



Crystal River Nuclear Plant
Docket No. 50-302
Operating License No. DPR-72

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January 22, 2002
3F0102-05

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555-0001

Subject: Crystal River Unit 3 – Special Report 02-01: Results of the Once Through Steam Generator (OTSG) Tube Inservice Inspection Conducted During Refueling Outage 12

References: 1. FPC to NRC Letter, 3F1001-03, dated October 19, 2001, "Crystal River Unit 3 – Special Report 01-01, Once Through Steam Generator (OTSG) Notifications Required Prior to MODE 4"
2. FPC to NRC Letter, 3F0601-07, dated June 28, 2001, "Crystal River Unit 3 - Contingency Letter of Commitment Regarding License Amendment Request #252, Revision 0, Once Through Steam Generator Tube Surveillance Program, Tube Repair Roll (Re-Roll) Process" (TAC No. MB 1519)

Dear Sir:

Florida Power Corporation (FPC) is hereby submitting Special Report 02-01, Results of the Once Through Steam Generator (OTSG) Tube Inservice Inspection conducted during Refueling Outage 12. This report is provided in accordance with Improved Technical Specification (ITS) 5.7.2.e, which requires submittal of the report to the NRC within 90 days following output breaker closure. Breaker closure for Crystal River Unit 3 (CR-3) occurred on October 25, 2001.

Special Report 02-01 contains the following information:

1. Number and extent of tubes inspected,
2. Location and percent of wall-thickness penetration for each indication of an imperfection,
3. Location, bobbin coil amplitude, and axial and circumferential extent (if determined) for each first span IGA (Intergranular Attack) indication, and
4. Identification of tubes plugged or repaired and specification of the repair methodology implemented for each tube.

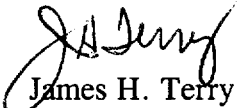
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Special Report 02-01 also provides information to satisfy a commitment made by FPC in Reference 2 to include a summary of the best-estimate leakage following a Large Break Loss-of-Coolant Accident (LBLOCA).

This letter establishes no new regulatory commitments.

If you have any questions regarding this submittal, please contact Mr. Sid Powell, Supervisor, Licensing and Regulatory Programs at (352) 563-4883.

Sincerely,


James H. Terry
Engineering Manager

JHT/lvc

Attachment:

Special Report 02-01, Results of the Once Through Steam Generator (OTSG) Tube Inservice Inspection Conducted During Refueling Outage 12

xc: NRR Project Manager
Regional Administrator, Region II
Senior Resident Inspector

ATTACHMENT

SPECIAL REPORT 02-01

RESULTS OF THE ONCE THROUGH STEAM GENERATOR (OTSG)

TUBE INSERVICE INSPECTION

CONDUCTED DURING REFUELING OUTAGE 12

Table of Contents

Attachment - Special Report 02-01, Results of the Once Through Steam Generator (OTSG) Tube Inservice Inspection Conducted During Refueling Outage 12

Appendix 1 – Tubes Left In Service with Through-Wall Indications

Appendix 2 – First Span IGA OTSG-B

Appendix 3 – Tubes Plugged

Appendix 4 - Tubes Repaired (Re-Rolled)

Appendix 5 – Tubes with Tube End Cracks (TEC) Remaining In Service

Appendix 6 – Axial Extent of New IGA Indications

Circumferential Extent of New IGA Indications

SPECIAL REPORT 02-01

RESULTS OF THE ONCE THROUGH STEAM GENERATOR (OTSG) TUBE INSERVICE INSPECTION CONDUCTED DURING REFUEL OUTAGE 12

Introduction

Inservice inspection (ISI) of the Crystal River Unit 3 (CR-3) Once Through Steam Generator (OTSG) tubes was performed during Refuel Outage 12 (12R), September 29 through October 25, 2001. In accordance with Improved Technical Specifications (ITS) Section 5.7, Reporting Requirements, Florida Power Corporation (FPC) is submitting Special Report 02-01. Figure 1 is a diagram of a typical OTSG.

ITS Section 5.7.2.e states:

The complete results of the OTSG tube inservice inspection shall be submitted to the NRC within 90 days after breaker closure following restart. The report shall include:

- 1. Number and extent of tubes inspected,*
- 2. Location and percent of wall-thickness penetration for each indication of an imperfection,*
- 3. Location, bobbin coil amplitude, and axial and circumferential extent (if determined) for each first span IGA indication, and*
- 4. Identification of tubes plugged or repaired and specification of the repair methodology implemented for each tube.*

The following information is presented to comply with Section 5.7.2.e reporting requirements:

1. Number and extent of tubes inspected.

The eddy current testing (ECT) inspection plan and selection of techniques for OTSG tubes were designed to detect certain degradation mechanisms for each area of the OTSG. The ISI of the OTSG tubes during 12R satisfies the requirement of ITS Section 5.6.2.10, "Steam Generator (OTSG) Tube Surveillance Program." The OTSG tubes were inspected using techniques qualified in accordance with industry protocol, Electric Power Research Institute (EPRI) "PWR Steam Generator Examination Guidelines," Revision 5, Appendix H.

Two ECT techniques were used to inspect the OTSG tubes as detailed below, and in Table 1. The type of probe used categorizes ECT techniques as either bobbin coil or motorized rotating pancake coil (MRPC). The bobbin coil is primarily used to inspect the entire length of the tube for initial screening. Indications that cannot be characterized with the bobbin coil are further characterized using MRPC (PlusPoint™ is a Zetec

trademark for a MRPC coil consisting of two cross wound coils, one sensitive to axial indications and one sensitive to circumferential indications.) MRPC is primarily used to detect primary water stress corrosion cracking (PWSCC), intergranular attack (IGA), and outside diameter stress corrosion cracking (ODSCC). MRPC is used in the upper tube sheet region, lower tube sheet (LTS) region and roll transition areas of sleeved tubes.

Prior to the 12R ISI, CR-3 had 15,165 tubes in service in OTSG-A and 14,669 tubes in service in OTSG-B. Of the tubes in service, 163 tubes in OTSG-A and 159 tubes in OTSG-B are sleeved from the upper tubesheet (UTS) to the 15th tube support plate (TSP).

The bobbin coil was used to inspect 100% of the tubes in service and the non-sleeved portion of sleeved tubes. MRPC was used to inspect specific areas of the tubes as detailed in Table 1. The table shows the area examined and the number of tubes inspected in each OTSG.

Table 1

AREA EXAMINED	OTSG A	OTSG B
100% Full Length Bobbin Coil Of All Tubes Inservice	15165	14669
100% MRPC Upper Roll Transition Of The Non-Sleeved Tubes Inservice	15165	14669
20% MRPC Lane/Wedge Region.	20	20
100% MRPC Of The I-600 Plugs	20	47
100% MRPC Of The Post-Fabrication Re-Rolled Tubes	2	2
100% MRPC Of The Dings Adjacent To Explosively Plugged Tubes	20	94
100% MRPC In The Lower Tube Sheet Critical Area	428	0
20% MRPC Dented Tubes Within The Kidney Region	292	445
100% OTSG-B, MRPC Of The Inservice Sleeves	33	159
20%, OTSG-A, MRPC Of The Inservice Sleeves		
40% Bobbin Coil of The Inservice Sleeves	66	0
100% MRPC Of The Inservice Tubes With IGA In The First Span	0	157
20% MRPC of Dents	24	18

Inspection Summary

The inspection resulted in the A and B OTSG being classified as Category C-2, in accordance with ITS 5.6.2.10. The specific areas inspected with MRPC were calculated independently for categorization to identify if further actions were necessary (scope expansion) to determine the extent of degradation. The UTS MRPC inspection result for

the UTS roll area was Category C-3. The UTS is considered a "Specific Limited Area" as defined in the Improved Technical Specifications, Section 5.6.2.10.d. Since the UTS had already received the required 100% inspection, no expansion of the sample area was required. The calculation for the overall categorization of the OTSG inspection results did not include the UTS, as detailed in ITS Section 5.6.2.10.d.

2. Location and percent of wall-thickness penetration for each indication of an imperfection.

Percent through-wall degradation is only assigned to tube support plate wear indications and OTSG-B first span IGA indications. A complete list of inspection results for inservice tubes with indications 1% to 39% through-wall in OTSG-A and OTSG-B is provided in Appendix 1 of this report. A complete listing of tubes with first span IGA indications in OTSG-B is provided in Appendix 2.

3. Location, bobbin coil amplitude, and axial and circumferential extent (if determined) for each first span IGA indication.

First span IGA is a degradation mechanism specific to OTSG-B. Prior to the 2001 inspection, there were 154 known tubes with first span IGA in service. As a result of this inspection, six indications not previously recorded were identified within the population of 154 tubes. The indications were verified to be present in the 1997 inspection data and therefore did not require repair. Twenty-nine (29) additional tubes were identified with first span IGA. Appendix 6 provides a distribution of axial and circumferential extents of new first span IGA indications identified in these 29 tubes. Of these 29 tubes, eight tubes were plugged (i.e., seven tubes had previous sizing data, and one tube could not be regressed). The remaining 21 tubes with indications were traceable to the 1992 inspection data and the regression technique was applied for sizing. The 21 tubes were left in service and added to the population of first span IGA tubes to be examined in the next outage because the growth of those indications was less than 10%. There are a total of 175 tubes in OTSG-B in service with first span IGA. Appendix 2 contains the list of tubes in OTSG-B with first span IGA.

4. Identification of tubes plugged or repaired and specification of the repair methodology implemented for each tube.

Plugged

Tubes identified with unacceptable indications were plugged by using a threaded plug rolled into both ends of the tube. A total of 14 tubes in OTSG-A and 27 tubes in OTSG-B were removed from service by plugging. A complete list of plugged tubes in OTSG-A and OTSG-B is provided in Appendix 3.

Re-rolls

Tubes with unacceptable indications in the UTS within the roll-transition area were repaired using a repair roll (re-roll) as described in ITS 5.6.2.10.11.b. Re-rolling repaired a total of 53 tubes in OTSG-A and 256 tubes in OTSG-B (2 of the 256 tubes in

OTSG-B were over expanded and were plugged thus, 254 of the re-rolled tubes in OTSG-B were left in service). A complete list of tubes repaired by the re-roll method in OTSG-A and OTSG-B is provided in Appendix 4.

Sleeves

No tubes were sleeved during the 2001 OTSG inspection.

Alternate Repair Criteria

The NRC approved an Alternate Repair Criteria (ARC) for CR-3 via License Amendment No. 188 issued October 1, 1999, for tubes with axially oriented tube end cracks (TEC) within the Inconel clad region of the primary face of the UTS. The ARC is applied using the method described in Topical Report BAW-2346P, Revision 0. The through-wall extent of the TEC is conservatively assumed to be 100%. Therefore, a leakage value based on tubesheet radial position has been assigned to each TEC to calculate the potential primary-to-secondary leakage in the event of a design basis accident. Other indications of wall loss or cracking are plugged or repaired on detection and are not assigned a percent wall penetration.

Following this inspection, 830 tubes with a total of 1,118 indications in OTSG-A, and 675 tubes with a total of 840 indications in OTSG-B were left in service using the ARC. The ARC leakage limit for OTSG A is 0.504 gpm at room temperature and 0.556 gpm at room temperature for OTSG-B.

A complete list of the tubes remaining in service with TEC is in Appendix 5.

In-Situ Pressure Test

No indications exceeded the screening criteria for in-situ pressure testing, however, FPC performed in-situ pressure testing in one tube in OTSG-A. The tube was selected due to multiple freespan IGA indications between the 14th and 15th tube support plates.

The test pressure was to simulate a Main Steam Line Break accident with a margin of safety of three (3) times normal operating differential pressure. No leakage from the tubes occurred during the in-situ pressure test. The tube was plugged following the in-situ pressure test.

Best-Estimate Leakage Following a Large Break Loss-of-Coolant Accident (LBLOCA)

Following the 12R inspection of the UTS roll region, the best-estimate leakage following a LBLOCA that could occur from as-found circumferential cracking near the UTS rolls has been determined to be 0.82 gpm in OTSG-A and 3.58 gpm in OTSG-B. This estimated leakage has been evaluated and would not exceed the offsite dose limits of 10 CFR 100.

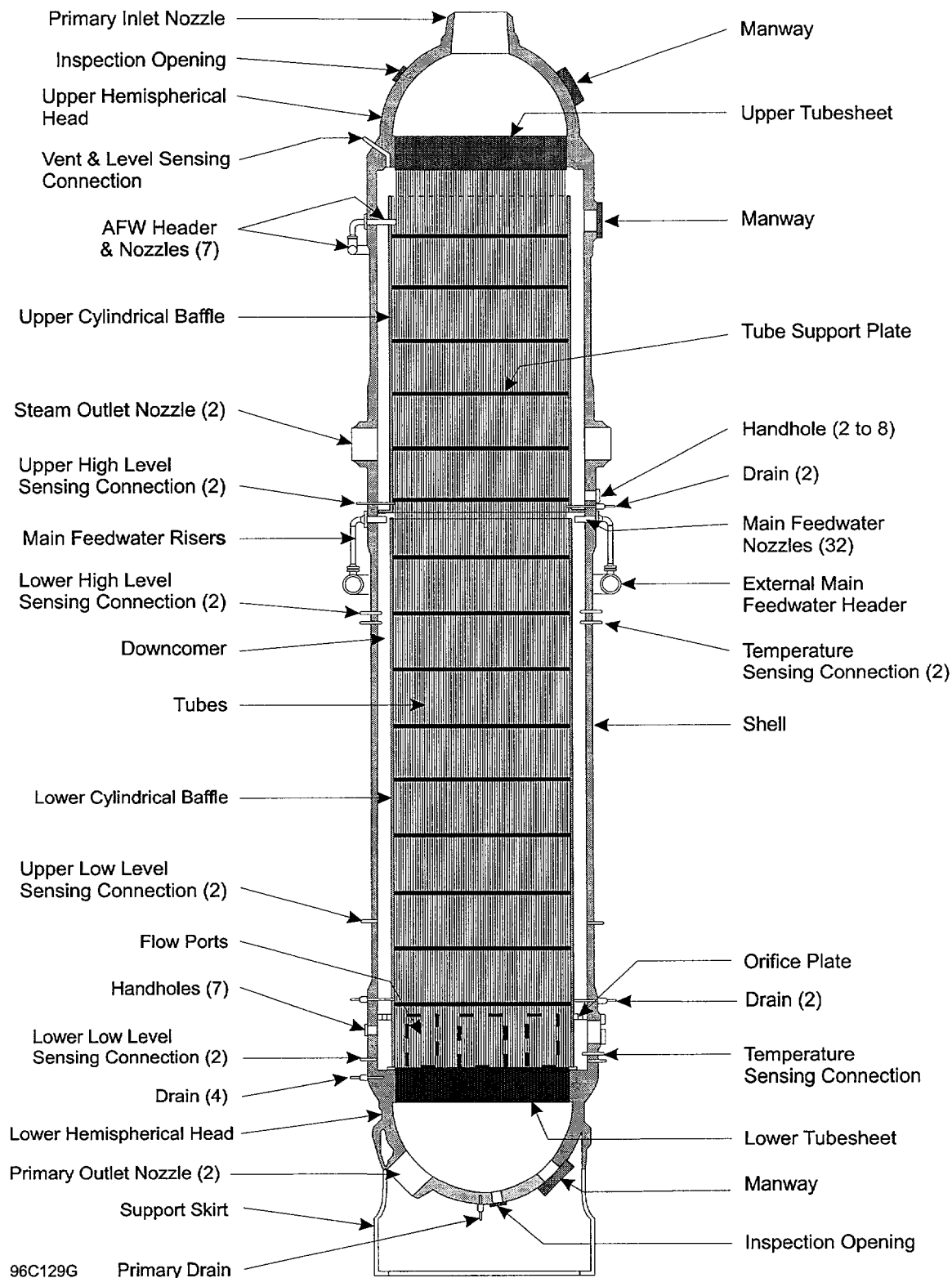
Conclusion

The Condition Monitoring Assessment concluded that the CR-3 OTSG tubes met the OTSG Performance Criteria used for steam generators for tube structural integrity, accident-induced leakage, and operational leakage. Operational Assessment (OA) evaluated the as-found degradation mechanisms of the CR-3 OTSG tubes. The OA concluded that the tubes would maintain structural integrity with reasonable assurance throughout fuel cycle 13. This is based on the inspection results, in-situ testing, 100% full-length bobbin coil, and UTS MRPC inspection of the inservice tubes.

The bobbin coil inspection resulted in Category C-2 as described in ITS 5.6.2.10. The overall classification for the inspection performed was C-2 for both steam generators. The classification of the 100% upper tube end "Specific Limited Area" inspections in both steam generators was C-3. The UTS calculation was not included in the overall categorization of the OTSGs, as previously discussed.

Therefore, based on inspection results and the OA of the structural and leakage integrity of in service OTSG tubing, the planned inspection interval between 12R and 13R of 24 months meets the requirements of the CR-3 Steam Generator Integrity Program.

ONCE-THROUGH STEAM GENERATOR



SPECIAL REPORT 02-01

**RESULTS OF THE ONCE THROUGH STEAM GENERATOR
TUBE INSERVICE INSPECTION CONDUCTED
DURING REFUEL OUTAGE 12**

APPENDIX 1

**TUBES LEFT IN SERVICE WITH
THROUGH-WALL (TW)INDICATIONS
1%-39%**

Appendix Location Acronyms

**LTS- Lower Tubesheet
S- Tube Support Plate**

Tubes In Service with Through-wall Indications 1%-39%
OTSG A

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
2	8	0.70	86	12	12S	+0.67
2	9	0.33	82	7	12S	+0.71
4	28	0.29	84	6	08S	+0.74
5	34	0.40	75	7	12S	+0.65
5	36	0.54	47	10	12S	+0.62
5	41	0.60	99	11	12S	+0.67
5	45	0.76	85	13	12S	+0.70
		0.45	83	8	12S	+0.64
6	10	0.47	91	9	12S	+0.67
6	25	0.51	134	9	09S	+0.65
6	26	0.55	68	9	09S	+0.63
6	51	0.39	144	8	13S	+0.64
7	21	0.68	79	9	11S	+0.72
7	24	0.70	48	13	07S	-0.78
7	26	0.29	82	7	04S	+0.74
		0.44	91	8	04S	-0.75
		1.16	71	20	08S	+0.75
		0.82	60	15	09S	+0.63
		1.05	69	18	08S	-0.65
		0.82	60	15	09S	+0.63
		0.76	84	14	08S	-0.78
7	27	0.75	79	9	08S	+0.65
		0.34	97	4	07S	-0.81
7	44	0.53	66	9	04S	+0.73
		0.23	94	5	04S	+0.64
7	52	0.53	41	10	10S	+0.68
8	21	0.51	81	10	07S	+0.68
8	22	0.30	104	6	07S	+0.67
8	23	0.47	60	6	12S	+0.70
8	27	0.62	74	8	07S	-0.76
8	28	0.38	80	8	08S	-0.65
		0.65	100	12	08S	+0.48
		0.85	86	15	09S	+0.55
		0.85	86	15	07S	+0.72
8	29	0.54	65	7	07S	-0.76
8	30	0.48	92	10	07S	-0.72
		0.46	67	9	07S	+0.61
8	51	0.54	56	10	12S	+0.75
		0.34	103	7	12S	+0.64
9	42	0.21	75	5	08S	+0.63
9	53	0.18	133	4	07S	+0.67

Tubes In Service with Through-wall Indications 1%-39%
OTSG A

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
9	61	0.42	76	9	12S	+0.58
10	6	0.45	79	8	12S	+0.67
10	57	0.36	96	7	07S	+0.64
11	1	0.45	76	8	12S	+0.65
11	7	0.69	80	12	12S	+0.72
11	14	0.26	78	5	08S	+0.69
11	58	0.86	62	11	12S	+0.81
		0.34	54	7	12S	+0.67
12	1	0.40	94	7	09S	-0.74
12	7	0.33	93	6	07S	-0.84
12	18	0.13	97	2	07S	+0.64
		0.27	104	5	07S	-0.76
12	28	0.37	28	6	08S	+0.81
		0.31	99	6	08S	+0.67
12	70	0.64	55	13	10S	+0.60
13	6	0.28	96	5	07S	-0.76
13	9	0.37	86	6	07S	-0.76
13	69	0.35	43	8	08S	+0.65
14	1	0.66	81	8	11S	+0.67
		0.30	54	6	11S	+0.67
14	8	0.47	94	9	07S	-0.76
14	70	0.66	76	8	10S	+0.71
		0.35	98	8	10S	+0.71
15	30	0.72	89	9	06S	+0.67
16	5	0.25	111	5	07S	-0.77
16	8	0.22	98	4	07S	-0.79
16	9	0.40	76	7	07S	-0.78
16	77	0.37	112	7	09S	-0.73
17	8	0.42	94	8	07S	-0.79
17	70	0.22	64	4	07S	+0.67
17	75	0.43	42	8	08S	+0.60
18	74	0.57	80	10	06S	+0.62
19	3	0.57	78	11	12S	+0.68
19	7	0.61	62	8	12S	+0.72
		0.29	56	6	12S	+0.72
19	75	0.39	31	8	07S	+0.63
19	76	0.40	87	8	07S	+0.71
22	59	0.39	76	7	10S	+0.71
24	7	0.39	76	8	12S	+0.65
24	88	0.32	82	6	08S	+0.54
		0.44	96	8	08S	-0.78

Tubes In Service with Through-wall Indications 1%-39%
OTSG A

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
		0.46	62	8	07S	+0.65
24	92	0.67	98	9	08S	+0.71
		0.47	61	8	08S	+0.71
25	7	0.37	76	7	08S	-0.82
25	89	0.31	82	6	07S	+0.39
26	90	0.58	72	10	08S	+0.58
26	92	0.71	85	9	09S	-0.73
		0.41	69	7	09S	-0.86
26	94	0.47	49	8	08S	-0.77
26	95	0.53	89	11	08S	-0.77
27	93	0.56	111	9	08S	+0.54
27	98	0.40	83	8	08S	-0.79
28	8	0.63	74	8	07S	-0.76
		0.21	78	4	07S	-0.76
28	9	0.18	88	5	07S	-0.80
28	55	0.39	63	7	03S	+0.67
29	98	0.31	92	7	12S	+0.63
29	104	0.57	91	12	11S	+0.66
30	103	0.41	86	7	08S	-0.82
		0.59	74	13	08S	-0.75
31	11	0.47	118	9	09S	+0.50
31	32	0.96	89	16	10S	+0.69
31	49	0.31	42	6	07S	+0.75
		0.24	53	5	07S	+0.70
32	101	0.50	78	8	04S	+0.61
32	105	0.55	48	9	08S	+0.66
33	4	0.79	92	10	08S	-0.69
		0.22	92	5	08S	-0.82
33	19	0.91	68	11	02S	+0.68
		0.31	91	6	02S	+0.68
33	104	0.40	49	8	08S	-0.82
34	86	0.45	117	8	15S	+0.56
34	106	0.26	93	4	09S	+0.67
35	11	0.39	80	8	12S	+0.65
35	86	0.52	59	9	03S	+0.69
36	9	1.06	87	13	07S	+0.67
		0.38	90	8	07S	+0.67
36	73	0.48	92	9	03S	+0.66
36	113	0.50	45	9	02S	-0.77
37	113	0.60	78	15	11S	+0.71
		1.02	73	18	11S	+0.71

Tubes In Service with Through-wall Indications 1%-39%
OTSG A

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
37	114	0.26	103	5	11S	+0.71
38	3	0.56	98	7	08S	-0.79
		0.28	81	6	08S	-0.79
38	5	0.66	67	8	08S	-0.79
		0.33	114	6	08S	-0.79
40	7	0.13	50	3	08S	-0.79
40	116	0.29	71	6	08S	+0.67
41	58	0.38	36	7	03S	+0.69
41	116	0.64	79	12	12S	+0.59
		0.58	96	11	11S	-0.67
44	118	0.23	73	4	08S	+0.62
45	65	0.23	78	5	04S	+0.71
45	115	0.62	96	14	07S	+0.69
		0.47	61	9	07S	+0.60
46	24	0.43	83	8	03S	+0.67
46	112	0.68	55	12	08S	+0.63
46	114	0.34	89	7	08S	+0.60
47	4	0.45	68	9	11S	+0.62
		1.05	61	13	11S	+0.63
49	122	0.21	94	5	14S	-0.73
		0.39	50	8	14S	-0.85
50	5	1.44	74	17	09S	+0.63
		0.31	92	6	09S	+0.63
52	5	0.44	99	9	09S	+0.66
52	6	0.48	78	9	09S	+0.68
52	11	0.52	78	10	03S	+0.72
53	5	0.33	84	7	09S	+0.64
53	119	0.44	71	10	08S	+0.75
		0.37	93	7	08S	+0.61
54	4	0.34	94	7	09S	+0.63
55	96	0.63	70	11	03S	+0.69
55	119	0.48	64	9	08S	+0.67
56	1	0.42	82	9	12S	+0.60
56	3	0.45	86	10	10S	+0.62
56	5	0.57	95	11	09S	+0.65
57	1	1.13	62	17	10S	+0.75
		0.53	57	8	10S	-0.75
		0.30	114	5	10S	+0.67
57	2	0.49	95	9	08S	+0.72
57	127	0.80	103	14	10S	+0.64
58	128	0.40	55	8	10S	+0.67

