HTS-SF	+ 2.10
67	97	5/90	OD	28	0.80	HTS-SF	+ 0.90
69	97	5/90	OD	16	1.29	HTS-SF	+ 0.60
137	97	5/90	OD	28	1.14	C10	+10.40
68	98	5/90	OD	8	2.37	HTS-SF	+ 0.60
112	98	5/90	OD	18	1.83	H6	+13.50
35	99	5/90	OD	10	0.75	C4	+ 9.50
62	100	5/90	OD	7	0.92	HTS-SF	+ 1.00
66	100	5/90	OD	11	0.84	C3	+23.30
		5/90	OD	26	0.88	HTS-SF	+ 1.40
68	100	5/90	OD	15	1.29	HTS-SF	+ 1.60
70	100	5/90	OD	23	0.79	HTS-SF	+ 1.30
		5/90	OD	28	1.02	HTS-SF	+ 0.50
118	100	5/90	OD	22	0.52	VM	+ 8.20
62	102	5/90	OD	25	1.19	HTS-SF	+ 0.60
68	102	5/90	OD	11	1.14	HTS-SF	+ 0.80
70	102	5/90	OD	22	0.78	HTS-SF	+ 1.40
62	104	5/90	OD	29	1.53	HTS-SF	+ 1.40
58	106	5/90	OD	15	0.75	HTS-SF	+ 1.80
110	106	5/90	OD	31	0.68	H7	+17.10
57	107	5/90	OD	26	2.55	HTS-SF	+ 0.70
6	108	5/90	OD	18	0.77	HTS-SF	+ 0.20
16	108	5/90	OD	12	0.51	HTS-SF	+ 1.10
18	108	5/90	OD	22	0.25	HTS-SF	+ 1.10
60	108	5/90	OD	15	1.78	HTS-SF	+ 2.50
11	109	5/90	OD	23	1.03	HTS-SF	+ 1.50
10	110	5/90	OD	22	0.86	HTS-SF	+ 0.70
54	110	5/90	OD	12	0.71	HTS-SF	+ 2.20
70	110	5/90	OD	10	0.65	H2	+10.50
19	111	5/90	OD	21	0.76	HTS-SF	+ 1.40
25	111	5/90	OD	8	0.98	HTS-SF	+ 0.90
47	111	5/90	OD	18	0.43	HTS-SF	+ 0.70
81	111	5/90	OD	26	1.29	HTS-SF	+37.90
131	111	5/90	OD	35	0.54	C8	+14.70
38	112	5/90	OD	7	1.02	HTS-SF	+ 0.90
44	112	5/90	OD	11	0.45	HTS-SF	+ 1.70
23	113	5/90	OD	11	0.78	HTS-SF	+ 1.10
43	113	5/90	OD	8	0.89	HTS-SF	+ 2.00
47	113	5/90	OD	12	1.27	HTS-SF	+ 0.50
51	113	5/90	OD	12	0.74	HTS-SF	+ 2.80
55	113	5/90	OD	29	0.64	HTS-SF	+ 0.80
42	114	5/90	OD	38	0.75	H1	+ 8.80
76	114	5/90	OD	10	1.02	VH	+23.50
53	115	5/90	OD	19	0.60	HTS-SF	+ 1.90
42	116	5/90	OD	25	1.01	HTS-SF	+ 0.60
44	116	5/90	OD	12	0.80	HTS-SF	+ 3.80
52	116	5/90	OD	17	0.77	HTS-SF	+ 2.10
45	117	5/90	OD	17	0.49	HTS-SF	+ 2.40
47	117	5/90	OD	25	1.86	HTS-SF	+ 0.90
55	117	5/90	OD	33	1.46	HTS-SF	+ 1.30
38	118	5/90	OD	7	0.73	HTS-SF	+ 1.10
44	118	5/90	OD	25	0.53	HTS-SF	+ 2.50
53	119	5/90	OD	4	0.71	HTS-SF	+ 0.70
78	120	5/90	OD	34	0.72	H2	+17.80
11	127	5/90	OD	12	1.08	DH	
68	128	5/90	OD	22	1.08	C4	+30.50
27	129	5/90	OD	21	0.80	HTS-SF	+ 0.90
117	129	5/90	OD	21	0.64	HTS-SF	+22.20

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 12

QUERY: All Eddy Current Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
26	130	5/90	OD	10 % TW	0.94	HTS-SF	+ 0.90
70	134	5/90	OD	18 % TW	0.58	H5	+15.30
13	135	5/90	OD	37 % TW	1.08	C5	+11.80
31	137	5/90	OD	24 % TW	0.69	H1	+ 2.10
5	139	5/90	OD	15 % TW	0.83	C4	+15.60
21	145	5/90	OD	16 % TW	0.90	HTS-SF	+23.50
14	146	5/90	OD	10 % TW	0.60	HTS-SF	+29.40
48	146	5/90	OD	25 % TW	0.60	H2	+25.60
22	148	5/90	OD	19 % TW	0.68	CTS-SF	+35.90
32	148	5/90	OD	15 % TW	1.10	C6	+15.20
6	150	5/90	OD	15 % TW	0.54	C2	+ 5.20
70	150	5/90	OD	31 % TW	0.64	C3	+22.50
8	152	5/90	OD	25 % TW	1.29	VH	
64	152	5/90	OD	25 % TW	0.60	DH	+26.90
77	153	5/90	OD	11 % TW	1.31	H4	+31.20
52	154	5/90	OD	10 % TW	0.78	C5	+26.50
12	156	5/90	OD	13 % TW	0.97	C2	+25.80
47	157	5/90	OD	27 % TW	0.71	H7	+ 9.80
53	159	5/90	OD	24 % TW	0.93	C3	+23.80

TOTAL TUBES FOUND = 204
 TOTAL INDICATIONS FOUND = 220
 TOTAL TUBES IN INPUT FILE = 8519
 TOTAL TUBES INSPECTED = 8453

STEAM GENERATOR 12

B. List with Plot of <20% Indications

Less Than 20% Eddy Current Indications - All Elevations

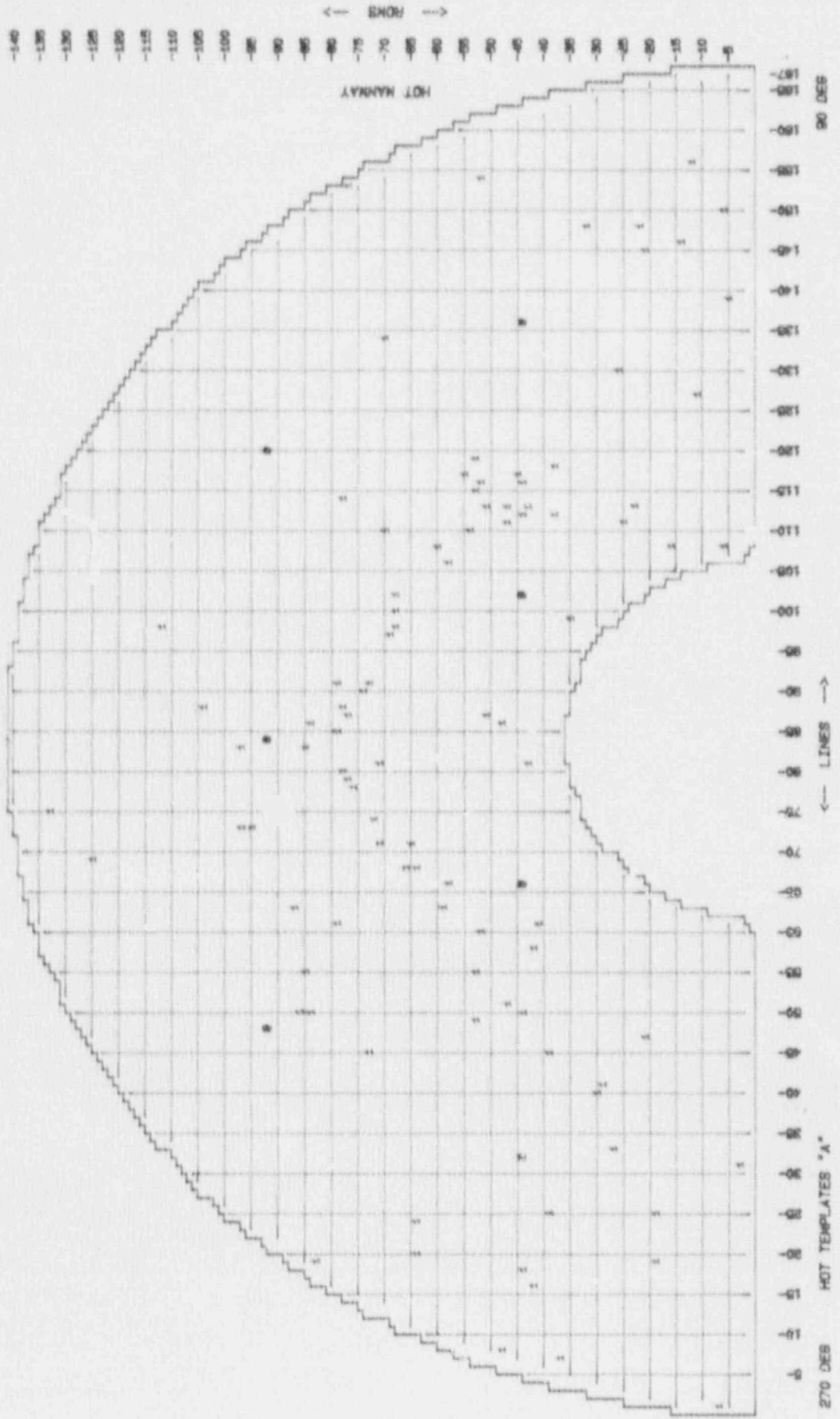
PLANT: CALVERT CLIFFS UNIT 1
 OUTAGE: 5/90

GENERATOR: 12

1 - <20 (098)

TOTAL TUBES : 8519
 STAYS : 7

TOTAL TUBES ASSIGNED : 96



Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 12

QUERY: Less Than 20% Eddy Current Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
7	1	5/90	OD	8	% TW	1.01 H4	
37	7	5/90	OD	12	% TW	0.64 H2	+15.80
48	8	5/90	OD	17	% TW	.09 H5	+ 4.50
42	16	5/90	OD	13	% TW	.28 H1	+17.40
44	18	5/90	OD	18	% TW	.57 H6	+22.20
19	19	5/90	OD	7	% TW	.96 HTS-SF	+19.20
83	19	5/90	OD	12	% TW	0.83 H7	+10.70
64	20	5/90	OD	8	% TW	0.72 H5	+34.50
64	24	5/90	OD	11	% TW	0.56 H6	+10.10
		5/90	OD	10	% TW	0.72 H6	+19.90
19	25	5/90	OD	10	% TW	0.94 CTS-SF	+12.10
39	25	5/90	OD	4	% TW	0.66 CTS-SFF	+13.60
3	31	5/90	OD	11	% TW	0.73 CTS-SFF	+26.50
27	33	5/90	OD	13	% TW	0.73 H5	+27.50
30	40	5/90	OD	17	% TW	1.72 HTS-SFF	+ 0.70
29	41	5/90	OD	16	% TW	0.78 HTS-SFF	+ 0.80
39	45	5/90	OD	19	% TW	8.97 HTS-SF	
73	45	5/90	OD	13	% TW	0.54 H3	+11.60
21	47	5/90	OD	19	% TW	0.59 C3	+14.60
53	49	5/90	OD	10	% TW	0.63 C6	+ 3.60
44	50	5/90	OD	16	% TW	0.84 HTS-SF	+ 1.20
84	50	5/90	OD	15	% TW	39.27 HTS-SF	
86	50	5/90	OD	15	% TW	40.85 HTS-SF	
47	51	5/90	OD	17	% TW	1.34 VM	+ 5.00
53	55	5/90	OD	17	% TW	0.80 H3	+32.60
85	55	5/90	OD	11	% TW	4.81 HTS-SF	
42	58	5/90	OD	12	% TW	0.72 C3	+ 1.40
52	60	5/90	OD	18	% TW	0.68 HTS-SF	+ 2.20
41	61	5/90	OD	16	% TW	0.43 H5	+35.50
79	61	5/90	OD	15	% TW	1.47 H8	+13.20
59	63	5/90	OD	15	% TW	0.88 HTS-SF	+ 1.20
87	63	5/90	OD	12	% TW	0.71 H7	+13.30
58	66	5/90	OD	13	% TW	0.60 HTS-SFF	+ 2.20
64	68	5/90	OD	19	% TW	0.79 HTS-SFF	+ 1.30
66	68	5/90	OD	15	% TW	1.30 HTS-SFF	+ 2.40
125	69	5/90	OD	16	% TW	3.14 VC	+ 7.40
65	71	5/90	OD	13	% TW	0.78 HTS-SFF	+ 2.30
71	71	5/90	OD	16	% TW	0.82 HTS-SFF	+ 1.10
95	73	5/90	OD	12	% TW	2.23 VM	+ 1.00
97	73	5/90	OD	19	% TW	0.86 VM	+10.00
72	74	5/90	OD	13	% TW	0.90 HTS-SF	+ 1.30
133	75	5/90	OD	13	% TW	0.89 VM	+17.50
76	78	5/90	OD	19	% TW	1.19 HTS-SFF	+ 1.50
77	79	5/90	OD	15	% TW	0.98 HTS-SFF	+ 1.70
78	80	5/90	OD	16	% TW	1.09 C5	+26.00
43	81	5/90	OD	11	% TW	0.69 HTS-SFF	+27.10
71	81	5/90	OD	10	% TW	2.29 HTS-SFF	+ 0.90
85	83	5/90	OD	7	% TW	0.98 HTS-SFF	+ 0.80
97	83	5/90	OD	17	% TW	0.99 H5	+21.20
79	85	5/90	OD	8	% TW	1.12 HTS-SF	+ 3.50
48	86	5/90	OD	12	% TW	1.02 C3	+26.50
84	86	5/90	OD	17	% TW	0.70 HTS-SF	+ 1.10
51	87	5/90	OD	11	% TW	0.50 C1	+18.60
77	87	5/90	OD	18	% TW	2.00 HTS-SFF	+ 2.70
78	88	5/90	OD	19	% TW	1.36 HTS-SFF	+ 2.90
104	88	5/90	OD	19	% TW	0.67 VM	
74	90	5/90	OD	18	% TW	1.03 HTS-SFF	+ 1.60
		5/90	OD	13	% TW	0.40 HTS-SFF	+ 1.80
73	91	5/90	OD	12	% TW	1.12 HTS-SFF	+ 2.00
79	91	5/90	OD	16	% TW	0.80 HTS-SFF	+ 0.80
69	97	5/90	OD	16	% TW	1.29 HTS-SFF	+ 0.60
68	98	5/90	OD	8	% TW	3.37 HTS-SFF	+ 0.60
112	98	5/90	OD	18	% TW	1.83 H6	+13.50
35	99	5/90	OD	10	% TW	0.75 C4	+ 9.50
68	100	5/90	OD	15	% TW	1.29 HTS-SFF	+ 1.60
68	102	5/90	OD	11	% TW	1.14 HTS-SFF	+ 0.80
58	106	5/90	OD	15	% TW	0.75 HTS-SFF	+ 1.80

