Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619
Tel. 815-417-2000

www.exeloncorp.com

Exelon Nuclear

July 27, 2005
BW050064

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

Braidwood Station, Unit 2
Facility Operating License No. NPF 77
NRC Docket No. STN 50-457

Subject: Braidwood Station, Unit 2, Eleventh Refueling Outage Steam Generator Inservice Inspection Summary Report

In accordance with Technical Specification 5.6.9, "Steam Generator (SG) Tube Inspection Reports," item b, Exelon Generation Company, LLC is reporting the results of the SG inspections, which were completed during the Braidwood Station, Unit 2, Eleventh Refueling Outage. The attached report is also being submitted in accordance with the requirements of the American Society of Mechanical Engineers Boiler and Pressure Vessel Code, 1989 Edition, Section XI, "Rules for Inservice Inspection of Nuclear Power Plant Components," Article IWA-6000, "Records and Reports," and Article IV-7000, "Report of Examination," of Mandatory Appendix IV, "Eddy Current Examination of Non-Ferromagnetic Steam Generator Heat Exchanger Tubing."

If there are any questions regarding this submittal, please contact Dale Ambler, Regulatory Assurance Manager, at (815) 417-2800.

Respectfully,

Keith J. Polson
Site Vice President
Braidwood Station

Attachment: Exelon Braidwood Station, Unit 2, Eleventh Refueling Outage Steam Generator Inservice Inspection Summary Report

cc: Regional Administrator – NRC Region III
NRC Senior Resident Inspector – Braidwood Station
Illinois Emergency Management Agency – Division of Nuclear Safety

A047

Exelon Nuclear
BRAIDWOOD STATION, UNIT 2
35100 South Rte. 53, Suite 84
Braceville, IL 60407

COMMERCIAL OPERATION: October 17, 1988

STEAM GENERATOR EDDY CURRENT INSPECTION REPORT

ELEVENTH REFUELING OUTAGE (A2R11)

April 2005

Exelon Nuclear
4300 Winfield Road
Warrenville, IL 60555

Document Completion Date: July 15, 2005

TABLE OF CONTENTS

1.0 INTRODUCTION

Braidwood Station, Unit 2, operates with four Westinghouse Model D-5 recirculating steam generators (SGs) in the four loop pressurized water reactor system. Each SG contains 4,570 thermally treated Inconel-600 U-tubes that have a nominal outside diameter of 0.750 inches and a nominal thickness of 0.043 inches. The tubes are hydraulically expanded into the full depth of the tubesheet. The tubes are supported by stainless steel quatrefoil support plates (TSP's) and chrome plated Inconel-600 anti-vibration bars (AVB's). See Figure A.1 for a diagram of the D-5 Steam Generator tube support plate configuration.

In compliance with Braidwood Station Technical Specification (TS) 5.5.9, "Steam Generator Tube Surveillance Program," and American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code Section XI 1989 Edition, IWB 2500-1, Examination Category B-Q, Item B16.20, SG eddy current examinations were performed during the Braidwood Station, Unit 2, eleventh refueling outage (A2R11). In addition, the inspections were performed consistent with the Electric Power Research Institute (EPRI) "PWR Steam Generator Examination Guidelines: Revision 6" and Nuclear Energy Institute NEI 97-06, "Steam Generator Program Guidelines: Revision 1." Westinghouse Electric Co. Ltd conducted the inspections from April 20, 2005 through April 26, 2005. The following inspections were performed during this outage.

- 100% full length bobbin coil in all four SGs
- 20% hot leg top of tubesheet (+/- 3 inches) Plus-Point in all four SGs
- 20% hot leg tubing within the tubesheet from the top of tubesheet down to a depth of 17 inches, Plus-Point in all four SGs
- 20% hot leg bulges $\geq$ 18 volts and over expansions $\geq$ 1.5 mils within the hot leg tubesheet from the top of tubesheet down to a depth of 17 inches, Plus-Point in all four SGs
- 50% hot leg top of tubesheet (+/- 3 inches) Plus-Point of tubes inservice identified as having increased residual stress
- 20% preheater baffle expansion Plus-Point in one SG
- Inspection of one deplugged tube hot leg Plug Expansion Zone (PEZ) Plus-Point
- Visual inspection of 100% of the previously installed mechanical plugs and welded tube plugs in all four SGs
- 100% visual inspection of newly installed tube plugs in all four SGs

Note: Prior to completion of the steam generator inspection, on April 25, 2005, the NRC approved Braidwood Technical Specification Amendment 135. This amendment allowed that during Braidwood Station, Unit 2, refueling outage eleven (i.e., A2R11), and the subsequent operating cycle, the hot leg tubesheet inspection scope could be limited to the region 17 inches below the top of tubesheet. A minimum 20% of the tubing was inspected through this region during A2R11. This sample included a minimum 20% sample of the bulges $\geq$ 18 volts and over expansions $\geq$ 1.5 mils in this region. No degradation was found during this inspection.