Tubes In Service with Through-wall Indications 1%-39%
OTSG A

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
59	2	0.55	88	10	08S	+0.65
60	1	0.40	80	7	10S	+0.67
60	42	0.39	71	7	09S	+0.74
60	84	0.22	114	4	04S	-0.41
		0.29	43	5	04S	-0.35
61	1	0.28	112	5	10S	+0.67
		0.59	114	10	09S	+0.63
61	124	0.81	89	13	10S	+0.65
		0.36	80	6	08S	-0.82
62	4	0.42	127	7	07S	-0.76
62	7	0.91	63	14	10S	+0.75
		0.39	73	9	10S	+0.75
62	124	0.56	89	7	08S	+0.67
62	128	0.54	88	7	08S	+0.00
		0.93	92	15	10S	+0.00
63	124	0.39	97	8	07S	-0.73
63	128	0.46	81	9	10S	+0.60
		0.48	66	9	08S	-0.74
64	1	0.33	65	6	06S	-0.79
64	8	0.43	66	8	10S	+0.75
		0.31	73	7	10S	+0.72
64	114	0.27	78	5	04S	+0.00
64	128	0.27	106	5	12S	-0.73
65	87	0.44	77	8	04S	+0.69
65	122	0.32	99	6	08S	+0.43
65	128	0.52	73	10	08S	-0.76
65	129	0.34	86	3	08S	-0.78
		0.61	86	9	10S	+0.00
66	14	0.93	73	16	11S	+0.75
		0.35	105	8	11S	+0.68
66	126	0.31	89	6	07S	-0.79
66	128	0.30	91	7	08S	-0.69
		0.48	68	9	08S	-0.86
66	130	0.31	73	6	12S	-0.77
67	6	0.25	91	5	10S	+0.72
67	62	0.62	96	14	10S	+0.79
67	129	0.54	96	7	10S	+0.58
68	3	0.40	87	8	11S	+0.68
68	12	0.33	90	7	11S	+0.70
68	15	0.32	59	7	11S	+0.67
		1.71	69	24	11S	+0.75

Tubes In Service with Through-wall Indications 1%-39%
OTSG A

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
68	16	0.44	78	10	11S	+0.70
68	22	0.44	102	10	12S	+0.68
68	129	0.34	96	6	10S	+0.63
68	130	0.32	34	9	08S	-0.72
		0.45	75	8	11S	-0.81
		0.37	69	7	08S	-0.83
69	4	0.54	83	10	11S	+0.70
69	5	0.43	73	8	11S	+0.65
69	14	0.42	92	9	11S	+0.64
		0.25	93	6	11S	+0.70
69	131	0.40	108	8	10S	+0.48
70	5	0.37	84	7	11S	+0.69
70	13	0.42	67	9	10S	+0.74
		0.77	72	15	11S	+0.74
		0.30	74	7	10S	+0.68
		0.33	71	8	11S	+0.68
70	14	0.32	78	7	11S	+0.67
70	16	0.38	87	7	11S	+0.69
70	30	0.45	75	10	11S	+0.70
70	130	0.28	59	5	11S	-0.86
71	13	0.30	90	5	11S	+0.65
71	14	0.74	71	14	11S	+0.72
		0.38	87	9	11S	+0.68
71	17	0.23	59	3	11S	+0.69
71	22	0.69	71	14	11S	+0.71
		0.50	88	12	11S	+0.68
71	128	0.34	77	8	10S	-0.52
		0.42	101	8	15S	-0.61
		0.39	101	7	10S	-0.70
71	129	0.60	94	8	09S	+0.29
		0.47	90	8	10S	+0.56
71	130	0.24	87	7	08S	-0.75
		0.47	81	9	08S	-0.84
72	3	0.52	81	9	12S	+0.69
72	12	0.24	91	5	11S	+0.65
72	13	1.05	78	19	11S	+0.72
		0.48	74	12	11S	+0.68
72	23	0.67	74	11	07S	+0.76
		0.30	100	7	07S	+0.66
72	31	0.41	88	8	12S	+0.65
72	38	0.34	90	6	11S	+0.67

Tubes In Service with Through-wall Indications 1%-39%
OTSG A

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
72	58	0.80	82	15	11S	+0.76
72	91	0.18	123	2	04S	+0.53
		0.19	74	4	04S	+0.46
72	127	0.57	90	8	10S	-0.67
73	20	0.29	61	7	12S	+0.68
73	22	0.47	75	12	11S	+0.68
73	41	0.49	77	8	12S	+0.72
73	57	0.22	77	4	10S	+0.78
73	61	0.43	68	8	07S	+0.71
73	128	0.86	86	13	10S	-0.86
		0.52	95	7	09S	+0.41
		0.34	89	3	08S	-0.81
74	123	0.35	49	8	11S	-0.01
		0.38	70	9	11S	+0.63
		0.37	94	3	08S	-0.15
		0.28	95	5	11S	-0.02
74	124	0.40	88	8	10S	+0.58
75	29	0.55	90	7	07S	-0.70
75	73	0.57	65	10	07S	-0.79
75	89	0.34	97	7	04S	+0.71
		0.39	78	7	04S	+0.63
75	123	0.46	99	5	11S	-0.53
		0.58	93	8	10S	-0.62
76	122	1.54	77	32	09S	+0.56
		0.59	104	8	09S	+0.56
76	123	0.62	99	9	10S	+0.59
		0.30	97	5	11S	-0.02
		0.23	93	4	10S	-0.78
77	17	0.55	82	10	07S	-0.82
77	65	0.24	77	5	09S	-0.68
		0.15	90	3	09S	+0.73
77	76	0.56	46	10	07S	-0.86
77	80	0.43	55	8	05S	+0.63
		0.28	77	5	05S	-0.69
		0.41	49	8	04S	+0.65
		0.48	66	9	04S	-0.69
77	86	0.30	49	6	04S	+0.61
78	123	0.90	91	10	08S	-0.65
78	125	0.82	114	9	09S	-0.45
		0.47	90	5	09S	+0.47
79	19	0.34	95	6	10S	-0.76

Tubes In Service with Through-wall Indications 1%-39%
OTSG A

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
		0.21	74	4	06S	+0.71
79	29	0.43	75	8	10S	-0.78
79	35	0.33	80	7	10S	-0.80
79	38	0.25	71	5	10S	-0.77
79	95	0.46	73	7	04S	+0.70
79	128	0.33	90	5	10S	-0.78
		0.71	91	10	10S	+0.56
79	129	0.91	88	10	11S	-0.88
80	17	0.29	85	5	10S	-0.72
80	29	0.41	89	4	10S	-0.76
80	43	0.27	86	4	11S	+0.66
80	66	0.29	84	6	07S	-0.72
80	131	0.40	88	6	11S	-0.84
81	22	0.36	49	4	10S	-0.75
		0.30	113	6	10S	-0.80
81	29	0.41	90	4	10S	-0.79
81	30	0.40	94	7	10S	-0.81
81	34	0.39	93	6	10S	-0.74
81	46	0.31	131	7	10S	-0.67
81	48	0.30	110	6	10S	-0.74
81	51	0.40	79	6	08S	-0.78
		0.63	68	10	08S	-0.70
81	52	0.28	98	6	10S	-0.69
81	73	0.21	55	5	09S	-0.75
81	130	0.69	89	7	11S	-0.81
		0.56	77	6	10S	-0.77
		0.77	98	8	09S	+0.66
82	43	0.44	79	6	08S	-0.76
82	45	0.21	72	3	10S	+0.70
82	53	0.28	81	4	10S	+0.72
82	58	0.33	81	7	10S	+0.75
		0.44	94	5	10S	+0.75
82	60	0.20	72	4	10S	+0.77
		0.70	69	7	10S	+0.73
82	94	0.94	97	11	04S	+0.68
		0.27	87	1	04S	+0.65
82	128	0.23	97	4	09S	+0.24
		0.57	83	8	09S	+0.32
82	129	1.27	74	16	11S	-0.75
		0.33	75	6	11S	-0.79
83	13	0.35	80	3	11S	-0.72

Tubes In Service with Through-wall Indications 1%-39%
OTSG A

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
83	26	0.39	71	7	08S	-0.76
83	30	0.39	42	7	10S	-0.81
83	53	0.38	83	8	10S	+0.71
83	54	0.34	80	5	10S	+0.70
83	63	0.20	78	4	09S	+0.78
		0.57	62	6	09S	+0.72
83	67	0.17	84	4	08S	-0.68
		0.82	88	9	08S	-0.75
83	73	0.34	69	7	08S	-0.66
84	51	0.97	62	22	10S	-0.61
		0.50	88	7	10S	-0.72
		0.73	61	18	10S	-0.65
84	54	0.38	86	8	10S	-0.71
		0.78	44	19	10S	-0.65
		0.54	48	14	10S	-0.63
84	56	0.32	96	7	10S	-0.73
		1.25	73	27	10S	-0.63
		0.52	72	13	10S	-0.63
84	59	0.42	105	9	10S	-0.66
		0.24	86	5	10S	+0.71
84	60	0.40	97	8	10S	-0.62
84	61	0.29	107	6	10S	-0.58
		0.41	94	18	10S	-0.54
84	66	0.46	77	9	07S	-0.73
84	82	0.61	57	7	04S	+0.70
		0.35	127	3	04S	+0.66
85	9	0.45	91	5	08S	-0.74
85	21	0.24	84	4	10S	-0.74
85	25	0.22	95	4	10S	-0.83
85	27	0.36	104	7	10S	-0.78
85	28	0.37	74	3	10S	-0.74
85	49	0.30	76	5	10S	+0.72
85	50	0.38	73	7	10S	+0.73
86	51	0.32	88	5	10S	-0.72
		0.81	64	20	10S	-0.59
		0.38	70	10	10S	-0.71
86	131	0.26	73	4	11S	-0.71
87	35	0.72	81	11	10S	-0.72
87	39	0.22	79	3	10S	-0.72
87	122	0.38	94	5	07S	+0.62
88	53	0.56	86	9	09S	+0.72

Tubes In Service with Through-wall Indications 1%-39%
OTSG A

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
89	73	0.24	89	4	04S	+0.65
89	106	0.83	113	13	06S	-0.17
		0.25	65	4	06S	-0.15
90	9	0.40	83	4	08S	-0.77
90	82	0.40	79	6	04S	+0.67
91	29	0.37	61	5	01S	-0.71
		0.30	88	6	01S	-0.73
92	16	0.47	102	6	06S	+0.74
		0.29	93	4	06S	+0.70
92	57	0.19	101	4	06S	+0.75
		0.21	79	10	06S	+0.65
92	89	0.27	88	5	04S	+0.67
92	92	0.72	66	8	04S	+0.69
		0.40	63	6	04S	+0.72
92	127	1.17	84	12	04S	+0.66
		1.45	90	18	04S	+0.75
93	88	0.37	75	6	04S	+0.67
94	11			30		
94	46	0.17	97	3	07S	-0.79
		0.49	88	7	07S	-0.75
94	75	0.36	68	6	04S	+0.75
94	129	0.71	71	10	08S	-0.77
		0.37	57	5	11S	-0.83
95	74	0.28	125	7	04S	+0.79
95	87	0.54	76	9	04S	+0.67
95	123	0.65	126	7	09S	-0.82
95	125	0.86	50	9	04S	+0.64
96	70	0.53	66	8	04S	+0.68
96	123	0.27	41	4	07S	-0.80
96	127	0.44	65	6	10S	-0.69
97	123	0.62	92	7	09S	-0.88
98	125	0.34	33	5	09S	-0.83
101	79	0.46	66	7	04S	+0.65
102	123	0.50	97	7	10S	-0.69
		0.48	43	7	10S	-0.74
105	5	0.25	87	3	07S	-0.83
106	4	0.21	93	3	07S	-0.74
		0.25	92	3	07S	-0.66
106	7	0.25	98	4	07S	-0.78
107	15	0.56	82	9	14S	-0.79
107	31	0.25	66	4	09S	+0.64

Tubes In Service with Through-wall Indications 1%-39%
OTSG A

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
		0.30	75	5	03S	+0.70
		0.63	66	10	03S	+0.71
109	98	0.29	104	5	07S	-0.80
109	117	0.31	71	6	10S	-0.84
111	48	0.29	78	8	05S	-0.79
112	93	0.46	84	11	15S	-0.84
113	72	0.96	121	11	04S	+0.68
		0.30	73	7	04S	+0.67
113	111	0.28	92	6	07S	-0.80
114	109	0.32	79	5	07S	-0.76
115	47	0.30	55	8	05S	-0.88
115	50	0.32	94	11	05S	-0.82
115	63	0.23	75	3	05S	-0.79
116	6	0.40	74	6	07S	-0.61
116	110	0.55	42	9	07S	-0.80
117	1	0.29	53	4	08S	+0.74
117	34	0.32	78	5	05S	-0.81
118	101	0.41	139	8	07S	-0.80
119	2	0.22	75	4	10S	-0.43
119	3	0.23	73	3	08S	+0.72
119	102	0.54	67	9	07S	-0.74
120	1	0.44	61	7	08S	+0.83
120	2	0.28	30	8	13S	-0.73
		0.28	70	5	13S	-0.82
121	2	0.26	75	5	08S	+0.76
		0.52	52	7	08S	+0.67
121	94	0.29	33	5	09S	-0.87
121	105	0.88	5	16	10S	+0.78
122	1	0.27	72	5	11S	-0.78
		0.68	89	9	11S	-0.68
122	104	0.36	103	6	09S	+0.63
123	1	0.50	102	9	11S	-0.76
		0.21	104	4	12S	+0.63
		0.24	81	4	08S	+0.74
125	63	0.52	83	9	08S	+0.65
125	80	0.64	55	13	04S	+0.64
126	92	0.47	112	9	07S	-0.82
127	60	1.14	76	10	09S	+0.71
		0.40	70	8	09S	+0.68
127	71	0.61	94	7	09S	+0.67
		0.37	62	8	09S	+0.79

Tubes In Service with Through-wall Indications 1%-39%
OTSG A

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
129	3	0.57	71	10	12S	+0.66
		0.32	61	6	12S	+0.72
131	72	1.28	100	15	07S	+0.62
		0.33	95	6	07S	+0.67
131	84	0.24	66	4	07S	-0.80
132	15	0.30	81	5	14S	-0.82
		0.25	52	7	14S	-0.67
133	1	0.27	98	5	10S	-0.70
		0.62	103	8	10S	-0.64
133	2	0.44	111	8	10S	-0.82
133	3	0.33	87	6	10S	-0.78
		1.26	76	16	10S	-0.64
134	3	0.63	87	11	12S	+0.65
135	71	0.96	101	15	09S	-0.80
135	72	0.44	103	6	09S	+0.66
137	1	0.37	97	6	09S	+0.74
		0.88	71	11	09S	+0.68
137	11	0.38	99	5	08S	-0.76
		0.42	52	11	08S	-0.69
138	8	0.33	45	6	09S	-0.80
139	2	0.33	101	6	10S	-0.76
139	47	0.56	42	7	09S	+0.60
139	62	0.27	97	4	11S	-0.83
140	2	0.42	95	8	10S	-0.76
		0.32	63	6	08S	+0.78
140	3	0.67	77	9	10S	-0.70
141	2	0.66	95	12	10S	-0.70
141	3	0.46	95	6	10S	-0.74
143	3	1.10	63	24	15S	+0.55
		1.75	66	24	15S	+0.61
143	47	0.31	51	5	07S	-0.82
143	48	0.37	97	5	07S	-0.79
143	57	0.35	106	6	09S	+0.71
145	47	0.69	130	10	05S	-0.72
145	52	0.46	79	6	12S	+0.64
145	53	0.53	91	7	10S	-0.70
146	7	0.44	62	6	08S	-0.72
		0.57	86	8	08S	+0.72
		0.45	58	12	08S	-0.51
		0.48	96	12	08S	+0.74
146	21	0.45	87	9	07S	-0.74

Tubes In Service with Through-wall Indications 1%-39%
OTSG A

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
146	22	0.44	97	6	07S	-0.70
146	25	0.38	103	8	07S	-0.76
146	26	0.37	111	5	07S	-0.74
146	29	0.44	121	9	07S	-0.78
146	34	0.39	123	5	08S	-0.66
146	50	0.60	86	8	10S	-0.68
147	16	0.31	114	6	07S	-0.76
		1.10	78	10	07S	-0.73
147	30	0.46	68	9	12S	+0.66
		0.53	76	12	12S	+0.63
		0.44	70	3	12S	+0.69
147	31	0.34	131	4	08S	-0.68
		1.32	65	12	08S	-0.68
148	3	0.45	79	9	11S	+0.65
148	23	0.37	103	5	12S	-0.79
149	11	0.50	93	7	08S	-0.70
149	12	0.27	89	6	10S	+0.59
		0.70	60	18	10S	+0.69
		0.45	66	12	10S	-0.69
		0.91	95	8	10S	-0.69
		1.12	85	10	10S	+0.70
149	14	0.45	112	9	10S	-0.68
149	19	0.46	91	6	12S	-0.77
		0.52	104	7	10S	-0.69
149	20	0.49	106	10	10S	-0.74
		1.04	71	23	10S	-0.66
		0.63	87	8	10S	-0.56
149	21	0.44	108	6	10S	-0.71
149	28	0.84	85	16	10S	-0.76
150	7	0.56	82	11	10S	-0.78
150	10	0.28	114	4	10S	-0.77
150	14	0.36	90	4	10S	-0.71
150	16	0.55	90	7	10S	-0.73
150	18	0.46	107	6	10S	-0.62

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
1	5	0.25	95	5	10S	-0.17
		0.58	117	9	10S	-0.11
1	14	0.20	90	3	09S	+0.66
		0.44	70	8	09S	+0.56
2	7	0.75	92	11	11S	+0.62
		0.31	90	6	11S	+0.63
2	10	0.33	103	7	09S	-0.76
		0.53	73	10	09S	-0.61
2	13	0.56	84	8	09S	-0.75
		0.35	60	7	09S	-0.85
2	20	0.34	98	7	10S	-0.77
2	21	0.62	95	11	10S	-0.73
2	26	0.68	90	10	10S	-0.67
		0.27	98	5	08S	-0.78
		0.30	99	6	10S	-0.81
2	27	0.35	110	8	09S	+0.64
		0.28	77	6	07S	-0.76
		0.38	97	8	10S	-0.72
		0.28	69	4	07S	-0.73
		0.79	81	11	09S	+0.63
		0.38	57	6	10S	-0.63
3	1	0.33	81	8	07S	+0.66
3	15	0.36	93	8	09S	+0.68
3	21	0.34	56	7	10S	-0.83
3	24	0.61	100	13	10S	-0.02
		0.23	85	5	09S	-0.85
		0.35	99	6	09S	-0.73
3	26	0.26	92	6	10S	-0.79
		0.74	64	13	10S	-0.62
3	30	0.26	116	6	08S	+0.42
		0.29	79	4	08S	+0.44
4	13	0.46	107	10	08S	-0.63
4	16	0.46	89	8	08S	-0.57
		0.42	80	8	08S	-0.80
4	17	0.43	107	9	09S	+0.58
4	18	0.33	107	6	09S	+0.66
4	19	0.40	102	9	09S	+0.66
4	24	0.57	66	11	09S	-0.85
4	40	0.15	132	28	LTS	+9.82
5	5	0.27	66	6	05S	-0.80
5	26	0.37	84	7	07S	+0.65

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
5	27	0.35	69	8	07S	+0.57
		0.26	66	6	08S	-0.82
		0.44	67	8	08S	-0.75
5	37	0.31	66	6	07S	+0.67
5	38	0.61	86	13	09S	-0.85
		0.35	87	8	07S	+0.68
		0.37	71	6	07S	+0.72
		0.21	46	3	07S	-0.73
5	44	0.43	78	8	09S	-0.89
6	25	0.50	73	7	07S	+0.68
6	36	0.23	96	5	08S	-0.76
6	39	0.29	81	6	08S	+0.68
		0.41	58	6	08S	+0.72
		0.26	75	4	08S	-0.70
6	44	0.63	82	12	09S	-0.78
6	46	0.63	87	12	08S	-0.78
6	49	0.38	94	8	09S	-0.83
		0.82	71	12	09S	-0.73
6	50	0.34	68	6	07S	-0.76
7	10	0.55	111	12	08S	+0.61
7	19	0.16	75	4	08S	-0.82
		0.22	75	5	03S	-0.80
		0.70	60	10	03S	-0.69
		0.39	86	7	08S	-0.55
7	20	0.78	82	13	07S	+0.70
7	26	0.23	79	4	07S	+0.67
		0.76	90	14	07S	+0.67
7	28	0.33	99	5	08S	+0.61
7	29	0.15	71	3	09S	+0.68
		0.53	86	11	09S	-0.82
		0.45	95	10	08S	+0.51
		0.51	91	11	07S	+0.68
		0.52	109	11	07S	-0.78
7	30	1.55	56	22	08S	+0.64
		0.90	63	14	08S	-0.74
		0.96	73	15	09S	-0.74
		1.00	78	16	08S	+0.59
		0.55	76	9	08S	-0.78
		0.44	76	7	07S	-0.76
		0.52	50	9	04S	-0.83
		0.27	127	5	04S	-0.72

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
7	42	0.28	75	6	07S	+0.66
		0.29	94	6	09S	-0.86
		0.26	64	4	07S	+0.73
		0.26	80	4	09S	-0.64
7	44	0.49	136	11	07S	+0.60
		0.67	63	10	07S	+0.74
		0.23	137	3	07S	-0.72
7	52	0.35	92	8	10S	+0.00
		0.33	71	8	09S	-0.80
		0.46	81	7	09S	-0.68
		0.43	75	6	10S	+0.71
8	4	0.52	98	9	10S	-0.75
		0.28	89	6	10S	-0.75
8	7	0.28	81	7	08S	-0.80
8	15	0.53	78	12	07S	+0.66
8	17	0.34	27	6	06S	-0.75
		0.40	108	7	09S	-0.75
		0.20	72	5	09S	-0.84
		0.22	78	5	06S	-0.76
8	34	0.49	76	7	09S	-0.72
		0.23	79	4	09S	-0.81
8	36	0.41	73	6	09S	-0.65
		0.24	80	4	09S	-0.85
8	39	0.49	69	7	09S	-0.72
		0.20	69	3	09S	-0.83
8	43	0.25	98	5	09S	-0.84
		0.48	75	7	09S	-0.75
8	46	0.37	73	7	07S	-0.70
		0.42	52	8	07S	+0.57
8	49	0.38	66	8	08S	+0.57
		0.18	76	4	08S	-0.79
8	51	0.32	90	7	09S	-0.80
		0.32	61	5	09S	-0.73
9	1	0.74	49	13	09S	-0.75
		0.36	77	8	09S	-0.89
9	2	0.89	60	9	12S	+0.59
		0.23	96	5	12S	+0.58
9	4	0.68	35	12	09S	-0.75
		0.34	96	8	09S	-0.87
9	5	0.63	78	12	09S	-0.85
		0.65	96	13	07S	-0.72

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
9	7	0.53	29	10	09S	-0.75
		0.34	96	7	09S	-0.85
9	10	0.24	163	6	09S	-0.87
9	13	0.34	56	6	06S	-0.75
		0.61	76	11	08S	-0.75
		0.45	65	9	08S	-0.78
		0.44	52	9	06S	-0.74
9	16	0.57	95	8	06S	-0.71
		0.94	63	9	08S	+0.43
		0.48	77	9	08S	-0.75
		0.26	53	6	06S	-0.76
		0.30	95	7	08S	+0.53
9	17	0.61	67	12	09S	-0.83
9	18	0.37	59	9	08S	-0.87
9	21	1.25	68	12	08S	+0.19
		0.23	87	5	08S	+0.28
9	46	0.30	85	7	07S	-0.80
		0.19	50	3	07S	-0.68
9	52	0.25	54	5	08S	+0.66
		0.27	104	6	09S	-0.85
		0.53	78	8	09S	-0.72
9	54	0.37	81	8	09S	-0.85
		0.86	73	12	09S	-0.71
10	2	0.49	74	8	03S	-0.71
		0.35	103	5	09S	-0.74
		0.27	76	6	03S	-0.78
		0.34	57	7	09S	-0.81
10	7	0.62	72	14	14S	-0.83
10	12	0.70	80	13	09S	-0.81
10	18	0.26	114	5	09S	-0.75
		0.34	71	7	09S	-0.83
10	27	0.29	89	5	09S	-0.83
		0.34	62	6	09S	-0.68
10	35	0.37	78	6	09S	-0.80
11	2	0.43	39	9	10S	-0.79
11	9	0.32	69	7	08S	-0.89
11	10	0.45	71	8	08S	-0.75
		0.27	101	6	08S	-0.83
11	55	0.46	59	10	08S	-0.75
11	57	0.35	94	8	09S	-0.81
		0.49	65	7	09S	-0.64