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 12

QUERY: Less Than 20% Eddy Current Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
6	108	5/90	OD	18 % TW	0.77	HTS-SF	+ 0.90
16	108	5/90	OD	12 % TW	0.51	HTS-SF	+ 1.10
60	108	5/90	OD	15 % TW	1.78	HTS-SF	+ 2.50
54	110	5/90	OD	13 % TW	0.71	HTS-SF	+ 2.20
70	110	5/90	OD	10 % TW	0.65	H2	+10.50
25	111	5/90	OD	8 % TW	0.98	HTS-SF	+ 0.90
47	111	5/90	OD	16 % TW	0.43	HTS-SF	+ 0.70
38	112	5/90	OD	7 % TW	1.02	HTS-SF	+ 0.90
44	112	5/90	OD	11 % TW	0.45	HTS-SF	+ 1.70
23	113	5/90	OD	11 % TW	0.78	HTS-SF	+ 1.10
43	113	5/90	OD	8 % TW	0.89	HTS-SF	+ 2.00
47	113	5/90	OD	12 % TW	1.27	HTS-SF	+ 0.50
51	113	5/90	OD	12 % TW	0.74	HTS-SF	+ 2.80
78	114	5/90	OD	10 % TW	1.02	VH	+23.50
53	115	5/90	OD	19 % TW	0.60	HTS-SF	+ 1.90
44	116	5/90	OD	12 % TW	0.80	HTS-SF	+ 3.80
52	116	5/90	OD	17 % TW	0.77	HTS-SF	+ 2.10
45	117	5/90	OD	17 % TW	0.49	HTS-SF	+ 2.40
55	117	5/90	OD	2 % TW	1.46	HTS-SF	+ 1.30
38	118	5/90	OD	7 % TW	0.73	HTS-SF	+ 1.10
53	118	5/90	OD	4 % TW	0.71	HTS-SF	+ 0.70
11	127	5/90	OD	12 % TW	1.03	DH	
26	130	5/90	OD	10 % TW	0.94	HTS-SF	+ 0.90
70	134	5/90	OD	18 % TW	0.58	H5	+15.30
5	139	5/90	OD	15 % TW	0.83	C4	+15.60
21	145	5/90	OD	16 % TW	0.90	HTS-SF	+23.50
14	146	5/90	OD	10 % TW	0.60	HTS-SF	+29.40
22	148	5/90	OD	19 % TW	0.68	CTS-SF	+35.90
32	148	5/90	OD	15 % TW	1.10	C6	+15.20
6	150	5/90	OD	15 % TW	0.54	C2	+ 5.20
77	153	5/90	OD	11 % TW	1.31	H4	+31.20
52	154	5/90	OD	10 % TW	0.78	C5	+26.50
12	156	5/90	OD	13 % TW	0.97	C2	+25.80

TOTAL TUBES FOUND = 98
 TOTAL INDICATIONS FOUND = 100
 TOTAL TUBES IN INPUT FILE = 8519
 TOTAL TUBES INSPECTED = 8453

STEAM GENERATOR 12

C. List with Plot of 20% - 39% Indications

20-30% Eddy Current Indications - All Elevations

PLANT: CALVERT CLIFFS UNIT 1

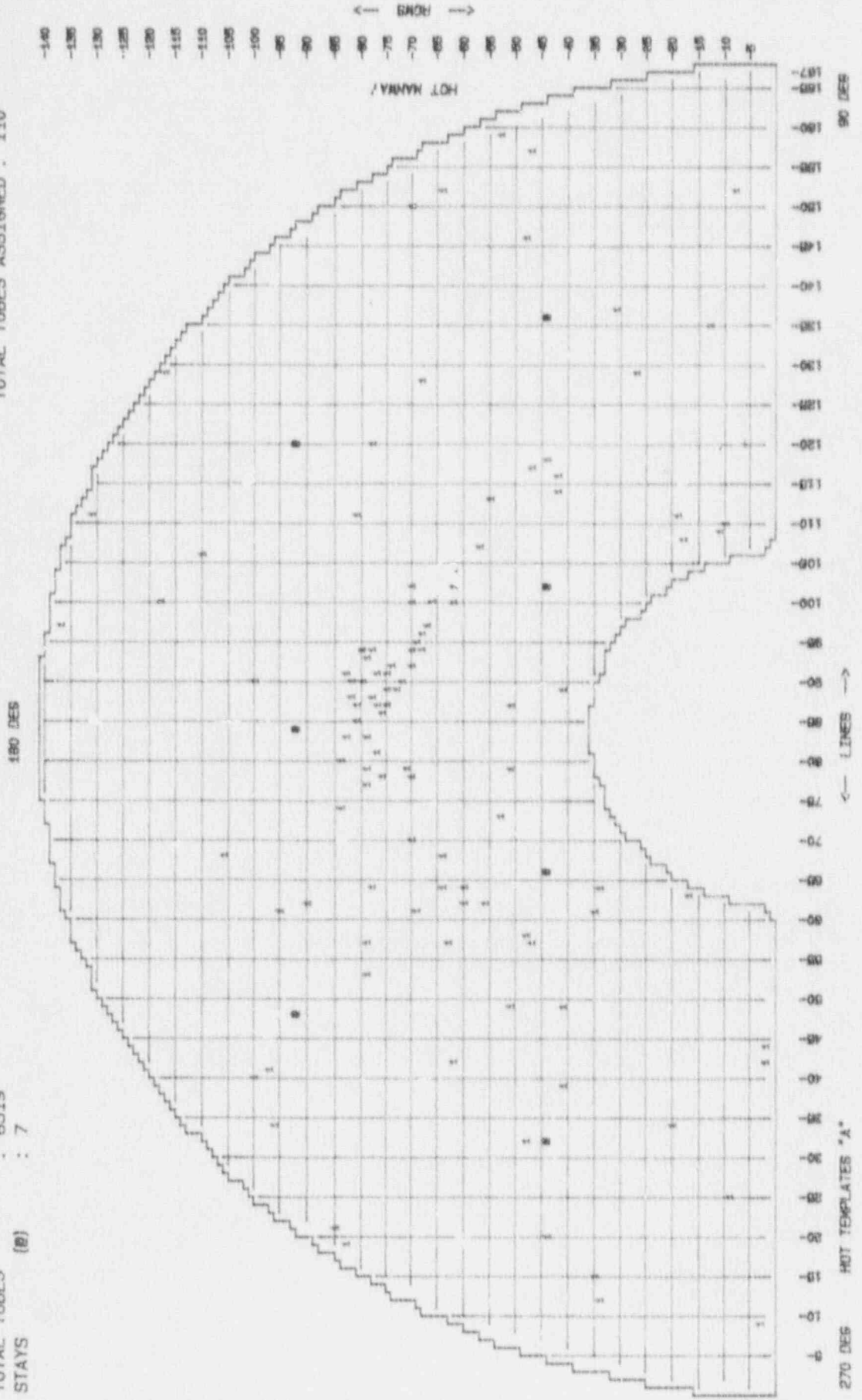
GENERATOR 12

OUTAGE: 5/90

1 = 20-30 (110)

TOTAL TUBES : 8519
STAYS (Ø) : 7

TOTAL TUBES ASSIGNED : 110



Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 12

QUERY: 20-30% Eddy Current Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
3	9	5/90	OD	338	1.17	C5	+ 4.10
34	12	5/90	OD	331	0.80	HTS-SF	+ 30.40
35	15	5/90	OD	338	0.48	HTS-SF	+ 2.90
83	19	5/90	OD	333	1.15	H6	+ 21.90
44	27	5/90	OD	334	0.58	H2	+ 20.30
		5/90	OD	334	0.67	H5	+ 12.70
85	31	5/90	OD	335	0.78	H5	+ 10.90
9	32	5/90	OD	338	0.83	VM	
48	32	5/90	OD	336	0.71	DH	+ 6.00
20	34	5/90	OD	336	0.88	HTS-SF	+ 33.70
96	34	5/90	OD	336	0.99	C7	+ 1.40
41	39	5/90	OD	334	0.71	H6	+ 1.90
100	40	5/90	OD	338	1.08	C5	+ 1.40
97	41	5/90	OD	339	0.67	C5	+ 2.50
2	42	5/90	OD	334	0.51	HTS-SF	+ 1.10
62	44	5/90	OD	335	1.31	CTSS-SF	+ 0.60
2	44	5/90	OD	335	1.03	CTSS-SF	+ 0.50
41	49	5/90	OD	336	0.38	HTS-SF	+ 0.80
51	49	5/90	OD	336	0.53	H4	+ 24.70
79	53	5/90	OD	336	0.54	C4	+ 25.50
47	57	5/90	OD	334	0.53	HTS-SF	+ 1.90
63	57	5/90	OD	334	0.68	C3	+ 37.50
		5/90	OD	334	0.81	C4	+ 5.80
79	57	5/90	OD	338	0.85	C5	+ 22.40
48	58	5/90	OD	338	0.66	HTS-SF	+ 22.20
35	61	5/90	OD	335	0.64	H2	+ 13.80
69	61	5/90	OD	339	0.58	DH	+ 25.50
95	61	5/90	OD	337	0.96	H7	+ 9.90
56	62	5/90	OD	337	2.23	HTS-SF	+ 0.60
60	62	5/90	OD	336	0.69	HTS-SF	+ 1.30
90	62	5/90	OD	332	0.81	C4	+ 24.30
17	63	5/90	OD	339	0.43	C2	+ 24.70
34	64	5/90	OD	335	0.58	H4	+ 22.60
60	64	5/90	OD	337	0.77	HTS-SF	+ 1.00
64	64	5/90	OD	334	0.75	HTS-SF	+ 1.70
78	64	5/90	OD	334	0.94	C7	+ 0.60
64	68	5/90	OD	338	0.47	HTS-SF	+ 0.70
106	68	5/90	OD	338	0.69	H5	+ 22.10
70	70	5/90	OD	333	0.53	HTS-SF	+ 1.10
53	73	5/90	OD	333	0.63	VM	+ 11.00
84	74	5/90	OD	332	0.52	VM	+ 20.40
79	77	5/90	OD	332	0.53	H1	+ 6.60
70	78	5/90	OD	333	0.83	HTS-SF	+ 0.70
76	78	5/90	OD	332	1.35	HTS-SF	+ 0.80
51	79	5/90	OD	338	0.53	C4	+ 6.70
71	79	5/90	OD	333	0.77	HTS-SF	+ 1.10
79	79	5/90	OD	338	0.71	C2	+ 16.30
84	80	5/90	OD	339	0.64	H3	+ 34.90
77	81	5/90	OD	337	1.72	HTS-SF	+ 1.60
79	83	5/90	OD	332	0.90	HTS-SF	+ 2.50
83	83	5/90	OD	335	1.75	HTS-SF	+ 0.80
81	85	5/90	OD	336	1.49	HTS-SF	+ 0.50
76	86	5/90	OD	333	1.09	HTS-SF	+ 5.10
51	87	5/90	OD	332	0.62	C1	+ 27.90
75	87	5/90	OD	337	1.15	HTS-SF	+ 1.50
77	87	5/90	OD	332	0.83	HTS-SF	+ 1.50
81	87	5/90	OD	334	0.53	HTS-SF	+ 1.70
78	88	5/90	OD	333	0.52	HTS-SF	+ 1.50
82	88	5/90	OD	336	0.84	HTS-SF	+ 1.30
41	89	5/90	OD	338	0.67	H1	+ 20.10
73	89	5/90	OD	332	1.32	HTS-SF	+ 0.80
75	89	5/90	OD	332	0.93	HTS-SF	+ 1.50
72	90	5/90	OD	333	0.57	HTS-SF	+ 1.10
80	90	5/90	OD	337	0.57	HTS-SF	+ 0.70
82	90	5/90	OD	336	1.76	HTS-SF	+ 0.70
100	90	5/90	OD	332	1.27	H3	+ 29.40
75	91	5/90	OD	336	1.72	HTS-SF	+ 1.50

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 12

QUERY: 20-30% Eddy Current Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
77	91	5/90	OD	24	0.56	HTS-SF	+ 2.70
83	91	5/90	OD	31	0.62	H6	+21.30
		5/90	OD	37	0.70	H7	+13.20
70	92	5/90	OD	34	0.81	HTS-SF	+ 1.20
74	92	5/90	OD	21	1.00	HTS-SF	+ 1.70
		5/90	OD	28	1.13	HTS-SF	+ 0.50
79	93	5/90	OD	23	0.49	HTS-SF	+ 0.60
68	94	5/90	OD	26	1.78	HTS-SF	+ 0.70
70	94	5/90	OD	38	0.35	HTS-SF	+ 2.10
78	94	5/90	OD	36	1.36	HTS-SF	+ 0.80
80	94	5/90	OD	22	0.81	HTS-SF	+ 1.10
		5/90	OD	24	0.57	HTS-SF	+ 1.80
		5/90	OD	26	0.49	HTS-SF	+ 1.40
69	95	5/90	OD	35	1.13	H5	+33.20
68	96	5/90	OD	32	0.57	HTS-SF	+ 2.10
67	97	5/90	OD	28	0.80	HTS-SF	+ 0.90
137	97	5/90	OD	28	1.14	C10	+10.40
62	100	5/90	OD	27	0.92	HTS-SF	+ 1.00
66	100	5/90	OD	21	0.84	C3	+23.30
		5/90	OD	26	0.88	HTS-SF	+ 1.40
70	100	5/90	OD	33	0.79	HTS-SF	+ 1.30
		5/90	OD	28	1.02	HTS-SF	+ 0.50
118	100	5/90	OD	28	0.52	VM	+ 8.20
62	102	5/90	OD	25	1.19	HTS-SF	+ 0.60
70	102	5/90	OD	22	0.78	HTS-SF	+ 1.40
62	104	5/90	OD	29	1.53	HTS-SF	+ 1.40
110	106	5/90	OD	31	0.68	H7	+17.10
57	107	5/90	OD	26	2.55	HTS-SF	+ 0.70
18	108	5/90	OD	36	0.25	HTS-SF	+ 1.10
11	109	5/90	OD	33	1.03	HTS-SF	+ 1.50
10	110	5/90	OD	22	0.86	HTS-SF	+ 0.70
19	111	5/90	OD	21	0.76	HTS-SF	+ 1.40
81	111	5/90	OD	26	1.29	HTS-SF	+37.90
131	111	5/90	OD	35	0.54	C8	+14.70
55	113	5/90	OD	29	0.84	HTS-SF	+ 0.80
42	114	5/90	OD	38	0.75	H1	+ 8.80
42	116	5/90	OD	25	1.01	HTS-SF	+ 0.60
47	117	5/90	OD	25	1.86	HTS-SF	+ 0.90
44	118	5/90	OD	25	0.53	HTS-SF	+ 2.50
78	120	5/90	OD	34	0.72	H2	+17.80
68	128	5/90	OD	22	1.08	C4	+30.50
27	129	5/90	OD	21	0.80	HTS-SF	+ 0.90
117	129	5/90	OD	26	0.64	HTS-SF	+22.20
13	135	5/90	OD	37	1.08	C5	+11.80
31	137	5/90	OD	24	0.69	H1	+ 2.10
48	146	5/90	OD	25	0.60	H2	+25.60
70	150	5/90	OD	21	0.64	C3	+22.50
8	152	5/90	OD	25	1.29	VM	
64	152	5/90	OD	25	0.60	DH	+26.90
47	157	5/90	OD	27	0.71	H7	+ 9.80
53	159	5/90	OD	24	0.93	C3	+23.80

TOTAL TUBES FOUND = 110
 TOTAL INDICATIONS FOUND = 118
 TOTAL TUBES IN INPUT FILE = 8519
 TOTAL TUBES INSPECTED = 8453

STEAM GENERATOR 12

D. List with Plot of >39% Indications

Eddy Current Indications 40% And Greater Thru Wall - All Elevations

PLANT: CALVERT CLIFFS UNIT 1

GENERATOR 12

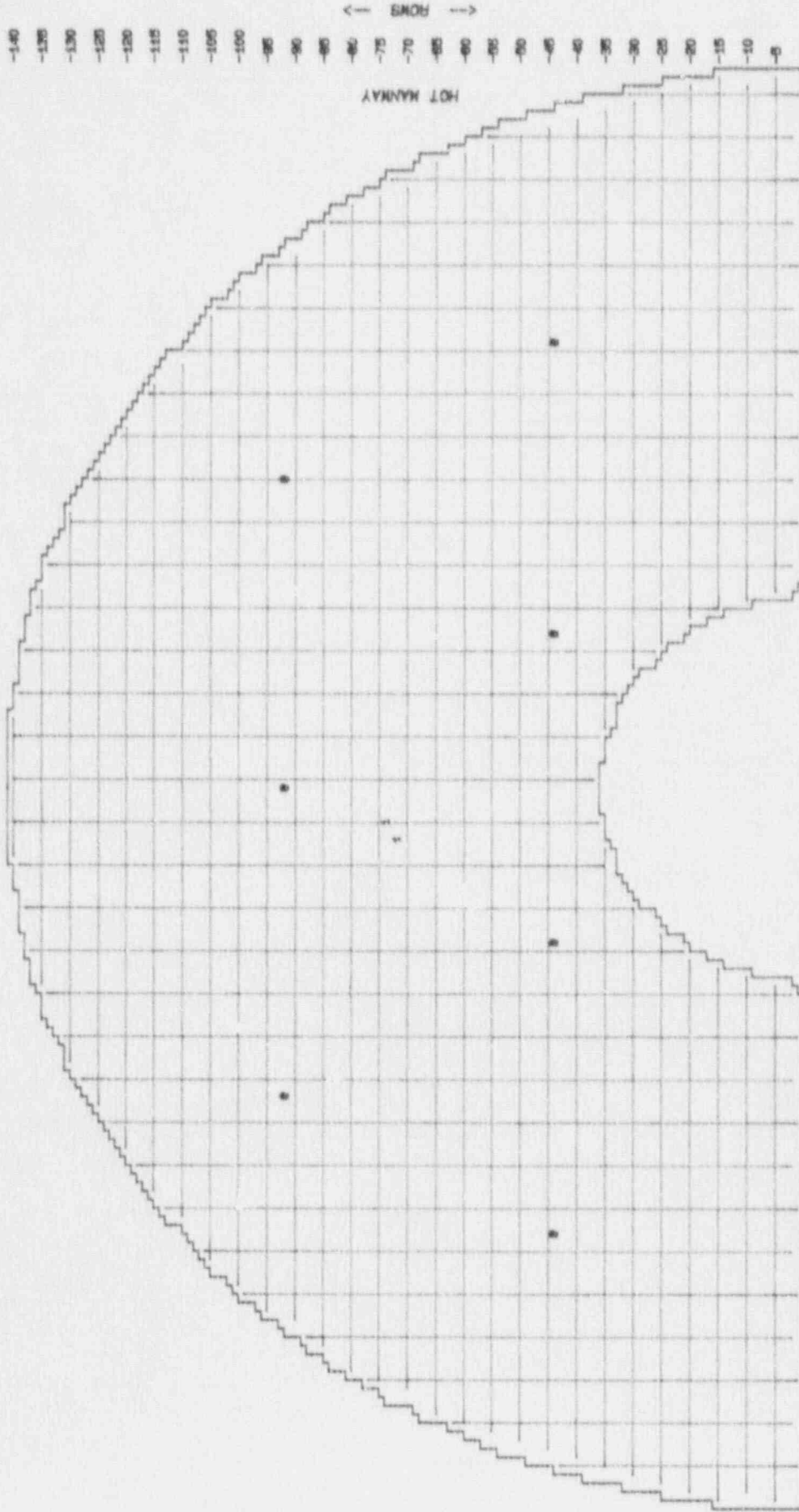
OUTAGE: 5/90

1 = >39 (2)