2.0 SUMMARY

The requirements of Revision 6 of the EPRI PWR Steam Generator Examination Guidelines (i.e., EPRI Guidelines) along with Interim Guidance as provided by EPRI, were implemented during this inspection. A degradation assessment was performed prior to the inspection to ensure the proper EPRI Appendix H, "Performance Demonstration for Eddy Current Examination," qualified inspection techniques were used to detect any existing and potential modes of degradation. Each technique was evaluated to ensure that the detection and sizing capabilities are applicable to the Braidwood Station, Unit 2, site specific condition in accordance with the EPRI Guidelines. All data analysts were qualified to Appendix G, "Qualification of Nondestructive Examination Personnel for Analysis of NDE Data," of the EPRI Guidelines (i.e., Qualified Data Analyst (QDA)). All data analyst and acquisition personnel satisfactorily completed site specific training and testing prior to beginning examinations. An independent QDA process control review was employed to randomly sample the data to ensure that the analysis resolution process was properly performed and that the field calls were properly reported. An analysis feedback process was implemented that required the data analysts to review their missed calls and overcalls on a daily basis.

The modes of tube degradation found during A2R11 were anti-vibration bar wear, foreign object wear and preheater wear at the support plate intersections.

In accordance with Technical Specification 5.5.9.c, "Inspection Results Classification," the inspection results were classified as category C-1 for SGs B and D and category C-2 for SGs A and C. There were no scanning limitations during the eddy current examinations.

As a result of the A2R11 eddy current inspections, a total of six (6) tubes were removed from service by tube plugging. One tube also received a stabilizer in the hot leg region prior to tube plugging. Table 2.1 provides the total tube plugging history and equivalent plugging levels to date. Table 2.2 provides the total number of tubes plugged in A2R11 by degradation mode.

Table 2.1
Equivalent Tube Plugging Level

	SG A	SG B	SG C	SG D	Total
Tubes Previously Plugged	53	48	54	25	180
Tubes Plugged in A2R11	4	0	2	0	6
Total Tubes Plugged	57	48	56	25	186
Total Tubes Plugged (%)	1.25%	1.05%	1.23%	0.55%	1.02%

Table 2.2
Tubes Plugged During A2R11

	SG A	SG B	SG C	SG D	Total
Foreign Object Wear	0	0	1	0	1
Anti-Vibration Bar Wear	4	0	1	0	5
A2R11 Plugging Totals	4	0	2	0	6

3.0 CERTIFICATIONS

3.1 Procedures/Examinations/Equipment

3.1.1 The examination and evaluation procedures used during the SG eddy current inspection were approved by personnel qualified to Level III in accordance with the 1984 Edition of SNT-TC-1A, "Personnel Qualification and Certification in Nondestructive Testing." Exelon Generation Company, LLC (i.e., Exelon) Procedure ER-AP-335-039, "Multifrequency Eddy Current Data Acquisition of Steam Generator Tubing," Revision 2 and Exelon Procedure ER-AP-335-040, "Evaluation of Eddy Current Data for Steam Generator Tubing," Revision 1, were used for data acquisition and analysis.

3.1.2 The examinations, equipment and personnel were in compliance with the requirements of Exelon and Westinghouse Quality Assurance Programs for Inservice Inspection; Braidwood Station Technical Specification 5.5.9; 1989 Edition of ASME Boiler and Pressure Vessel Code Section XI, "Rules for Inservice Inspection of Nuclear power Plant Components," and Section V, "Nondestructive Examination;" EPRI PWR SG Examination Guidelines Revision 6; and NEI 97-06, "Steam Generator Program Guidelines," Revision 1.

3.1.3 Certification packages for examiners, data analysts and equipment are available at Braidwood Station. Tables A.1 and A.2 of Attachment A lists all personnel who performed, supervised, or evaluated the data during this SG inservice inspection.