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
11	59	0.47	80	10	09S	+0.64
		0.58	43	9	09S	+0.65
11	68	0.43	37	9	07S	-0.83
12	1	0.98	55	13	13S	+0.61
		0.68	78	9	13S	-0.68
		0.38	108	9	08S	-0.89
		0.38	114	9	13S	-0.80
12	4	0.42	64	8	09S	-0.85
12	6	0.65	83	10	09S	-0.71
		0.36	114	7	09S	-0.85
12	7	0.47	66	7	08S	-0.59
		0.52	106	8	09S	-0.70
		0.28	112	7	09S	-0.86
		0.21	76	5	08S	-0.87
12	9	0.75	81	11	08S	-0.65
		0.38	104	9	08S	-0.89
12	37	0.22	67	4	07S	-0.80
		0.38	55	5	07S	-0.72
12	40	0.34	83	8	07S	-0.80
12	59	0.29	90	7	09S	-0.83
		0.40	257	6	09S	-0.70
12	66	0.42	125	6	09S	-0.73
		0.31	82	6	10S	-0.76
		0.30	80	6	09S	-0.83
13	1	0.36	96	10	13S	-0.87
13	9	0.77	61	11	09S	-0.65
		0.54	72	11	08S	-0.85
		0.40	51	8	09S	-0.87
13	10	0.24	67	6	03S	-0.83
13	20	0.29	80	7	07S	-0.72
13	22	0.34	38	6	07S	-0.75
		0.28	73	6	07S	-0.76
13	27	0.35	75	7	03S	-0.89
13	36	0.25	77	4	08S	-0.81
		0.40	64	7	08S	-0.65
13	43	0.76	90	15	09S	-0.82
13	70	0.28	84	6	09S	-0.84
		0.31	76	5	09S	-0.66
13	73	0.25	125	5	09S	+0.68
		0.45	50	9	09S	-0.72
13	74	0.27	84	6	07S	+0.69

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
		0.45	93	7	07S	+0.78
14	5	0.40	62	9	09S	-0.84
14	7	0.46	75	11	09S	-0.87
14	10	0.70	75	10	08S	-0.77
		0.37	106	8	08S	-0.86
14	25	0.28	45	6	03S	-0.78
14	26	0.45	82	9	03S	-0.89
14	27	0.46	76	9	07S	-0.79
14	34	0.66	86	14	07S	-0.76
14	67	0.35	97	8	09S	-0.82
		0.34	94	5	09S	-0.62
14	70	0.55	47	10	07S	-0.74
14	72	0.31	63	6	07S	-0.78
15	3	0.72	46	16	09S	-0.88
15	5	0.70	95	10	08S	-0.71
		0.39	71	8	08S	-0.89
15	7	0.65	52	13	09S	-0.83
15	8	0.33	37	8	09S	-0.87
15	10	0.53	40	11	08S	-0.85
15	32	0.22	51	3	07S	-0.81
		0.28	63	5	07S	-0.64
15	35	0.55	82	9	09S	-0.70
15	64	0.44	106	10	09S	-0.77
15	69	0.59	89	11	07S	+0.65
15	70	0.37	88	8	07S	+0.66
15	73	0.34	37	7	09S	-0.82
15	75	1.25	69	18	10S	+0.58
		0.39	59	8	09S	-0.78
		1.02	126	18	10S	+0.00
		0.31	105	6	09S	+0.50
16	6	0.43	61	10	09S	-0.89
16	10	0.39	56	9	09S	-0.85
16	22	0.09	90	22	LTS	+6.58
16	32	0.33	67	6	03S	-0.76
16	34	0.26	61	4	03S	-0.77
		0.50	75	9	03S	-0.67
16	36	0.18	67	3	07S	-0.81
		0.58	65	8	07S	-0.71
16	38	0.38	72	6	07S	-0.74
16	76	0.60	72	11	07S	-0.74
16	77	0.29	120	6	07S	-0.60

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
		0.44	103	10	09S	+0.56
16	80	0.40	79	8	09S	-0.74
17	5	0.50	49	12	09S	-0.81
17	7	0.49	45	10	09S	-0.87
17	28	0.41	44	7	07S	-0.75
		0.35	38	8	07S	-0.82
17	45	0.45	87	7	09S	-0.70
17	74	0.75	86	16	07S	-0.63
17	77	0.30	120	5	09S	-0.82
17	78	0.41	115	9	09S	+0.56
18	8	0.39	88	9	09S	+0.66
18	14	0.84	65	12	08S	-0.72
		0.31	62	7	08S	-0.81
18	17	0.40	95	8	03S	-0.89
18	21	0.52	79	10	03S	-0.80
18	39	0.23	89	5	09S	-0.85
		0.32	73	6	09S	-0.74
18	43	0.32	77	7	07S	-0.76
		0.88	64	13	07S	-0.73
18	47	0.23	93	5	06S	-0.74
		0.46	44	6	06S	-0.70
18	76	0.37	93	8	07S	+0.55
		0.26	120	6	07S	-0.69
18	79	0.30	129	5	09S	+0.46
		0.34	98	6	09S	-0.80
19	5	0.35	109	10	09S	-0.86
19	6	0.57	59	14	09S	-0.81
19	7	0.34	91	4	09S	-0.70
		0.51	52	12	08S	-0.85
		0.30	69	7	09S	-0.79
19	8	0.23	75	6	08S	-0.83
19	18	0.22	77	5	03S	-0.78
19	19	0.43	76	9	07S	-0.76
19	21	0.76	54	13	07S	-0.75
		0.34	77	7	07S	-0.78
19	28	0.24	93	6	07S	-0.83
19	30	0.54	67	12	07S	-0.78
19	32	0.48	52	9	07S	-0.75
		0.31	59	7	03S	-0.84
		0.15	96	3	07S	-0.85
19	40	0.23	91	4	09S	-0.81

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
		0.42	72	8	09S	-0.73
19	46	0.39	78	7	09S	-0.83
		0.54	68	8	09S	-0.69
19	78	0.51	59	11	09S	-0.90
		0.36	59	8	07S	-0.80
19	79	0.29	44	5	09S	-0.80
19	80	0.42	79	9	09S	-0.84
20	5	0.42	84	10	08S	-0.88
20	6	0.35	67	10	09S	-0.86
		0.42	91	12	08S	-0.87
20	9	0.64	70	15	08S	-0.81
20	10	0.48	76	11	08S	-0.83
20	77	0.32	116	5	09S	-0.71
20	85	0.23	125	5	09S	-0.80
		0.17	32	3	09S	-0.75
21	4	0.56	50	13	08S	-0.85
21	10	0.42	70	10	08S	-0.79
21	11	0.60	45	12	08S	-0.85
21	37	0.33	97	7	09S	-0.82
21	38	0.67	85	11	09S	-0.83
21	40	0.29	78	5	07S	-0.78
		0.42	88	9	09S	-0.83
21	81	0.52	87	9	07S	-0.76
		0.30	121	5	07S	+0.54
22	5	0.26	63	7	08S	-0.90
22	35	0.46	75	9	07S	-0.79
22	85	0.28	58	4	08S	+0.41
		0.22	105	3	08S	+0.24
22	93	0.30	109	7	09S	-0.86
23	5	0.57	56	16	08S	-0.85
23	12	0.42	78	7	08S	-0.69
		0.31	59	4	08S	-0.69
23	36	0.46	71	10	03S	-0.80
23	50	0.43	80	8	07S	-0.78
23	83	0.42	51	7	09S	-0.78
23	91	0.23	58	5	09S	-0.80
		0.28	52	7	09S	+0.63
24	4	0.36	89	9	08S	-0.83
24	43	0.21	72	4	03S	-0.80
		0.18	132	31	LTS	+38.98
24	93	0.33	125	8	09S	-0.76

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
24	95	0.22	94	5	07S	-0.79
		0.40	99	6	07S	-0.72
25	8	0.48	103	7	09S	+0.69
25	10	1.38	59	20	09S	+0.60
		1.00	94	23	09S	+0.47
25	14	0.63	68	9	08S	-0.69
		0.22	113	6	08S	-0.69
25	38	0.47	90	10	09S	-0.64
25	39	0.60	75	10	03S	-0.74
25	92	0.35	86	6	07S	+0.65
		0.16	70	3	07S	+0.35
		0.38	103	6	07S	+0.73
26	5	0.55	73	8	09S	-0.67
		0.48	82	7	09S	+0.60
		0.27	110	3	09S	-0.67
26	7	0.50	122	8	08S	-0.71
		0.65	98	9	09S	-0.71
		0.27	107	3	08S	-0.71
		0.29	124	3	09S	-0.77
26	9	1.28	72	18	09S	+0.62
		0.51	85	12	09S	+0.62
26	23	0.33	69	7	03S	-0.80
26	26	0.28	73	3	03S	-0.78
		0.40	56	5	07S	-0.85
26	93	0.17	97	3	08S	-0.02
		0.13	45	2	08S	+0.06
26	94	0.34	69	6	07S	+0.66
		0.23	116	4	07S	+0.72
26	97	0.26	52	6	08S	-0.82
26	98	0.39	54	7	07S	-0.78
		0.28	108	4	07S	-0.75
27	2	0.26	61	7	03S	-0.79
27	5	0.28	130	9	09S	+0.62
		0.45	82	13	09S	-0.75
27	6	0.42	69	10	08S	-0.83
		0.43	57	11	07S	+0.63
		0.21	109	5	08S	+0.63
27	9	0.35	78	10	08S	-0.89
27	10	0.33	61	8	08S	-0.81
27	32	0.57	76	9	05S	-0.74
27	40	0.30	71	3	03S	-0.78

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
27	42	0.31	89	7	03S	-0.80
27	45	0.26	64	5	03S	-0.80
27	94	0.59	77	10	09S	+0.61
		0.54	92	10	08S	+0.61
27	95	0.54	104	12	08S	+0.61
		0.17	123	4	08S	-0.74
27	98	0.36	66	6	09S	-0.78
		0.38	109	6	09S	-0.75
28	4	0.66	91	17	03S	-0.75
28	5	0.36	76	9	07S	-0.76
28	6	0.30	90	9	09S	-0.81
28	13	0.39	58	10	05S	-0.70
28	30	0.31	91	6	03S	-0.75
		0.33	50	6	03S	-0.78
28	94	0.61	84	11	08S	+0.00
29	6	0.51	98	12	08S	-0.81
29	7	0.30	110	9	07S	+0.66
29	9	0.39	83	11	08S	-0.85
29	17	0.30	80	8	03S	-0.79
29	42	0.38	71	5	03S	-0.80
29	53	0.30	37	5	03S	-0.78
29	95	0.29	72	5	08S	-0.75
		0.48	53	7	08S	-0.73
29	100	0.20	80	5	09S	-0.80
		0.61	85	9	09S	-0.74
29	101	0.42	82	7	09S	+0.57
30	7	0.49	122	7	07S	-0.78
		0.59	78	8	08S	-0.75
		0.29	129	4	07S	-0.78
		0.27	85	7	08S	-0.81
30	9	0.59	127	8	08S	-0.67
		0.21	64	5	08S	-0.81
30	11	0.27	82	7	08S	-0.81
30	14	0.63	62	17	09S	-0.81
30	41	0.41	79	9	03S	-0.73
30	100	0.27	81	6	07S	+0.67
		0.49	98	8	07S	+0.74
31	5	0.58	74	16	03S	-0.73
31	6	0.38	71	5	07S	+0.60
		0.28	89	4	09S	-0.77
		0.23	93	1	07S	+0.65

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
		0.31	57	4	09S	-0.81
31	7	0.50	85	12	08S	-0.81
31	8	0.31	69	8	07S	+0.68
31	12	0.41	80	6	08S	-0.77
		0.24	118	6	08S	-0.79
31	22	0.40	126	5	07S	-0.81
31	42	0.79	86	17	09S	-0.80
31	58	0.25	69	5	03S	-0.71
32	6	0.81	76	18	03S	-0.74
32	8	0.56	99	8	08S	-0.78
		0.24	82	6	08S	-0.83
32	9	0.34	56	10	03S	-0.75
32	11	0.44	68	13	08S	-0.83
32	15	0.68	83	18	09S	-0.75
32	25	0.50	52	8	03S	-0.75
32	35	0.50	66	8	09S	-0.71
32	89	0.25	68	6	05S	-0.79
32	106	0.29	104	5	10S	+0.15
		0.48	71	7	10S	+0.23
33	6	0.35	53	9	08S	-0.81
33	8	0.32	69	8	08S	-0.81
		0.37	109	9	07S	+0.68
33	47	0.38	88	7	09S	-0.78
33	70	0.75	84	11	07S	-0.68
		0.32	56	7	07S	-0.80
34	7	0.50	37	9	09S	-0.75
		0.33	64	8	09S	-0.83
34	11	0.61	55	11	08S	-0.75
		0.41	36	8	08S	-0.79
35	8	0.62	65	15	09S	+0.62
35	20	0.87	69	16	04S	-0.75
35	42	0.77	84	16	09S	-0.74
35	60	0.78	80	11	06S	-0.74
		0.23	105	6	06S	-0.78
35	108	0.75	78	15	07S	-0.73
36	5	0.54	114	8	09S	+0.53
		0.27	58	6	09S	+0.55
36	9	0.27	67	6	09S	-0.87
36	10	0.41	60	11	09S	+0.65
36	11	0.36	146	8	08S	-0.79
36	12	0.33	36	6	08S	-0.74

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
		0.24	104	7	08S	-0.79
36	19	0.38	83	7	03S	-0.75
		0.54	86	13	09S	-0.81
		0.31	68	4	03S	-0.78
36	36	0.42	79	7	07S	-0.75
		0.34	107	6	07S	-0.84
36	47	0.74	89	13	07S	-0.75
36	57	0.50	96	12	09S	-0.78
36	64	0.95	68	14	03S	-0.46
		0.23	79	4	03S	-0.73
36	92	0.34	81	8	03S	-0.74
37	6	0.51	93	11	05S	-0.74
37	8	0.39	77	9	07S	+0.61
37	12	0.86	54	15	08S	-0.75
		0.56	70	12	09S	-0.81
		0.31	53	7	08S	-0.81
37	18	0.46	73	10	03S	-0.72
37	21	0.88	56	15	07S	-0.75
		0.26	107	6	07S	-0.77
37	48	0.63	86	12	07S	-0.81
37	114	0.21	80	5	05S	-0.84
		0.31	56	7	09S	-0.77
		0.20	118	3	05S	-0.75
		0.37	123	6	09S	-0.75
38	4	0.67	36	12	09S	+0.60
		0.30	110	7	09S	+0.60
38	8	0.55	70	12	08S	-0.74
38	10	0.50	110	9	09S	+0.60
		0.40	108	9	09S	+0.60
38	11	0.41	70	11	08S	-0.79
38	27	0.41	41	7	03S	-0.78
38	38	0.46	106	10	09S	-0.78
38	45	0.21	78	4	07S	-0.78
		0.33	170	32	LTS	+9.61
38	62	0.23	105	6	03S	-0.80
38	64	0.16	141	28	LTS	+8.02
38	70	0.41	87	8	03S	-0.81
38	75	0.25	94	6	07S	-0.75
		0.61	66	9	07S	-0.67
39	8	0.57	111	12	07S	+0.63
39	9	0.47	44	13	07S	+0.66

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
39	11	0.38	60	10	09S	+0.58
39	34	1.09	79	18	09S	-0.72
		0.51	66	9	09S	-0.78
39	44	0.49	75	11	07S	-0.76
		0.20	166	31	LTS	+16.89
		0.15	127	34	LTS	+14.65
		0.16	149	28	LTS	+13.14
		0.36	175	27	LTS	+8.33
		0.12	154	16	LTS	+7.69
		0.26	158	31	LTS	+6.09
39	49	0.54	80	10	03S	-0.73
39	52	0.57	78	14	09S	-0.76
39	61	0.60	80	11	09S	-0.78
39	116	0.37	73	8	09S	-0.77
40	5	0.60	29	11	09S	+0.62
		0.36	124	8	09S	+0.62
40	8	0.43	94	12	07S	+0.64
40	9	0.49	76	11	07S	+0.54
40	35	0.35	68	8	02S	-0.76
40	45	0.19	63	30	LTS	+8.42
		0.13	148	24	LTS	+14.84
40	46	0.21	151	29	LTS	+10.09
40	49	0.42	93	10	07S	-0.78
40	52	0.56	83	11	07S	-0.83
41	4	0.47	68	11	09S	+0.61
41	7	0.40	25	7	07S	+0.62
		0.33	95	9	07S	+0.62
41	8	0.47	56	8	07S	+0.69
		0.28	126	7	07S	+0.59
41	11	0.39	73	11	08S	-0.77
41	38	0.88	115	18	09S	-0.76
41	39	0.16	71	26	LTS	+10.99
41	56	0.34	72	7	03S	-0.74
42	7	0.44	55	8	07S	+0.73
		0.34	68	8	07S	+0.61
42	11	0.49	81	9	03S	-0.72
		0.46	86	8	09S	+0.64
		0.57	58	12	03S	-0.74
		0.31	60	7	09S	+0.62
42	28	1.17	81	19	09S	-0.71
		0.52	73	9	09S	-0.78

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
42	34	0.19	149	24	LTS	+8.85
42	42	0.22	147	30	LTS	+10.65
		0.16	83	33	LTS	+7.78
		0.11	133	26	LTS	+7.25
42	47	0.11	62	26	LTS	+10.99
42	63	0.11	122	28	LTS	+13.58
		0.13	131	26	LTS	+9.03
42	69	0.50	84	9	03S	-0.80
42	113	0.40	49	9	09S	-0.79
43	3	0.64	61	11	09S	+0.69
		0.42	66	11	09S	+0.62
43	4	0.58	72	10	05S	+0.74
		0.29	69	7	05S	+0.65
43	6	0.50	49	9	07S	+0.66
		0.40	68	9	07S	+0.61
43	7	0.51	82	9	07S	+0.75
		0.51	39	14	09S	-0.85
		0.29	76	8	07S	+0.60
43	8	0.29	66	7	09S	-0.87
43	9	0.32	51	6	03S	-0.74
		0.29	94	8	03S	-0.79
43	19	0.42	105	11	09S	-0.79
43	26	0.46	65	8	07S	-0.80
43	33	0.89	72	15	09S	-0.75
		0.47	115	11	09S	-0.76
43	44	0.40	81	7	03S	-0.72
43	48	0.09	172	16	LTS	+26.19
		0.09	92	25	LTS	+10.53
43	49	0.31	159	33	LTS	+14.37
		0.31	174	29	LTS	+11.89
		0.08	124	24	LTS	+8.64
43	82	0.07	139	26	LTS	+4.11
43	116	0.33	53	6	03S	-0.75
44	7	0.59	63	11	07S	+0.69
		0.29	67	8	07S	+0.70
44	8	0.69	52	12	08S	+0.68
		0.55	42	12	09S	-0.78
		0.32	86	7	08S	+0.65
44	22	0.53	59	12	03S	-0.76
44	38	0.56	95	10	05S	-0.74
		0.26	87	5	05S	-0.86

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
45	3	0.38	82	10	09S	+0.62
45	7	0.57	111	15	07S	+0.66
45	8	0.47	85	11	09S	+0.59
45	35	0.91	66	14	07S	-0.74
		1.03	88	17	07S	-0.75
45	40	0.21	142	29	LTS	+13.12
		0.45	174	34	LTS	+12.36
		0.24	157	34	LTS	+8.82
45	48	0.13	96	30	LTS	+13.33
45	49	0.16	124	27	LTS	+13.61
45	55	0.36	89	8	07S	-0.78
46	6	1.00	78	17	07S	+0.66
		0.37	87	10	07S	+0.62
46	7	0.53	58	10	07S	+0.70
		0.44	75	10	07S	+0.61
46	8	0.78	90	8	09S	+0.58
		0.29	65	8	09S	+0.56
46	12	0.39	85	11	03S	-0.74
46	41	0.27	128	36	LTS	+8.65
46	49	0.16	135	34	LTS	+14.32
46	52	0.25	76	5	07S	-0.81
46	67	0.50	78	9	07S	-0.76
46	116	0.33	64	6	09S	-0.85
		0.40	100	6	09S	-0.73
47	3	0.57	71	6	08S	-0.71
		0.24	73	7	08S	-0.79
47	6	0.48	50	11	07S	+0.63
47	7	0.63	95	16	07S	+0.64
47	8	0.42	70	8	07S	+0.74
		0.54	74	10	09S	-0.66
		0.52	38	12	09S	-0.72
		0.38	72	9	07S	+0.56
47	38	0.41	80	7	05S	-0.80
47	53	0.41	74	8	07S	-0.78
47	78	0.33	80	5	06S	+0.72
		0.35	58	7	06S	+0.66
48	7	0.61	98	16	07S	+0.68
48	35	0.45	150	9	09S	-0.80
48	43	0.17	154	26	LTS	+14.88
		0.11	123	24	LTS	+12.25
		0.20	114	29	LTS	+11.59

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
		0.08	132	26	LTS	+9.41
		0.30	168	29	LTS	+8.93
48	61	0.14	151	21	LTS	+7.38
48	64	0.74	27	13	09S	-0.82
48	72	0.10	135	25	LTS	+9.05
49	4	0.58	34	10	08S	+0.63
		0.35	69	8	08S	+0.63
49	8	0.47	61	9	07S	+0.65
		0.39	79	9	07S	+0.65
49	56	0.09	142	26	LTS	+12.01
		0.11	154	22	LTS	+6.22
49	78	0.28	84	6	12S	-0.43
49	119	0.44	82	8	06S	+0.67
49	121	0.31	63	6	09S	-0.82
		0.62	67	10	09S	-0.74
50	1	0.60	101	9	04S	+0.74
		0.40	43	13	04S	+0.66
50	3	0.33	110	9	09S	-0.81
50	4	0.67	112	10	09S	+0.62
		0.39	95	9	09S	+0.61
50	6	0.75	81	16	09S	+0.73
		0.60	62	13	09S	-0.75
		0.29	108	7	09S	+0.66
50	13	0.58	50	15	03S	-0.79
50	25	0.38	86	10	07S	-0.81
50	37	0.31	152	7	03S	-0.78
51	6	0.72	46	16	09S	-0.74
		0.35	49	8	09S	-0.78
51	17	0.40	56	11	07S	-0.79
51	30	0.39	154	35	LTS	+10.54
51	37	0.86	85	14	09S	-0.78
51	50	0.31	65	6	07S	-0.76
51	55	0.24	146	36	LTS	+7.81
51	79	0.22	135	36	LTS	+13.27
		0.21	149	31	LTS	+9.62
51	80	0.11	111	27	LTS	+8.43
52	6	0.55	104	12	07S	+0.54
52	7	0.29	81	8	07S	-0.72
		0.37	100	10	07S	+0.64
		0.68	90	15	07S	+0.74
		0.69	75	15	07S	-0.69

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
52	8	0.52	98	12	07S	+0.75
		0.35	63	8	07S	+0.63
52	28	0.53	76	13	07S	-0.74
52	30	0.73	83	16	10S	-0.77
52	37	0.04	128	26	LTS	+17.63
		0.14	153	25	LTS	+13.76
		0.11	92	28	LTS	+13.41
		0.10	155	24	LTS	+13.14
52	46	0.47	83	8	07S	-0.78
52	49	0.17	145	30	LTS	+14.73
53	7	0.30	76	7	09S	+0.61
53	26	0.36	68	10	03S	-0.76
		0.63	85	11	03S	-0.72
53	32	0.41	77	10	07S	-0.72
53	36	0.64	61	15	09S	-0.76
53	44	0.11	149	31	LTS	+11.08
		0.14	104	30	LTS	+10.73
		0.26	139	32	LTS	+9.75
		0.09	111	26	LTS	+8.16
53	57	0.34	59	7	07S	-0.78
53	59	0.28	68	6	07S	-0.79
53	123	0.21	84	5	08S	-0.79
53	124	0.60	32	11	09S	-0.84
		0.57	68	9	09S	-0.75
54	6	0.56	87	12	07S	+0.65
54	7	0.38	66	11	07S	+0.68
		0.82	92	17	07S	+0.68
54	28	0.48	77	8	05S	-0.71
		0.28	74	6	05S	-0.76
54	58	0.43	90	9	09S	-0.81
54	82	0.24	121	32	LTS	+10.72
		0.16	134	29	LTS	+9.71
		0.09	114	22	LTS	+6.14
54	114	0.31	83	6	07S	-0.82
		0.30	80	5	07S	-0.74
54	121	0.38	66	9	07S	-0.75
54	124	0.48	81	9	09S	-0.76
55	87	0.24	96	5	11S	+0.63
56	4	0.56	59	13	08S	+0.67
		0.28	108	9	08S	+0.68
56	21	0.31	98	7	05S	-0.72