TOTAL TUBES : 8519
STAYS : 7

TOTAL TUBES ASSIGNED : 2

130 DEG



270 DEG HOT TEMPLATES "A"

Plant: CALVERT CLIFFS UNIT 1
Outage: 5/90

Steam Generator: 12

QUERY: Eddy Current Indications 40% And Greater Thru Wall - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
72	78	5/90	OD	45 % TW	0.61	HTS-SF	+ 0.90
74	80	5/90	OD	48 % TW	0.54	HTS-SF	+ 1.00
			TOTAL TUBES FOUND	=	2		
			TOTAL INDICATIONS FOUND	=	2		
			TOTAL TUBES IN INPUT FILE	=	8519		
			TOTAL TUBES INSPECTED	=	8453		

STEAM GENERATOR 12

E. List with Plot of Tubes Dented

All Dent Indications - All Levels

PLANT: CALVERT CLIFFS UNIT 1

GENERATOR: 12

OUTAGE: 5/90

1 = >49.99 (556)
 4 = 20.00-29.99 (80)
 7 = 5.00-9.99 (154)

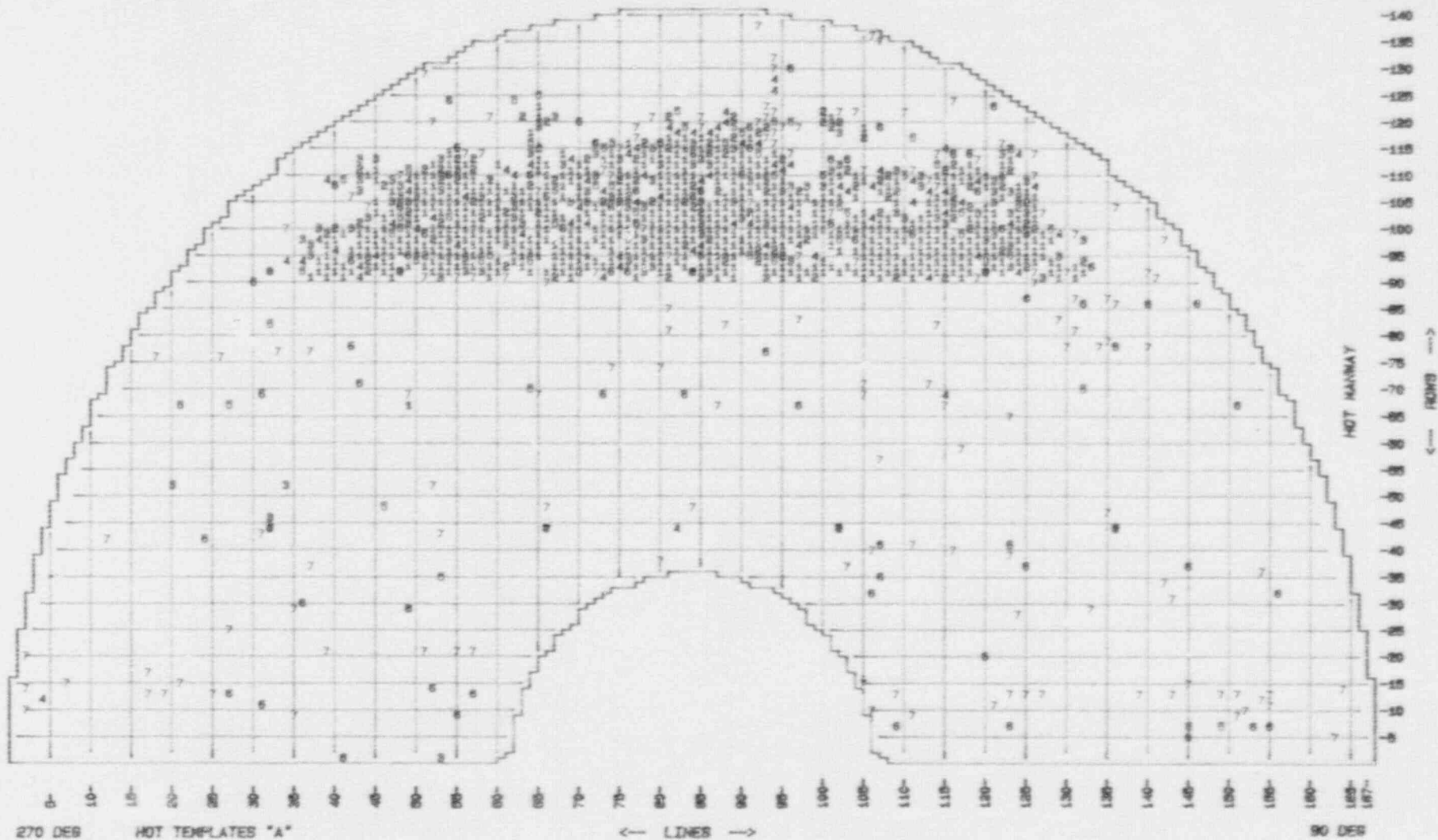
2 = 40.00-49.99 (101)
 5 = 15.00-19.99 (53)
 8 = <5.00 (3)

3 = 30.00-39.99 (104)
 6 = 10.00-14.99 (74)

TOTAL TUBES : 8519
 STAYS (8) : 7

TOTAL TUBES ASSIGNED : 1127

180 DEG



Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 12

QUERY: All Dent Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
10	2	5/90	DENT		9.41	H5	+11.20
14	2	5/90	DENT		5.00	H4	+ 5.60
20	2	5/90	DENT		5.34	H5	+17.10
		5/90	DENT		5.34	CTS-SF	+18.50
12	4	5/90	DENT		20.25	H6	+ 8.70
15	7	5/90	DENT		6.23	DC	
42	12	5/90	DENT		5.32	H6	+20.40
13	17	5/90	DENT		9.50	C6	+ 7.50
17	17	5/90	DENT		5.43	H1	+12.70
76	18	5/90	DENT		8.67	VM	- 1.80
		5/90	DENT		6.66	VH	+16.90
13	19	5/90	DENT		9.36	C6	+ 7.50
52	20	5/90	DENT		34.43	HTS-SF	+ 5.20
15	21	5/90	DENT		6.99	DH	
67	21	5/90	DENT		10.11	H7	+24.30
		5/90	DENT		8.02	H8	
42	24	5/90	DENT		10.27	C6	+23.80
		5/90	DENT		11.64	C6	+25.30
		5/90	DENT		6.00	C7	
13	25	5/90	DENT		8.98	C6	+ 7.70
76	26	5/90	DENT		5.65	VH	+16.10
13	27	5/90	DENT		10.63	C6	+ 7.80
25	27	5/90	DENT		8.55	C6	+ 0.90
67	27	5/90	DENT		8.33	H7	+19.20
		5/90	DENT		13.94	H7	+22.40
		5/90	DENT		10.36	VM	
		5/90	DENT		6.62	VM	+ 7.20
		5/90	DENT		10.08	C7	+12.10
		5/90	DENT		14.21	C7	+13.60
		5/90	DENT		17.01	C7	+14.80
82	28	5/90	DENT		5.74	H4	+31.20
90	30	5/90	DENT		12.60	C1	+29.60
11	31	5/90	DENT		10.19	DC	
43	31	5/90	DENT		6.13	VM	
		5/90	DENT		8.94	CTS-SF	+24.90
69	31	5/90	DENT		11.77	H7	+20.50
46	32	5/90	DENT		6.35	H6	+19.40
		5/90	DENT		7.27	H6	+20.20
		5/90	DENT		30.00	H6	+21.60
		5/90	DENT		6.17	H7	+ 0.90
		5/90	DENT		11.76	C7	
82	32	5/90	DENT		15.74	H7	+22.80
		5/90	DENT		13.51	H7	+15.80
		5/90	DENT		10.00	H7	+14.00
		5/90	DENT		6.46	C7	+16.80
92	32	5/90	DENT		4.46	C9	
77	33	5/90	DENT		5.37	C3	+36.30
52	34	5/90	DENT		39.92	CTS-SF	+28.50
94	34	5/90	DENT		29.48	H9	
100	34	5/90	DENT		7.15	H4	+35.40
9	35	5/90	DENT		5.48	VM	
29	35	5/90	DENT		5.65	VM	
30	36	5/90	DENT		12.08	H3	
92	36	5/90	DENT		16.41	H9	
94	36	5/90	DENT		22.11	H9	
98	36	5/90	DENT		32.36	H9	
37	37	5/90	DENT		5.04	C6	+14.50
		5/90	DENT		7.83	C6	+ 5.10
		5/90	DENT		9.33	C6	+ 3.60
77	37	5/90	DENT		8.87	C7	+23.30
91	37	5/90	DENT		71.95	H9	
95	37	5/90	DENT		30.34	H9	
97	37	5/90	DENT		33.00	H9	
92	38	5/90	DENT		88.85	H9	
94	38	5/90	DENT		74.17	H9	
9	38	5/90	DENT		24.74	H9	
100	38	5/90	DENT		31.57	H9	

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 12

QUERY: All Dent Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
21	39	5/90	DENT		7.82	VM	+ 6.40
91	39	5/90	DENT		57.83	H9	
93	39	5/90	DENT		152.30	H9	
95	39	5/90	DENT		183.20	H9	
97	39	5/90	DENT		60.05	H9	
99	39	5/90	DENT		40.55	H9	
109	39	5/90	DENT		25.12	H9	
92	40	5/90	DENT		116.20	H9	
94	40	5/90	DENT		82.72	H9	
96	40	5/90	DENT		22.22	H9	
98	40	5/90	DENT		73.58	H9	
100	40	5/90	DENT		42.25	H9	
108	40	5/90	DENT		13.86	H9	
1	41	5/90	DENT		12.62	HTS-SF	+17.00
91	41	5/90	DENT		111.10	H9	
93	41	5/90	DENT		72.47	H9	
99	41	5/90	DENT		76.93	H9	
109	41	5/90	DENT		16.33	H9	
78	42	5/90	DENT		9.48	H7	+21.90
		5/90	DENT		5.82	C7	+11.40
		5/90	DENT		5.62	C7	+17.20
		5/90	DENT		13.57	C8	+ 2.10
92	42	5/90	DENT		52.58	H9	
94	42	5/90	DENT		12.56	H9	
96	42	5/90	DENT		81.25	H9	
100	42	5/90	DENT		34.36	H9	
106	42	5/90	DENT		6.31	C3	
71	43	5/90	DENT		12.17	VM	
91	43	5/90	DENT		22.15	H9	
		5/90	DENT		9.71	C8	+15.90
93	43	5/90	DENT		28.82	H9	
		5/90	DENT		10.47	C9	+ 2.00
95	43	5/90	DENT		114.20	H9	
97	43	5/90	DENT		102.10	H9	
99	43	5/90	DENT		122.70	H9	
101	43	5/90	DENT		47.21	H9	
107	43	5/90	DENT		31.46	H9	
109	43	5/90	DENT		35.18	H9	
111	43	5/90	DENT		46.30	H9	
113	43	5/90	DENT		33.31	H9	
92	44	5/90	DENT		44.04	H9	
94	44	5/90	DENT		46.10	H9	
96	44	5/90	DENT		65.23	H9	
98	44	5/90	DENT		189.90	H9	
100	44	5/90	DENT		74.87	H9	
102	44	5/90	DENT		35.45	H9	
104	44	5/90	DENT		8.88	H9	
110	44	5/90	DENT		71.50	H9	
93	45	5/90	DENT		98.94	H9	
95	45	5/90	DENT		21.57	H9	
97	45	5/90	DENT		70.08	H9	
99	45	5/90	DENT		86.57	H9	
103	45	5/90	DENT		85.59	H9	
105	45	5/90	DENT		52.15	H9	
109	45	5/90	DENT		70.65	H9	
111	45	5/90	DENT		65.31	H9	
113	45	5/90	DENT		33.07	H9	
48	46	5/90	DENT		16.14	H7	
92	46	5/90	DENT		54.03	H9	
94	46	5/90	DENT		113.80	H9	
		5/90	DENT		7.94	C7	+ 5.00
96	46	5/90	DENT		73.19	H9	
98	46	5/90	DENT		102.90	H9	
100	46	5/90	DENT		92.90	H9	
102	46	5/90	DENT		75.58	H9	
108	46	5/90	DENT		43.15	H9	
91	47	5/90	DENT		54.20	H9	

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 12

QUERY: All Dent Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
		5/90	DENT		6.73	C9	
93	47	5/90	DENT		104.70	H9	
95	47	5/90	DENT		107.20	H9	
97	47	5/90	DENT		69.62	H9	
99	47	5/90	DENT		15.92	H9	
101	47	5/90	DENT		26.72	H9	
103	47	5/90	DENT		72.56	H9	
105	47	5/90	DENT		38.85	H9	
107	47	5/90	DENT		85.43	H9	
109	47	5/90	DENT		35.06	H9	
96	48	5/90	DENT		87.42	H9	
98	48	5/90	DENT		90.61	H9	
100	48	5/90	DENT		8.80	C7	+21.50
		5/90	DENT		5.99	C9	
		5/90	DENT		17.02	H9	
102	48	5/90	DENT		16.17	H9	
104	48	5/90	DENT		10.36	H9	
106	48	5/90	DENT		35.99	H9	
108	48	5/90	DENT		39.99	H9	
110	48	5/90	DENT		7.49	H9	
29	49	5/90	DENT		3.58	VM	
67	49	5/90	DENT		7.50	H7	+10.30
		5/90	DENT		4.14	H7	+11.20
		5/90	DENT		8.29	H7	+25.00
		5/90	DENT		54.33	H8	+ 1.70
69	49	5/90	DENT		9.03	DH	+14.80
93	49	5/90	DENT		93.64	H9	
95	49	5/90	DENT		11.59	H9	
97	49	5/90	DENT		94.65	H9	
99	49	5/90	DENT		89.73	H9	
101	49	5/90	DENT		32.23	H9	
103	49	5/90	DENT		47.31	H9	
105	49	5/90	DENT		32.24	H9	
107	49	5/90	DENT		27.17	H9	
109	49	5/90	DENT		23.86	H9	
111	49	5/90	DENT		16.96	H9	
94	50	5/90	DENT		12.41	C7	+25.10
		5/90	DENT		12.41	C8	
		5/90	DENT		16.34	C8	+10.00
96	50	5/90	DENT		95.84	H9	
98	50	5/90	DENT		137.70	H9	
100	50	5/90	DENT		11.56	C9	
		5/90	DENT		24.68	H9	
102	50	5/90	DENT		81.18	H9	
104	50	5/90	DENT		68.65	H9	
106	50	5/90	DENT		35.98	H9	
108	50	5/90	DENT		57.43	H9	
110	50	5/90	DENT		94.94	H9	
21	51	5/90	DENT		6.93	VM	+ 5.40
91	51	5/90	DENT		7.32	H5	+15.10
93	51	5/90	DENT		78.90	H9	
95	51	5/90	DENT		40.17	H9	
97	51	5/90	DENT		77.54	H9	
99	51	5/90	DENT		13.01	H9	
103	51	5/90	DENT		79.98	H9	
105	51	5/90	DENT		75.18	H9	
107	51	5/90	DENT		10.79	H5	+ 8.90
		5/90	DENT		68.57	H9	
		5/90	DENT		9.88	C8	+ 6.60
109	51	5/90	DENT		125.30	H9	
111	51	5/90	DENT		46.48	H9	
129	51	5/90	DENT		5.79	H2	+19.60
14	52	5/90	DENT		11.19	C6	+ 8.50
52	52	5/90	DENT		5.74	H6	+13.80
		5/90	DENT		5.82	H6	+22.60
92	52	5/90	DENT		67.34	H9	
94	52	5/90	DENT		160.90	H9	