3.1.4 R/D Tech Incorporated TC6700 Remote Data Acquisition Units (RDAUs) with Westinghouse ANSER computer software were used to acquire the eddy current data. Analysis was performed with Westinghouse ANSER 8.4.3 Rev 13 computer software.

3.1.5 The bobbin coil examinations of the SGs were performed with Zetec 0.610 inch diameter probes. For low row U-Bend tubing, a Zetec 0.590 inch diameter probe was utilized to achieve the complete full tube examination in tubes where there was difficulty using the 0.610 inch diameter probe.

3.1.6 The rotating coil examinations were performed with Zetec 0.610 inch diameter three coil plus-point probes in all areas except the U-Bend region where Zetec 0.580 inch diameter plus-point probes were used.

3.2 Personnel

3.2.1 The personnel who performed the SG eddy current inspections were qualified to Level I and Level II certification in accordance with the 1984 Edition of SNT-TC-1A. The Level I personnel performed the inspections under the direct supervision of Level II or Level III personnel. A list of the certified eddy current personnel who performed data acquisition for the examination is contained in Table A.1 of Attachment A.

3.2.2 The personnel who performed the SG eddy current data analysis were qualified to a minimum of Level II, with special analysis training (i.e., Level IIA) in accordance with the 1984 Edition of SNT-TC-1A and Article IV-2000 of ASME Section XI, 1989 Edition. A list of the certified eddy current personnel who performed data analysis for the examination is contained in Table A.2 of Attachment A.

3.2.3 All eddy current data analysts were qualified in accordance with EPRI Appendix G for Qualified Data Analysts (QDAs). In addition, all data analysts were trained and tested in accordance with a site specific performance demonstration program in both the bobbin coil and plus-point inspection data analysis. Resolution analysts were also trained and tested specifically for the performance of data resolution. All analysts were required to achieve a minimum score of 80% Probability of Detection (POD) with a 90% confidence level on the practical examination, and a minimum score of 80% on the written examination prior to analyzing data.

3.2.4 All SG eddy current data acquisition personnel were trained and tested in accordance with a site specific performance demonstration program. The data acquisition operators were required to achieve a written test score of 80% or greater prior to acquiring data.

3.2.5 The SG eddy current analysis was subject to two independent analyses. Primary analysis of all data was performed by Westinghouse and sub-contractors. An independent company, Anatec International, performed the secondary analysis. Discrepancies between the two parties required Level III concurrence between both parties for the final resolution.

3.2.6 Two independent SG eddy current Level III QDA's were employed to serve as process control reviewers, in accordance with EPRI Guidelines, to randomly sample the data to ensure the resolution process was properly performed and that the field calls were properly reported. The Independent Level III QDA's also provided data acquisition oversight to ensure that the data collection process was in compliance with appropriate procedures, that all essential variables were set in accordance with the applicable Examination Technique Specification Sheet (ETSS) and to provide a data quality check of acquired data. The Independent Level III QDA's reported directly to the Exelon Level III inspector.

4.0 EXAMINATION TECHNIQUES AND EXAMINATION SCOPE

All SG eddy current examination techniques used were qualified in accordance with Appendix H of the EPRI PWR SG Examination Guidelines. Each examination technique was evaluated to be applicable to the tubing and conditions of the Braidwood Station, Unit 2, SGs.

4.1 Examination Techniques

4.1.1 The bobbin coil examinations were performed with a 0.610 inch diameter bobbin coil eddy current probe as described in Section 3.1.5. For low row U-Bend regions where there was difficulty using the 0.610 inch diameter probe, a 0.590 inch diameter probe was utilized to achieve the complete full tube inspection. Nominal probe inspection speed was 40 inches per second for rows 5 through 49 and 24 to 40 inches per second for rows 1 through 4 depending on tube conditions. Sufficient sampling rates were used to maintain a minimum of 30 samples per inch. The bobbin coil probes were operated at frequencies of 550 kHz, 300 kHz, 130 kHz, and 20 kHz operating in the differential and absolute test modes. In addition, suppression mixes were used to enhance the inspection. These mixes were as follows: 550/130 kHz differential mix, a 550/130/130 kHz differential mix, and a 300/130 kHz absolute mix.