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
56	37	0.11	106	25	LTS	+11.35
		0.27	145	29	LTS	+8.55
56	39	0.74	77	20	07S	-0.76
56	45	0.28	121	7	07S	-0.80
		0.47	71	8	07S	-0.75
56	53	0.13	166	27	LTS	+14.38
		0.07	105	21	LTS	+13.48
		0.32	163	26	LTS	+11.58
		0.24	157	32	LTS	+5.61
56	78	0.39	77	8	01S	-0.75
56	122	0.36	99	9	07S	-0.75
56	124	0.31	98	7	05S	-0.83
		0.26	52	4	05S	-0.75
56	127	0.36	35	9	07S	-0.74
57	33	0.23	151	36	LTS	+26.87
		0.20	146	27	LTS	+14.17
57	39	0.58	88	13	07S	-0.80
57	89	0.09	121	21	LTS	+10.25
		0.08	151	13	LTS	+7.34
		0.11	137	25	LTS	+7.13
		0.16	134	27	LTS	+6.64
57	122	0.33	61	8	07S	-0.74
57	126	0.42	94	10	07S	-0.71
58	8	0.23	83	5	03S	-0.69
		0.32	134	7	03S	-0.68
58	33	0.17	52	27	LTS	+15.51
		0.08	56	25	LTS	+11.29
		0.16	143	30	LTS	+8.86
58	39	0.28	104	7	03S	-0.71
		0.27	50	5	03S	-0.75
58	71	0.37	66	6	07S	-0.69
		0.43	78	9	07S	-0.74
58	78	0.41	72	9	07S	-0.77
58	86	0.33	79	7	07S	-0.75
58	89	0.23	139	34	LTS	+5.88
58	101	0.71	250	11	07S	-0.70
		0.27	95	6	07S	-0.80
58	125	0.36	59	8	08S	-0.81
		0.50	104	8	08S	-0.72
59	1	0.65	100	18	09S	-0.77
59	5	0.42	78	10	09S	+0.71

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
		0.46	58	10	09S	-0.79
		0.44	41	14	09S	-0.79
59	7	0.38	50	9	07S	+0.68
		0.24	71	8	07S	+0.64
59	30	0.22	163	25	LTS	+9.78
59	40	0.10	105	23	LTS	+9.27
59	45	0.36	101	9	07S	-0.71
59	56	0.59	75	12	07S	-0.78
59	80	0.18	140	29	LTS	+12.30
59	113	0.63	82	11	07S	-0.84
59	118	0.27	70	7	07S	-0.71
59	121	0.37	55	7	09S	-0.80
		0.48	102	8	09S	-0.71
59	122	0.37	89	9	07S	-0.77
		0.60	109	14	09S	-0.78
60	6	0.70	101	15	03S	-0.66
		0.24	110	8	03S	-0.74
60	34	0.14	86	30	LTS	+15.64
60	44	0.15	140	26	LTS	+8.31
60	48	0.49	58	12	07S	-0.72
60	52	0.30	57	8	07S	-0.76
60	70	0.24	79	6	05S	+0.67
60	117	0.40	85	9	07S	-0.79
60	119	0.83	90	18	07S	-0.75
60	120	0.35	73	6	03S	-0.80
		0.88	112	13	03S	-0.74
60	124	0.42	52	8	07S	-0.82
60	127	0.41	40	10	07S	-0.71
		0.41	39	10	08S	-0.84
		0.23	159	4	08S	-0.75
61	1	0.29	62	7	09S	-0.75
		0.42	101	10	09S	+0.75
		0.37	119	12	09S	-0.74
61	21	0.32	52	10	03S	-0.75
61	25	0.31	157	33	LTS	+8.03
		0.27	137	35	LTS	+6.77
61	27	0.13	80	29	LTS	+9.87
		0.59	60	17	09S	-0.74
61	28	0.44	52	10	07S	-0.74
61	42	0.73	72	17	07S	-0.74
61	44	0.32	74	8	03S	-0.75

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
61	46	0.09	145	22	LTS	+8.42
61	50	0.35	65	7	07S	-0.74
61	68	0.21	72	5	05S	+0.73
61	82	0.11	141	23	LTS	+12.34
		0.21	123	32	LTS	+8.42
61	88	0.13	121	27	LTS	+6.08
61	124	0.30	99	7	09S	+0.64
		0.76	105	12	09S	+0.74
62	13	0.51	86	11	03S	-0.78
62	28	0.48	152	35	LTS	+10.48
		0.08	126	27	LTS	+11.31
		0.11	139	28	LTS	+9.82
		0.29	145	36	LTS	+8.02
62	44	0.07	157	30	LTS	+11.85
		0.14	125	27	LTS	+9.76
62	56	0.24	54	5	07S	-0.73
62	58	0.32	0	9	09S	+0.74
		0.20	93	5	09S	+0.81
62	99	0.13	130	27	LTS	+10.12
		0.19	137	35	LTS	+9.32
62	103	0.80	91	12	07S	-0.61
		0.35	93	7	07S	-0.78
62	115	0.45	76	8	14S	-0.89
62	122	0.29	57	7	05S	+0.59
63	1	0.33	96	11	12S	-0.83
63	19	0.99	75	16	03S	-0.68
		0.46	79	14	03S	-0.77
63	25	0.48	71	8	05S	-0.73
		0.37	69	12	05S	-0.77
63	26	0.14	142	30	LTS	+11.60
		0.40	173	28	LTS	+27.55
63	34	1.40	70	20	07S	-0.73
		1.09	88	26	07S	-0.79
63	41	0.20	150	27	LTS	+13.64
		0.22	129	32	LTS	+12.31
63	69	1.67	74	36	07S	-0.65
		1.36	81	28	07S	-0.70
63	117	0.31	99	7	05S	+0.57
		0.43	88	7	05S	+0.75
63	124	0.23	53	4	04S	+0.74
63	125	0.32	95	8	07S	+0.53

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
		0.29	83	7	08S	-0.83
		0.23	128	4	07S	+0.70
		0.36	126	6	08S	-0.69
64	5	0.46	102	10	09S	-0.80
64	8	0.66	92	11	09S	+0.68
		0.32	50	10	09S	+0.62
64	34	0.55	75	16	05S	-0.76
64	42	0.21	126	34	LTS	+12.07
64	68	0.41	95	9	07S	-0.73
64	77	0.48	107	10	07S	-0.73
64	121	0.56	80	10	04S	+0.77
65	1	0.34	98	11	14S	-0.72
65	8	0.48	24	11	03S	-0.76
65	37	0.19	134	28	LTS	+17.08
		0.16	78	28	LTS	+16.58
		0.12	144	24	LTS	+12.89
		0.12	109	29	LTS	+12.48
		0.19	108	33	LTS	+10.55
		0.20	84	33	LTS	+8.46
		0.06	49	10	LTS	+6.88
65	42	0.07	93	15	LTS	+6.71
65	44	0.16	66	28	LTS	+14.33
		0.14	134	24	LTS	+11.47
65	48	0.06	97	16	LTS	+13.99
		0.11	145	20	LTS	+10.75
		0.12	88	32	LTS	+9.03
		0.04	48	19	LTS	+9.32
		0.11	136	29	LTS	+7.56
		0.43	166	32	LTS	+6.84
		0.13	125	27	LTS	+6.05
65	50	0.58	40	14	07S	-0.74
		0.12	125	28	LTS	+13.73
		0.08	88	28	LTS	+12.55
65	71	0.24	72	6	07S	-0.69
		0.33	46	8	07S	-0.62
65	112	0.48	79	9	04S	+0.64
65	113	0.43	83	10	04S	+0.68
65	115	0.58	89	13	04S	+0.75
65	119	0.95	95	20	05S	+0.65
65	121	0.51	98	12	05S	+0.58
65	122	0.70	81	12	05S	+0.66

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
65	125	0.31	74	7	04S	+0.57
65	127	0.46	97	11	07S	+0.64
		0.35	94	8	09S	-0.78
66	4	0.51	47	15	09S	+0.60
66	5	0.50	62	11	09S	-0.83
66	34	0.11	122	29	LTS	+12.66
		0.06	65	27	LTS	+8.77
66	37	1.08	59	16	09S	-0.74
		1.04	85	26	09S	-0.76
66	58	0.42	83	9	07S	-0.67
66	72	0.29	74	7	07S	-0.71
66	106	0.54	94	11	07S	-0.78
66	111	0.39	91	9	05S	+0.63
66	126	0.81	83	14	04S	+0.60
67	5	0.49	80	15	09S	-0.81
67	26	0.70	89	12	09S	+0.74
		0.20	68	5	09S	+0.70
67	33	0.59	85	14	07S	-0.74
67	38	0.38	116	12	09S	+0.73
67	40	0.39	42	13	09S	+0.71
67	42	0.53	80	12	09S	+0.73
67	47	0.29	99	7	09S	+0.71
		0.57	113	10	09S	+0.75
67	49	0.60	97	10	09S	-0.74
		0.29	57	5	09S	-0.72
67	50	0.20	62	32	LTS	+11.96
67	52	0.98	69	21	07S	-0.72
67	54	0.16	93	4	09S	-0.68
		0.53	72	8	09S	+0.64
		0.40	109	6	09S	-0.65
67	55	0.60	69	16	09S	+0.71
67	59	0.82	58	17	09S	+0.74
		0.35	79	8	09S	+0.81
67	70	0.32	88	7	03S	-0.68
		0.30	80	6	03S	-0.69
67	112	0.48	84	9	05S	+0.70
		0.42	99	8	04S	+0.56
67	113	0.36	86	9	04S	+0.73
67	125	0.34	76	8	07S	-0.78
67	126	0.64	85	11	09S	+0.74
68	21	0.93	93	23	08S	-0.79

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
68	30	0.40	76	6	07S	-0.70
		0.22	106	5	07S	-0.74
68	33	0.52	75	12	07S	-0.74
68	38	0.60	59	14	09S	+0.66
		0.16	153	28	LTS	+16.88
		0.20	155	30	LTS	+15.51
		0.21	158	25	LTS	+13.69
		0.20	77	35	LTS	+11.62
		0.14	121	29	LTS	+10.09
68	42	0.78	70	17	09S	+0.66
68	45	0.62	79	19	09S	+0.69
68	47	0.44	106	11	09S	+0.73
68	48	0.57	62	11	09S	+0.69
68	49	0.44	95	11	09S	+0.68
		0.90	85	15	09S	+0.75
68	50	0.53	85	9	07S	-0.69
		0.51	114	13	09S	+0.73
		0.30	110	9	09S	-0.74
		0.33	123	7	07S	-0.79
68	51	0.40	97	10	09S	+0.71
		0.53	94	13	09S	-0.68
68	52	0.38	143	9	09S	+0.73
		0.49	89	13	09S	-0.70
68	53	0.50	79	12	09S	+0.66
		0.36	56	9	09S	-0.70
68	54	0.65	88	17	07S	-0.71
68	56	1.14	82	18	09S	+0.74
		0.40	91	10	09S	+0.73
68	57	0.85	73	17	09S	+0.67
		0.36	91	9	09S	+0.79
68	58	0.40	85	9	09S	+0.68
		0.21	94	5	09S	+0.85
68	59	0.32	75	8	09S	-0.63
		0.47	97	11	09S	+0.76
		0.19	86	4	07S	-0.67
68	60	0.39	65	9	09S	-0.74
		0.38	97	9	09S	+0.71
		0.31	91	7	09S	+0.74
		0.24	72	6	09S	-0.65
68	61	0.51	93	11	09S	+0.72
		0.50	97	12	09S	+0.87

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
68	62	0.35	96	8	09S	+0.74
		0.31	60	7	09S	-0.65
68	63	0.23	95	5	09S	+0.81
68	64	0.40	94	9	09S	+0.79
68	69	0.23	61	5	07S	-0.75
68	99	0.30	89	36	LTS	+11.38
		0.43	162	31	LTS	+8.18
68	102	0.49	73	7	07S	-0.68
		0.23	95	5	07S	-0.75
68	111	0.36	97	7	04S	+0.61
68	125	0.47	98	9	05S	-0.59
68	129	0.34	81	7	09S	-0.75
		0.10	97	2	09S	+0.64
69	2	0.56	142	7	12S	-0.70
		0.33	79	11	12S	-0.85
69	8	0.42	90	13	12S	-0.81
69	15	0.67	117	11	04S	+0.73
		0.39	98	9	04S	+0.70
69	17	0.76	86	13	03S	-0.71
		0.86	87	14	03S	+0.72
		0.33	55	7	03S	-0.74
		0.34	78	8	03S	+0.70
69	40	0.38	113	12	09S	+0.74
69	42	0.26	146	27	LTS	+13.71
69	45	0.59	111	17	09S	+0.69
69	46	0.76	105	17	09S	+0.68
		0.27	143	7	07S	-0.76
69	47	0.61	99	17	09S	+0.72
69	48	0.56	81	13	09S	+0.64
		0.22	97	6	09S	-0.65
69	49	0.66	79	15	09S	+0.68
		0.67	62	15	09S	-0.70
		0.31	42	8	05S	+0.65
		0.69	73	12	05S	+0.72
69	50	0.43	91	10	09S	+0.71
		0.38	78	9	09S	-0.68
69	51	0.65	71	15	09S	+0.77
		0.33	82	8	09S	-0.66
69	52	0.52	57	14	09S	+0.66
		0.41	61	10	09S	-0.68
69	54	1.23	57	18	09S	-0.73

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
		0.52	105	8	09S	+0.70
		1.07	63	26	09S	-0.68
		0.45	119	11	09S	+0.66
69	55	0.60	73	14	09S	+0.71
		0.37	113	9	09S	-0.72
69	56	0.86	90	22	07S	-0.74
		0.86	88	22	09S	-0.66
69	57	0.64	89	14	09S	+0.75
		0.23	114	5	09S	+0.63
		0.27	110	6	09S	+0.81
69	58	0.26	73	6	09S	-0.65
		0.63	97	14	09S	+0.76
69	59	1.21	64	18	09S	+0.70
		0.74	71	12	09S	-0.65
		0.34	77	8	09S	-0.65
		1.18	85	24	09S	+0.81
69	60	0.34	86	8	09S	-0.65
		0.67	93	14	09S	+0.78
69	61	0.46	98	10	09S	+0.70
		0.38	99	9	09S	+0.81
69	62	0.39	83	9	09S	-0.71
		0.58	68	13	09S	+0.75
		0.44	102	10	09S	+0.78
69	63	0.30	69	7	09S	+0.61
		0.32	107	8	09S	+0.76
69	64	0.39	102	9	04S	+0.72
		0.50	68	11	09S	+0.61
		0.16	81	4	04S	+0.81
		0.26	106	6	09S	+0.76
69	69	0.65	85	14	06S	+0.65
		0.19	79	4	06S	+0.73
69	70	0.65	99	14	04S	+0.70
		0.65	124	14	06S	+0.74
		0.21	91	5	06S	+0.77
		0.23	74	5	04S	+0.71
69	72	0.58	80	12	08S	-0.73
		0.22	76	5	08S	-0.74
		0.19	109	4	07S	+0.62
		0.59	90	13	07S	+0.56
69	111	0.26	116	5	05S	+0.58
69	112	1.61	89	23	04S	+0.75

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
		2.43	96	32	04S	+0.65
69	116	0.35	120	7	05S	+0.63
		0.94	108	14	05S	+0.62
69	126	0.51	97	10	04S	+0.71
		0.30	107	6	09S	-0.61
		0.17	136	3	09S	+0.56
69	128	0.46	138	9	07S	-0.58
70	6	0.60	95	10	07S	-0.73
		0.28	62	9	07S	-0.81
70	38	0.32	82	10	09S	-0.76
		0.26	146	33	LTS	+17.51
		0.11	116	36	LTS	+15.62
		0.09	141	33	LTS	+15.35
		0.18	155	23	LTS	+13.88
70	47	0.45	78	11	09S	+0.75
		0.29	144	7	09S	-0.68
70	48	0.78	49	21	09S	-0.72
70	49	0.44	127	11	09S	+0.68
		0.43	89	6	09S	-0.53
		0.58	59	9	09S	+0.66
70	50	0.52	60	14	09S	+0.60
		0.68	82	10	09S	+0.56
		0.39	96	6	09S	-0.53
70	52	0.35	85	7	09S	-0.74
		0.66	72	18	09S	+0.60
70	53	0.56	74	13	09S	-0.68
		0.28	77	7	09S	+0.73
70	54	0.48	73	12	09S	-0.77
70	58	0.32	85	7	09S	-0.65
		0.36	88	8	09S	+0.79
		0.15	108	27	LTS	+31.13
70	59	0.31	76	7	09S	-0.61
		0.80	92	17	09S	+0.79
70	60	0.42	72	9	09S	+0.72
		0.35	100	8	09S	+0.79
70	61	0.35	90	8	09S	-0.63
		0.95	99	20	09S	+0.79
70	62	0.62	94	14	09S	+0.74
70	63	0.52	50	11	09S	+0.63
		0.37	110	8	09S	-0.74
		0.26	112	6	09S	+0.74

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
		0.17	58	4	09S	-0.65
70	65	0.45	60	10	10S	-0.75
		0.18	87	4	10S	-0.72
70	68	0.43	95	10	04S	+0.64
		0.52	91	12	07S	-0.69
		0.16	79	4	04S	+0.75
70	70	0.51	81	11	09S	-0.70
		0.21	53	4	09S	-0.71
70	110	0.30	78	6	04S	+0.62
		0.54	137	8	04S	+0.72
70	111	0.49	77	9	04S	+0.67
		0.28	87	6	05S	+0.71
		0.59	67	9	05S	+0.74
70	128	0.42	106	8	09S	+0.58
		1.37	67	20	09S	+0.73
71	26	0.42	66	13	07S	+0.68
71	38	0.94	76	24	07S	-0.74
71	43	0.55	84	17	09S	+0.69
71	49	0.36	88	9	09S	+0.71
71	50	0.52	51	14	09S	-0.72
71	51	0.48	75	12	09S	+0.73
		0.53	58	13	03S	-0.72
71	54	0.35	72	8	09S	+0.71
71	55	0.49	103	12	09S	-0.76
		0.81	70	18	07S	-0.71
71	57	0.84	86	17	09S	+0.72
		0.23	104	6	09S	+0.81
71	58	0.69	86	15	09S	+0.62
		0.18	96	4	09S	+0.77
71	59	0.45	61	10	09S	+0.74
		0.34	96	8	09S	+0.75
71	60	0.50	96	11	09S	-0.68
		0.21	86	5	09S	-0.65
71	61	0.49	90	11	09S	+0.64
		0.21	106	5	09S	+0.79
71	62	0.51	87	9	09S	+0.68
		0.51	100	12	09S	+0.79
71	63	0.25	112	6	09S	+0.77
71	71	0.78	87	16	08S	-0.71
		0.19	109	5	08S	-0.67
71	95	0.11	122	26	LTS	+7.10

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
72	2	0.90	91	19	13S	-0.74
		0.40	77	9	13S	+0.70
		0.23	71	7	13S	-0.78
72	39	0.52	57	12	12S	+0.74
72	41	0.54	50	12	09S	+0.64
72	43	0.57	42	13	09S	+0.66
72	46	0.71	82	21	07S	-0.83
72	50	0.40	76	10	07S	-0.81
72	51	0.32	67	10	09S	+0.60
72	54	0.54	59	13	09S	-0.70
		0.63	117	15	09S	+0.75
72	57	0.50	82	11	07S	-0.74
		0.67	83	14	09S	+0.62
		0.29	84	7	09S	-0.63
		0.22	78	5	07S	-0.71
		0.27	112	6	09S	+0.72
72	58	0.61	90	13	09S	+0.76
		0.17	94	4	09S	-0.59
72	65	0.32	105	8	07S	-0.67
72	67	0.32	90	8	03S	-0.67
72	107	0.22	89	4	04S	+0.58
		0.55	130	9	04S	+0.67
72	129	0.53	101	10	10S	-0.57
		0.50	85	8	10S	-0.53
73	44	0.11	86	25	LTS	+24.19
73	46	0.27	128	9	09S	+0.68
73	48	0.39	45	12	09S	+0.64
		0.56	60	10	09S	+0.69
73	51	0.36	76	9	03S	-0.76
73	53	0.39	66	10	09S	-0.70
		0.35	44	9	09S	+0.66
		0.85	85	12	09S	-0.63
		0.74	104	12	09S	+0.72
73	56	0.49	48	10	07S	-0.76
73	57	0.49	102	11	09S	+0.71
		0.26	101	6	09S	+0.74
73	58	0.69	96	15	09S	-0.72
		0.35	75	8	09S	+0.68
		0.25	94	6	07S	-0.71
		0.16	91	4	09S	+0.74
73	65	0.48	82	8	04S	+0.72

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
		0.31	94	7	04S	+0.74
73	67	0.16	125	4	07S	-0.69
73	82	0.34	82	5	07S	+0.67
		0.38	43	8	07S	+0.67
73	128	0.39	122	8	09S	+0.54
		0.54	94	10	10S	-0.74
74	53	0.45	32	11	03S	+0.72
74	64	0.46	94	8	05S	+0.74
		0.23	83	6	05S	+0.77
74	70	0.76	83	16	07S	-0.72
		0.17	101	4	07S	-0.69
75	24	0.28	67	8	04S	+0.70
75	26	0.51	45	14	07S	-0.80
		0.61	73	9	07S	-0.69
75	51	0.30	118	9	03S	-0.82
75	66	0.18	128	4	10S	-0.72
75	105	0.29	61	6	02S	+0.74
		0.63	99	10	02S	+0.69
75	123	0.49	116	8	04S	+0.73
		0.64	97	12	04S	+0.68
76	64	0.77	99	17	07S	-0.69
		0.27	76	6	14S	-0.74
76	65	0.55	86	10	12S	+0.60
		0.21	80	5	12S	+0.65
76	68	0.36	91	8	07S	-0.65
76	100	0.44	78	8	02S	-0.67
76	119	0.22	83	4	08S	+0.68
		0.40	116	8	07S	-0.75
		0.35	93	6	07S	-0.65
76	120	0.33	105	7	09S	-0.76
		0.32	83	7	07S	-0.75
76	123	0.55	118	11	11S	-0.55
77	86	0.11	139	27	LTS	+7.77
77	102	0.50	109	14	15S	-0.72
		0.22	48	7	15S	+0.70
77	125	0.67	103	16	11S	-0.69
		0.22	93	5	10S	+0.19
		1.36	85	13	10S	+0.19
78	8	1.00	88	14	13S	-0.70
		0.32	92	9	13S	-0.83
78	41	0.06	125	26	LTS	+27.36

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
78	45	0.24	74	28	LTS	+25.70
78	52	0.44	75	9	03S	-0.80
78	54	0.31	67	7	09S	-0.79
78	71	0.58	77	13	06S	-0.72
		0.25	103	6	06S	-0.67
78	93	0.25	130	37	LTS	+11.56
78	95	0.14	155	15	LTS	+15.92
		0.26	144	28	LTS	+10.34
		0.22	145	31	LTS	+8.10
78	113	0.25	89	6	05S	-0.75
78	123	1.79	62	25	09S	+0.60
		1.68	93	31	09S	+0.71
79	10	0.95	100	20	12S	+0.75
		0.34	64	9	12S	+0.59
79	21	0.35	113	12	07S	-0.78
79	39	0.95	91	18	12S	-0.75
79	40	0.47	65	13	13S	-0.83
79	43	0.18	127	35	LTS	+25.98
79	54	0.82	63	10	10S	-0.75
		0.29	127	8	09S	-0.81
		0.34	104	10	10S	-0.82
79	55	0.53	103	7	06S	-0.75
		0.39	108	8	06S	-0.79
79	56	0.58	73	16	09S	-0.75
79	57	0.69	94	16	07S	-0.74
79	61	0.22	81	5	07S	-0.70
79	62	0.46	91	8	12S	-0.70
		0.32	88	8	09S	-0.70
		0.19	75	5	09S	+0.79
		0.16	75	4	12S	-0.61
79	66	0.29	108	7	07S	-0.70
79	75	0.73	67	15	07S	-0.61
		0.21	75	5	07S	-0.65
79	92	0.20	141	34	LTS	+12.61
		0.17	139	35	LTS	+14.55
79	97	0.22	157	36	LTS	+16.34
		0.35	137	38	LTS	+9.37
79	114	0.27	115	7	07S	+0.43
79	123	0.38	78	9	06S	-0.75
79	126	0.56	83	10	07S	-0.72
		0.42	93	13	07S	-0.70

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
80	9	0.53	55	12	11S	-0.75
80	35	0.29	61	6	12S	-0.73
80	48	0.17	144	28	LTS	+5.09
80	52	0.20	77	6	09S	+0.67
80	58	0.69	100	15	07S	-0.64
		0.45	99	10	09S	-0.73
80	61	0.22	102	5	09S	+0.71
80	62	0.43	79	8	09S	+0.72
		0.17	106	4	12S	-0.26
		0.27	62	6	09S	+0.75
80	65	0.28	71	5	10S	-0.75
		0.20	106	5	10S	-0.74
		0.17	87	4	13S	-0.76
		0.73	93	15	13S	-0.75
80	70	0.24	88	6	07S	-0.65
80	76	0.30	87	7	07S	-0.69
80	80	0.94	72	15	07S	-0.75
		0.24	76	8	07S	-0.71
80	99	0.21	125	34	LTS	+14.58
		0.16	116	31	LTS	+11.31
		0.30	164	30	LTS	+10.24
		0.33	155	34	LTS	+7.82
		0.14	80	32	LTS	+7.01
80	126	0.34	82	8	07S	-0.71
80	127	0.43	109	8	08S	+0.71
		0.38	104	12	07S	+0.69
		0.67	100	18	07S	-0.76
		0.24	103	8	08S	+0.67
81	16	1.02	85	21	09S	-0.66
		0.38	97	11	09S	-0.75
81	35	0.22	119	7	05S	-0.77
81	41	0.55	99	15	09S	-0.81
81	49	0.21	97	5	09S	+0.71
81	62	0.36	75	8	09S	+0.64
81	64	0.71	102	15	10S	-0.80
81	65	0.62	100	13	10S	-0.82
81	75	0.54	70	12	07S	-0.65
		0.16	77	4	07S	-0.61
81	78	0.33	71	11	09S	-0.73
81	104	0.11	118	32	LTS	+8.45
81	121	0.32	113	6	07S	-0.66