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 12

QUERY: All Dent Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
96	52	5/90	DENT		135.90	H9	
98	52	5/90	DENT		41.56	H9	
		5/90	DENT		10.29	H9	+ 1.20
		5/90	DENT		8.46	C9	+ 0.60
		5/90	DENT		12.56	C9	- 0.30
		5/90	DENT		20.17	C8	+20.60
		5/90	DENT		23.03	C8	+19.20
		5/90	DENT		16.29	C8	+17.70
		5/90	DENT		5.79	C8	+16.00
		5/90	DENT		97.01	H9	+ 1.20
100	52	5/90	DENT		29.53	H9	
102	52	5/90	DENT		120.50	H9	
104	52	5/90	DENT		125.10	H9	
106	52	5/90	DENT		77.66	H9	
108	52	5/90	DENT		104.00	H9	
110	52	5/90	DENT		53.52	H9	
112	52	5/90	DENT		7.33	H9	
120	53	5/90	DENT		30.66	VM	
1	53	5/90	DENT		16.99	C6	+13.50
35	53	5/90	DENT		5.22	VM	
43	53	5/90	DENT		37.58	H9	
91	53	5/90	DENT		140.70	H9	
93	53	5/90	DENT		169.10	H9	
95	53	5/90	DENT		94.03	H9	
97	53	5/90	DENT		66.99	H9	
99	53	5/90	DENT		43.50	H9	
101	53	5/90	DENT		51.25	H9	
103	53	5/90	DENT		138.20	H9	
105	53	5/90	DENT		38.77	H9	
107	53	5/90	DENT		43.95	H9	
109	53	5/90	DENT		48.27	H9	
111	53	5/90	DENT		38.07	H9	
113	53	5/90	DENT		61.19	H9	
92	54	5/90	DENT		6.51	C9	
		5/90	DENT		127.20	H9	
94	54	5/90	DENT		72.87	H9	
96	54	5/90	DENT		34.31	H9	
98	54	5/90	DENT		57.98	H9	
100	54	5/90	DENT		19.14	H9	
102	54	5/90	DENT		138.30	H9	
104	54	5/90	DENT		56.49	H9	
106	54	5/90	DENT		60.03	H9	
108	54	5/90	DENT		14.19	H9	
110	54	5/90	DENT		76.60	H9	
112	54	5/90	DENT		73.03	H9	
114	54	5/90	DENT		6.88	H9	
124	54	5/90	DENT		11.02	C7	+ 4.40
		5/90	DENT		11.25	VM	
9	55	5/90	DENT		8.00	VM	
21	55	5/90	DENT		9.34	H9	
91	55	5/90	DENT		68.69	H9	
93	55	5/90	DENT		132.30	H9	
95	55	5/90	DENT		24.22	H9	
97	55	5/90	DENT		70.04	H9	
99	55	5/90	DENT		51.22	H9	
101	55	5/90	DENT		52.11	H9	
103	55	5/90	DENT		127.00	H9	
105	55	5/90	DENT		100.50	H9	
107	55	5/90	DENT		40.60	H9	
109	55	5/90	DENT		37.69	H9	
111	55	5/90	DENT		47.60	H9	
113	55	5/90	DENT		11.74	H9	
115	55	5/90	DENT		38.01	H9	
92	56	5/90	DENT		46.66	H9	
94	56	5/90	DENT		89.69	H9	
96	56	5/90	DENT		97.54	H9	
98	56	5/90	DENT		99.57	H9	
100	56	5/90	DENT				

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 12

QUERY: All Dent Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
102	56	5/90	DENT		92.45	H9	
104	56	5/90	DENT		129.10	H9	
106	56	5/90	DENT		28.96	H9	
108	56	5/90	DENT		69.28	H9	
110	56	5/90	DENT		98.05	H9	
112	56	5/90	DENT		65.62	H9	
114	56	5/90	DENT		9.43	H9	
113	57	5/90	DENT		10.43	H6	+ 7.90
21	57	5/90	DENT		9.71	VM	+ 4.60
91	57	5/90	DENT		3.79	H9	
93	57	5/90	DENT		70.91	H9	
95	57	5/90	DENT		89.47	H9	
97	57	5/90	DENT		78.61	H9	
99	57	5/90	DENT		117.40	H9	
101	57	5/90	DENT		53.75	H9	
103	57	5/90	DENT		58.54	H9	
105	57	5/90	DENT		49.89	H9	
107	57	5/90	DENT		63.21	H9	
109	57	5/90	DENT		121.50	H9	
111	57	5/90	DENT		48.88	H9	
113	57	5/90	DENT		42.01	H9	
92	58	5/90	DENT		34.56	H9	
94	58	5/90	DENT		19.32	H9	
96	58	5/90	DENT		108.40	H9	
98	58	5/90	DENT		79.59	H9	
100	58	5/90	DENT		93.29	H9	
102	58	5/90	DENT		47.77	H9	
104	58	5/90	DENT		67.29	H9	
106	58	5/90	DENT		33.96	H9	
108	58	5/90	DENT		82.54	H9	
114	58	5/90	DENT		6.36	H9	
91	59	5/90	DENT		74.46	H9	
93	59	5/90	DENT		145.80	H9	
95	59	5/90	DENT		16.07	H9	
97	59	5/90	DENT		112.30	H9	+ 0.20
99	59	5/90	DENT		129.50	H9	
103	59	5/90	DENT		99.54	H9	
			DENT		12.40	C3	+16.20
105	59	5/90	DENT		58.02	H9	
107	59	5/90	DENT		92.22	H9	
109	59	5/90	DENT		45.52	H9	
121	59	5/90	DENT		6.95	H10	
92	60	5/90	DENT		97.32	H9	
94	60	5/90	DENT		107.70	H9	
98	60	5/90	DENT		118.70	H9	
100	60	5/90	DENT		126.80	H9	
102	60	5/90	DENT		102.90	H9	
104	60	5/90	DENT		58.22	H9	
106	60	5/90	DENT		52.29	H9	
108	60	5/90	DENT		80.96	H9	
112	60	5/90	DENT		55.38	H9	
91	61	5/90	DENT		6.70	H9	+ 2.10
93	61	5/90	DENT		42.63	H9	
97	61	5/90	DENT		34.03	H9	
99	61	5/90	DENT		107.10	H9	
101	61	5/90	DENT		71.92	H9	
103	61	5/90	DENT		42.82	H9	
107	61	5/90	DENT		65.00	H9	
111	61	5/90	DENT		21.60	H9	
94	62	5/90	DENT		52.51	H9	
96	62	5/90	DENT		97.28	H9	
98	62	5/90	DENT		129.70	H9	
100	62	5/90	DENT		92.29	H9	
102	62	5/90	DENT		33.01	H9	
104	62	5/90	DENT		39.83	H9	
106	62	5/90	DENT		38.53	H9	
108	62	5/90	DENT		50.51	H9	

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 12

QUERY: All Dent Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
110	62	5/90	DENT		27.53	H9	
124	62	5/90	DENT		17.45	H9	
93	63	5/90	DENT		51.10	H9	
95	63	5/90	DENT		136.20	H9	
97	63	5/90	DENT		102.00	H9	
99	63	5/90	DENT		22.23	H9	
101	63	5/90	DENT		31.29	H9	
103	63	5/90	DENT		96.82	H9	
105	63	5/90	DENT		87.85	H9	
107	63	5/90	DENT		57.37	H9	
121	63	5/90	DENT		47.69	H9	
70	64	5/90	DENT		7.17	H6	+24.00
		5/90	DENT		12.67	H7	+12.80
		5/90	DENT		17.20	H7	+16.30
92	64	5/90	DENT		65.59	H9	
94	64	5/90	DENT		17.77	H9	
96	64	5/90	DENT		204.60	H9	
98	64	5/90	DENT		118.00	H9	
104	64	5/90	DENT		104.60	H9	
106	64	5/90	DENT		70.88	H9	
108	64	5/90	DENT		47.74	H9	
110	64	5/90	DENT		10.72	H9	
112	64	5/90	DENT		28.88	H9	
114	64	5/90	DENT		37.57	H9	
116	64	5/90	DENT		16.40	C7	+10.00
118	64	5/90	DENT		54.94	H9	
69	65	5/90	DENT		6.26	VM	
95	65	5/90	DENT		73.74	H9	
97	65	5/90	DENT		83.27	H9	
99	65	5/90	DENT		117.30	H9	
101	65	5/90	DENT		93.94	H9	
103	65	5/90	DENT		41.31	H9	
105	65	5/90	DENT		114.10	H9	
107	65	5/90	DENT		5.45	H9	
111	65	5/90	DENT		50.70	H9	
113	65	5/90	DENT		60.64	H9	
115	65	5/90	DENT		42.45	H9	
119	65	5/90	DENT		31.47	H10	
121	65	5/90	DENT		86.49	H10	
123	65	5/90	DENT		66.97	H10	
125	65	5/90	DENT		16.23	VC	+ 2.70
48	66	5/90	DENT		5.97	HTS-SF	+24.00
90	66	5/90	DENT		6.26	VM	
72	66	5/90	DENT		53.99	H9	
98	66	5/90	DENT		121.20	HTS-SF	
		5/90	DENT		58.05	H9	
100	66	5/90	DENT		152.40	H9	
102	66	5/90	DENT		113.80	H9	
104	66	5/90	DENT		152.40	H9	
106	66	5/90	DENT		10.05	H9	
108	66	5/90	DENT		62.43	H9	
110	66	5/90	DENT		123.70	H9	
112	66	5/90	DENT		102.60	H9	
120	66	5/90	DENT		47.84	H9	
91	67	5/90	DENT		49.32	H9	
93	67	5/90	DENT		56.97	H9	
95	67	5/90	DENT		151.20	H9	
97	67	5/90	DENT		64.00	H9	
101	67	5/90	DENT		17.26	H9	
103	67	5/90	DENT		138.30	H9	
105	67	5/90	DENT		98.47	H9	
107	67	5/90	DENT		15.07	H9	
109	67	5/90	DENT		48.63	H9	
121	67	5/90	DENT		37.74	H9	
92	68	5/90	DENT		81.51	H9	
94	68	5/90	DENT		66.00	H9	
96	68	5/90	DENT		107.20	H9	

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 12

QUERY: All Dent Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
98	68	5/90	DENT		153.20	H9	
100	68	5/90	DENT		6.61	C8	
		5/90	DENT		14.59	H9	
102	68	5/90	DENT		65.31	H9	
106	68	5/90	DENT		116.50	H9	
108	68	5/90	DENT		119.80	H9	
110	68	5/90	DENT		79.17	H9	
112	68	5/90	DENT		32.66	H9	
114	68	5/90	DENT		59.06	H9	
91	69	5/90	DENT		56.86	H9	
93	69	5/90	DENT		76.46	H9	
95	69	5/90	DENT		128.60	H9	
97	69	5/90	DENT		196.30	H9	
99	69	5/90	DENT		111.00	H9	
101	69	5/90	DENT		21.49	C4	+ 8.80
105	69	5/90	DENT		34.19	H9	
109	69	5/90	DENT		105.20	H9	
111	69	5/90	DENT		79.35	H9	
113	69	5/90	DENT		24.10	H9	
92	70	5/90	DENT		42.05	H9	
94	70	5/90	DENT		71.20	H9	
96	70	5/90	DENT		259.30	H9	
98	70	5/90	DENT		130.80	H9	
100	70	5/90	DENT		59.68	H9	
102	70	5/90	DENT		53.65	H9	
104	70	5/90	DENT		27.50	H9	
106	70	5/90	DENT		54.27	H9	
108	70	5/90	DENT		82.16	H9	
110	70	5/90	DENT		135.90	H9	
112	70	5/90	DENT		70.52	H9	
120	70	5/90	DENT		10.03	H10	
93	71	5/90	DENT		80.11	H9	
95	71	5/90	DENT		109.20	H9	
97	71	5/90	DENT		151.50	H9	
101	71	5/90	DENT		22.92	H9	
103	71	5/90	DENT		104.10	H9	
105	71	5/90	DENT		31.33	H9	
107	71	5/90	DENT		38.71	H9	
109	71	5/90	DENT		24.75	H9	
111	71	5/90	DENT		98.59	H9	
113	71	5/90	DENT		47.37	H9	
92	72	5/90	DENT		7.38	H9	
94	72	5/90	DENT		84.65	H9	
98	72	5/90	DENT		40.89	HTS-SF	
		5/90	DENT		149.10	H9	
100	72	5/90	DENT		136.80	H9	
104	72	5/90	DENT		75.85	H9	
108	72	5/90	DENT		15.23	H9	
110	72	5/90	DENT		34.33	H9	
114	72	5/90	DENT		36.40	H9	
116	72	5/90	DENT		11.65	H9	
69	73	5/90	DENT		10.53	C8	
		5/90	DENT		8.79	C7	+16.90
		5/90	DENT		5.95	C7	+17.50
91	73	5/90	DENT		23.40	H9	
93	73	5/90	DENT		103.70	H9	
97	73	5/90	DENT		69.50	H9	
99	73	5/90	DENT		171.80	H9	
101	73	5/90	DENT		93.85	H9	
103	73	5/90	DENT		100.10	H9	
105	73	5/90	DENT		47.12	H9	
107	73	5/90	DENT		20.04	H9	
111	73	5/90	DENT		6.42	H9	
113	73	5/90	DENT		77.51	H9	
115	73	5/90	DENT		16.62	H9	
74	74	5/90	DENT		9.53	VM	+ 2.00
		5/90	DENT		6.57	VM	+10.60

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 12

QUERY: All Dent Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
92	74	5/90	DENT		10.70	H9	
94	74	5/90	DENT		69.63	H9	
96	74	5/90	DENT		134.50	H9	
98	74	5/90	DENT		98.51	H9	
100	74	5/90	DENT		124.40	H9	
102	74	5/90	DENT		96.32	H9	
104	74	5/90	DENT		12.83	H9	
106	74	5/90	DENT		32.38	H9	
108	74	5/90	DENT		18.86	H9	
110	74	5/90	DENT		8.54	H9	
112	74	5/90	DENT		76.95	H9	
114	74	5/90	DENT		82.08	H9	
116	74	5/90	DENT		36.08	H9	
93	75	5/90	DENT		38.40	H9	
95	75	5/90	DENT		33.16	H9	
99	75	5/90	DENT		115.80	H9	
101	75	5/90	DENT		82.61	H9	
103	75	5/90	DENT		99.61	H9	
105	75	5/90	DENT		46.75	H9	
107	75	5/90	DENT		78.04	H9	
109	75	5/90	DENT		48.15	H9	
111	75	5/90	DENT		51.11	H9	
113	75	5/90	DENT		39.54	H9	
115	75	5/90	DENT		8.69	H9	
92	76	5/90	DENT		11.36	H9	
94	76	5/90	DENT		37.17	H9	
96	76	5/90	DENT		90.34	H9	
98	76	5/90	DENT		16.82	H9	
100	76	5/90	DENT		116.20	H9	
102	76	5/90	DENT		62.43	H9	
104	76	5/90	DENT		34.89	H9	
106	76	5/90	DENT		44.35	H9	
108	76	5/90	DENT		57.91	H9	
110	76	5/90	DENT		96.58	H9	
114	76	5/90	DENT		22.82	HTS-SF	+31.30
116	76	5/90	DENT		50.83	H9	
91	77	5/90	DENT		54.16	H9	
		5/90	DENT		15.97	C9	
93	77	5/90	DENT		51.81	H9	
		5/90	DENT		17.07	C9	
95	77	5/90	DENT		112.10	H9	
97	77	5/90	DENT		98.75	H9	
99	77	5/90	DENT		66.66	H9	
101	77	5/90	DENT		11.12	H9	
103	77	5/90	DENT		15.20	H9	
105	77	5/90	DENT		25.33	H9	
107	77	5/90	DENT		10.85	H9	
109	77	5/90	DENT		47.80	H9	
111	77	5/90	DENT		95.15	H9	
113	77	5/90	DENT		46.22	H9	
115	77	5/90	DENT		27.16	H9	
117	77	5/90	DENT		6.59	H10	
		5/90	DENT		5.45	C10	
119	77	5/90	DENT		7.09	H10	
92	78	5/90	DENT		32.28	H9	
94	78	5/90	DENT		75.25	H9	
96	78	5/90	DENT		93.97	H9	
98	78	5/90	DENT		32.07	H9	
100	78	5/90	DENT		8.17	H9	
102	78	5/90	DENT		74.83	H9	
104	78	5/90	DENT		39.29	H9	
110	78	5/90	DENT		27.12	H9	
112	78	5/90	DENT		53.18	H9	
114	78	5/90	DENT		69.36	H9	
116	78	5/90	DENT		47.49	H9	
93	79	5/90	DENT		39.86	H9	
95	79	5/90	DENT		63.15	H9	