4.1.2 The plus-point examinations at the top of tubesheet, 17 inch depth from the top of tubesheet, preheater baffle plate expansion transition regions, dents/dings and special interest locations were performed with a 0.610 inch diameter three coil plus-point eddy current probe as described in Section 3.1.6. Nominal probe speed was 0.5 inches per second and 0.15 inches per second for the examination of dent and dings. A sampling rate was used to maintain a minimum of 30 samples per inch in the circumferential direction and 25 samples per inch in the axial direction. The rotating probes were operated at frequencies of 300 kHz, 200 kHz, 100 kHz and 20 kHz. In addition to the four base frequencies, three process channels were used to display axial indications in the positive trace.

4.1.3 The plus-point examinations within the U-Bend regions were performed with a 0.580 inch diameter plus-point eddy current probe as described in Section 3.1.6. Nominal probe speed was 0.4 inches per second. A sampling rate was used to maintain a minimum of 30 samples per inch in the circumferential direction and 25 samples per inch in the axial direction. The rotating probes were operated at frequencies of 400 kHz, 300 kHz, 150 kHz and 20 kHz. In addition to the four base frequencies, three process channels were used to display axial indications in the positive trace.

4.1.4 Non-quantifiable bobbin coil indications were examined with a 0.610 inch diameter three coil plus-point eddy current probe as described in Section 3.1.6. The nominal probe speed was 0.5 inches per second with a sampling rate to maintain a minimum of 30 samples per inch in the circumferential direction and 25 samples per inch in the axial direction. The probe was operated at frequencies of 300 kHz, 200 kHz, 100 kHz and 20 kHz. In addition to the four base frequencies, three process channels were used to display axial indications in the positive trace.

4.1.5 The eddy current calibration standards used for the bobbin coil and plus-point inspections met the requirements of the EPRI PWR Steam Generator Examination Guidelines, Revision 6 and Sections V and XI of the ASME Boiler and Pressure Vessel Code, 1989 Edition.

4.1.6 The SG eddy current examination techniques used during this inspection were equivalent to the EPRI Appendix H techniques listed in Table 4.1 below. Each Examination Technique Specification Sheet (ETSS) was evaluated and determined to be applicable to the site conditions.

TABLE 4.1
EPRI APPENDIX H TECHNIQUES

EPRI Technique ETSS	Probe	Description
96004.3 Rev. 9	Bobbin	AVB / Pre-Heater / TSP / Foreign Object Wear, Freespan Flaws
96007.1 Rev. 10	Bobbin	ODSCC at Tube Support Plates
96910.1 Rev. 8	Plus-Point	Foreign Object Wear / Freespan Flaw Sizing
96005.2 Rev. 8	Bobbin	Freespan Pitting
21998.1 Rev. 3	Plus-Point	Foreign Object Wear / Freespan Flaw Sizing
20511.1 Rev. 7 20510.1 Rev. 5	Plus-Point	TTS Expansion / Tubesheet / Pre-Heater Expansion / Dent / Ding / Deplugged Tube Location – PWSCC
21409.1 Rev. 4 21410.1 Rev. 4 22401.1 Rev. 3	Plus-Point	TTS Expansion / Dent / Ding / U-Bend / Pre-Heater Expansion - ODSCC
96511.1 Rev. 14	Plus-Point	U-Bend PWSCC
96703.1 Rev. 15	Plus-Point	Dent / Ding / PWSCC Sizing

PWSCC – Primary Water Stress Corrosion Cracking
ODSCC – Outer Diameter Stress Corrosion Cracking
TSP – Tube Support Plate
TTS – Top of Tubesheet
AVB – Anti-Vibration Bar

4.2 Steam Generator Inspection Scope

4.2.1 100% of the tubes in all SGs were inspected full length, with a bobbin coil probe described in Section 4.1.1.

4.2.2 20% of the tubes in all SGs were inspected at the hot leg top of tubesheet expansion transition region (+/- 3 inches) with a plus-point probe described in Section 4.1.2.

4.2.3 20% of the tubes in all SGs were inspected from the hot leg top of tubesheet down to a depth of 17 inches. This population included 20% of the hot leg bulges $\geq$ 18 volts and over expansions $\geq$ 1.5 mils within this portion of the hot leg tubesheet. These inspections were performed with a plus-point probe as described in Section 4.1.2.