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
		0.32	106	10	07S	-0.76
81	122	0.57	106	14	07S	-0.73
81	125	0.50	69	9	07S	-0.74
		0.52	96	15	03S	-0.50
		0.33	87	10	07S	-0.71
81	126	0.32	134	8	07S	-0.69
		0.60	97	14	08S	+0.61
		0.23	98	6	04S	-0.73
		0.38	97	7	04S	-0.72
82	6	0.61	102	13	09S	-0.75
82	38	0.58	78	15	09S	-0.72
82	41	0.54	88	7	07S	-0.75
		0.27	95	6	07S	-0.83
82	49	0.34	104	8	07S	-0.77
82	50	0.95	93	12	07S	-0.67
		0.34	34	10	09S	+0.69
		0.55	104	14	07S	-0.75
82	52	0.57	48	15	06S	-0.79
82	61	0.37	90	8	09S	+0.71
82	64	0.19	80	4	12S	+0.68
82	125	0.22	105	5	09S	+0.00
		0.53	94	13	08S	+0.65
		0.85	60	14	08S	+0.69
83	8	0.73	78	16	09S	-0.69
		0.34	84	7	09S	-0.73
83	9	0.45	145	9	09S	-0.76
83	11	0.51	52	10	09S	-0.78
83	35	0.84	57	21	03S	-0.76
83	45	0.58	79	15	07S	-0.81
83	57	0.33	67	7	09S	-0.74
		0.40	73	8	07S	-0.71
83	61	0.25	87	6	09S	+0.79
		0.22	88	5	07S	-0.77
83	99	0.34	47	11	06S	-0.80
83	100	0.12	128	28	LTS	+10.71
		0.20	133	32	LTS	+7.70
		0.08	62	19	LTS	+5.96
83	127	0.36	81	7	07S	+0.60
		0.41	74	7	07S	-0.67
		0.30	108	10	07S	+0.67
		0.32	110	10	07S	-0.74

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
83	128	0.32	82	8	04S	+0.59
		0.28	63	5	04S	+0.66
		0.30	87	6	04S	-0.60
83	130	0.43	102	10	09S	-0.76
		0.21	110	4	09S	-0.69
83	131	0.44	107	13	09S	-0.80
84	27	0.36	63	7	03S	-0.84
84	31	0.26	139	34	LTS	+12.49
84	38	0.63	132	8	09S	-0.71
		0.33	95	10	09S	-0.71
84	39	0.89	90	22	07S	-0.81
84	61	0.44	69	10	09S	+0.81
84	72	0.19	90	4	07S	-0.76
84	75	0.33	92	7	07S	-0.74
84	80	0.33	102	11	05S	-0.57
84	85	0.60	82	12	07S	-0.77
84	93	0.10	127	29	LTS	+14.32
84	96	0.07	137	22	LTS	+12.30
		0.14	154	30	LTS	+11.74
		0.22	122	34	LTS	+9.05
84	98	0.09	127	31	LTS	+16.83
		0.11	116	28	LTS	+13.70
		0.32	151	30	LTS	+12.18
		0.42	164	35	LTS	+11.09
		0.14	172	18	LTS	+9.95
		0.16	105	30	LTS	+9.12
84	100	0.15	163	29	LTS	+11.45
		0.26	143	35	LTS	+8.28
		0.19	163	29	LTS	+6.93
84	123	0.73	88	17	08S	+0.58
84	125	0.60	99	14	08S	+0.60
		0.17	91	4	03S	+0.26
		0.66	72	11	03S	+0.52
84	126	0.36	105	11	09S	+0.02
84	128	0.37	94	11	07S	-0.87
85	37	0.60	47	16	07S	-0.74
85	38	0.43	83	12	03S	-0.83
85	43	0.48	64	13	09S	-0.72
		0.25	118	35	LTS	+10.39
85	72	0.27	84	6	06S	-0.70
85	76	0.61	112	11	04S	-0.64

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
		0.15	54	3	04S	-0.78
85	90	0.26	67	6	07S	-0.79
85	92	0.12	139	26	LTS	+8.25
85	96	0.23	92	36	LTS	+9.69
85	98	0.24	143	34	LTS	+9.50
85	123	0.56	93	13	08S	+0.71
85	126	0.49	91	12	07S	-0.86
85	127	0.67	62	12	09S	-0.69
		0.32	92	10	07S	-0.84
		0.28	77	9	09S	-0.87
86	24	0.22	115	34	LTS	+12.88
		0.30	152	34	LTS	+9.15
86	25	0.30	76	9	07S	-0.77
86	38	0.46	42	13	09S	-0.73
86	53	0.86	78	22	07S	-0.79
86	104	0.27	101	9	07S	-0.81
86	112	0.28	102	9	02S	-0.82
86	116	0.26	94	8	05S	-0.78
86	124	0.67	97	18	08S	+0.63
86	125	0.29	99	7	07S	-0.02
		0.43	85	8	07S	+0.02
86	126	0.47	107	14	07S	+0.00
		0.35	99	11	07S	+0.59
87	8	0.29	56	7	09S	-0.79
87	22	0.50	66	11	07S	-0.78
87	39	0.14	105	28	LTS	+12.82
87	40	0.99	72	24	09S	-0.77
87	49	0.94	66	23	06S	-0.81
87	50	0.35	61	10	06S	-0.79
87	53	0.64	63	17	06S	-0.78
87	56	0.15	0	4	07S	-0.73
		0.28	68	6	07S	-0.69
87	67	0.26	98	5	07S	-0.68
87	112	0.52	60	9	07S	+0.59
		0.44	111	13	07S	+0.46
87	123	0.34	84	8	08S	-0.11
87	125	0.31	96	8	08S	-0.20
88	8	0.47	87	11	07S	-0.77
88	12	0.76	82	16	07S	-0.79
88	19	0.37	88	11	03S	-0.75
88	29	0.49	63	14	07S	-0.81

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
88	31	0.68	55	18	09S	-0.74
88	34	0.20	82	35	LTS	+12.64
		0.13	118	31	LTS	+15.35
88	45	0.20	138	35	LTS	+14.09
88	47	1.03	58	19	09S	-0.79
		0.54	96	14	09S	-0.79
88	51	0.58	57	16	03S	-0.78
88	53	0.82	63	21	07S	-0.77
88	70	0.31	83	7	06S	-0.74
88	113	0.38	106	9	07S	+0.60
		0.53	80	9	07S	+0.64
88	123	0.30	101	7	08S	+0.22
		0.29	78	7	03S	-0.09
88	125	0.27	84	7	07S	-0.78
		0.28	94	5	07S	-0.70
88	128	0.48	88	8	07S	-0.72
		0.34	103	11	07S	-0.73
88	129	0.35	95	9	11S	-0.76
		0.42	106	8	11S	-0.70
89	4	0.44	60	10	10S	+0.56
89	5	0.50	64	14	01S	-0.74
89	33	0.25	144	34	LTS	+9.64
89	39	0.24	132	31	LTS	+14.40
89	49	0.47	32	11	07S	-0.73
		0.30	81	7	07S	-0.74
89	53	0.43	76	11	07S	-0.77
89	84	0.43	82	9	07S	-0.77
89	89	0.17	162	14	LTS	+11.35
		0.19	135	27	LTS	+8.39
		0.13	138	28	LTS	+5.83
89	123	0.42	108	10	07S	-0.11
90	5	0.74	48	16	07S	-0.81
90	35	0.33	131	7	07S	-0.81
		0.28	70	6	07S	-0.81
90	40	0.06	117	25	LTS	+17.73
		0.11	120	27	LTS	+15.47
		0.17	96	31	LTS	+14.39
		0.11	88	25	LTS	+12.15
		0.11	85	29	LTS	+11.84
		0.20	142	32	LTS	+11.63
		0.08	150	22	LTS	+9.81

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
		0.33	149	34	LTS	+8.19
90	41	1.26	65	29	07S	-0.77
		1.04	112	22	07S	-0.75
90	48	0.40	92	11	07S	-0.79
90	60	0.60	86	13	07S	-0.74
90	65	0.34	82	7	07S	-0.72
90	88	0.22	139	26	LTS	+5.41
90	126	0.52	79	9	07S	-0.74
		0.32	102	10	07S	-0.74
90	128	0.31	105	10	09S	-0.76
91	6	0.60	77	13	09S	+0.65
91	7	0.39	54	11	09S	+0.67
91	12	0.38	38	9	07S	-0.76
91	41	0.33	77	8	06S	+0.64
		0.17	93	4	06S	+0.64
91	87	0.52	114	9	03S	-0.66
		0.37	85	7	03S	-0.72
91	93	0.13	109	31	LTS	+9.38
91	94	0.18	128	32	LTS	+8.15
		0.20	154	31	LTS	+10.87
91	96	0.24	57	4	03S	-0.66
		0.43	46	9	03S	-0.76
91	98	0.22	117	33	LTS	+11.26
		0.17	112	32	LTS	+9.06
91	119	0.26	98	8	07S	-0.71
		0.55	85	10	07S	-0.65
92	17	0.56	95	15	09S	-0.77
92	26	0.20	90	34	LTS	+12.73
		0.30	165	34	LTS	+10.61
		0.28	152	27	LTS	+7.86
		0.07	106	21	LTS	+5.66
92	36	0.61	63	10	07S	-0.75
		1.09	66	26	07S	-0.81
92	39	0.20	148	32	LTS	+10.89
92	40	0.13	62	29	LTS	+14.45
92	43	0.48	156	35	LTS	+5.70
92	60	0.48	92	11	07S	-0.72
92	114	0.34	90	11	07S	-0.76
		0.32	76	6	07S	-0.75
92	116	0.17	50	5	07S	-0.73
		0.44	78	7	07S	-0.72

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
92	120	0.22	107	7	05S	-0.80
		0.13	87	5	07S	-0.76
		0.32	41	5	07S	-0.63
		0.47	118	8	05S	-0.75
92	124	0.57	84	17	07S	-0.73
92	126	0.44	53	13	09S	-0.80
		0.56	105	16	07S	-0.84
		0.36	111	7	07S	-0.75
93	6	1.01	94	21	09S	+0.64
		0.49	113	11	09S	+0.56
93	17	0.65	91	17	09S	-0.75
93	31	0.21	85	34	LTS	+12.72
		0.14	72	27	LTS	+11.07
93	34	0.36	70	9	07S	-0.76
93	36	1.05	64	16	09S	-0.74
		1.16	87	27	09S	-0.77
93	40	0.82	57	21	09S	-0.74
93	46	0.17	165	25	LTS	+15.81
		0.11	133	25	LTS	+11.69
		0.31	156	30	LTS	+10.62
		0.19	156	21	LTS	+6.79
93	55	0.30	51	7	07S	-0.76
93	79	0.16	128	35	LTS	+10.62
93	87	0.12	155	13	LTS	+7.51
93	94	0.30	142	37	LTS	+12.62
		0.56	167	35	LTS	+7.01
93	116	0.08	108	2	07S	-0.80
		0.35	133	9	07S	-0.71
94	7	0.62	53	14	09S	+0.54
94	17	0.45	71	10	15S	+0.81
94	56	0.15	0	4	07S	-0.68
		0.20	63	4	07S	-0.74
94	66	0.35	81	8	07S	-0.72
94	127	0.42	47	13	09S	+0.61
		0.33	117	6	09S	+0.65
95	1	0.31	106	9	07S	-0.77
95	5	0.43	83	10	07S	-0.76
95	6	0.38	61	11	09S	+0.67
95	23	0.45	76	10	07S	-0.78
95	36	0.33	174	25	LTS	+17.96
		0.19	134	32	LTS	+14.85

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
		0.17	80	30	LTS	+9.70
95	45	0.08	97	24	LTS	+16.69
		0.27	149	32	LTS	+12.54
		0.11	76	28	LTS	+11.46
		0.21	162	23	LTS	+9.43
95	47	0.11	104	26	LTS	+10.71
95	85	0.66	93	16	07S	+0.66
96	4	0.70	68	15	09S	+0.60
96	40	0.19	142	35	LTS	+10.16
96	41	0.14	142	23	LTS	+13.21
		0.26	130	36	LTS	+11.82
96	42	0.25	156	30	LTS	+13.17
		0.35	153	37	LTS	+12.13
		0.27	154	30	LTS	+9.52
96	44	0.14	54	26	LTS	+9.03
		0.11	100	26	LTS	+6.64
96	45	0.20	125	32	LTS	+12.12
96	51	0.74	48	21	06S	+0.59
		0.32	116	7	06S	+0.71
96	66	1.19	67	18	07S	-0.72
		1.02	87	22	07S	-0.77
96	70	0.79	86	18	07S	-0.79
96	91	0.09	134	20	LTS	+11.98
97	5	0.34	108	10	07S	+0.67
97	41	0.21	70	34	LTS	+13.71
		0.17	157	30	LTS	+11.69
		0.41	49	13	09S	-0.74
97	49	0.22	160	31	LTS	+15.25
		0.17	135	33	LTS	+12.02
97	121	0.57	88	10	07S	-0.65
		0.36	106	8	07S	-0.73
97	123	0.54	51	12	09S	+0.65
98	39	0.10	107	27	LTS	+18.15
		0.13	119	30	LTS	+15.80
		0.17	117	32	LTS	+14.86
		0.15	106	34	LTS	+12.31
		0.13	100	30	LTS	+6.80
98	42	0.16	53	27	LTS	+15.04
		0.21	152	33	LTS	+12.16
98	45	0.08	130	28	LTS	+12.38
98	47	0.16	49	28	LTS	+17.18

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
		0.09	59	22	LTS	+6.89
98	124	0.40	114	11	09S	+0.56
99	4	0.65	78	14	09S	+0.60
99	41	0.19	104	32	LTS	+10.46
		0.86	68	24	03S	-0.78
99	46	0.27	106	7	07S	-0.77
99	106	0.18	79	5	06S	-0.80
		0.48	71	8	06S	-0.75
99	114	0.16	88	5	07S	-0.82
		0.31	126	5	07S	-0.75
99	122	0.36	134	11	09S	-0.87
		0.55	57	9	09S	-0.75
99	123	0.25	103	6	09S	-0.78
99	126	0.57	80	18	07S	+0.26
		0.50	114	11	07S	+0.30
100	5	0.36	139	10	07S	-0.82
		0.55	137	14	09S	+0.65
100	21	0.33	101	9	07S	-0.79
100	33	0.20	54	32	LTS	+11.05
		0.18	86	34	LTS	+10.20
100	36	0.29	146	36	LTS	+7.97
		0.28	68	33	LTS	+13.53
100	38	0.19	131	33	LTS	+17.18
		0.37	173	31	LTS	+15.24
		0.11	77	22	LTS	+15.01
100	41	0.34	143	36	LTS	+17.42
		0.39	165	34	LTS	+7.94
100	45	0.12	107	31	LTS	+14.85
100	66	0.10	117	23	LTS	+9.99
100	84	0.34	87	9	03S	-0.75
100	92	0.14	94	26	LTS	+7.05
		0.25	161	29	LTS	+9.00
100	122	0.20	81	6	07S	-0.56
		0.55	95	9	07S	-0.49
100	123	0.36	77	8	09S	+0.67
		0.24	146	5	09S	-0.80
101	10	0.30	72	9	07S	-0.77
101	24	0.47	64	13	09S	-0.80
101	35	0.47	52	13	07S	-0.79
		0.46	24	11	07S	-0.75
101	43	0.20	59	31	LTS	+9.19

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
101	47	0.10	81	28	LTS	+14.89
		0.20	171	26	LTS	+11.02
		0.16	128	31	LTS	+8.88
101	81	0.20	74	5	07S	-0.79
101	98	0.09	75	26	LTS	+17.52
		0.13	139	26	LTS	+13.26
102	41	0.30	157	32	LTS	+16.20
102	43	0.13	129	27	LTS	+13.34
		0.20	94	34	LTS	+12.42
		0.34	165	33	LTS	+7.82
102	44	0.15	80	29	LTS	+9.72
102	95	0.83	91	20	07S	-0.77
102	111	0.46	59	8	07S	+0.66
		0.36	104	8	07S	+0.60
102	112	0.34	123	11	07S	-0.65
		0.41	61	7	07S	-0.71
102	113	0.62	89	14	07S	+0.65
102	115	0.59	106	13	07S	+0.60
102	116	0.33	109	10	07S	-0.63
		0.56	78	9	07S	-0.69
102	119	0.27	145	4	07S	-0.65
		0.37	97	9	07S	-0.65
103	5	0.64	98	14	09S	+0.60
103	27	0.71	55	15	07S	-0.72
		0.22	78	6	07S	-0.72
103	36	0.20	145	32	LTS	+11.00
103	37	0.13	158	28	LTS	+24.00
		0.24	134	33	LTS	+15.38
		0.26	124	33	LTS	+10.12
		0.26	124	33	LTS	+10.10
103	41	0.12	103	27	LTS	+15.84
103	55	0.20	68	7	07S	-0.83
103	94	0.15	117	30	LTS	+5.17
103	97	0.21	82	6	04S	-0.75
103	123	0.46	101	15	07S	-0.69
		0.37	40	9	07S	-0.71
104	40	0.18	159	31	LTS	+15.87
		0.09	113	28	LTS	+13.21
104	44	0.10	49	24	LTS	+17.90
		0.13	153	30	LTS	+12.38
		0.05	58	24	LTS	+11.72

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
104	46	0.39	83	11	07S	-0.79
104	90	0.09	121	30	LTS	+14.18
		0.13	108	32	LTS	+12.08
		0.11	143	33	LTS	+8.92
104	122	0.77	51	20	10S	+0.60
105	42	0.71	88	21	07S	-0.81
105	44	0.43	74	14	10S	-0.45
105	87	0.57	86	10	07S	-0.75
		0.27	85	7	07S	-0.79
105	113	0.60	77	14	07S	-0.77
105	120	0.36	64	11	07S	-0.74
		0.29	78	9	07S	-0.80
105	122	0.47	101	15	07S	-0.66
		0.33	93	8	07S	-0.82
106	38	0.79	85	15	07S	-0.79
106	42	0.25	120	34	LTS	+16.38
		0.10	78	28	LTS	+14.78
		0.22	149	31	LTS	+12.47
		0.09	108	25	LTS	+11.47
106	43	0.10	127	23	LTS	+7.06
106	48	0.25	141	32	LTS	+8.92
106	50	0.25	54	30	LTS	+13.69
		0.08	80	28	LTS	+10.67
106	61	0.82	77	13	07S	-0.68
		1.18	87	27	07S	-0.77
106	71	0.31	98	8	07S	-0.81
		0.34	63	6	07S	-0.60
106	74	0.05	157	14	LTS	+14.50
		0.13	125	30	LTS	+9.30
106	92	0.19	73	5	03S	-0.79
106	97	0.40	54	11	02S	-0.75
106	117	0.25	94	8	09S	-0.74
		0.20	99	5	09S	-0.82
107	23	0.35	89	8	07S	-0.77
107	47	0.17	80	33	LTS	+16.05
		0.11	120	29	LTS	+14.16
		0.17	120	31	LTS	+11.84
		0.26	148	32	LTS	+7.36
107	66	0.06	135	27	LTS	+14.79
		0.08	124	23	LTS	+12.22
		0.13	139	24	LTS	+7.42

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
		0.08	137	19	LTS	+6.57
107	67	0.70	79	10	07S	-0.75
		0.29	105	6	07S	-0.79
107	116	0.35	66	11	07S	-0.74
		0.30	77	7	07S	-0.82
108	34	0.21	62	29	LTS	+15.10
108	55	0.32	60	8	07S	-0.79
108	74	0.15	138	30	LTS	+13.33
109	46	0.13	132	26	LTS	+12.33
		0.17	140	34	LTS	+10.86
		0.22	145	27	LTS	+8.47
109	52	0.39	85	10	07S	-0.77
109	84	0.56	97	14	07S	-0.75
		0.32	71	9	03S	-0.75
110	24	0.72	88	14	09S	-0.79
110	40	0.25	155	26	LTS	+12.73
110	43	0.17	120	31	LTS	+23.99
110	46	0.09	58	29	LTS	+12.23
110	52	0.14	111	30	LTS	+14.05
		0.08	113	20	LTS	+11.35
		0.19	140	30	LTS	+10.26
		0.15	116	32	LTS	+9.53
110	57	0.27	84	4	07S	-0.75
		0.33	88	7	07S	-0.79
110	81	0.70	75	12	03S	-0.75
		0.26	75	7	03S	-0.77
110	85	0.74	68	12	06S	+0.23
		0.43	69	11	06S	+0.11
111	27	0.38	48	11	07S	-0.81
111	39	0.14	128	28	LTS	+9.97
111	42	0.19	169	35	LTS	+14.45
		0.36	161	32	LTS	+11.51
111	51	0.17	137	35	LTS	+11.24
111	66	0.64	81	17	07S	-0.75
111	71	0.34	84	9	03S	-0.79
		0.42	94	11	07S	-0.77
112	26	0.43	75	12	09S	-0.79
		0.67	161	15	09S	-0.75
112	82	0.42	85	11	07S	-0.73
113	23	0.61	101	14	09S	-0.75
		0.26	61	6	09S	-0.79

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
113	44	0.27	171	31	LTS	+12.28
		0.23	152	29	LTS	+10.16
		0.06	93	23	LTS	+7.82
113	45	0.15	50	31	LTS	+16.88
113	94	1.04	89	17	07S	-0.72
		0.27	113	7	07S	-0.75
113	108	0.26	104	6	07S	-0.84
114	39	0.45	57	12	09S	-0.72
114	41	0.12	144	23	LTS	+9.23
		0.19	132	34	LTS	+8.30
114	42	0.10	98	21	LTS	+26.47
		0.32	152	34	LTS	+11.56
		0.29	173	29	LTS	+8.48
		0.20	169	33	LTS	+8.19
		0.07	135	28	LTS	+7.10
114	43	0.14	51	28	LTS	+23.72
		0.21	161	30	LTS	+12.11
		0.30	168	31	LTS	+10.41
		0.14	167	27	LTS	+7.19
		0.11	154	31	LTS	+6.72
		0.03	81	14	LTS	+25.75
114	46	0.12	132	22	LTS	+6.77
114	70	0.39	91	11	07S	-0.75
		1.18	109	19	07S	-0.74
114	93	0.38	53	10	02S	-0.77
115	40	0.61	69	16	07S	-0.77
115	43	0.56	75	15	07S	-0.83
115	57	0.55	79	13	07S	-0.76
115	61	0.35	88	9	03S	-0.78
115	80	0.87	104	15	07S	-0.68
		0.38	115	11	07S	-0.77
115	87	0.46	75	12	07S	-0.75
115	99	0.26	103	7	07S	-0.75
		0.58	90	10	07S	-0.70
115	100	0.30	73	7	07S	-0.82
115	109	0.27	53	12	09S	+0.63
		0.26	83	11	09S	-0.74
		0.13	93	4	09S	-0.80
		0.21	119	7	09S	+0.61
116	25	0.65	23	13	07S	-0.88
		0.38	84	8	07S	-0.68

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
116	35	0.87	75	17	07S	-0.72
116	39	0.45	123	10	03S	-0.75
		0.53	152	13	03S	-0.70
116	43	0.14	169	28	LTS	+7.85
		0.07	137	27	LTS	+7.16
		0.19	134	33	LTS	+6.79
		0.09	122	25	LTS	+6.38
116	49	0.90	85	20	07S	-0.79
116	50	0.22	74	5	07S	-0.78
116	61	0.32	79	9	07S	-0.79
116	80	0.35	96	10	07S	-0.81
116	81	0.32	102	9	07S	-0.77
		0.64	82	12	07S	-0.73
116	100	0.29	92	7	13S	-0.85
116	111	0.27	104	12	10S	-0.72
		0.25	104	8	10S	-0.78
117	40	0.55	87	12	07S	-0.84
		0.47	38	11	07S	-0.75
117	71	0.52	113	14	07S	-0.79
117	73	0.56	107	15	07S	-0.77
117	82	0.72	98	18	07S	-0.77
118	19	0.47	87	10	07S	-0.82
118	30	0.50	85	10	07S	-0.79
		0.43	84	9	07S	-0.65
118	41	0.16	112	33	LTS	+9.34
		0.18	75	34	LTS	+8.68
		0.19	140	31	LTS	+5.79
118	64	0.34	82	5	03S	-0.75
		0.25	93	6	03S	-0.75
118	66	0.36	83	10	03S	-0.75
		0.52	96	13	07S	-0.77
118	99	0.34	83	7	07S	-0.84
119	12	0.47	50	11	07S	-0.69
		0.41	114	11	07S	-0.82
119	20	0.49	85	11	09S	-0.80
119	40	0.44	59	8	07S	-0.79
119	48	0.51	86	13	07S	-0.78
119	66	0.31	103	9	07S	-0.77
		0.32	71	6	07S	-0.73
119	75	0.28	115	10	07S	-0.77
119	80	0.26	93	7	07S	-0.77