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 12

QUERY: All Dent Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
97	79	5/90	DENT		105.20	H9	
99	79	5/90	DENT		71.37	H9	
101	79	5/90	DENT		52.09	H9	
103	79	5/90	DENT		77.20	H9	
105	79	5/90	DENT		45.81	H9	
109	79	5/90	DENT		37.77	H9	
113	79	5/90	DENT		111.50	H9	
115	79	5/90	DENT		34.60	H9	
121	79	5/90	DENT		8.87	H9	
38	80	5/90	DENT		7.91	C5	+14.00
74	80	5/90	DENT		9.48	C7	+11.30
		5/90	DENT		9.51	C7	+13.30
		5/90	DENT		7.49	C8	+ 1.00
92	80	5/90	DENT		114.70	H9	
94	80	5/90	DENT		247.30	H9	
96	80	5/90	DENT		176.10	H9	
		5/90	DENT		175.80	H9	
98	80	5/90	DENT		183.90	H9	
100	80	5/90	DENT		152.30	H9	
102	80	5/90	DENT		124.50	H9	
104	80	5/90	DENT		209.50	H9	
106	80	5/90	DENT		24.34	H9	
108	80	5/90	DENT		94.92	H9	
110	80	5/90	DENT		91.99	H9	
112	80	5/90	DENT		5.93	H9	
114	80	5/90	DENT		80.41	H9	
116	80	5/90	DENT		10.48	H9	
81	81	5/90	DENT		9.15	C2	+29.20
85	81	5/90	DENT		7.05	H4	+37.10
91	81	5/90	DENT		48.51	H9	
93	81	5/90	DENT		53.12	H9	
95	81	5/90	DENT		9.35	H9	
97	81	5/90	DENT		89.95	H9	
99	81	5/90	DENT		93.05	H9	
101	81	5/90	DENT		87.10	H9	
103	81	5/90	DENT		90.73	H9	
105	81	5/90	DENT		98.62	H9	
107	81	5/90	DENT		104.80	H9	
109	81	5/90	DENT		161.60	H9	
111	81	5/90	DENT		125.00	H9	
113	81	5/90	DENT		86.84	H9	
115	81	5/90	DENT		41.84	H9	
117	81	5/90	DENT		84.01	H9	
		5/90	DENT		20.15	H10	
119	81	5/90	DENT		22.40	H10	
121	81	5/90	DENT		40.27	H10	
44	82	5/90	DENT		22.48	H6	+12.40
94	82	5/90	DENT		82.14	H9	
96	82	5/90	DENT		65.73	H9	
98	82	5/90	DENT		110.00	H9	
100	82	5/90	DENT		142.20	H9	
102	82	5/90	DENT		102.10	H9	
104	82	5/90	DENT		134.00	H9	
106	82	5/90	DENT		83.84	H9	
108	82	5/90	DENT		100.50	H9	
110	82	5/90	DENT		106.00	H9	
112	82	5/90	DENT		96.86	H9	
114	82	5/90	DENT		134.90	H9	
116	82	5/90	DENT		84.39	H9	
118	82	5/90	DENT		28.73	H9	
		5/90	DENT		12.07	H10	
122	82	5/90	DENT		17.97	H10	
69	83	5/90	DENT		4.99	DH	+11.90
93	83	5/90	DENT		109.80	H9	
95	83	5/90	DENT		92.71	H9	
97	83	5/90	DENT		45.54	H9	
99	83	5/90	DENT		133.60	H9	

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 12

QUERY: All Dent Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
101	83	5/90	DENT		92.98	H9	
103	83	5/90	DENT		63.55	H9	
105	83	5/90	DENT		49.14	H9	
107	83	5/90	DENT		93.36	H9	
109	83	5/90	DENT		51.34	H9	
111	83	5/90	DENT		58.44	H9	
113	83	5/90	DENT		93.60	H9	
115	83	5/90	DENT		79.22	H9	
117	83	5/90	DENT		58.44	H9	
119	83	5/90	DENT		15.87	H9	
48	84	5/90	DENT		5.30	VM	
		5/90	DENT		5.30	VM	
96	84	5/90	DENT		21.20	H9	
		5/90	DENT		6.26	C9	
98	84	5/90	DENT		6.87	HTS-SF	
		5/90	DENT		59.01	H9	
100	84	5/90	DENT		120.20	H9	
102	84	5/90	DENT		146.00	H9	
104	84	5/90	DENT		48.92	H9	
106	84	5/90	DENT		13.53	H9	
108	84	5/90	DENT		44.89	H9	
110	84	5/90	DENT		68.45	H9	
112	84	5/90	DENT		30.92	H9	
114	84	5/90	DENT		12.71	H9	
116	84	5/90	DENT		38.30	H9	
118	84	5/90	DENT		21.38	H9	
91	85	5/90	DENT		33.30	H9	
		5/90	DENT		33.30	H9	
93	85	5/90	DENT		54.63	H9	
		5/90	DENT		54.63	H9	
96	85	5/90	DENT		19.77	H9	
		5/90	DENT		19.77	H9	
97	85	5/90	DENT		24.08	H9	
		5/90	DENT		11.10	HTS-SF	
		5/90	DENT		24.08	H9	
		5/90	DENT		11.10	HTL-SF	
99	85	5/90	DENT		30.27	H9	
		5/90	DFNT		30.27	H9	
101	85	5/90	DENT		30.82	H9	
		5/90	DENT		30.82	H9	
103	85	5/90	DENT		43.00	H9	
105	85	5/90	DENT		39.09	H9	
107	85	5/90	DENT		12.68	H9	
109	85	5/90	DENT		26.95	H9	
113	85	5/90	DENT		37.44	H9	
115	85	5/90	DENT		62.62	H9	
117	85	5/90	DENT		61.60	H9	
119	85	5/90	DENT		8.78	H9	
121	85	5/90	DENT		5.20	H10	
92	86	5/90	DENT		39.44	H9	
		5/90	DENT		39.44	H9	
94	86	5/90	DENT		59.90	H9	
		5/90	DENT		59.90	H9	
96	86	5/90	DENT		71.70	H9	
		5/90	DENT		71.70	H9	
98	86	5/90	DENT		45.76	H9	
100	86	5/90	DENT		89.09	H9	
		5/90	DENT		89.09	H9	
102	86	5/90	DENT		50.33	H9	
		5/90	DENT		50.33	H9	
104	86	5/90	DENT		63.27	H9	
		5/90	DENT		63.27	H9	
110	86	5/90	DENT		28.21	H9	
		5/90	DENT		28.21	H9	
112	86	5/90	DENT		39.47	H9	
		5/90	DENT		39.47	H9	
114	86	5/90	DENT		10.97	H9	

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 12

QUERY: All Dent Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
116	86	5/90	DENT		10.97	H9	
		5/90	DENT		45.08	H9	
		5/90	DENT		45.08	H9	
118	86	5/90	DENT		25.21	H9	
67	87	5/90	DENT		9.04	H7	+19.50
91	87	5/90	DENT		90.98	H9	
		5/90	DENT		90.88	H9	
93	87	5/90	DENT		111.90	H9	
		5/90	DENT		111.90	H9	
95	87	5/90	DENT		179.20	H9	
		5/90	DENT		179.20	H9	
97	87	5/90	DENT		70.77	H9	
		5/90	DENT		70.77	H9	
99	87	5/90	DENT		91.19	H9	
		5/90	DENT		91.19	H9	
101	87	5/90	DENT		55.24	H9	
		5/90	DENT		55.24	H9	
103	87	5/90	DENT		74.02	H9	
		5/90	DENT		74.02	H9	
105	87	5/90	DENT		60.25	H9	
		5/90	DENT		60.25	H9	
107	87	5/90	DENT		43.04	H9	
		5/90	DENT		43.04	H9	
109	87	5/90	DENT		62.59	H9	
		5/90	DENT		62.59	H9	
111	87	5/90	DENT		77.96	H9	
		5/90	DENT		77.96	H9	
113	87	5/90	DENT		52.58	H9	
		5/90	DENT		52.58	H9	
115	87	5/90	DENT		86.03	H9	
		5/90	DENT		86.03	H9	
117	87	5/90	DENT		58.42	H9	
		5/90	DENT		58.42	H9	
119	87	5/90	DENT		24.78	H9	
		5/90	DENT		24.78	H9	
82	88	5/90	DENT		7.60	H1	+ 1.60
92	88	5/90	DENT		116.00	H9	
94	88	5/90	DENT		43.37	H9	
96	88	5/90	DENT		144.70	H9	
98	88	5/90	DENT		190.10	H9	
100	88	5/90	DENT		136.30	H9	
102	88	5/90	DENT		113.70	H9	
104	88	5/90	DENT		101.10	H9	
106	88	5/90	DENT		73.03	H9	
110	88	5/90	DENT		86.02	H9	
112	88	5/90	DENT		61.20	H9	
114	88	5/90	DENT		42.74	H9	
116	88	5/90	DENT		16.90	H9	
120	88	5/90	DENT		27.80	H9	
122	88	5/90	DENT		25.80	H9	
91	89	5/90	DENT		67.32	H9	
93	89	5/90	DENT		67.40	H9	
95	89	5/90	DENT		109.90	H9	
97	89	5/90	DENT		14.62	C8	+ 7.60
		5/90	DENT		5.22	C9	
		5/90	DENT		135.40	H9	
99	89	5/90	DENT		137.90	H9	
101	89	5/90	DENT		25.71	H9	
103	89	5/90	DENT		80.94	H9	
105	89	5/90	DENT		39.65	H9	
107	89	5/90	DENT		68.65	H9	
109	89	5/90	DENT		78.95	H9	
111	89	5/90	DENT		55.36	H9	
113	89	5/90	DENT		75.27	H9	
115	89	5/90	DENT		34.11	H9	
117	89	5/90	DENT		44.26	H9	
119	89	5/90	DENT		19.60	H9	

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 12

QUERY: All Dent Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
121	89	5/90	DENT		46.63	H9	
96	90	5/90	DENT		91.26	H9	
98	90	5/90	DENT		85.60	H9	
102	90	5/90	DENT		37.60	H9	
104	90	5/90	DENT		61.86	H9	
106	90	5/90	DENT		152.30	H9	
108	90	5/90	DENT		155.60	H9	
110	90	5/90	DENT		19.26	H9	
112	90	5/90	DENT		79.54	H9	
114	90	5/90	DENT		50.62	H9	
116	90	5/90	DENT		20.11	H9	
118	90	5/90	DENT		16.44	H9	
95	91	5/90	DENT		19.32	H9	
97	91	5/90	DENT		63.34	H9	
99	91	5/90	DENT		103.70	H9	
101	91	5/90	DENT		22.56	H9	
103	91	5/90	DENT		41.20	H9	
105	91	5/90	DENT		6.65	H9	
107	91	5/90	DENT		116.70	H9	
109	91	5/90	DENT		35.90	H9	
111	91	5/90	DENT		57.96	H9	
113	91	5/90	DENT		52.43	H9	
115	91	5/90	DENT		12.61	H9	
117	91	5/90	DENT		65.58	H9	
119	91	5/90	DENT		13.36	H9	
94	92	5/90	DENT		43.05	H9	
96	92	5/90	DENT		43.05	H9	
98	92	5/90	DENT		49.03	H9	
100	92	5/90	DENT		49.03	H9	
102	92	5/90	DENT		72.55	H9	
104	92	5/90	DENT		102.20	H9	
106	92	5/90	DENT		102.20	H9	
108	92	5/90	DENT		115.10	H9	
110	92	5/90	DENT		115.10	H9	
112	92	5/90	DENT		71.84	H9	
114	92	5/90	DENT		71.84	H9	
116	92	5/90	DENT		51.50	H9	
118	92	5/90	DENT		76.84	H9	
120	92	5/90	DENT		76.84	H9	
122	92	5/90	DENT		76.84	H9	
124	92	5/90	DENT		97.09	H9	
126	92	5/90	DENT		19.45	H9	
128	92	5/90	DENT		26.23	H9	
130	92	5/90	DENT		42.21	H9	
132	92	5/90	DENT		7.68	H10	
134	92	5/90	DENT		7.91	VC	
77	93	5/90	DENT		12.96	H5	+30.00
		5/90	DENT		7.69	H5	+ 9.70
		5/90	DENT		12.96	H5	+ 9.20
		5/90	DENT		7.69	H5	+ 9.70
		5/90	DENT		7.69	H5	+ 9.20
91	93	5/90	DENT		37.05	H9	
93	93	5/90	DENT		37.05	H9	
95	93	5/90	DENT		56.27	H9	
97	93	5/90	DENT		56.27	H9	
99	93	5/90	DENT		56.75	H9	
101	93	5/90	DENT		56.75	H9	
103	93	5/90	DENT		21.07	H9	
105	93	5/90	DENT		21.07	H9	
107	93	5/90	DENT		144.70	H9	
109	93	5/90	DENT		144.70	H9	
111	93	5/90	DENT		37.86	H9	
113	93	5/90	DENT		37.86	H9	
115	93	5/90	DENT		82.14	H9	
117	93	5/90	DENT		82.14	H9	
119	93	5/90	DENT		76.43	H9	
121	93	5/90	DENT		76.43	H9	
123	93	5/90	DENT		45.46	H9	
125	93	5/90	DENT		45.46	H9	