4.2.4 50% of the tubes identified as having increased residual stress were inspected at the hot leg top of tubesheet expansion transition region (+/- 3 inches) with a plus-point probe described in Section 4.1.2.

4.2.5 20% of the preheater baffle plate expansion transitions (+/- 2 inches) in SG C were inspected with a plus-point probe described in Section 4.1.2.

4.2.6 Inspection of the hot leg plug expansion zone of one tube in SG B was performed. This is the only tube at Braidwood Station, Unit 2, that had been previously deplugged and returned to service. This inspections was performed with a plus-point probe as described in Section 4.1.2.

4.2.7 Diagnostic examinations were conducted on non-quantifiable indications that were detected by the bobbin coil examination. Diagnostic examinations were also conducted on tubes in the vicinity of potential foreign objects in order to determine the extent of tubes potentially affected by the objects. These examinations were performed with a plus-point probe as discussed in Section 4.1.4.

4.2.8 See Attachment B for tubesheet maps detailing the inspection scopes for each SG.

4.3 Recording of Examination Data

The eddy current data and analysis results were recorded on optical disks. The data was then loaded into the Westinghouse Eddy Current Data Management System, "ST Max" Version 1.15.01. This system was used to track the completion of the examinations and was used to generate the final SG eddy current report summaries.

4.4 Witness and Verification of Examination

SG eddy current inspections were witnessed and/or verified by the Authorized Nuclear Inservice Inspectors, Mr. L. Malabanan of the Hartford Steam Boiler Inspection and Insurance Company of Hartford Connecticut, Chicago Branch, 2443 Warrenville Road, Suite 500, Lisle, Illinois 60532-9871.

5.0 EXAMINATION RESULTS

5.1 *Indications Found*

5.1.1 Anti-Vibration Bar (AVB) Wear – Tube degradation was found during bobbin coil examination in the U-Bend region due to fretting of AVBs on the outer surface of the tube. A total of 775 indications were reported. The EPRI Appendix H bobbin coil technique 96004.3 was utilized for depth sizing of all AVB wear. The largest indication was 44% through wall (TW). All tubes with wear greater than or equal to 40% TW were removed from service by mechanical tube plugging. Table 5.1.1 provides a summary of AVB wear degradation. Refer to Attachment B for detailed locations and sizing for all AVB wear indications.

Table 5.1.1
A2R11 AVB Wear Summary

	SG A	SG B	SG C	SG D
	Ind.	Ind.	Ind.	Ind.
<20% TW	172	41	81	75
20-39% TW	158	41	144	58
>= 40% TW	4	0	1	0
TOTAL	334	82	226	133

5.1.2 Foreign Object Wear – Tube degradation was found in one (1) tube that was attributed to a secondary side foreign object. An indication sized at 24% TW was identified in SG C Tube 35-44 slightly below the 8th tube support plate on the hot leg side. This tube was plugged and stabilized. Inspection of the surrounding tubes in this region showed no signs of tube wear or presence of a foreign object. Additionally, two (2) tubes in SG B and one (1) tube in SG D had indications of foreign object wear that had been identified during the previous refueling outage (A2R10) inspection. These tubes had been allowed to remain in service during the previous inspection based on being below the Technical Specification plugging limit and visual verification that the object(s) that had caused the wear were no longer

present. Reinspection of these locations during A2R11 confirmed that these wear indications had not grown, therefore the tubes remain in service. EPRI Appendix H plus-point qualified examination technique 21998.1 was applied to size the indications. Refer to Attachment B for detailed locations and sizing for foreign object wear indications.

5.1.3 Preheater Wear – Tube degradation was found in eight (8) tubes that was attributable to preheater wear. The depth of the preheater wear ranged from 4% TW to 21% TW as measured by EPRI Appendix H qualified bobbin coil technique 96004.3. Since these tubes had only minor degradation and none were above the Technical Specification plugging limit, these tubes remain in service. Refer to Attachment B for detailed locations and sizing for all preheater wear indications.

5.2 Other Results

5.2.1 Visual Inspection of Installed Tube Plugs – All previously installed tube plugs were visually inspected for signs of degradation and leakage. In addition, all plugs installed during this outage (A2R11) were also visually inspected and the installation parameters were reviewed for acceptable installation. No anomalies were found.

5.2.2 Attachment B contains tube lists with axial elevations of all imperfections that contain measurable through wall depth that were found during the A2R11 eddy current inspection.