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
		0.53	71	10	07S	-0.73
120	50	0.32	65	5	07S	-0.75
		0.26	71	7	07S	-0.80
120	56	0.47	64	7	03S	-0.75
		0.23	94	6	03S	-0.81
120	63	0.60	75	14	07S	-0.77
120	97	0.37	95	8	07S	-0.81
120	102	0.44	87	9	07S	-0.88
		0.23	100	5	09S	+0.60
120	103	0.63	57	19	09S	-0.70
		0.27	82	9	09S	-0.80
120	105	0.29	127	10	09S	+0.66
		0.31	94	9	09S	+0.63
121	38	0.40	78	10	07S	-0.79
121	45	0.37	81	9	07S	-0.79
121	48	0.42	65	6	07S	-0.75
		0.27	80	7	07S	-0.79
121	49	0.26	61	6	07S	-0.83
121	63	0.28	83	7	07S	-0.77
121	64	0.19	105	5	07S	-0.79
121	68	0.30	93	11	07S	-0.77
121	78	0.29	79	8	03S	-0.75
121	91	0.22	86	5	07S	-0.77
		0.35	101	6	07S	-0.67
122	38	0.67	93	14	07S	-0.77
122	55	0.44	87	11	07S	-0.77
122	56	0.22	88	6	07S	-0.68
122	57	0.31	67	8	07S	-0.82
122	72	0.22	102	6	07S	-0.82
122	89	0.44	86	8	07S	+0.62
122	102	0.38	107	13	07S	-0.68
		0.29	86	6	07S	-0.80
123	30	0.58	77	13	07S	-0.82
		0.48	86	10	07S	-0.71
123	65	0.31	103	6	07S	-0.74
		0.17	88	4	07S	-0.75
123	74	0.41	83	11	07S	-0.79
123	76	0.30	98	9	07S	-0.77
123	77	0.10	128	26	LTS	+4.53
123	93	0.44	87	8	07S	-0.66
		0.22	114	6	07S	-0.78

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
123	102	0.47	117	15	10S	-0.80
123	103	0.54	133	11	10S	+0.00
124	17	0.58	80	13	07S	-0.73
124	45	0.25	96	7	07S	-0.79
124	48	0.31	93	8	07S	-0.74
124	66	0.62	59	12	03S	-0.69
		0.23	72	6	03S	-0.73
124	71	0.98	82	24	07S	-0.73
124	73	0.28	95	8	07S	-0.81
124	99	0.25	93	7	10S	-0.68
125	34	0.33	105	8	07S	-0.84
		0.38	94	9	07S	-0.75
125	86	0.94	79	16	07S	-0.69
		0.28	84	7	07S	-0.79
125	89	0.41	102	11	07S	-0.80
125	98	0.40	101	11	10S	-0.74
125	100	0.39	83	11	10S	-0.80
126	2	0.47	65	9	10S	+0.66
126	13	0.68	71	15	07S	-0.69
		0.47	57	10	07S	-0.82
126	26	0.36	60	9	15S	-0.77
126	43	0.23	73	6	07S	-0.76
126	53	0.40	129	10	07S	-0.76
127	3	0.64	14	15	10S	-0.67
		0.43	84	11	10S	+0.64
		1.13	83	18	10S	+0.64
127	31	0.38	81	9	07S	-0.75
		0.60	80	12	07S	-0.77
127	58	0.62	91	15	07S	-0.70
127	95	0.62	79	16	10S	-0.76
127	96	0.51	87	11	10S	-0.80
128	33	0.38	126	9	09S	-0.77
		0.62	93	12	09S	-0.66
128	38	0.34	87	9	09S	-0.78
128	53	0.59	84	15	13S	-0.71
128	66	0.40	90	11	07S	-0.79
128	93	0.30	100	9	10S	-0.78
128	94	0.36	96	8	10S	-0.64
129	2	0.44	79	8	11S	-0.81
129	34	0.91	90	22	07S	-0.78
129	40	0.26	80	7	07S	-0.78

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
129	41	0.15	109	32	LTS	+21.40
129	52	0.38	92	10	07S	-0.72
129	53	0.40	115	10	09S	-0.81
		0.32	72	8	07S	-0.77
129	69	0.41	123	12	07S	-0.75
129	93	0.30	110	8	10S	-0.65
129	94	0.13	89	6	10S	-0.75
		0.23	86	7	10S	-0.78
130	14	0.53	92	16	09S	-0.80
130	19	0.45	25	12	10S	-0.81
130	23	0.85	84	20	07S	-0.74
130	33	0.38	89	11	07S	-0.81
		0.65	67	13	07S	-0.70
130	39	0.35	99	10	03S	-0.68
130	47	0.41	124	10	07S	-0.76
130	92	0.51	104	11	10S	-0.73
130	93	0.14	21	7	10S	-0.75
		0.30	91	9	10S	-0.80
131	3	0.19	141	24	LTS	+37.30
131	50	0.43	122	11	07S	-0.77
131	67	0.50	109	10	07S	-0.79
		0.31	104	6	07S	-0.77
132	26	0.31	92	10	07S	-0.79
		0.35	97	7	07S	-0.78
132	30	0.42	96	13	07S	-0.77
		0.72	76	14	07S	-0.77
132	36	0.28	131	7	07S	-0.79
132	45	0.51	91	13	07S	-0.69
132	48	0.64	109	15	07S	-0.75
132	58	0.44	94	12	07S	-0.77
132	63	0.65	93	15	07S	-0.79
132	76	0.29	83	8	13S	-0.82
132	84	0.36	100	8	10S	-0.73
132	85	0.12	75	6	07S	-0.74
		0.30	87	9	07S	-0.80
133	35	0.28	90	7	07S	-0.75
134	29	0.44	91	12	07S	-0.81
		0.67	69	13	07S	-0.75
134	38	0.44	109	11	07S	-0.79
134	39	0.31	79	5	07S	-0.75
		0.25	95	7	07S	-0.84

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
134	45	0.47	47	12	07S	-0.72
134	63	0.49	90	11	07S	-0.77
134	78	0.30	50	6	07S	-0.82
		0.24	96	7	07S	-0.82
135	29	0.59	93	16	07S	-0.77
135	41	0.33	128	8	07S	-0.72
135	43	0.33	110	8	07S	-0.79
		0.37	137	9	09S	-0.77
135	47	0.39	133	10	07S	-0.77
135	81	0.33	108	7	10S	-0.73
136	1	0.52	87	13	10S	+0.67
		1.13	88	18	10S	+0.74
136	3	0.69	89	16	10S	+0.62
		0.42	148	11	11S	-0.81
136	13	0.27	116	8	15S	-0.70
136	15	0.29	64	14	15S	-0.77
		0.25	152	6	15S	-0.73
136	28	0.47	36	13	07S	-0.79
136	32	0.57	115	14	07S	-0.79
136	45	0.66	93	16	07S	-0.71
136	49	0.32	92	9	07S	-0.76
137	1	0.41	69	11	10S	+0.64
		1.37	103	21	10S	+0.75
137	3	0.47	105	12	10S	+0.64
		1.16	91	18	10S	+0.69
137	28	0.26	61	7	07S	-0.77
		0.44	85	9	07S	-0.75
138	1	0.28	111	7	10S	-0.84
138	2	0.54	27	10	10S	-0.66
		0.69	127	13	10S	+0.72
		0.83	35	15	11S	-0.81
138	9	0.30	95	9	09S	+0.61
		0.89	81	17	09S	+0.74
138	20	0.57	64	23	07S	-0.75
		0.62	78	12	07S	-0.71
138	28	0.31	89	15	07S	-0.75
		0.49	133	12	07S	-0.75
138	30	0.60	91	15	07S	-0.62
138	63	0.33	69	7	13S	-0.86
139	7	0.40	56	12	05S	-0.79
		0.35	139	7	05S	-0.75

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
139	15	0.26	133	8	07S	-0.75
		0.66	100	13	07S	-0.67
139	21	0.50	68	14	07S	-0.77
		0.52	112	12	07S	-0.75
139	24	0.20	78	5	07S	-0.77
		0.37	151	9	07S	-0.75
139	45	0.73	110	17	07S	-0.79
139	74	0.57	112	11	07S	-0.69
		0.80	95	19	07S	-0.82
140	3	0.33	61	10	03S	-0.79
140	14	0.26	64	7	07S	-0.75
		0.43	66	10	07S	-0.75
140	15	1.37	94	28	07S	-0.78
		1.69	70	28	07S	-0.78
140	21	0.71	85	18	07S	-0.75
140	32	0.63	87	9	07S	-0.75
		0.38	80	10	07S	-0.82
140	58	0.32	90	7	13S	-0.82
141	3	0.51	37	14	10S	-0.76
141	4	0.46	59	12	10S	+0.64
141	10	0.29	112	14	07S	-0.75
		0.38	106	8	07S	-0.70
141	26	0.16	78	4	07S	-0.81
141	29	0.47	90	12	13S	-0.65
141	39	0.68	68	10	07S	-0.75
		0.34	75	9	07S	-0.80
141	57	1.04	62	18	07S	-0.76
		0.40	94	11	07S	-0.80
141	59	0.33	86	9	14S	-0.82
141	61	0.28	71	8	05S	+0.36
142	11	0.39	70	11	07S	-0.73
142	12	0.38	69	11	07S	-0.78
142	14	0.57	93	15	07S	-0.80
142	15	0.35	68	16	07S	-0.79
		0.47	99	11	07S	-0.75
142	17	0.51	100	13	07S	-0.77
142	25	0.62	88	9	07S	-0.75
		0.29	81	8	07S	-0.76
142	34	0.41	46	10	08S	-0.62
142	38	0.33	104	8	07S	-0.79
142	40	0.60	62	8	13S	-0.61

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
		0.38	131	10	13S	-0.81
142	65	0.30	62	8	08S	-0.82
143	3	0.51	91	14	10S	-0.75
143	15	0.39	32	11	04S	-0.82
143	26	0.61	72	9	07S	-0.75
		0.21	94	6	07S	-0.80
143	31	0.31	106	8	07S	-0.77
144	2	0.53	38	14	10S	-0.67
144	3	0.41	24	11	10S	+0.64
		0.57	27	15	10S	-0.71
144	8	0.27	73	8	07S	-0.75
		0.33	148	7	07S	-0.71
144	9	0.45	109	20	07S	-0.75
		0.32	103	8	07S	-0.75
144	12	0.88	82	21	07S	-0.76
144	13	0.49	87	13	07S	-0.75
144	15	0.73	73	18	07S	-0.85
144	16	0.56	99	15	07S	-0.78
144	19	0.29	91	14	07S	-0.77
		0.41	93	8	07S	-0.69
144	22	0.32	111	8	07S	-0.77
144	23	0.44	92	7	07S	-0.75
		0.22	99	6	07S	-0.82
144	31	0.46	79	7	07S	-0.74
		0.22	85	6	07S	-0.75
144	49	0.69	85	17	07S	-0.80
144	56	0.43	90	10	07S	-0.77
144	57	0.63	93	16	07S	-0.77
		0.28	107	8	13S	-0.82
145	2	0.40	58	11	10S	-0.74
145	8	0.56	87	15	07S	-0.77
145	10	0.14	63	4	04S	-0.83
		0.31	56	15	07S	-0.75
		0.24	21	6	07S	-0.72
145	12	0.36	81	10	07S	-0.69
145	13	0.45	65	20	07S	-0.77
		0.58	44	14	07S	-0.75
145	15	0.28	78	14	07S	-0.79
		0.39	107	8	07S	-0.70
145	21	0.29	118	7	07S	-0.77
145	22	0.23	97	6	13S	-0.86

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
		0.28	64	4	13S	-0.68
145	26	0.25	67	7	07S	-0.90
145	28	0.43	85	11	07S	-0.82
145	34	0.62	91	15	07S	-0.69
145	54	1.06	88	18	10S	-0.70
		0.29	102	8	10S	-0.77
146	11	0.22	103	6	07S	-0.73
		0.54	130	11	07S	-0.71
146	14	0.90	76	14	07S	-0.73
		1.08	90	24	07S	-0.85
146	16	0.28	90	8	07S	-0.77
		0.34	137	8	07S	-0.74
146	18	0.38	92	6	07S	-0.75
		0.30	78	8	07S	-0.80
146	19	0.32	90	8	07S	-0.73
146	26	0.50	107	8	07S	-0.62
		0.51	97	8	07S	+0.67
		0.66	98	16	09S	-0.79
		0.29	68	7	09S	+0.58
		0.90	90	20	08S	-0.75
		0.38	78	9	07S	+0.68
146	30	0.33	72	8	07S	-0.77
146	47	0.35	94	7	07S	-0.79
		0.45	91	8	07S	-0.75
146	48	0.47	121	12	10S	-0.71
146	49	0.31	114	6	10S	-0.69
146	50	0.29	119	8	10S	-0.71
147	5	0.32	100	10	13S	-0.84
147	12	0.51	96	13	07S	-0.77
		0.53	46	13	07S	-0.74
147	15	0.12	142	3	07S	+0.58
		0.36	96	9	07S	-0.75
147	16	0.31	108	5	07S	-0.64
		0.59	86	9	07S	+0.63
		0.23	101	7	07S	-0.73
147	23	0.34	95	9	09S	-0.85
		0.34	98	9	03S	-0.75
147	24	0.44	78	12	07S	-0.80
147	32	0.48	95	7	09S	+0.56
		0.23	111	7	09S	+0.56
147	43	0.22	86	4	10S	-0.73

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
147	44	0.55	72	10	07S	-0.71
		0.36	81	7	10S	-0.68
		0.34	87	9	07S	-0.75
		0.22	80	6	10S	-0.69
147	45	0.22	85	4	13S	-0.77
148	2	0.27	112	8	09S	-0.82
		0.63	112	12	09S	-0.75
148	17	0.53	106	13	07S	+0.66
148	20	0.37	76	6	10S	-0.75
		0.79	78	12	10S	+0.67
		0.14	96	4	10S	-0.78
		0.27	49	8	10S	+0.67
148	36	1.18	70	19	10S	-0.71
		0.67	84	12	10S	+0.68
		0.34	67	7	10S	+0.62
148	41	0.45	100	8	10S	-0.75
		0.31	93	9	10S	-0.73
149	11	0.49	99	13	07S	-0.80
149	13	0.92	101	21	10S	+0.64
149	15	0.46	72	7	11S	-0.70
		0.30	74	8	10S	+0.62
		0.14	100	4	11S	-0.81
149	17	0.92	76	14	10S	+0.68
		0.56	78	9	10S	-0.65
		0.22	75	6	10S	+0.62
149	24	0.40	78	10	10S	+0.62
149	26	0.28	104	7	10S	-0.64
149	27	0.88	70	13	10S	-0.63
		0.56	63	8	10S	+0.65
		0.38	111	10	10S	-0.64
		0.29	92	8	10S	+0.62
149	28	0.31	172	8	10S	+0.60
149	29	0.33	114	7	10S	-0.71
149	30	0.38	80	10	10S	+0.62
		0.52	90	14	10S	-0.67
149	31	0.91	75	16	10S	-0.70
		0.42	96	8	10S	+0.70
		0.47	68	11	10S	-0.73
		0.37	76	8	10S	+0.64
149	32	0.32	75	9	10S	+0.67
		0.38	101	10	10S	-0.73

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
		0.51	100	9	10S	-0.67
		0.69	96	12	10S	+0.67
149	33	0.23	92	4	10S	-0.77
150	1	0.74	75	19	10S	+0.65
		0.24	60	7	10S	-0.73
150	5	0.20	84	6	10S	-0.67
150	10	0.46	98	11	10S	+0.60
150	11	0.33	106	9	10S	+0.62
150	12	0.42	93	10	10S	+0.62
		0.29	119	7	10S	-0.71
150	13	0.39	89	10	10S	+0.62
		0.26	94	7	10S	-0.58
150	15	0.76	69	11	10S	-0.69
		0.54	66	8	10S	+0.62
		0.54	89	14	07S	-0.80
		0.28	86	8	10S	+0.62
		0.21	91	6	10S	-0.69
150	17	0.67	75	10	10S	-0.73
		0.31	94	5	10S	+0.65
		0.23	99	6	14S	-0.73
		0.28	89	8	10S	-0.80
		0.56	71	8	14S	-0.64
150	18	0.28	82	7	10S	-0.75
150	19	0.94	66	14	10S	-0.60
		0.66	68	10	10S	+0.75
		0.19	80	5	10S	+0.60
		0.37	96	10	10S	-0.77
150	20	0.40	70	10	10S	+0.60
		0.30	110	8	10S	-0.73
150	21	0.97	72	14	10S	-0.65
		0.56	96	9	10S	+0.57
		0.46	109	12	10S	-0.79
		0.27	104	7	14S	-0.80
		0.25	108	7	10S	+0.56
		0.47	67	7	14S	-0.63
150	22	0.25	103	7	10S	+0.56
		0.33	134	9	10S	-0.71
150	23	0.82	65	12	10S	-0.70
		0.79	94	12	10S	+0.59
		0.36	101	10	10S	+0.60
		0.35	90	9	10S	-0.75

Tubes In Service with Through-wall Indications 1%-39%
OTSG B

ROW	COL	VOLTS	DEG	%TW	LOCATION	INCH
150	24	1.38	80	19	10S	-0.66
		1.03	87	15	10S	+0.64
		0.37	130	9	10S	-0.79
		0.51	86	12	10S	+0.62
150	25	0.25	127	5	10S	-0.75
150	27	0.32	83	9	10S	-0.75
151	2	0.33	81	9	10S	-0.73
		0.23	73	7	13S	-0.77
		0.74	80	10	13S	-0.74
151	3	0.31	99	8	10S	-0.73
151	4	0.31	75	8	10S	-0.75
151	5	0.18	83	5	10S	-0.77
151	8	0.47	104	7	10S	-0.73
		0.19	124	5	10S	-0.73
151	9	0.33	79	5	10S	-0.75
		0.20	91	6	10S	-0.79
151	10	0.71	93	11	10S	-0.70
		0.41	108	6	10S	+0.60
		0.32	106	8	10S	-0.75
		0.19	66	5	10S	+0.64
151	11	0.31	67	5	10S	-0.75
		0.27	100	8	10S	-0.77
151	12	0.29	69	8	10S	+0.57
		0.38	114	10	10S	-0.77
151	15	0.62	93	15	10S	+0.64
		0.30	139	8	10S	-0.71

SPECIAL REPORT 02-01

RESULTS OF THE ONCE THROUGH STEAM GENERATOR TUBE INSERVICE INSPECTION CONDUCTED DURING REFUEL OUTAGE 12

APPENDIX 2

FIRST SPAN IGA OTSG-B

First Span IGA in OTSG-B
Regression Analysis

ROW	COL	VOLTS	DEG	%TW	ID'd in 2001	Plugged in 2001	Previous Volts	Previous %TW	Volt Growth	TW Growth (%)
4	40	0.15	132	28			0.10	29	0.05	-1.00
16	22	0.09	90	22			0.11	28	-0.02	-6.00
24	43	0.18	132	31			0.19	36	-0.01	-5.00
38	45	0.33	170	32			0.24	34	0.09	-2.00
38	64	0.16	141	28			0.17	35	-0.01	-7.00
39	44	0.20	166	31			0.10	31	0.10	0.00
		0.15	127	34			0.13	35	0.02	-1.00
		0.16	149	28			0.12	33	0.04	-5.00
		0.36	175	27			0.36	24	0.00	3.00
		0.12	154	16			0.14	17	-0.02	-1.00
		0.26	158	31			0.21	34	0.05	-3.00
40	45	0.19	63	30			0.15	31	0.04	-1.00
		0.13	148	24			0.21	30	-0.08	-6.00
40	46	0.21	151	29	Yes					
41	39	0.16	71	26			0.12	27	0.04	-1.00
42	34	0.19	149	24	Yes					
42	42	0.22	147	30			0.33	36	-0.11	-6.00
		0.16	83	33			0.17	36	-0.01	-3.00
		0.11	133	26			0.10	22	0.01	4.00
42	47	0.11	62	26			0.08	25	0.03	1.00
42	63	0.11	122	28			0.13	30	-0.02	-2.00
		0.13	131	26			0.15	30	-0.02	-4.00
43	48	0.09	172	16			0.05	18	0.04	-2.00
		0.09	92	25			0.14	31	-0.05	-6.00
43	49	0.31	159	33			0.38	36	-0.07	-3.00
		0.31	174	29			0.32	32	-0.01	-3.00
		0.08	124	24			0.06	23	0.02	1.00
43	82	0.07	139	26			0.07	26	0.00	0.00
45	40	0.21	142	29			0.21	34	0.00	-5.00
		0.45	174	34			0.47	33	-0.02	1.00
		0.24	157	34			0.25	35	-0.01	-1.00
45	48	0.13	96	30			0.12	34	0.01	-4.00
45	49	0.16	124	27			0.15	31	0.01	-4.00
46	41	0.27	128	36			0.19	33	0.08	3.00
46	49	0.16	135	34			0.18	34	-0.02	0.00
48	43	0.17	154	26			0.13	28	0.04	-2.00
		0.11	123	24			0.18	35	-0.07	-11.00
		0.20	114	29			0.14	26	0.06	3.00

First Span IGA in OTSG-B
Regression Analysis

ROW	COL	VOLTS	DEG	%TW	ID'd in 2001	Plugged in 2001	Previous Volts	Previous %TW	Volt Growth	TW Growth (%)
		0.08	132	26			0.26	29	-0.18	-3.00
		0.30	168	29			0.05	18	0.25	11.00
48	61	0.14	151	21			0.15	18	-0.01	3.00
48	72	0.10	135	25			0.11	31	-0.01	-6.00
49	56	0.09	142	26			0.09	30	0.00	-4.00
		0.11	154	22			0.09	21	0.02	1.00
51	30	0.39	154	35			0.36	37	0.03	-2.00
51	55	0.24	146	36			0.23	30	0.01	6.00
51	79	0.22	135	36			0.26	33	-0.04	3.00
		0.21	149	31			0.19	35	0.02	-4.00
51	80	0.11	111	27			0.16	33	-0.05	-6.00
52	37	0.04	128	26			0.05	15	-0.01	11.00
		0.14	153	25			0.17	27	-0.03	-2.00
		0.11	92	28			0.12	35	-0.01	-7.00
		0.10	155	24			0.07	24	0.03	0.00
52	49	0.17	145	30			0.20	30	-0.03	0.00
53	44	0.11	149	31			0.06	33	0.05	-2.00
		0.14	104	30			0.20	34	-0.06	-4.00
		0.26	139	32			0.29	35	-0.03	-3.00
		0.09	111	26			0.09	27	0.00	-1.00
54	82	0.24	121	32			0.23	38	0.01	-6.00
		0.16	134	29			0.12	38	0.04	-9.00
		0.09	114	22			0.06	22	0.03	0.00
56	37	0.11	106	25			0.30	33	-0.19	-8.00
		0.27	145	29			0.11	33	0.16	-4.00
56	53	0.13	166	27			0.14	29	-0.01	-2.00
		0.07	105	21			0.15	19	-0.08	2.00
		0.32	163	26			0.24	26	0.08	0.00
		0.24	157	32			0.26	36	-0.02	-4.00
57	33	0.23	151	36			0.22	34	0.01	2.00
		0.20	146	27			0.25	28	-0.05	-1.00
57	89	0.09	121	21			0.11	29	-0.02	-8.00
		0.08	151	13			0.07	28	0.01	-15.00
		0.11	137	25			0.09	27	0.02	-2.00
		0.16	134	27			0.16	31	0.00	-4.00
58	33	0.17	52	27			0.12	28	0.05	-1.00
		0.08	56	25			0.04	19	0.04	6.00
		0.16	143	30			0.12	28	0.04	2.00
58	89	0.23	139	34			0.20	37	0.03	-3.00