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Lean Generator: 12

QUERY: All Dent Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
109	93	5/90	DENT		30.30	H9	
		5/90	DENT		30.30	H9	
111	93	5/90	DENT		72.88	H9	
		5/90	DENT		72.88	H9	
113	93	5/90	DENT		83.04	H9	
		5/90	DENT		83.04	H9	
117	93	5/90	DENT		8.89	H10	
		5/90	DENT		8.89	H10	
119	93	5/90	DENT		45.98	VH	
		5/90	DENT		45.98	VH	
121	93	5/90	DENT		7.17	VH	
		5/90	DENT		7.17	VH	
123	93	5/90	DENT		5.32	VH	+ 3.00
92	94	5/90	DENT		56.50	H9	
94	94	5/90	DENT		19.45	H9	
96	94	5/90	DENT		41.91	H9	
98	94	5/90	DENT		21.40	H9	
100	94	5/90	DENT		143.30	H9	
102	94	5/90	DENT		179.20	H9	
104	94	5/90	DENT		74.83	H9	
106	94	5/90	DENT		57.46	H9	
108	94	5/90	DENT		66.69	H9	
110	94	5/90	DENT		15.08	VH	+ 2.00
		5/90	DENT		18.50	H9	
112	94	5/90	DENT		24.86	H9	
		5/90	DENT		15.69	VH	+ 2.50
		5/90	DENT		26.27	VH	+ 0.90
		5/90	DENT		11.03	VH	2.10
114	94	5/90	DENT		74.19	H9	
116	94	5/90	DENT		6.34	VH	
		5/90	DENT		5.82	H9	
118	94	5/90	DENT		9.60	VH	
120	94	5/90	DENT		15.71	H10	
122	94	5/90	DENT		5.37	VH	
126	94	5/90	DENT		22.23	VH	
128	94	5/90	DENT		28.29	VH	
		5/90	DENT		11.98	VH	+ 3.20
130	94	5/90	DENT		9.86	VH	
132	94	5/90	DENT		7.61	VH	
91	95	5/90	DENT		6.00	H9	
93	95	5/90	DENT		73.99	H9	
95	95	5/90	DENT		46.54	H9	
97	95	5/90	DENT		68.97	H9	
99	95	5/90	DENT		138.20	H9	
101	95	5/90	DENT		123.00	H9	
103	95	5/90	DENT		93.90	H9	
105	95	5/90	DENT		62.74	H9	
107	95	5/90	DENT		38.96	H9	
109	95	5/90	DENT		53.46	H9	
111	95	5/90	DENT		23.12	H9	
113	95	5/90	DENT		49.90	H9	
119	95	5/90	DENT		6.31	VH	
92	96	5/90	DENT		136.40	H9	
94	96	5/90	DENT		31.87	H9	
98	96	5/90	DENT		128.80	H9	
100	96	5/90	DENT		174.70	H9	
102	96	5/90	DENT		76.15	H9	
104	96	5/90	DENT		29.61	H9	
106	96	5/90	DENT		80.67	H9	
108	96	5/90	DENT		35.16	H9	
112	96	5/90	DENT		23.09	H9	
114	96	5/90	DENT		8.03	H9	
120	96	5/90	DENT		17.94	H10	
130	96	5/90	DENT		11.09	VH	
67	97	5/90	DENT		13.54	H8	+ 1.70
83	97	5/90	DENT		8.78	H8	+23.00
91	97	5/90	DENT		22.53	C9	

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 12

QUERY: All Dent Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
		5/90	DENT		14.60	C9	+ 1.80
		5/90	DENT		91.30	H9	
93	97	5/90	DENT		108.80	H9	
95	97	5/90	DENT		9.03	H9	
97	97	5/90	DENT		25.99	H9	
99	97	5/90	DENT		83.09	H9	
101	97	5/90	DENT		87.42	H9	
103	97	5/90	DENT		115.70	H9	
105	97	5/90	DENT		62.97	H9	
107	97	5/90	DENT		8.82	DH	
		5/90	DENT		41.69	H9	
119	97	5/90	DENT		8.44	H10	
92	98	5/90	DENT		94.55	H9	
98	98	5/90	DENT		45.85	H9	
100	98	5/90	DENT		146.00	H9	
106	98	5/90	DENT		89.95	H9	
108	98	5/90	DENT		39.85	H9	
91	99	5/90	DENT		40.57	H9	
92	99	5/90	DENT		173.50	H9	
95	99	5/90	DENT		73.14	H9	
99	99	5/90	DENT		67.31	H9	
101	99	5/90	DENT		68.04	H9	+ 3.80
103	99	5/90	DENT		59.72	H9	
105	99	5/90	DENT		66.54	H9	
92	100	5/90	DENT		66.54	H9	
94	100	5/90	DENT		154.40	H9	
100	100	5/90	DENT		13.65	H9	
102	100	5/90	DENT		82.91	H9	
104	100	5/90	DENT		58.44	H9	
106	100	5/90	DENT		149.20	H9	
108	100	5/90	DENT		33.45	H9	
110	100	5/90	DENT		17.95	H9	
120	100	5/90	DENT		42.54	H10	
122	100	5/90	DENT		45.11	H10	
93	101	5/90	DENT		74.61	H9	
97	101	5/90	DENT		64.00	H9	
99	101	5/90	DENT		75.24	H9	
101	101	5/90	DENT		13.37	H9	
101	01	5/90	DENT		7.77	H9	
101	01	5/90	DENT		72.12	H9	
101	1	5/90	DENT		72.98	H9	
101	01	5/90	DENT		64.01	H9	
111	101	5/90	DENT		36.75	H9	
113	101	5/90	DENT		13.66	H9	
119	101	5/90	DENT		40.22	H10	
121	101	5/90	DENT		79.76	H10	
92	102	5/90	DENT		54.74	H9	
96	102	5/90	DENT		66.03	H9	
98	102	5/90	DENT		15.15	H9	
100	102	5/90	DENT		88.60	H9	
104	102	5/90	DENT		17.77	H9	
106	102	5/90	DENT		64.63	H9	
108	102	5/90	DENT		20.68	H9	
110	102	5/90	DENT		61.30	H9	
112	102	5/90	DENT		36.58	H9	
118	102	5/90	DENT		38.29	H10	
120	102	5/90	DENT		49.75	H10	
122	102	5/90	DENT		8.97	H10	
37	103	5/90	DENT		5.51	H6	+22.80
		5/90	DENT		5.75	H6	+23.80
		5/90	DENT		6.17	H6	+24.80
		5/90	DENT		7.84	H7	
		5/90	DENT		6.23	H7	+ 1.60
		5/90	DENT		6.55	H7	+ 2.10
93	103	5/90	DENT		76.72	H9	
94	103	5/90	DENT		79.23	H9	
101	103	5/90	DENT		120.70	H9	

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 12

QUERY: All Dent Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
103	103	5/90	DENT		18.11	H9	
107	103	5/90	DENT		23.57	H9	
111	103	5/90	DENT		40.71	H9	
113	103	5/90	DENT		13.01	H9	
92	104	5/90	DENT		58.56	H9	
94	104	5/90	DENT		9.05	H9	
96	104	5/90	DENT		84.89	H9	
98	104	5/90	DENT		14.18	H9	
100	104	5/90	DENT		119.50	H9	
102	104	5/90	DENT		78.18	H9	
106	104	5/90	DENT		104.80	H9	
108	104	5/90	DENT		41.28	H9	
110	104	5/90	DENT		82.34	H9	
122	104	5/90	DENT		7.43	H10	
15	105	5/90	DENT		5.70	CTS-SF	+11.80
69	105	5/90	DENT		8.69	H5	+ 2.70
71	105	5/90	DENT		7.97	C2	+29.60
91	105	5/90	DENT		103.10	H9	
93	105	5/90	DENT		75.83	H9	
95	105	5/90	DENT		114.20	H9	
97	105	5/90	DENT		103.10	H9	
99	105	5/90	DENT		86.29	H9	+23.60
101	105	5/90	DENT		68.14	H9	
103	105	5/90	DENT		59.45	H9	
109	105	5/90	DENT		64.74	H9	
111	105	5/90	DENT		8.93	VC	
117	105	5/90	DENT		46.06	H10	
119	105	5/90	DENT		57.02	H10	
10	106	5/90	DENT		8.34	C6	+ 7.70
32	106	5/90	DENT		11.68	H5	+17.50
40	106	5/90	DENT		8.13	VM	
92	106	5/90	DENT		78.27	H9	
94	106	5/90	DENT		127.40	H9	
96	106	5/90	DENT		117.70	H9	
98	106	5/90	DENT		106.60	H9	
100	106	5/90	DENT		161.70	H9	
102	106	5/90	DENT		28.65	H9	
108	106	5/90	DENT		28.69	H9	
136	106	5/90	DENT		5.79	H9	
35	107	5/90	DENT		11.34	H5	+17.40
41	107	5/90	DENT		14.17	HTS-SF	+33.30
57	107	5/90	DENT		7.08	H7	
91	107	5/90	DENT		56.39	H9	
93	107	5/90	DENT		88.26	H9	
95	107	5/90	DENT		57.61	H9	
97	107	5/90	DENT		99.61	H9	
99	107	5/90	DENT		93.11	H9	
101	107	5/90	DENT		93.03	H9	
103	107	5/90	DENT		40.43	H9	
107	107	5/90	DENT		61.02	H9	
109	107	5/90	DENT		49.88	H9	
111	107	5/90	DENT		26.65	H9	
119	107	5/90	DENT		14.26	H10	
135	107	5/90	DENT		7.74	VH	+25.90
92	108	5/90	DENT		79.30	H9	
94	108	5/90	DENT		78.32	H9	
96	108	5/90	DENT		83.74	H9	
98	108	5/90	DENT		65.75	H9	
100	108	5/90	DENT		86.91	H9	
102	108	5/90	DENT		100.30	H9	
106	108	5/90	DENT		47.03	H9	
108	108	5/90	DENT		58.63	H9	
110	108	5/90	DENT		45.74	H9	
7	109	5/90	DENT		12.21	H6	+ 5.60
13	109	5/90	DENT		9.88	C6	+ 8.00
91	109	5/90	DENT		48.66	H9	
93	109	5/90	DENT		81.02	H9	

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 12

QUERY: All Dent Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
95	109	5/90	DENT		105.00	H9	
97	109	5/90	DENT		101.60	H9	
99	109	5/90	DENT		88.54	H9	
103	109	5/90	DENT		30.39	H9	
105	109	5/90	DENT		68.03	H9	
107	109	5/90	DENT		48.40	VM	+26.70
		5/90	DENT		48.96	H9	
109	109	5/90	DENT		63.13	H9	
111	109	5/90	DENT		34.62	H9	
92	110	5/90	DENT		9.61	C9	
		5/90	DENT		75.57	H9	
94	110	5/90	DENT		148.10	H9	
98	110	5/90	DENT		121.20	H9	
100	110	5/90	DENT		106.40	H9	
102	110	5/90	DENT		39.09	H9	
110	110	5/90	DENT		16.97	H9	
122	110	5/90	DENT		9.71	H10	
9	111	5/90	DENT		6.89	H1	+17.30
41	111	5/90	DENT		8.74	HTS-SF	+34.00
91	111	5/90	DENT		61.94	H9	
93	111	5/90	DENT		109.50	H9	
95	111	5/90	DENT		89.14	H9	
97	111	5/90	DENT		81.21	H9	
99	111	5/90	DENT		12.20	H9	
101	111	5/90	DENT		50.88	H9	
105	111	5/90	DENT		24.06	H9	
109	111	5/90	DENT		28.03	H9	
111	111	5/90	DENT		9.17	H9	
117	111	5/90	DENT		15.91	H10	
92	112	5/90	DENT		73.95	H9	
94	112	5/90	DENT		85.19	H9	
		5/90	DENT		9.64	C9	
96	112	5/90	DENT		109.30	H9	+16.60
98	112	5/90	DENT		58.39	H9	
100	112	5/90	DENT		95.44	H9	
102	112	5/90	DENT		54.19	H9	
108	112	5/90	DENT		33.20	H9	
110	112	5/90	DENT		34.24	H9	
71	113	5/90	DENT		6.07	VM	
91	113	5/90	DENT		23.84	H9	
93	113	5/90	DENT		106.40	H9	
95	113	5/90	DENT		93.18	H9	
97	113	5/90	DENT		95.96	H9	
99	113	5/90	DENT		89.50	H9	
101	113	5/90	DENT		53.86	H9	
103	113	5/90	DENT		51.30	H9	
105	113	5/90	DENT		76.96	H9	
107	113	5/90	DENT		26.01	H9	
109	113	5/90	DENT		7.84	H9	
82	114	5/90	DENT		5.68	H4	+34.30
92	114	5/90	DENT		5.95	C9	
		5/90	DENT		78.54	H9	
94	114	5/90	DENT		84.82	H9	
96	114	5/90	DENT		128.80	H9	
98	114	5/90	DENT		59.89	H9	
100	114	5/90	DENT		106.90	H9	
102	114	5/90	DENT		33.76	H9	
104	114	5/90	DENT		71.55	H9	
106	114	5/90	DENT		68.01	H9	
108	114	5/90	DENT		7.38	H9	
110	114	5/90	DENT		53.46	H9	
112	114	5/90	DENT		15.75	H9	
114	114	5/90	DENT		5.82	H9	
67	115	5/90	DENT		6.13	C7	+ 8.20
		5/90	DENT		5.25	C8	
69	115	5/90	DENT		24.75	H8	
		5/90	DENT		13.16	H7	+16.30

Plant: CALVERT CLIFFS UNIT 1
Outage: 5/90

Steam Generator: 12

QUERY: All Dent Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
91	115	5/90	DENT		5.08	H7	+14.10
		5/90	DENT		10.92	C9	+ 1.90
		5/90	DENT		43.33	H9	
93	115	5/90	DENT		6.12	C9	
		5/90	DENT		133.90	H9	
95	115	5/90	DENT		89.40	H9	
97	115	5/90	DENT		76.30	H9	
99	115	5/90	DENT		60.41	H9	
101	115	5/90	DENT		33.34	H9	
103	115	5/90	DENT		27.65	H9	
105	115	5/90	DENT		9.88	C9	+ 1.80
		5/90	DENT		64.61	H9	
107	115	5/90	DENT		28.76	H9	
109	115	5/90	DENT		50.95	H9	
111	115	5/90	DENT		42.81	H9	
115	115	5/90	DENT		29.40	H9	
40	116	5/90	DENT		5.83	C6	+13.80
92	116	5/90	DENT		86.18	H9	
94	116	5/90	DENT		101.70	H9	
96	116	5/90	DENT		54.08	H9	
98	116	5/90	DENT		67.61	H9	
102	116	5/90	DENT		48.21	H9	
104	116	5/90	DENT		49.98	H9	
106	116	5/90	DENT		43.74	H9	
108	116	5/90	DENT		63.98	H9	
110	116	5/90	DENT		54.24	H9	
112	116	5/90	DENT		42.68	H9	
114	116	5/90	DENT		14.91	H9	
124	116	5/90	DENT		5.80	C9	+ 3.00
59	117	5/90	DENT		9.95	C2	+32.60
91	117	5/90	DENT		53.65	H9	
93	117	5/90	DENT		69.63	H9	
95	117	5/90	DENT		53.94	H9	
97	117	5/90	DENT		95.39	H9	
99	117	5/90	DENT		19.47	H9	
103	117	5/90	DENT		18.72	H9	
105	117	5/90	DENT		24.80	H9	
109	117	5/90	DENT		128.30	H9	
111	117	5/90	DENT		66.56	H9	
92	118	5/90	DENT		56.34	H9	
94	118	5/90	DENT		54.20	H9	
96	118	5/90	DENT		90.05	H9	
98	118	5/90	DENT		64.46	H9	
100	118	5/90	DENT		46.44	H9	
102	118	5/90	DENT		70.01	H9	
104	118	5/90	DENT		41.86	H9	
108	118	5/90	DENT		41.43	H9	
110	118	5/90	DENT		87.88	H9	
112	118	5/90	DENT		104.80	H9	
114	118	5/90	DENT		13.43	H9	
91	119	5/90	DENT		6.95	H9	
95	119	5/90	DENT		28.63	H9	
97	119	5/90	DENT		88.52	H9	
99	119	5/90	DENT		81.91	H9	
101	119	5/90	DENT		67.19	H9	
103	119	5/90	DENT		34.24	H9	
107	119	5/90	DENT		13.52	H9	
109	119	5/90	DENT		26.77	H9	
111	119	5/90	DENT		94.98	H9	
113	119	5/90	DENT		8.78	H9	
20	120	5/90	DENT		10.71	DC	
94	120	5/90	DENT		32.07	H9	
96	120	5/90	DENT		50.76	H9	
98	120	5/90	DENT		38.87	H9	
100	120	5/90	DENT		111.60	H9	
102	120	5/90	DENT		104.50	H9	
104	120	5/90	DENT		104.70	H9	