5.2.3 A visual inspection of the secondary side moisture separator regions of SG D was performed during the A2R11 outage in accordance with Westinghouse procedure MRS-SSP-1323-CBE/CDE, "Model D-5 SG Steam Drum and Auxiliary Feedwater Nozzle/Piping Inspection at Byron Station, Unit 2, and Braidwood Station, Unit 2," Revision 0. Erosion of the moisture separator tangential nozzles, downcomer barrels and swirl vanes was identified. Ultrasonic thickness measurements were taken of the eroded areas. An analysis was performed that determined that in the eroded areas significant margin remained prior to the erosion penetrating through wall and affecting SG performance or possibly generating loose parts. The erosion in the affected areas was not projected to penetrate through wall over the next operating cycle. Monitoring of the condition is planned over subsequent operating cycles in order to develop a degradation growth rate and take corrective actions if they become necessary.

6.0 TUBE PLUGGING SUMMARY

Tube plugging was conducted in accordance with ASME Section XI, 1989 Edition. All tube plugging was performed using Inconel-690 mechanical tube plugs. All tube plugging was performed in accordance with Westinghouse approved procedures. One tube in SG C was stabilized prior to plugging in a region where secondary side foreign object wear was identified. Table 6.0 summarizes the tube plugging performed during A2R11. No tube sleeving was performed.

Table 6.0
Summary of A2R11 Tube Plugging

	SG A	SG B	SG C	SG D	Total
Tubes Plugged in A2R11	4	0	2	0	6
Tubes Stabilized	0	0	1	0	1

Refer to Attachment B for detailed locations and sizing of indications in tubes that were plugged during A2R11.

7.0 DOCUMENTATION

All original optical disks have been provided to Exelon and are maintained at Braidwood Station. The final data sheets and pertinent tube sheet plots are contained in the Westinghouse Outage Report for Braidwood Station, Unit 2, Eleventh Refueling Outage, and are also maintained at Braidwood Station.

NOTE: The ASME Section XI NIS-1 Form. "Owner's Report for Inservice Inspections," for steam generator inspections performed during the Braidwood Station, Unit 2, Eleventh Refueling Outage is contained in the "Braidwood Station, Unit 2, Inservice Inspection Summary Report."

8.0 FIGURES/TABLES/ATTACHMENTS

Attachment A Contents

Attachment B Contents

Attachment A

Personnel Certifications

TABLE A.1
A2R11
Data Acquisition Personnel Certifications

No.	Name	Company	Level	QDA (Y/N)
1	Burris, K.	Intech	II	N
2	Brown, W.	TMP/Hudson	II	N
3	Mantich, S.	TMP/Hudson	II	N
4	Evering, D.	Westinghouse	II	N
5	Fore, S.	Westinghouse	II	N
6	Gault, W.	Westinghouse	II	N
7	Glenn, W.	Westinghouse	II	N
8	Jury, L.	Westinghouse	I	N
9	Mains, P.	Westinghouse	II	N
10	Mardell, D.	Westinghouse	II	N
11	Miller, G.	Westinghouse	II	N
12	Reif, D.	Westinghouse	II	N
13	Smith, A.	Westinghouse	II	N