First Span IGA in OTSG-B
Regression Analysis

ROW	COL	VOLTS	DEG	%TW	ID'd in 2001	Plugged in 2001	Previous Volts	Previous %TW	Volt Growth	TW Growth (%)
59	30	0.22	163	25			0.25	23	-0.03	2.00
59	40	0.10	105	23			0.14	30	-0.04	-7.00
59	80	0.18	140	29			0.13	31	0.05	-2.00
60	34	0.14	86	30			0.15	32	-0.01	-2.00
60	44	0.15	140	26			0.11	27	0.04	-1.00
61	25	0.31	157	33			0.32	32	-0.01	1.00
		0.27	137	35			0.21	35	0.06	0.00
61	27	0.13	80	29	Yes					
61	46	0.09	145	22	Yes					
61	82	0.11	141	23			0.10	26	0.01	-3.00
		0.21	123	32			0.20	31	0.01	1.00
61	88	0.13	121	27			0.16	34	-0.03	-7.00
62	28	0.48	152	35			0.05	31	0.43	4.00
		0.08	126	27			0.40	35	-0.32	-8.00
		0.11	139	28			0.17	31	-0.06	-3.00
		0.29	145	36			0.23	37	0.06	-1.00
62	44	0.07	157	30			0.09	35	-0.02	-5.00
		0.14	125	27			0.14	31	0.00	-4.00
62	99	0.13	130	27			0.16	36	-0.03	-9.00
		0.19	137	35			0.20	34	-0.01	1.00
63	26	0.14	142	30			0.30	27	-0.16	3.00
		0.40	173	28			0.14	33	0.26	-5.00
63	41	0.20	150	27			0.22	37	-0.02	-10.00
		0.22	129	32			0.25	38	-0.03	-6.00
64	42	0.21	126	34	Yes					
65	37	0.19	134	28			0.24	31	-0.05	-3.00
		0.16	78	28			0.13	31	0.03	-3.00
		0.12	144	24			0.14	32	-0.02	-8.00
		0.12	109	29			0.13	30	-0.01	-1.00
		0.19	108	33			0.16	37	0.03	-4.00
		0.20	84	33			0.16	35	0.04	-2.00
		0.06	49	10			0.05	17	0.01	-7.00
65	42	0.07	93	15			0.10	22	-0.03	-7.00
65	44	0.16	66	28			0.19	38	-0.03	-10.00
		0.14	134	24			0.16	31	-0.02	-7.00
65	48	0.06	97	16			0.07	20	-0.01	-4.00
		0.11	145	20			0.15	26	-0.04	-6.00
		0.12	88	32			0.08	18	0.04	14.00
		0.04	48	19			0.13	30	-0.09	-11.00

First Span IGA in OTSG-B
Regression Analysis

ROW	COL	VOLTS	DEG	%TW	ID'd in 2001	Plugged in 2001	Previous Volts	Previous %TW	Volt Growth	TW Growth (%)
		0.11	136	29			0.10	34	0.01	-5.00
		0.43	166	32			0.40	36	0.03	-4.00
		0.13	125	27			0.20	28	-0.07	-1.00
65	50	0.12	125	28			0.14	29	-0.02	-1.00
		0.08	88	28			0.09	33	-0.01	-5.00
66	34	0.11	122	29			0.17	29	-0.06	0.00
		0.06	65	27			0.05	19	0.01	8.00
67	50	0.20	62	32			0.22	35	-0.02	-3.00
68	38	0.16	153	28			0.16	23	0.00	5.00
		0.20	155	30			0.20	30	0.00	0.00
		0.21	158	25			0.07	27	0.14	-2.00
		0.20	77	35			0.18	33	0.02	2.00
		0.14	121	29			0.17	30	-0.03	-1.00
68	99	0.30	89	36			0.30	37	0.00	-1.00
		0.43	162	31						
69	42	0.26	146	27			0.24	30	0.04	-6.00
70	38	0.26	146	33			0.22	33	0.26	33.00
		0.11	116	36					0.11	36.00
		0.09	141	33					0.09	33.00
		0.18	155	23					0.18	23.00
70	58	0.15	108	27			0.12	30	0.03	-3.00
71	95	0.11	122	26			0.14	29	-0.03	-3.00
73	44	0.11	86	25			0.15	34	-0.04	-9.00
77	86	0.11	139	27			0.10	27	0.01	0.00
77	90	0.22	122	28	Yes	Yes				
78	41	0.06	125	26			0.08	31	-0.02	-5.00
78	45	0.24	74	28			0.18	36	0.06	-8.00
78	93	0.25	130	37	Yes					
78	95	0.14	155	15	Yes					
		0.26	144	28						
		0.22	145	31						
79	43	0.18	127	35	Yes					
79	92	0.20	141	34	Yes					
		0.17	139	35						
79	95	0.16	120	25	Yes	Yes				
79	97	0.22	157	36			0.25	33	-0.03	3.00
		0.35	137	38			0.32	38	0.03	0.00
80	48	0.17	144	28	Yes					
80	99	0.21	125	34			0.20	34	0.01	0.00

First Span IGA in OTSG-B
Regression Analysis

ROW	COL	VOLTS	DEG	%TW	ID'd in 2001	Plugged in 2001	Previous Volts	Previous %TW	Volt Growth	TW Growth (%)
		0.16	116	31			0.15	34	0.01	-3.00
		0.30	164	30			0.34	34	-0.04	-4.00
		0.33	155	34			0.16	33	0.17	1.00
		0.14	80	32			0.32	32	-0.18	0.00
81	104	0.11	118	32			0.12	31	-0.01	1.00
83	100	0.12	128	28			0.27	31	-0.15	-3.00
		0.20	133	32			0.34	33	-0.14	-1.00
		0.08	62	19			0.10	21	-0.02	-2.00
84	31	0.26	139	34			0.25	36	0.01	-2.00
84	93	0.10	127	29			0.10	33	0.00	-4.00
84	96	0.07	137	22			0.22	35	-0.15	-13.00
		0.14	154	30			0.17	34	-0.03	-4.00
		0.22	122	34			0.05	15	0.17	19.00
84	98	0.09	127	31			0.07	27	0.02	4.00
		0.11	116	28			0.10	25	0.01	3.00
		0.32	151	30			0.28	37	0.04	-7.00
		0.42	164	35			0.40	33	0.02	2.00
		0.14	172	18			0.05	11	0.09	7.00
		0.16	105	30			0.10	27	0.06	3.00
84	100	0.15	163	29			0.10	26	0.05	3.00
		0.26	143	35			0.18	35	0.08	0.00
		0.19	163	29			0.27	32	-0.08	-3.00
85	43	0.25	118	35			0.21	34	0.04	1.00
85	92	0.12	139	26			0.10	30	0.02	-4.00
85	96	0.23	92	36			0.23	37	0.00	-1.00
85	98	0.24	143	34			0.25	34	-0.01	0.00
86	24	0.22	115	34			0.25	36	-0.03	-2.00
		0.30	152	34			0.28	36	0.02	-2.00
87	39	0.14	105	28	Yes					
88	34	0.20	82	35			0.11	33	0.09	2.00
		0.13	118	31			0.21	37	-0.08	-6.00
88	45	0.20	138	35	Yes					
89	33	0.25	144	34			0.21	35	0.04	-1.00
89	39	0.24	132	31	Yes					
89	89	0.17	162	14			0.16	17	0.01	-3.00
		0.19	135	27			0.17	32	0.02	-5.00
		0.13	138	28			0.14	24	-0.01	4.00
90	40	0.06	117	25			0.15	33	-0.09	-8.00
		0.11	120	27			0.10	30	0.01	-3.00

First Span IGA in OTSG-B
Regression Analysis

ROW	COL	VOLTS	DEG	%TW	ID'd in 2001	Plugged in 2001	Previous Volts	Previous %TW	Volt Growth	TW Growth (%)
		0.17	96	31			0.10	28	0.07	3.00
		0.11	88	25			0.10	26	0.01	-1.00
		0.11	85	29			0.24	36	-0.13	-7.00
		0.20	142	32			0.07	28	0.13	4.00
		0.08	150	22			0.28	38	-0.20	-16.00
		0.33	149	34			0.04	20	0.29	14.00
90	88	0.22	139	26			0.18	33	0.04	-7.00
91	20	0.16	135	30	Yes	Yes				
91	39	0.05	106	19	Yes	Yes				
		0.11	69	23	Yes	Yes				
		0.13	145	31	Yes	Yes				
91	93	0.13	109	31			0.11	31	0.02	0.00
91	94	0.18	128	32			0.16	33	0.02	-1.00
		0.20	154	31					0.20	31.00
91	98	0.22	117	33			0.21	39	0.01	-6.00
		0.17	112	32					0.17	32.00
92	26	0.20	90	34			0.28	37	-0.08	-3.00
		0.30	165	34			0.25	34	0.05	0.00
		0.28	152	27			0.15	30	0.13	-3.00
		0.07	106	21			0.08	26	-0.01	-5.00
92	39	0.20	148	32			0.19	35	0.01	-3.00
92	40	0.13	62	29	Yes					
92	43	0.48	156	35			0.37	38	0.11	-3.00
93	31	0.21	85	34			0.22	36	-0.01	-2.00
		0.14	72	27			0.19	30	-0.05	-3.00
93	46	0.17	165	25			0.15	26	0.02	-1.00
		0.11	133	25			0.10	24	0.01	1.00
		0.31	156	30			0.28	29	0.03	1.00
		0.19	156	21			0.12	20	0.07	1.00
93	79	0.16	128	35			0.16	33	0.00	2.00
93	87	0.12	155	13			0.11	22	0.01	-9.00
93	94	0.30	142	37			0.23	36	0.07	1.00
		0.56	167	35			0.44	35	0.12	0.00
95	36	0.33	174	25			0.30	33	0.03	-8.00
		0.19	134	32			0.15	35	0.04	-3.00
		0.17	80	30			0.19	37	-0.02	-7.00
95	45	0.08	97	24			0.06	24	0.02	0.00
		0.27	149	32			0.24	35	0.03	-3.00
		0.11	76	28			0.12	34	-0.01	-6.00

First Span IGA in OTSG-B
Regression Analysis

ROW	COL	VOLTS	DEG	%TW	ID'd in 2001	Plugged in 2001	Previous Volts	Previous %TW	Volt Growth	TW Growth (%)
		0.21	162	23			0.20	24	0.01	-1.00
95	47	0.11	104	26			0.08	27	0.03	-1.00
96	40	0.19	142	35			0.29	38	-0.10	-3.00
96	41	0.14	142	23			0.15	27	-0.01	-4.00
		0.26	130	36			0.36	36	-0.10	0.00
96	42	0.25	156	30			0.28	34	-0.03	-4.00
		0.35	153	37			0.29	37	0.06	0.00
		0.27	154	30			0.16	30	0.11	0.00
96	44	0.14	54	26			0.15	30	-0.01	-4.00
		0.11	100	26			0.12	25	-0.01	1.00
96	45	0.20	125	32			0.13	31	0.07	1.00
96	91	0.09	134	20			0.08	22	0.01	-2.00
97	41	0.21	70	34			0.23	35	-0.02	-1.00
		0.17	157	30			0.25	28	-0.08	2.00
97	49	0.22	160	31			0.12	30	0.10	1.00
		0.17	135	33			0.15	32	0.02	1.00
98	39	0.10	107	27			0.13	25	-0.03	2.00
		0.13	119	30			0.20	37	-0.07	-7.00
		0.17	117	32			0.16	35	0.01	-3.00
		0.15	106	34			0.17	37	-0.02	-3.00
		0.13	100	30			0.11	31	0.02	-1.00
98	42	0.16	53	27	Yes					
		0.21	152	33						
98	45	0.08	130	28			0.09	30	-0.01	-2.00
98	47	0.16	49	28			0.12	32	0.04	-4.00
		0.09	59	22			0.07	23	0.02	-1.00
99	32	0.09	94	27	Yes	Yes				
		0.22	53	28	Yes	Yes				
99	41	0.19	104	32			0.18	31	0.01	1.00
100	33	0.20	54	32			0.18	35	0.02	-3.00
		0.18	86	34			0.22	36	-0.04	-2.00
100	36	0.29	146	36			0.28	37	0.01	-1.00
		0.28	68	33			0.24	34	0.04	-1.00
100	38	0.19	131	33			0.15	35	0.04	-2.00
		0.37	173	31			0.09	30	0.28	1.00
		0.11	77	22			0.37	36	-0.26	-14.00
100	41	0.34	143	36			0.31	34	0.03	2.00
		0.39	165	34			0.36	38	0.03	-4.00
100	45	0.12	107	31			0.12	28	0.00	3.00

First Span IGA in OTSG-B
Regression Analysis

ROW	COL	VOLTS	DEG	%TW	ID'd in 2001	Plugged in 2001	Previous Volts	Previous %TW	Volt Growth	TW Growth (%)
100	66	0.10	117	23			0.09	25	0.01	-2.00
100	92	0.25	161	29			0.15	32	0.10	-3.00
		0.14	94	26			0.19	28	-0.05	-2.00
101	43	0.20	59	31			0.17	32	0.03	-1.00
101	47	0.10	81	28			0.10	30	0.00	-2.00
		0.20	171	26			0.19	22	0.01	4.00
		0.16	128	31			0.10	28	0.06	3.00
101	98	0.09	75	26			0.10	26	-0.01	0.00
		0.13	139	26			0.13	30	0.00	-4.00
102	41	0.30	157	32			0.25	34	0.05	-2.00
102	43	0.13	129	27			0.12	27	0.01	0.00
		0.20	94	34			0.22	36	-0.02	-2.00
		0.34	165	33			0.29	32	0.05	1.00
102	44	0.15	80	29	Yes					
103	36	0.20	145	32	Yes					
103	37	0.13	158	28			0.07	27	0.06	1.00
		0.24	134	33			0.25	33	-0.01	0.00
		0.26	124	33			0.24	38	0.02	-5.00
103	41	0.12	103	27			0.13	32	-0.01	-5.00
103	48	0.22	155	30	Yes	Yes				
103	94	0.15	117	30	Yes					
104	40	0.18	159	31			0.08	25	0.10	6.00
		0.09	113	28			0.18	32	-0.09	-4.00
104	44	0.10	49	24			0.13	27	-0.03	-3.00
		0.13	153	30			0.16	27	-0.03	3.00
		0.05	58	24			0.11	28	-0.06	-4.00
104	90	0.09	121	30			0.15	32	-0.06	-2.00
		0.13	108	32			0.24	34	-0.11	-2.00
		0.11	143	33			0.09	34	0.02	-1.00
106	41	0.12	119	31	Yes	Yes				
		0.10	140	29	Yes	Yes				
106	42	0.25	120	34			0.29	37	-0.04	-3.00
		0.10	78	28			0.10	31	0.00	-3.00
		0.22	149	31			0.19	32	0.03	-1.00
		0.09	108	25			0.11	32	-0.02	-7.00
106	43	0.10	127	23	Yes					
106	48	0.25	141	32			0.30	35	-0.05	-3.00
106	50	0.25	54	30			0.19	30	0.06	0.00
		0.08	80	28			0.10	28	-0.02	0.00

First Span IGA in OTSG-B
Regression Analysis

ROW	COL	VOLTS	DEG	%TW	ID'd in 2001	Plugged in 2001	Previous Volts	Previous %TW	Volt Growth	TW Growth (%)
106	74	0.05	157	14			0.02	12	0.03	2.00
		0.13	125	30			0.12	31	0.01	-1.00
107	47	0.17	80	33			0.23	34	-0.06	-1.00
		0.11	120	29			0.15	34	-0.04	-5.00
		0.17	120	31			0.12	31	0.05	0.00
		0.26	148	32			0.15	31	0.11	1.00
107	66	0.06	135	27			0.08	31	-0.02	-4.00
		0.08	124	23			0.08	29	0.00	-6.00
		0.13	139	24			0.13	26	0.00	-2.00
		0.08	137	19			0.09	23	-0.01	-4.00
108	34	0.21	62	29			0.21	35	0.00	-6.00
108	74	0.15	138	30			0.16	30	-0.01	0.00
109	46	0.13	132	26			0.15	24	-0.02	2.00
		0.17	140	34			0.17	27	0.00	7.00
		0.22	145	27			0.23	31	-0.01	-4.00
110	32	0.24	152	28	Yes	Yes				
		0.06	118	33	Yes	Yes				
		0.18	154	30	Yes	Yes				
		0.12	148	32	Yes	Yes				
110	40	0.25	155	26			0.25	26	0.00	0.00
110	43	0.17	120	31			0.14	32	0.03	-1.00
110	46	0.09	58	29			0.14	31	-0.05	-2.00
110	52	0.14	111	30			0.13	34	0.01	-4.00
		0.08	113	20			0.10	24	-0.02	-4.00
		0.19	140	30			0.17	29	0.02	1.00
		0.15	116	32			0.18	32	-0.03	0.00
111	39	0.14	128	28	Yes					
111	42	0.19	169	35			0.26	31	-0.07	4.00
		0.36	161	32			0.16	35	0.20	-3.00
111	51	0.17	137	35			0.15	35	0.02	0.00
113	44	0.27	171	31			0.09	26	0.18	5.00
		0.23	152	29			0.20	27	0.03	2.00
		0.06	93	23			0.28	30	-0.22	-7.00
113	45	0.15	50	31			0.16	35	-0.01	-4.00
114	41	0.12	144	23	Yes					
		0.19	132	34						
114	42	0.10	98	21			0.09	23	0.01	-2.00
		0.32	152	34			0.33	37	-0.01	-3.00
		0.29	173	29			0.16	34	0.13	-5.00

First Span IGA in OTSG-B
Regression Analysis

ROW	COL	VOLTS	DEG	%TW	ID'd in 2001	Plugged in 2001	Previous Volts	Previous %TW	Volt Growth	TW Growth (%)
		0.20	169	33			0.16	30	0.04	3.00
		0.07	135	28			0.07	31	0.00	-3.00
114	43	0.14	51	28			0.15	33	-0.01	-5.00
		0.21	161	30			0.04	26	0.17	4.00
		0.30	168	31			0.23	28	0.07	3.00
		0.14	167	27			0.24	33	-0.10	-6.00
		0.11	154	31			0.24	30	-0.13	1.00
		0.03	81	14			0.11	29	-0.08	-15.00
114	46	0.12	132	22			0.12	25	0.00	-3.00
116	43	0.14	169	28			0.09	28	0.05	0.00
		0.07	137	27			0.22	35	-0.15	-8.00
		0.19	134	33			0.05	25	0.14	8.00
		0.09	122	25			0.15	30	-0.06	-5.00
118	41	0.16	112	33			0.21	34	-0.05	-1.00
		0.18	75	34			0.18	32	0.00	2.00
		0.19	140	31			0.12	28	0.07	3.00
123	77	0.10	128	26			0.10	30	0.00	-4.00
129	41	0.15	109	32			0.16	33	-0.01	-1.00
131	3	0.19	141	24			0.13	26	0.06	-2.00

SPECIAL REPORT 02-01

RESULTS OF THE ONCE THROUGH STEAM GENERATOR TUBE INSERVICE INSPECTION CONDUCTED DURING REFUEL OUTAGE 12

APPENDIX 3

TUBES PLUGGED

Appendix Reporting Codes

LTS- Lower Tubesheet
MCI- Multiple Circumferential Indication
MAI- Multiple Axial Indication
MVI- Multiple Volumetric Indication
NEX- No Expansion
SVI- Single Volumetric Indication
SCI- Single Circumferential Indication
SAI- Single Axial Indication
SAA- Single Axial Tube-End Anomaly
TWD-Through-Wall Dimension
UTE-Upper Tube End
VOL- Volumetric

Tubes Plugged in OTSG-A

ROW	TUBE	VOLTS	DEG	IND	LOCATION	INCH	PROBE	TYPE	PLUGGED
15	6	0.25	97	SVI	15S	+0.29	520PP	RPC	Yes
32	2	0.57	74	SCI	08S	-0.78	520PP	RPC	Yes
45	3	0.20	49	SAI	15S	-7.38	520PP	RPC	Yes
		0.21	46	SAI	15S	-9.54	520PP	RPC	Yes
		0.18	22	SAI	15S	-9.92	520PP	RPC	Yes
		0.10	19	SAI	15S	-10.22	520PP	RPC	Yes
		0.17	54	SAI	15S	-10.62	520PP	RPC	Yes
		0.11	72	SAI	15S	-11.48	520PP	RPC	Yes
		0.18	35	SAI	15S	-11.71	520PP	RPC	Yes
		0.20	42	SAI	15S	-13.78	520PP	RPC	Yes
		0.32	55	SAI	15S	+2.46	520PP	RPC	Yes
61	110	1.23	80	SVI	14S	+0.84	520PP	RPC	Yes
69	132	0.13	80	SVI	15S	+2.10	520PP	RPC	Yes
71	108	0.19	62	SVI	01S	+31.20	520PP	RPC	Yes
79	84	0.14	125	SVI	LTS	+1.16	520PP	RPC	Yes
82	40	0.09	121	SVI	UTE	-3.59	460PP	RPC	Yes
115	100	0.34	7	SAI	15S	+1.29	520PP	RPC	Yes
115	107	0.21	90	SAI	15S	+45.17	520PP	RPC	Yes
		0.14	93	SAI	15S	+46.16	520PP	RPC	Yes
115	108	0.14	89	SAI	15S	+44.79	520PP	RPC	Yes
		0.11	85	SAI	15S	+45.71	520PP	RPC	Yes
125	41	0.16	107	SVI	UTE	-3.58	460PP	RPC	Yes
125	83	0.11	100	SAI	15S	+4.36	520PP	RPC	Yes
129	1	0.55	34	SAI	UTE	-3.36	460PP	RPC	Yes

Tubes Plugged in OTSG-B

ROW	TUBE	VOLTS	DEG	IND	LOCATION	INCH	PROBE	TYPE	PLUGGED
4	1	1.53	22	SAA	UTE	-0.18	460PP	RPC	Yes
		0.40	77	SAI	14S	+28.27	520PP	RPC	Yes
19	16	0.73	83	SAI	UTE	-2.10	460PP	RPC	Yes
20	64	0.24	100	SVI	UTE	-3.51	460PP	RPC	Yes
26	1	0.16	131	SVI	UTE	-3.84	460PP	RPC	Yes
57	128	0.23	92	SAI	14S	+32.70	520PP	RPC	Yes
		0.61	61	SAI	14S	+34.00	520PP	RPC	Yes
74	55	4.40	28	SAA	UTE	-0.12	460PP	RPC	Yes
		0.92	71	SVI	UTS	+0.29	520PP	RPC	Yes
77	90	0.22	122	TWD	LTS	+13.22	510HF	BOBBIN	Yes
		0.21	72	VOL	LTS	+13.64	520PP	RPC	Yes
79	95	0.16	120	TWD	LTS	+11.59	510HF	BOBBIN	Yes
		0.16	83	VOL	LTS	+11.80	520PP	RPC	Yes
82	122	0.74	13	SAI	UTE	-4.56	460PP	RPC	Yes
91	20	0.16	135	TWD	LTS	+27.78	510HF	BOBBIN	Yes
		0.18	48	VOL	01S	-18.21	520PP	RPC	Yes
91	39	0.19	67	VOL	LTS	+8.76	520PP	RPC	Yes
		0.16	57	VOL	LTS	+11.30	520PP	RPC	Yes
		0.17	87	VOL	LTS	+12.09	520PP	RPC	Yes
		0.05	106	TWD	LTS	+12.12	510HF	BOBBIN	Yes
		0.11	69	TWD	LTS	+11.34	510HF	BOBBIN	Yes
		0.13	145	TWD	LTS	+8.23	510HF	BOBBIN	Yes
99	32	0.21	259	VOL	LTS	+9.27	520PP	RPC	Yes
		0.12	71	VOL	LTS	+14.98	520PP	RPC	Yes
		0.12	120	SVI	UTE	-3.36	460PP	RPC	Yes
		0.09	94	TWD	LTS	+15.04	510HF	BOBBIN	Yes
		0.22	53	TWD	LTS	+8.68	510HF	BOBBIN	Yes
100	1	0.62	14	MCI	UTE	-3.27	460PP	RPC	Yes
101	124	0.61	80	SVI	07S	+0.90	520PP	RPC	Yes
102	123	0.32	70	SVI	07S	+1.14	520PP	RPC	Yes
103	1	1.00	34	MAI	UTE	-3.22	460PP	RPC	Yes
		0.62	32	MAI	UTE	-4.50	460PP	RPC	Yes
103	48	0.13	73	VOL	LTS	+13.00	520PP	RPC	Yes
		0.22	155	TWD	LTS	+13.22	510HF	BOBBIN	Yes
106	41	0.17	83	VOL	LTS	+14.46	520PP	RPC	Yes
		0.13	41	VOL	LTS	+8.93	520PP	RPC	Yes
		0.12	119	TWD	LTS	+14.39	510HF	BOBBIN	Yes
		0.10	140	TWD	LTS	+9.03	510HF	BOBBIN	Yes
110	32	0.13	72	VOL	LTS	+7.06	520PP	RPC	Yes
		0.12	90	VOL	LTS	+8.53	520PP	RPC	Yes
		0.12	93	VOL	LTS	+9.49	520PP	RPC	Yes