CLIFFS UNIT 1
5/90

Steam Generator: 12

QUERY: All Dent Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
108	120	5/90	DENT		62.55	H9	
110	120	5/90	DENT		62.33	H9	
111	121	5/90	DENT		5.58	C2	+23.20
93	121	5/90	DENT		75.75	H9	
95	121	5/90	DENT		80.10	H9	
97	121	5/90	DENT		65.10	H9	
99	121	5/90	DENT		30.55	H9	
101	121	5/90	DENT		71.13	H9	
103	121	5/90	DENT		87.00	H9	
105	121	5/90	DENT		36.09	H9	
107	121	5/90	DENT		33.98	H9	
109	121	5/90	DENT		32.99	H9	
123	121	5/90	DENT		12.48	C5	+28.70
92	122	5/90	DENT		76.26	H9	
94	122	5/90	DENT		62.23	H9	
96	122	5/90	DENT		47.72	H9	
98	122	5/90	DENT		54.20	H9	
100	122	5/90	DENT		13.94	H9	
106	122	5/90	DENT		74.95	H9	
108	122	5/90	DENT		41.06	H9	
110	122	5/90	DENT		38.71	H9	
112	122	5/90	DENT		50.26	H9	
114	122	5/90	DENT		36.25	H9	
116	122	5/90	DENT		7.29	H9	
7	123	5/90	DENT		14.45	C6	+ 5.90
13	123	5/90	DENT		9.10	C6	+ 8.00
		5/90	DENT		8.97	DC	
		5/90	DENT		6.46	VM	
39	123	5/90	DENT		6.79	C6	+17.90
		5/90	DENT		5.81	C6	+19.30
		5/90	DENT		5.74	C6	+21.30
41	123	5/90	DENT		10.58	H6	+22.60
		5/90	DENT		9.12	H6	+21.70
		5/90	DENT		6.12	H6	+20.20
65	123	5/90	DENT		5.70	H5	+25.60
93	123	5/90	DENT		36.82	H9	
95	123	5/90	DENT		17.55	H8	+ 2.20
97	123	5/90	DENT		33.68	H9	
99	123	5/90	DENT		111.00	H9	
101	123	5/90	DENT		26.67	H9	
103	123	5/90	DENT		31.87	H9	
107	123	5/90	DENT		30.86	H9	
111	123	5/90	DENT		43.47	H9	
113	123	5/90	DENT		85.93	H9	
115	123	5/90	DENT		44.00	H9	
28	124	5/90	DENT		5.27	VM	
92	124	5/90	DENT		22.62	H9	
94	124	5/90	DENT		54.24	H9	
96	124	5/90	DENT		92.67	H9	
98	124	5/90	DENT		50.50	H9	
100	124	5/90	DENT		85.16	H9	
102	124	5/90	DENT		55.65	H9	
104	124	5/90	DENT		44.03	H9	
106	124	5/90	DENT		43.18	H9	
108	124	5/90	DENT		50.52	H9	
114	124	5/90	DENT		25.88	H9	
13	125	5/90	DENT		6.42	VM	
		5/90	DENT		7.24	C6	+ 7.80
37	125	5/90	DENT		6.09	C6	+14.10
		5/90	DENT		5.64	C6	+14.80
		5/90	DENT		13.38	C6	+22.60
		5/90	DENT		5.05	H6	+14.50
87	125	5/90	DENT		11.20	VH	+11.50
93	125	5/90	DENT		49.74	H9	
95	125	5/90	DENT		51.75	H9	
97	125	5/90	DENT		96.40	H9	
99	125	5/90	DENT		0.00	OTHER	

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 12

QUERY: All Dent Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
101	125	5/90	DENT		48.66	H9	
103	125	5/90	DENT		39.44	H9	
105	125	5/90	DENT		46.32	H9	
107	125	5/90	DENT		57.61	H9	
109	125	5/90	DENT		38.24	H9	
90	126	5/90	DENT		5.14	H8	+15.60
92	126	5/90	DENT		6.98	C9	
94	126	5/90	DENT		96.98	H9	
96	126	5/90	DENT		70.07	H9	
98	126	5/90	DENT		59.67	H9	
100	126	5/90	DENT		43.07	H9	
102	126	5/90	DENT		112.00	H9	
104	126	5/90	DENT		118.30	H9	
106	126	5/90	DENT		74.08	H9	
108	126	5/90	DENT		23.40	H9	
110	126	5/90	DENT		5.05	C3	
			DENT		6.87	H9	
114	126	5/90	DENT		6.31	H9	
113	127	5/90	DENT		9.27	C6	+ 8.00
91	127	5/90	DENT		35.16	H9	
95	127	5/90	DENT		74.76	H9	
97	127	5/90	DENT		80.82	H9	
99	127	5/90	DENT		99.26	H9	
103	127	5/90	DENT		5.11	H9	
92	128	5/90	DENT		148.60	H9	
94	128	5/90	DENT		56.96	H9	
98	128	5/90	DENT		91.07	H9	
100	128	5/90	DENT		15.12	C4	+17.70
			DENT		13.30	H9	
83	129	5/90	DENT		7.79	H8	
91	129	5/90	DENT		26.14	C9	
			DENT		107.90	H9	
93	129	5/90	DENT		142.30	H9	
95	129	5/90	DENT		39.04	H9	
99	129	5/90	DENT		26.91	H9	
78	130	5/90	DENT		7.38	H7	+ 3.70
92	130	5/90	DENT		6.91	H9	
81	131	5/90	DENT		6.38	C8	+ 7.20
87	131	5/90	DENT		8.43	VM	+25.60
91	131	5/90	DENT		132.20	H9	
93	131	5/90	DENT		55.02	H9	
			DENT		5.78	C9	
99	131	5/90	DENT		9.01	H9	
70	132	5/90	DENT		6.62	C7	+ 2.50
			DENT		16.01	H7	+18.30
86	132	5/90	DENT		14.02	C4	+21.40
92	132	5/90	DENT		77.16	H9	
94	132	5/90	DENT		45.62	H9	
98	132	5/90	DENT		9.19	H8	+19.60
			DENT		34.12	H9	
29	133	5/90	DENT		5.81	VM	
93	133	5/90	DENT		12.82	H9	
78	134	5/90	DENT		5.44	H1	+28.90
47	135	5/90	DENT		9.24	C7	
79	135	5/90	DENT		5.45	CTS-SF	+10.30
87	135	5/90	DENT		9.07	DH	
78	136	5/90	DENT		10.39	H8	+ 4.40
86	136	5/90	DENT		8.51	C8	+ 1.80
104	136	5/90	DENT		8.93	H9	
13	139	5/90	DENT		6.48	VM	
78	140	5/90	DENT		9.28	CTS-SF	+28.60
86	140	5/90	DENT		14.26	H5	+ 3.80
92	140	5/90	DENT		5.51	H9	
91	141	5/90	DENT		6.50	H9	
34	142	5/90	DENT		6.28	H6	+24.30
98	142	5/90	DENT		6.66	HTS-SF	+10.20
			DENT		8.07	VH	+27.30

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 13

QUERY: All Dent Indications - All Elevations

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
13	143	5/90	DENT		7.24	VM	
31	143	5/90	DENT		6.45	CTS-SF	+30.20
5	145	5/90	DENT		13.44	H5	+36.60
7	145	5/90	DENT		15.42	H6	+ 5.60
15	145	5/90	DENT		8.95	H1	+ 7.50
37	145	5/90	DENT		7.68	C6	+16.50
		5/90	DENT		11.90	C6	+17.80
86	146	5/90	DENT		11.21	H5	+36.80
7	149	5/90	DENT		16.74	H6	+ 5.40
13	149	5/90	DENT		8.43	C6	+ 7.70
9	151	5/90	DENT		6.19	H1	+17.10
13	151	5/90	DENT		9.20	H6	+ 7.70
67	151	5/90	DENT		5.66	C7	+ 8.90
		5/90	DENT		5.53	C7	+13.70
		5/90	DENT		8.95	C7	+16.00
		5/90	DENT		5.65	C7	+24.50
		5/90	DENT		10.24	C8	+ 0.50
10	152	5/90	DENT		8.77	C1	+28.40
7	153	5/90	DENT		11.19	C6	+ 5.80
12	154	5/90	DENT		5.72	C6	+10.20
36	154	5/90	DENT		6.12	C4	+16.80
7	155	5/90	DENT		12.94	C6	+ 5.60
11	155	5/90	DENT		7.88	C6	+ 7.20
13	155	5/90	DENT		7.67	C6	+ 7.70
32	156	5/90	DENT		13.99	VM	
		5/90	DENT		13.44	VM	
5	163	5/90	DENT		9.04	C2	+38.10
14	164	5/90	DENT		5.86	CTS-SF	+25.20

TOTAL TUBES FOUND = 1127
 TOTAL INDICATIONS FOUND = 1301
 TOTAL TUBES IN INPUT FILE = 8519
 TOTAL TUBES INSPECTED = 8453

STEAM GENERATOR 12

F. List with Plot of Tubes Plugged
During May/June 1990

TUBES PLUGGED 5/90 OUTAGE

PLANT: CALVERT CLIFFS UNIT 1
OUTAGE: 5/90

GENERATOR 12

1 = MED-GE (G)
4 = CONST (G)

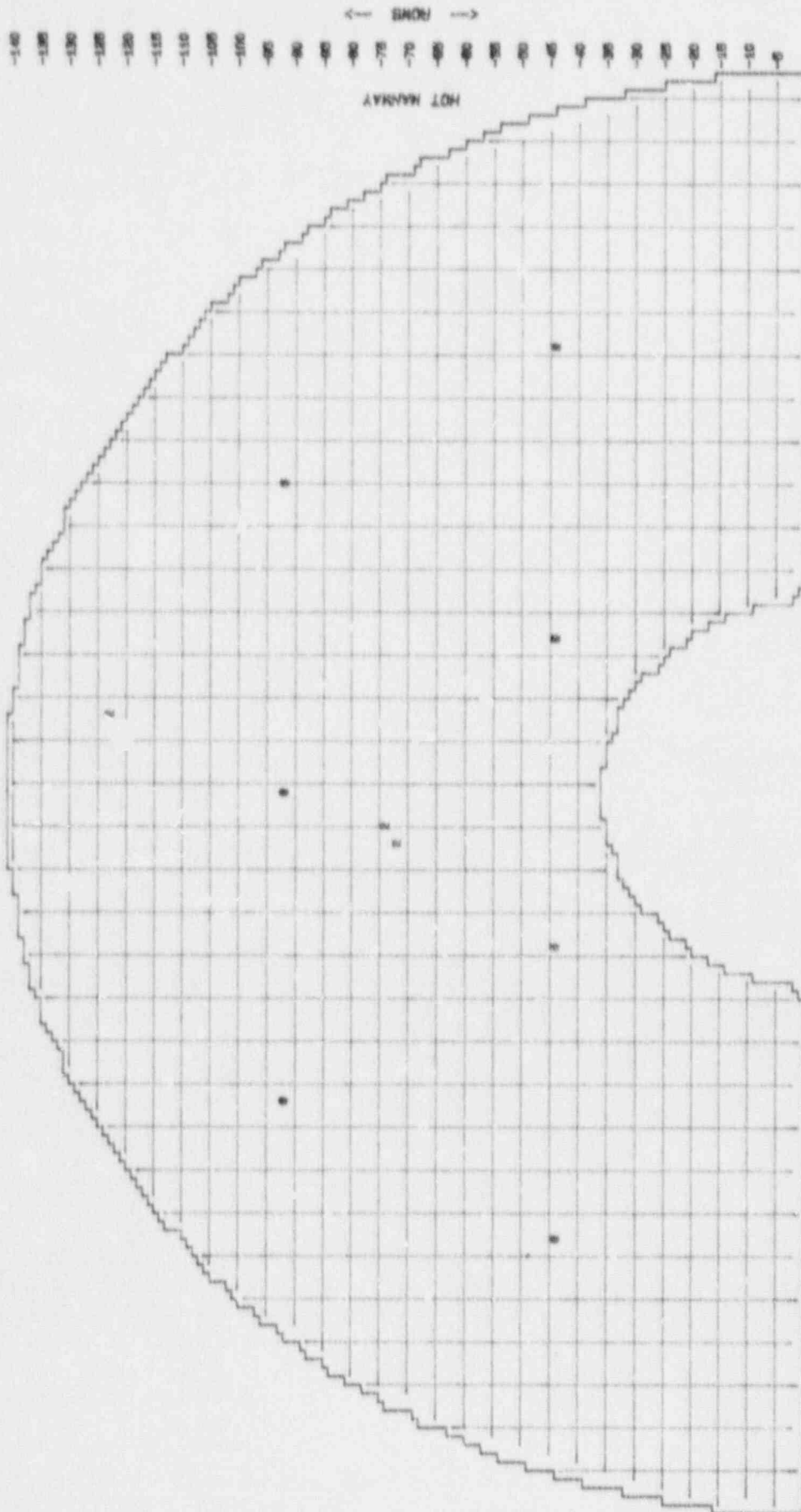
2 = MED-GE (G)

3 = WELD-GE (G)

TOTAL TUBES : 8519
STAYS : 7

TOTAL TUBES ASSIGNED : 3

180 DEG



270 DEG HOT TEMPLATES *A*

LINES

90 DEG

Plant: CALVERT CLIFFS UNIT 1
 Outage: 5/90

Steam Generator: 12

QUERY: TUBES PLUGGED 5/90 OUTAGE

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
72	78	5/90	PLUGGED	MECH-W		HTS-PF	
		5/90	PLUGGED	MECH-W		CTS-PF	
74	80	5/90	PLUGGED	MECH-W		HTS-PF	
		5/90	PLUGGED	MECH-W		CTS-PF	
123	93	5/90	PLUGGED	MECH-W		HTS-PF	
		5/90	PLUGGED	MECH-W		CTS-PF	

TOTAL TUBES FOUND = 3
 TOTAL INDICATIONS FOUND = 6
 TOTAL TUBES IN INPUT FILE = 6519
 TOTAL TUBES INSPECTED = 6453

STEAM GENERATOR 12

G. List with Plot of all Tubes Plugged

ALL TUBES PLUGGED

GENERATOR: 12

PLANT: CALVERT CLIFFS UNIT 1
 OUTAGES: 01/79 06/82 10/83 04/85 10/86 04/88 5/90

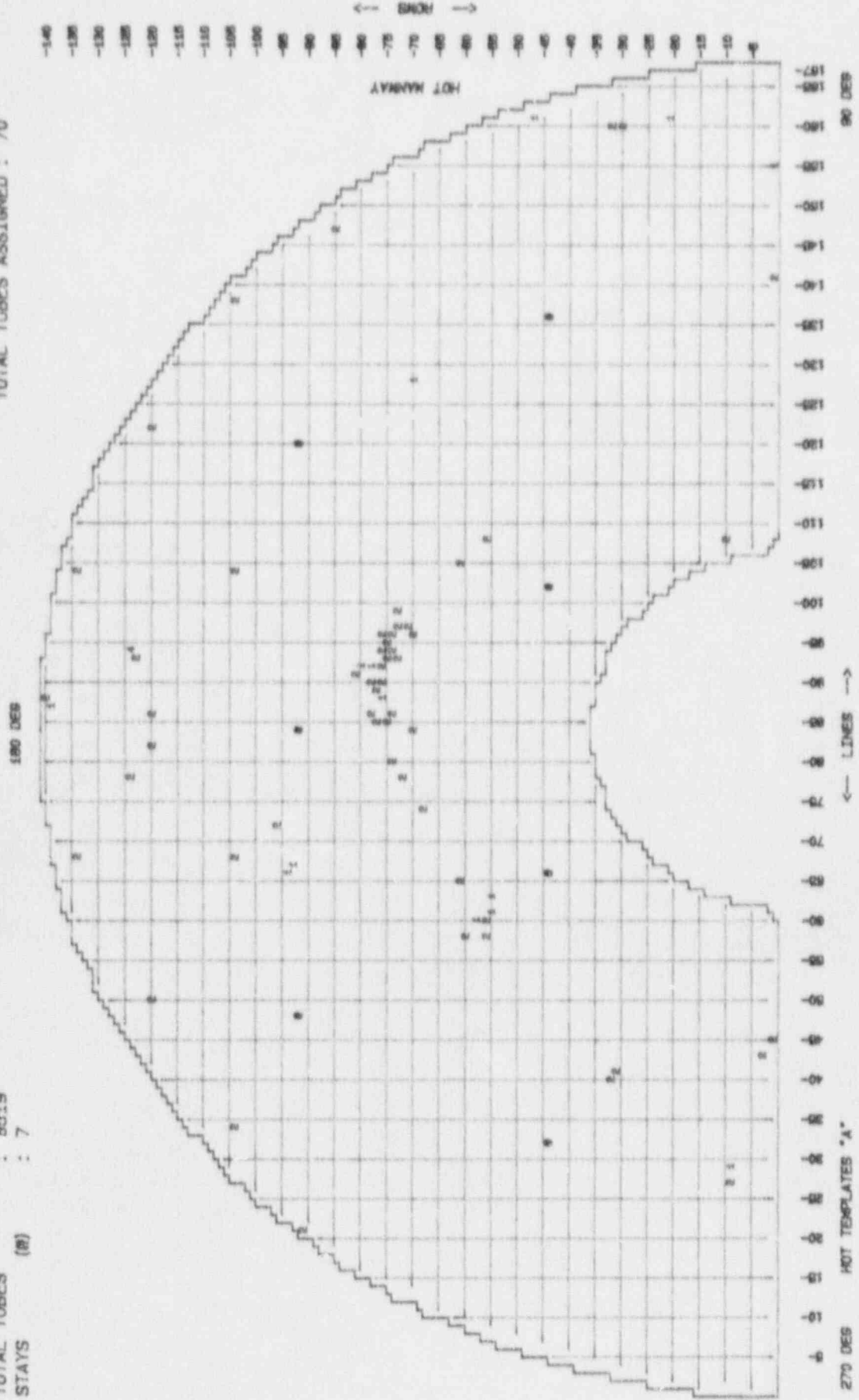
3 = WELD-OE (0)