Tubes Plugged in OTSG-B

		0.20	75	VOL	LTS	+11.31	520PP	RPC	Yes
		0.16	68	VOL	LTS	+12.18	520PP	RPC	Yes
		0.24	152	TWD	LTS	+12.20	510HF	BOBBIN	Yes
		0.06	118	TWD	LTS	+11.33	510HF	BOBBIN	Yes
		0.18	154	TWD	LTS	+9.53	510HF	BOBBIN	Yes
		0.12	148	TWD	LTS	+6.91	510HF	BOBBIN	Yes
113	1	0.42	135	MVI	UTE	-2.55	460PP	RPC	Yes
115	1	0.12	99	MVI	UTE	-2.32	460PP	RPC	Yes
118	97	0.43		NEX	LTE	+1.41	510UL	RPC	Yes
129	83	0.15	81	SVI	06S	+32.59	520PP	RPC	Yes
143	1	0.63	14	MCI	UTE	-3.25	460PP	RPC	Yes
146	2	6.54	23	SCI	UTE	-0.24	460PP	RPC	Yes
148	18	3.06	23	MAA	UTE	-0.17	460PP	RPC	Yes
149	34	0.11	83	SVI	07S	+1.48	520PP	RPC	Yes
		0.09	102	SVI	07S	+0.99	520PP	RPC	Yes
		1.42	14	SAA	UTE	-0.25	460PP	RPC	Yes

SPECIAL REPORT 02-01

RESULTS OF THE ONCE THROUGH STEAM GENERATOR TUBE INSERVICE INSPECTION CONDUCTED DURING REFUEL OUTAGE 12

APPENDIX 4

TUBES REPAIRED (RE-ROLLED)

Tubes Repaired in OTSG-A

ROW	TUBE
2	3
6	3
13	1
16	2
30	105
33	107
38	55
43	1
43	79
44	24
46	1
47	4
48	46
58	129
61	77
66	13
66	53
67	7
68	55
70	48
71	49
72	66
78	108
80	53
82	112
83	77
86	1
86	5
87	5
87	110
87	126
89	41
97	51
107	76
108	77
108	89
109	72
118	65
119	97
121	44
122	50
133	1

ROW	TUBE
133	72
134	21
134	33
143	2
143	4
145	1
146	50
148	4
149	2
150	6
151	11

Tubes Repaired in OTSG-B

ROW	TUBE
1	11
3	4
4	37
5	2
5	7
5	40
6	2
6	5
6	8
6	10
7	54
9	44
16	54
17	17
19	59
19	62
19	64
21	14
22	38
22	92
23	69
24	24
25	93
25	97
26	9
26	49
26	57
28	57
28	69
29	1
29	2
29	6
29	66
29	71
29	101
31	11
31	17
32	40
32	100
35	106
38	1
38	12

ROW	TUBE
39	10
43	12
45	1
46	31
47	3
47	39
48	20
50	117
51	102
52	45
52	59
53	36
53	82
54	28
54	36
55	31
55	72
55	92
56	14
56	33
56	83
56	86
57	34
57	83
57	84
57	87
57	109
58	33
58	58
58	84
58	85
58	125
58	128
59	12
59	30
59	82
59	124
60	124
60	128
61	19
61	94
63	43

ROW	TUBE
63	78
63	130
64	59
65	71
65	73
65	86
65	99
66	81
66	85
67	42
67	75
68	22
68	41
68	67
68	104
69	90
70	2
70	9
71	28
71	38
71	44
72	9
72	46
73	38
73	41
73	44
73	45
73	46
73	103
74	33
74	35
74	44
74	54
74	78
74	102
74	125
75	89
75	126
77	126
78	40
78	84
79	27

ROW	TUBE
79	34
79	45
79	54
80	40
80	63
81	19
81	47
81	51
81	53
82	14
82	59
83	97
84	19
84	34
84	106
85	43
85	52
85	63
85	89
85	94
86	46
86	61
86	64
86	118
87	3
87	25
87	26
87	54
87	126
88	19
88	27
88	33
88	40
89	16
90	11
90	41
91	38
91	58
92	22
92	85
93	1
94	7

Tubes Repaired in OTSG-B

ROW	TUBE
94	40
94	68
95	118
96	65
96	107
97	11
98	110
99	16
99	22
99	28
99	79
100	15
100	28
100	76
101	27
101	38
101	76
102	16
102	112
103	24
104	10
104	17
104	41
105	16
105	25
106	63
106	70
106	85
106	88
107	2
107	72
107	85
108	1
108	8
108	39
108	61
108	68
109	2
109	11
109	41
109	66
111	40

ROW	TUBE
112	61
112	116
113	65
113	70
113	74
114	39
117	85
117	96
119	38
119	42
119	64
121	14
121	30
121	72
122	1
122	44
123	75
123	96
124	27
124	41
125	14
125	48
125	81
126	95
127	2
127	5
129	1
131	1
131	29
133	1
135	76
136	51
136	59
137	53
139	1
140	15
142	63
145	12
147	15
147	17
148	10
148	21

ROW	TUBE
149	11
150	1

SPECIAL REPORT 02-01

**RESULTS OF THE ONCE THROUGH STEAM GENERATOR
TUBE INSERVICE INSPECTION CONDUCTED
DURING REFUEL OUTAGE 12**

APPENDIX 5

**TUBES WITH
TUBE END CRACKS
(TEC)
REMAINING IN SERVICE**

Tubes with TEC Remaining In Service in OTSG-A

ROW	TUBE
1	8
3	14
3	31
4	17
4	26
5	1
5	3
5	20
5	24
5	33
5	40
5	44
6	43
6	49
7	43
8	2
8	26
8	30
9	3
9	54
9	59
10	30
10	49
10	50
10	56
11	1
11	39
11	57
11	63
12	45
12	53
12	67
13	35
13	37
13	42
13	48
13	53
13	54
13	55
13	56
13	67
13	68

ROW	TUBE
14	47
14	54
14	55
14	66
14	67
14	69
14	70
14	71
15	2
15	39
15	40
15	46
15	67
15	68
15	70
15	71
15	72
16	40
16	42
16	58
16	73
16	74
16	77
17	38
17	41
17	57
17	70
17	71
17	72
17	73
17	74
17	75
18	50
18	59
18	60
18	70
18	72
18	74
18	75
18	76
18	78
18	79

ROW	TUBE
18	82
19	59
19	62
19	69
19	72
19	73
19	74
19	75
19	76
19	77
19	79
19	84
20	39
20	40
20	42
20	66
20	68
20	73
20	75
20	76
20	77
20	79
20	80
21	38
21	61
21	64
21	74
21	75
21	76
21	77
21	79
21	81
21	83
21	84
21	85
22	8
22	52
22	63
22	65
22	76
22	78
22	82

ROW	TUBE
22	85
22	86
22	89
22	91
23	50
23	69
23	76
23	77
23	78
23	79
23	80
23	81
23	85
23	86
23	89
23	90
23	93
24	53
24	55
24	69
24	77
24	79
24	80
24	82
24	83
24	86
24	91
25	13
25	59
25	67
25	78
25	79
25	80
25	81
25	85
25	88
25	89
25	90
26	43
26	46
26	68
26	79

Tubes with TEC Remaining In Service in OTSG-A

ROW	TUBE
26	82
26	85
26	87
26	88
26	90
26	92
26	93
27	57
27	60
27	68
27	78
27	79
27	82
27	83
27	84
27	87
27	88
27	90
27	93
27	97
27	98
28	47
28	59
28	75
28	79
28	80
28	83
28	89
28	91
28	94
28	100
29	54
29	58
29	83
29	93
29	94
29	95
29	103
30	5
30	13
30	33
30	49

ROW	TUBE
30	57
30	70
30	72
30	82
30	84
30	96
31	40
31	69
31	71
31	95
31	96
32	16
32	37
32	58
32	59
32	83
32	90
32	91
32	94
32	96
32	97
32	101
32	102
32	104
33	15
33	65
33	93
33	97
33	100
34	59
34	83
34	90
34	95
34	96
34	98
34	99
35	61
35	73
35	74
35	82
35	90
35	95

ROW	TUBE
35	96
35	99
35	105
36	86
36	95
36	97
36	98
36	99
36	100
36	103
36	104
36	105
36	106
36	107
36	109
36	110
37	76
37	83
37	88
37	89
37	94
37	97
37	98
37	99
37	100
37	103
37	106
37	109
37	110
37	113
38	77
38	84
38	87
38	95
38	96
38	98
38	99
38	100
38	101
38	104
38	105
38	109

ROW	TUBE
38	111
38	114
39	64
39	71
39	76
39	78
39	89
39	90
39	91
39	99
39	100
39	101
39	103
39	104
39	111
39	113
40	15
40	77
40	94
40	100
40	101
40	111
40	112
40	113
41	53
41	60
41	89
41	90
41	91
41	95
41	98
41	99
41	103
41	104
41	109
41	111
41	112
41	114
41	115
42	69
42	90
42	101

Tubes with TEC Remaining In Service in OTSG-A

ROW	TUBE
42	102
42	103
42	104
42	105
42	107
42	111
42	114
42	115
42	116
43	56
43	62
43	80
43	83
43	88
43	90
43	91
43	92
43	93
43	96
43	98
43	100
43	107
43	112
43	115
44	60
44	62
44	65
44	89
44	97
44	100
44	106
44	107
44	109
44	110
44	114
44	117
45	88
45	90
45	91
45	93
45	97
45	98

ROW	TUBE
45	102
45	103
45	104
45	106
45	107
45	108
45	112
45	114
45	117
46	60
46	66
46	69
46	86
46	87
46	88
46	103
46	117
47	12
47	88
47	92
47	93
47	94
47	98
47	101
47	104
47	105
47	107
47	117
47	119
47	121
48	61
48	63
48	74
48	90
48	91
48	110
48	112
48	114
48	118
48	120
48	122
49	1

ROW	TUBE
49	63
49	82
49	95
49	104
49	110
49	111
49	121
49	123
50	58
50	99
50	110
50	112
50	115
50	119
50	122
51	24
51	57
51	59
51	76
51	93
51	94
51	95
51	107
51	108
51	110
51	111
51	115
51	116
51	118
51	120
51	121
51	122
51	123
52	59
52	91
52	101
52	107
52	115
52	117
52	120
53	107
53	115

ROW	TUBE
53	116
53	118
53	120
53	121
53	122
54	49
54	92
54	101
54	113
55	10
55	77
55	96
55	110
55	125
56	80
56	108
56	118
57	5
57	7
57	80
57	85
57	87
57	96
57	97
57	112
57	113
57	124
57	125
58	85
58	110
58	111
58	122
58	123
58	126
58	128
59	87
59	94
59	97
59	105
59	109
59	120
59	121

Tubes with TEC Remaining In Service in OTSG-A

ROW	TUBE
60	17
60	65
60	73
60	91
60	96
60	97
60	110
60	115
60	118
61	16
61	62
61	64
62	69
62	109
63	62
63	100
64	94
64	103
64	114
65	8
65	24
65	56
65	59
65	101
66	62
66	63
66	79
66	95
66	97
66	98
66	102
66	103
66	109
67	20
67	50
67	78
67	92
67	97
67	101
67	102
67	103
68	97

ROW	TUBE
69	55
69	58
69	60
69	62
69	71
69	74
69	93
69	103
70	50
70	55
70	57
71	51
71	60
71	64
71	91
72	50
72	51
72	52
72	57
72	62
72	94
73	24
73	47
73	53
73	60
74	57
74	64
74	74
75	61
75	63
75	84
75	89
78	30
78	126
79	56
79	63
79	64
79	66
80	9
80	13
80	65
80	67

ROW	TUBE
81	38
81	64
81	73
81	102
82	8
82	59
82	60
82	63
83	49
84	52
84	73
85	4
85	6
85	45
85	47
85	48
86	3
86	9
87	70
88	66
90	46
91	70
91	72
91	82
91	85
91	109
92	67
92	114
92	121
92	122
92	123
93	107
93	111
93	112
93	116
93	117
93	120
93	121
93	122
93	124
94	73
94	98

ROW	TUBE
94	118
94	122
94	123
95	69
95	74
95	82
95	110
95	112
95	117
95	119
95	126
96	56
96	64
96	115
96	116
97	62
97	66
97	72
97	99
97	109
97	113
97	114
97	116
97	117
97	122
98	66
98	114
98	115
98	118
98	121
98	122
98	123
99	72
99	78
99	81
99	97
99	110
99	115
99	116
99	122
99	123
100	64

Tubes with TEC Remaining In Service in OTSG-A

ROW	TUBE
100	75
100	78
100	96
100	106
100	108
100	109
100	114
100	117
100	121
100	123
101	96
101	101
101	109
101	112
101	114
101	120
101	121
101	122
102	109
102	114
102	115
102	120
102	121
103	102
103	107
103	113
104	82
104	105
105	114
105	115
105	121
106	53
106	91
106	98
106	101
106	108
107	93
107	103
107	104
107	107
107	108
107	109

ROW	TUBE
107	112
107	115
108	93
108	112
109	68
110	102
111	97
111	99
111	101
112	90
112	95
112	99
112	113
113	107
113	111
114	85
114	90
114	99
114	104
114	106
114	108
114	109
114	110
114	111
114	112
114	113
115	76
115	102
115	109
115	111
115	112
116	1
116	88
116	89
116	92
116	99
116	101
116	106
116	108
116	110
118	1
118	96

ROW	TUBE
120	73
120	79
121	69
121	73
121	83
122	71
122	79
122	80
122	99
123	80
123	101
123	102
124	78
124	96
126	87
126	94
127	1
127	81
127	92
128	89
129	69
129	80
129	90
130	2
130	88
131	19
132	17
132	73
133	5
133	42
133	51
133	59
133	61
134	11
134	59
134	60
134	71
134	84
135	1
135	56
135	81
137	7

ROW	TUBE
137	11
137	49
137	73
137	77
138	75
139	45
139	56
139	57
139	58
139	66
140	67
140	69
140	70
141	6
141	53
141	55
141	56
141	63
142	30
142	50
142	52
143	2
143	53
144	25
144	46
145	43
146	1
146	43
147	45
148	39
149	24
150	20
151	1

Tubes with TEC Remaining In Service in OTSG-B

ROW	TUBE
1	15
1	16
2	25
3	3
3	17
4	25
4	39
5	8
5	9
6	1
6	12
6	34
6	51
7	20
7	34
7	44
7	53
8	2
9	4
9	5
9	12
9	18
9	48
9	57
9	60
10	15
10	34
10	49
10	52
11	2
11	9
11	11
11	12
11	20
11	21
11	51
12	2
12	5
12	16
12	29
12	55
12	71

ROW	TUBE
13	4
13	6
13	20
13	56
14	19
14	30
14	66
15	8
15	13
15	21
15	35
15	45
15	49
15	58
16	11
16	24
17	10
17	15
17	22
17	43
17	76
17	82
18	12
18	14
18	16
19	1
19	18
19	47
20	2
20	31
20	55
21	20
21	27
21	50
22	12
22	16
22	28
22	90
23	16
23	21
23	23
23	44

ROW	TUBE
23	92
23	94
24	1
24	19
25	5
25	11
25	24
25	28
25	58
26	4
26	94
27	6
27	10
27	19
27	85
27	95
27	98
27	99
28	4
28	6
28	7
28	30
28	66
28	83
28	95
28	97
29	94
29	96
29	97
30	8
30	9
30	12
30	97
31	9
31	18
31	88
31	97
32	9
32	13
32	38
32	53
32	102

ROW	TUBE
32	106
33	5
33	9
33	26
34	23
34	27
34	28
34	39
34	107
35	11
35	104
36	104
36	105
36	107
37	7
37	12
37	103
37	112
38	13
38	104
38	111
38	112
38	114
39	27
39	31
39	70
39	86
39	113
39	114
40	15
40	116
41	38
41	46
42	31
42	54
42	63
42	106
42	111
43	14
43	47
43	107
44	7

Tubes with TEC Remaining In Service in OTSG-B

ROW	TUBE
44	12
44	14
44	32
45	8
45	29
45	85
45	119
46	3
46	14
46	15
46	16
47	14
47	25
47	33
48	3
48	14
48	31
48	50
48	62
49	17
49	23
49	58
49	62
50	6
50	113
50	115
50	123
51	1
51	112
51	116
51	117
51	119
52	7
52	30
52	111
52	116
53	5
53	119
53	120
54	6
54	16
54	108

ROW	TUBE
55	25
55	122
55	123
56	5
56	17
56	53
56	55
56	118
57	5
57	13
57	16
57	71
57	125
57	126
58	3
58	17
58	114
58	117
58	119
58	120
58	126
59	38
59	117
59	121
60	26
60	116
60	126
61	121
62	34
62	123
62	128
63	37
63	121
64	27
65	69
66	10
66	16
66	50
66	111
66	120
66	131
67	9

ROW	TUBE
67	52
68	26
69	10
69	22
69	54
69	107
70	50
71	34
71	42
71	51
71	67
72	39
72	105
72	122
72	130
73	77
73	104
74	40
74	108
75	53
75	57
75	61
78	34
78	50
78	57
78	126
79	67
80	110
80	111
81	130
82	50
83	126
84	9
84	59
85	41
85	58
85	86
85	130
86	8
86	13
86	60
87	107

ROW	TUBE
88	9
88	49
89	7
89	8
89	9
89	21
89	41
90	20
91	74
92	7
92	21
92	24
92	126
93	6
93	7
93	25
93	30
94	2
94	21
94	29
94	126
97	7
97	8
98	7
99	5
99	6
100	5
100	12
100	31
101	1
101	9
102	106
102	121
103	31
104	5
104	18
105	4
106	9
106	10
107	3
107	10
108	3

Tubes with TEC Remaining In Service in OTSG-B

ROW	TUBE
108	10
109	13
110	2
110	30
110	34
110	117
111	1
111	18
111	64
111	114
111	116
112	13
113	31
113	83
114	12
114	101
115	7
115	8
115	27
115	32
115	40
116	27
116	30
117	18
117	25
117	87
117	88
117	89
117	108
118	17
119	26
119	32
119	33
119	40
119	88
120	26
120	30
120	36
120	65
120	100
121	1
121	3

ROW	TUBE
121	18
121	23
121	25
121	26
121	30
121	31
121	38
121	89
122	12
122	17
122	26
122	29
122	32
122	36
122	38
122	61
122	76
122	87
122	88
122	89
123	2
123	6
123	10
123	11
123	17
123	18
123	22
123	28
123	30
123	104
124	1
124	8
124	16
124	26
124	29
125	6
125	11
125	19
125	29
125	39
125	69
125	73

ROW	TUBE
125	82
125	97
126	10
126	25
126	30
126	31
126	62
126	70
126	71
126	79
126	83
127	10
127	15
127	19
127	24
127	34
127	37
127	62
127	70
127	75
127	79
127	80
127	85
127	89
128	6
128	8
128	9
128	10
128	12
128	17
128	18
128	19
128	23
128	24
128	37
128	69
128	78
128	81
129	6
129	10
129	23
129	27

ROW	TUBE
129	29
129	76
129	77
129	79
129	80
130	2
130	8
130	10
130	22
130	27
130	28
130	31
130	40
130	74
130	77
130	78
131	2
131	7
131	11
131	14
131	16
131	18
131	23
131	25
131	30
131	35
131	45
131	58
131	63
131	68
131	70
131	74
131	77
131	78
131	84
132	9
132	13
132	21
132	23
132	26
132	29
132	30

Tubes with TEC Remaining In Service in OTSG-B

ROW	TUBE
132	33
132	55
132	71
132	84
133	8
133	12
133	14
133	15
133	16
133	44
133	47
133	66
133	72
133	74
133	75
133	76
134	1
134	7
134	16
134	18
134	22
134	40
134	53
134	65
134	66
134	72
134	73
134	74
135	12
135	13
135	14
135	15
135	23
135	26
135	27
135	69
135	70
135	72
136	3
136	8
136	14
136	19

ROW	TUBE
136	21
136	40
136	56
136	70
136	71
136	72
136	74
136	75
137	8
137	9
137	10
137	11
137	14
137	17
137	25
137	29
137	39
137	40
137	67
137	68
137	69
137	77
138	6
138	9
138	14
138	17
138	31
138	37
138	63
138	70
138	71
139	7
139	10
139	12
139	13
139	16
139	18
139	22
139	26
139	27
139	37
139	50

ROW	TUBE
139	73
140	5
140	6
140	7
140	9
140	12
140	16
140	18
140	19
140	20
140	21
140	22
140	23
140	24
140	33
140	36
140	48
140	56
140	60
140	63
141	2
141	5
141	7
141	14
141	17
141	18
141	33
141	34
141	36
141	63
141	67
142	4
142	5
142	16
142	17
142	26
142	27
142	32
142	33
142	34
142	45
142	47

ROW	TUBE
143	11
143	12
143	13
143	14
143	15
143	21
143	25
143	30
143	44
143	46
143	47
144	11
144	12
144	13
144	14
144	15
144	18
144	22
144	23
144	26
144	27
144	42
144	43
145	17
145	21
145	26
145	28
146	26
147	4
147	16
147	21
147	23
147	39
147	40
147	45
148	5
148	7
148	15
148	17
148	34
148	35
149	24

Tubes with TEC Remaining In Service in OTSG-B

ROW	TUBE
149	32
151	2
151	3

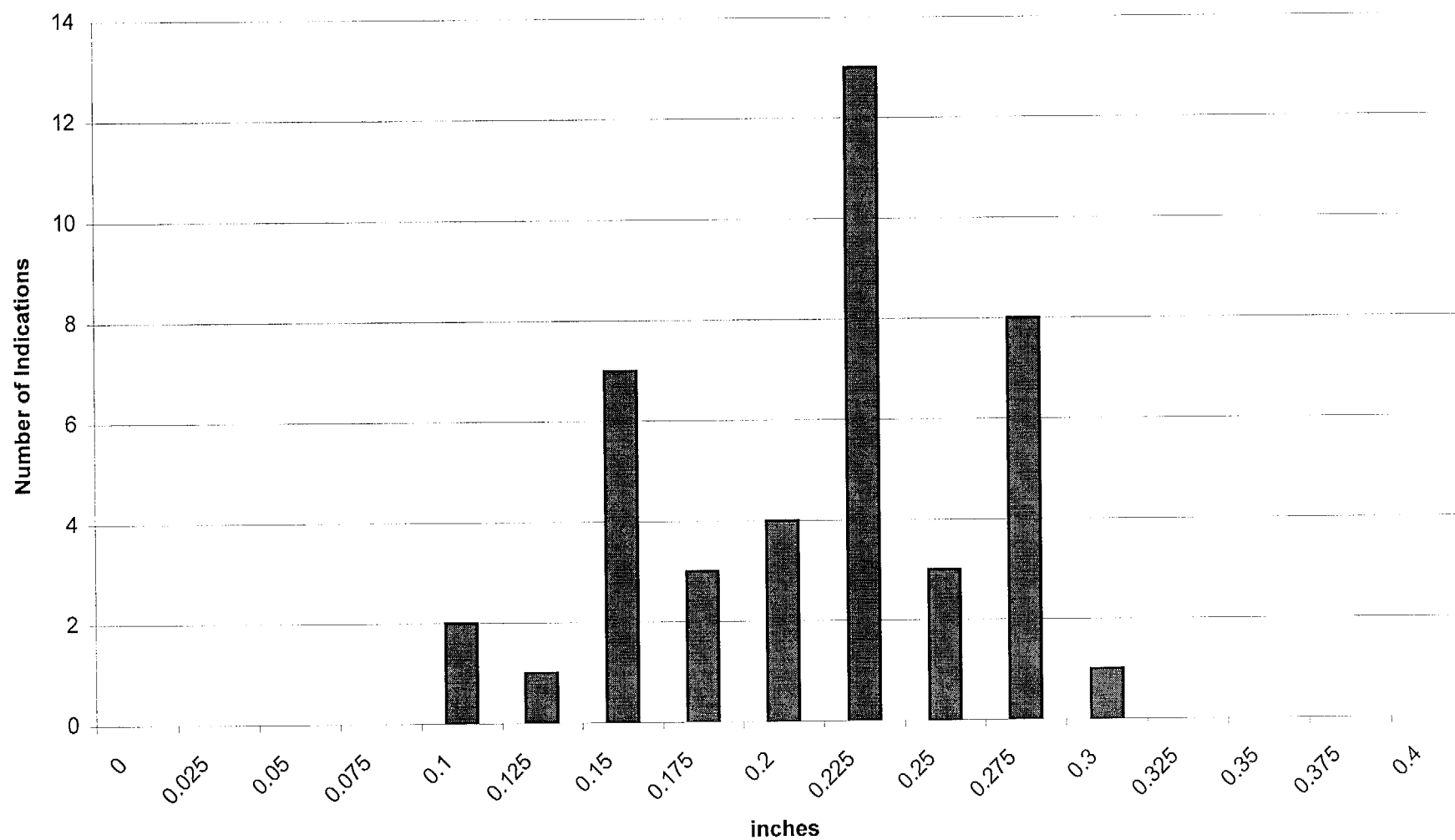
SPECIAL REPORT 02-01

RESULTS OF THE ONCE THROUGH STEAM GENERATOR TUBE INSERVICE INSPECTION CONDUCTED DURING REFUEL OUTAGE 12

APPENDIX 6

AXIAL EXTENT OF NEW IGA INDICATIONS CIRCUMFERENTIAL EXTENT OF NEW IGA INDICATIONS

CR-3 B-OTSG RFO 12 - October 2001
Axial Extent of New IGA Indications



CR-3 B-OTSG RFO 12 - October 2001
Circumferential Extent of New IGA Indications