2 = MECH-N (000)

TOTAL TUBES ASSIGNED : 70

TOTAL TUBES : 8519
 STAYS : 7

1 = MECH-OE (14)
 4 = CONST (1)



Plant: CALVERT CLIFFS UNIT 1
 Outages: 01/79 06/82 10/83 04/85 10/86 04/88 Steam Generator: 12
 5/90

QUERY: ALL TUBES PLUGGED

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
91	21	06/82	PLUGGED	1.00	117	177	
		06/82	PLUGGED	1.00	117	177	
9	27	04/85	PLUGGED	1.00	117	177	
		04/85	PLUGGED	1.00	117	177	
9	29	10/86	PLUGGED	1.00	117	177	
		10/86	PLUGGED	1.00	117	177	
104	34	06/82	PLUGGED	1.00	117	177	
		06/82	PLUGGED	1.00	117	177	
32	40	04/88	PLUGGED	1.00	117	177	
		04/88	PLUGGED	1.00	117	177	
31	41	04/88	PLUGGED	1.00	117	177	
		04/88	PLUGGED	1.00	117	177	
3	43	04/85	PLUGGED	1.00	117	177	
		04/85	PLUGGED	1.00	117	177	
1	45	04/88	PLUGGED	1.00	117	177	
		04/88	PLUGGED	1.00	117	177	
120	50	06/82	PLUGGED	1.00	117	177	
		06/82	PLUGGED	1.00	117	177	
56	58	04/85	PLUGGED	1.00	117	177	
		04/85	PLUGGED	1.00	117	177	
60	58	04/88	PLUGGED	1.00	117	177	
		04/88	PLUGGED	1.00	117	177	
56	60	04/85	PLUGGED	1.00	117	177	
		04/85	PLUGGED	1.00	117	177	
58	60	10/86	PLUGGED	1.00	117	177	
		10/86	PLUGGED	1.00	117	177	
55	61	10/86	PLUGGED	1.00	117	177	
		10/86	PLUGGED	1.00	117	177	
55	63	10/86	PLUGGED	1.00	117	177	
		10/86	PLUGGED	1.00	117	177	
61	65	04/88	PLUGGED	1.00	117	177	
		04/88	PLUGGED	1.00	117	177	
94	66	10/86	PLUGGED	1.00	117	177	
		04/88	PLUGGED	1.00	117	177	
93	67	10/86	PLUGGED	1.00	117	177	
		10/86	PLUGGED	1.00	117	177	
104	68	06/82	PLUGGED	1.00	117	177	
		06/82	PLUGGED	1.00	117	177	
134	68	06/82	PLUGGED	1.00	117	177	
		06/82	PLUGGED	1.00	117	177	
96	72	10/83	PLUGGED	1.00	117	177	
		10/83	PLUGGED	1.00	117	177	
68	74	04/88	PLUGGED	1.00	117	177	
		04/88	PLUGGED	1.00	117	177	
72	78	5/90	PLUGGED	1.00	117	177	
		5/90	PLUGGED	1.00	117	177	
124	78	10/83	PLUGGED	1.00	117	177	
		10/83	PLUGGED	1.00	117	177	
74	80	5/90	PLUGGED	1.00	117	177	
		5/90	PLUGGED	1.00	117	177	
120	82	06/82	PLUGGED	1.00	117	177	
		06/82	PLUGGED	1.00	117	177	
70	84	04/88	PLUGGED	1.00	117	177	
		04/88	PLUGGED	1.00	117	177	
75	85	04/85	PLUGGED	1.00	117	177	
		04/85	PLUGGED	1.00	117	177	
77	85	04/88	PLUGGED	1.00	117	177	
		04/88	PLUGGED	1.00	117	177	
74	86	04/88	PLUGGED	1.00	117	177	
		04/88	PLUGGED	1.00	117	177	
78	86	04/88	PLUGGED	1.00	117	177	
		04/88	PLUGGED	1.00	117	177	
120	86	06/82	PLUGGED	1.00	117	177	
		06/82	PLUGGED	1.00	117	177	
139	87	10/86	PLUGGED	1.00	117	177	
		10/86	PLUGGED	1.00	117	177	
76	88	10/86	PLUGGED	1.00	117	177	
		10/86	PLUGGED	1.00	117	177	

Plant: CALVERT CLIFFS NIT 1
 Outages: 01/79 06/82 10/83 04/85 10/86 04/88 5/90
 Steam Gener. nr: 12

QUERY: ALL TUBES PLUGGED

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
140	88	04/85	PLUGGED	3.000000E	04	00000000	1.75
		04/85	PLUGGED	3.000000E	04	00000000	1.75
77	89	04/88	PLUGGED	3.000000E	04	00000000	1.75
		04/88	PLUGGED	3.000000E	04	00000000	1.75
76	90	04/88	PLUGGED	3.000000E	04	00000000	1.75
		04/88	PLUGGED	3.000000E	04	00000000	1.75
78	90	04/88	PLUGGED	3.000000E	04	00000000	1.75
		04/88	PLUGGED	3.000000E	04	00000000	1.75
81	91	04/88	PLUGGED	3.000000E	04	00000000	1.75
		04/88	PLUGGED	3.000000E	04	00000000	1.75
76	92	04/88	PLUGGED	3.000000E	04	00000000	1.75
		04/88	PLUGGED	3.000000E	04	00000000	1.75
78	92	10/86	PLUGGED	3.000000E	04	00000000	1.75
		10/86	PLUGGED	3.000000E	04	00000000	1.75
80	92	10/86	PLUGGED	3.000000E	04	00000000	1.75
		10/86	PLUGGED	3.000000E	04	00000000	1.75
73	93	04/88	PLUGGED	3.000000E	04	00000000	1.75
		04/88	PLUGGED	3.000000E	04	00000000	1.75
75	93	04/88	PLUGGED	3.000000E	04	00000000	1.75
		04/88	PLUGGED	3.000000E	04	00000000	1.75
123	93	5/90	PLUGGED	3.000000E	04	00000000	1.75
		5/90	PLUGGED	3.000000E	04	00000000	1.75
74	94	04/88	PLUGGED	3.000000E	04	00000000	1.75
		04/88	PLUGGED	3.000000E	04	00000000	1.75
76	94	04/85	PLUGGED	3.000000E	04	00000000	1.75
		04/85	PLUGGED	3.000000E	04	00000000	1.75
124	94	04/85	PLUGGED	002504	04	00000000	1.75
		04/85	PLUGGED	002504	04	00000000	1.75
75	95	04/88	PLUGGED	3.000000E	04	00000000	1.75
		04/88	PLUGGED	3.000000E	04	00000000	1.75
70	96	04/88	PLUGGED	3.000000E	04	00000000	1.75
		04/88	PLUGGED	3.000000E	04	00000000	1.75
74	96	04/88	PLUGGED	3.000000E	04	00000000	1.75
		04/88	PLUGGED	3.000000E	04	00000000	1.75
76	96	04/85	PLUGGED	3.000000E	04	00000000	1.75
		04/85	PLUGGED	3.000000E	04	00000000	1.75
71	97	04/88	PLUGGED	3.000000E	04	00000000	1.75
		04/88	PLUGGED	3.000000E	04	00000000	1.75
73	97	04/88	PLUGGED	3.000000E	04	00000000	1.75
		04/88	PLUGGED	3.000000E	04	00000000	1.75
73	99	04/88	PLUGGED	3.000000E	04	00000000	1.75
		04/88	PLUGGED	3.000000E	04	00000000	1.75
104	104	06/82	PLUGGED	3.000000E	04	00000000	1.75
		06/82	PLUGGED	3.000000E	04	00000000	1.75
134	104	06/82	PLUGGED	3.000000E	04	00000000	1.75
		06/82	PLUGGED	3.000000E	04	00000000	1.75
61	105	04/88	PLUGGED	3.000000E	04	00000000	1.75
		04/88	PLUGGED	3.000000E	04	00000000	1.75
10	108	04/88	PLUGGED	3.000000E	04	00000000	1.75
		04/88	PLUGGED	3.000000E	04	00000000	1.75
56	108	04/88	PLUGGED	3.000000E	04	00000000	1.75
		04/88	PLUGGED	3.000000E	04	00000000	1.75
120	122	06/82	PLUGGED	3.000000E	04	00000000	1.75
		06/82	PLUGGED	3.000000E	04	00000000	1.75
70	128	10/86	PLUGGED	3.000000E	04	00000000	1.75
		10/86	PLUGGED	3.000000E	04	00000000	1.75
104	138	06/82	PLUGGED	3.000000E	04	00000000	1.75
		06/82	PLUGGED	3.000000E	04	00000000	1.75
1	141	04/88	PLUGGED	3.000000E	04	00000000	1.75
		04/88	PLUGGED	3.000000E	04	00000000	1.75
85	147	04/85	PLUGGED	3.000000E	04	00000000	1.75
		04/85	PLUGGED	3.000000E	04	00000000	1.75
1	155	10/86	PLUGGED	3.000000E	04	00000000	1.75
		10/86	PLUGGED	3.000000E	04	00000000	1.75
30	160	04/85	PLUGGED	3.000000E	04	00000000	1.75
		04/85	PLUGGED	002504	04	00000000	1.75
32	160	04/85	PLUGGED	3.000000E	04	00000000	1.75

Plant: CALVERT CLIFFS UNIT 1
Outages: 01/79 06/82 10/83 04/85 10/86 04/88 5/90 Steam Generator: 12

QUERY: ALL TUBES PLUGGED

ROW	LINE	OUTAGE	INDICATION	VALUE	VOLTS	LOCATION	INCHES
		04/85	PLUGGED	CONST		HTS-PF	
21	161	10/86	PLUGGED	MECH-CE		HTS-PF	
		10/86	PLUGGED	MECH-CE		CTS-PF	
47	161	10/86	PLUGGED	MECH-CE		HTS-PF	
		10/86	PLUGGED	MECH-CE		CTS-PF	

TOTAL TUBES FOUND = 70
TOTAL INDICATIONS FOUND = 139

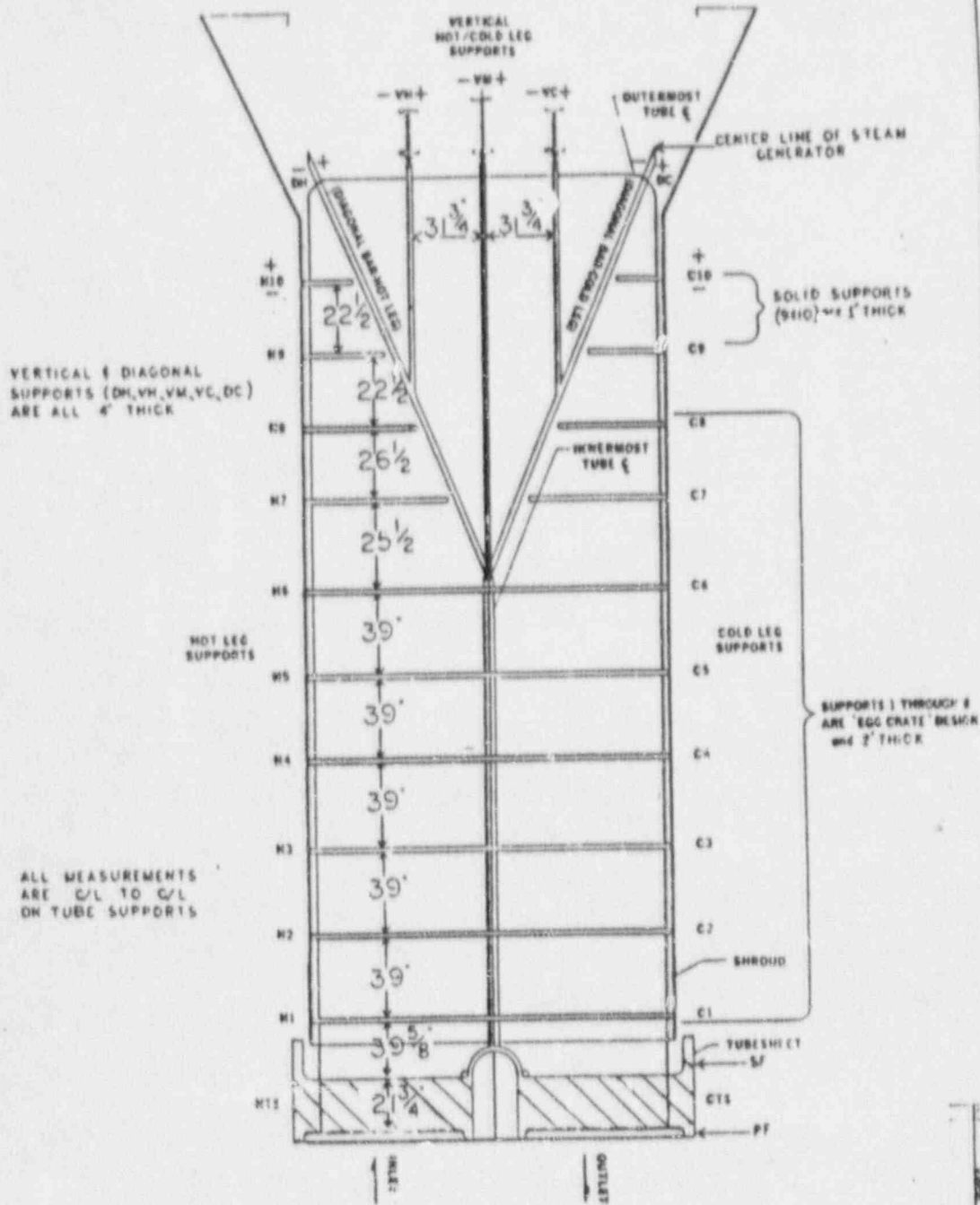
APPENDIX III

Steam Generator Inspection Information

- A. Steam Generator Support Location and Nomenclature
- B. Steam Generator Tube Sheet Pattern and Number System
- C. Eddy Current Inspection Acronyms

A. Steam Generator Support Location and Nomenclature

STEAM GENERATORS CCNPP 1 & 2



VERTICAL & DIAGONAL SUPPORTS (DH, VH, VM, VC, DC) ARE ALL 4" THICK

ALL MEASUREMENTS ARE C/L TO C/L DH TUBE SUPPORTS

SUPPORTS 1 THROUGH 8 ARE 'EGG CRATE' DESIGN AND 2" THICK

Rows Contacting Supports Above 8th TS

ROWS	NO. OF SUPPORTS	SUPPORT DESIGNATIONS
1-10	1	VM
10-35	3	DH, VM, DC
36-65	6	H7, DH, VM, DC, C7
66-73	7	H8, H7, DH, VM, DC, C7, C8
74-89	8	VH, H8, H7, DH, VM, DC, C7, C8, VC
90-115	11	H8, VH, H8, H7, DH, VM, DC, C7, C8, VC, C9
116-140	13	H10, H9, VH, H8, H7, DH, VM, DC, C7, C8, VC, C9, C10

C. EDDY CURRENT INSPECTION ACRONYMS

DNT - DENT
PLG - PLUG
PV - PERMEABILITY
INC - INCOMPLETE
RT - RETEST
RES - RESTRICTED
RBD - RETEST BAD DATA
DI - DISTORTED INDICATION
UDS - UNDEFINED SIGNAL
INF - INDICATION NOT FOUND
SQR - SQUIRREL
PID - POSITIVE IDENTIFICATION
NT - NO TEST
CU - COPPER
FIX - FIXTURE
TP - TEMPLATE PLUG
BLG - BULGE
IDI - INSIDE DIAMETER INDICATION
IDV - INSIDE DIAMETER VARIATION
INR - INDICATION NOT REPORTABLE
SLG - SLUDGE
XHR - EXTRA HARD ROLL
RTI - ROLL TRANSITION INDICATION
APT - ABSOLUTE POSITIVE TRACE
NDD - NO DETECTABLE DEGRADATION
NRH - NOT ROLLED HOT
NRC - NOT ROLLED COLD