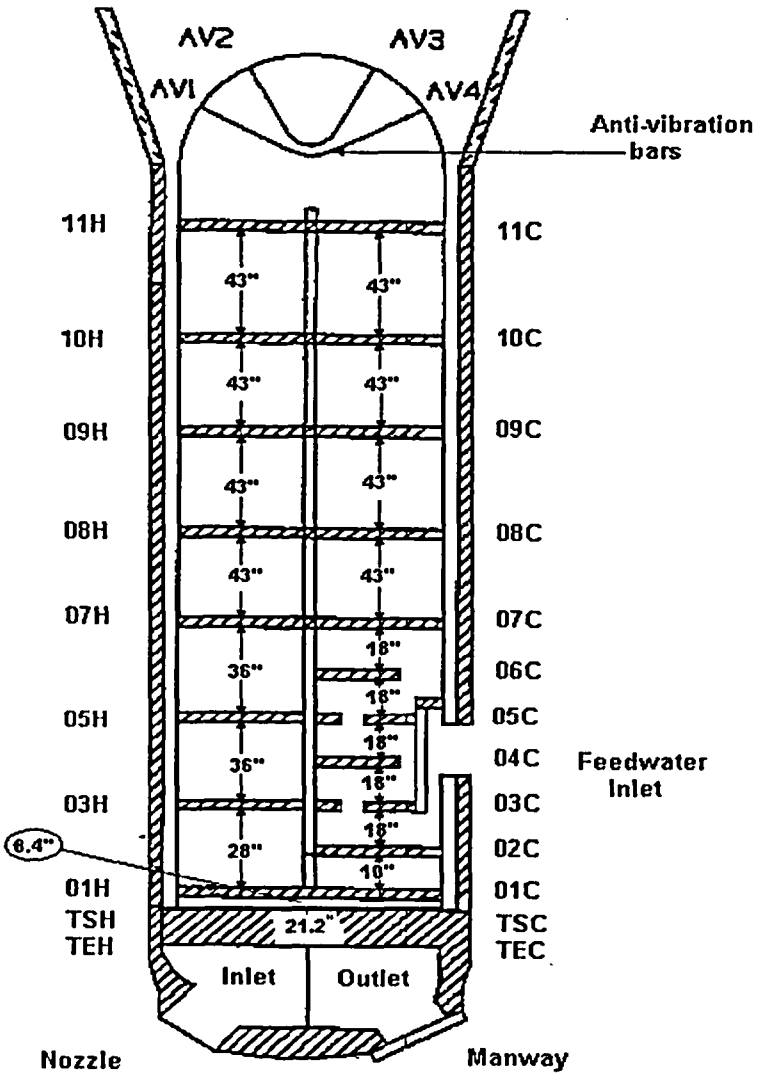
TABLE A.2
A2R11
Data Analysis Personnel Certifications

No.	Name	Company	Level	QDA (Y/N)
1	Bell, C.	Anatec	III	Y
2	Cauvan, M.	Anatec	IIA	Y
3	Dykes, A.	Anatec	IIA	Y
4	Griffith, T.	Anatec	IIA	Y
5	Howe, D.	Anatec	III	Y
6	Hufford, C.	Anatec	IIA	Y
7	Johnson, G.	Anatec	IIA	Y
8	Kotcher, W.	Anatec	IIA	Y
9	Maben, D.	Anatec	III	Y
10	Miranda, E.	Anatec	IIA	Y
11	Moore, T.	Anatec	IIA	Y
12	Nethercott, J.	Anatec	III	Y
13	Oh, C.	Anatec	IIA	Y
14	Park, K.	Anatec	IIA	Y
15	Roberts, C.	Anatec	IIA	Y
16	Stanger, D.	Anatec	III	Y
17	Wieber, J.	Anatec	IIA	Y
18	Funanich, J.	Moretech	III	Y
19	Thulien, T.	Moretech	III	Y
20	* Brown, M.	NDE Tech	III	Y
21	Croyle, R.	NDE Tech	III	Y
22	Dye, J.	NDE Tech	IIA	Y
23	Grant, B.	NDE Tech	III	Y
24	Hutchinson, J.	NDE Tech	III	Y
25	Johnson, J.	NDE Tech	IIA	Y
26	Lewis, C.	NDE Tech	IIA	Y
27	Lewis, D.	NDE Tech	III	Y
28	Schmitz, K.	NDE Tech	III	Y
29	Siegel, R.	NDE Tech	III	Y
30	Skirpan, J.	NDE Tech	IIA	Y
31	Thompson, K.	NDE Tech	IIA	Y
32	Zevchak, J.	NDE Tech	IIA	Y
33	* Bowser, K.	Westinghouse	III	Y
34	Pocratky, R.	Westinghouse	III	Y
35	Popovich, R.	Westinghouse	III	Y
36	Yaklich, D.	Westinghouse	III	Y
37	Childers, J.	Wiltec	III	Y
38	Maullar, K.	Wiltec	III	Y
39	Kumar, S.	Young	III	Y
40	Salls, Y.	Young	III	Y
41	Stocklin, P.	Young	IIA	Y

* Independent Qualified Data Analyst

FIGURE A.1
Westinghouse Model D-5
Tube Support Plate Configuration

FIGURE A.1
Westinghouse Model D-5
Tube Support Plate Configuration



Attachment B

Inspection Scope / Results

Attachment B.1

As-tested Bobbin Inspection Maps

CDE-A HOT LEG .610 BOBBIN INSPECTION PROGRAM

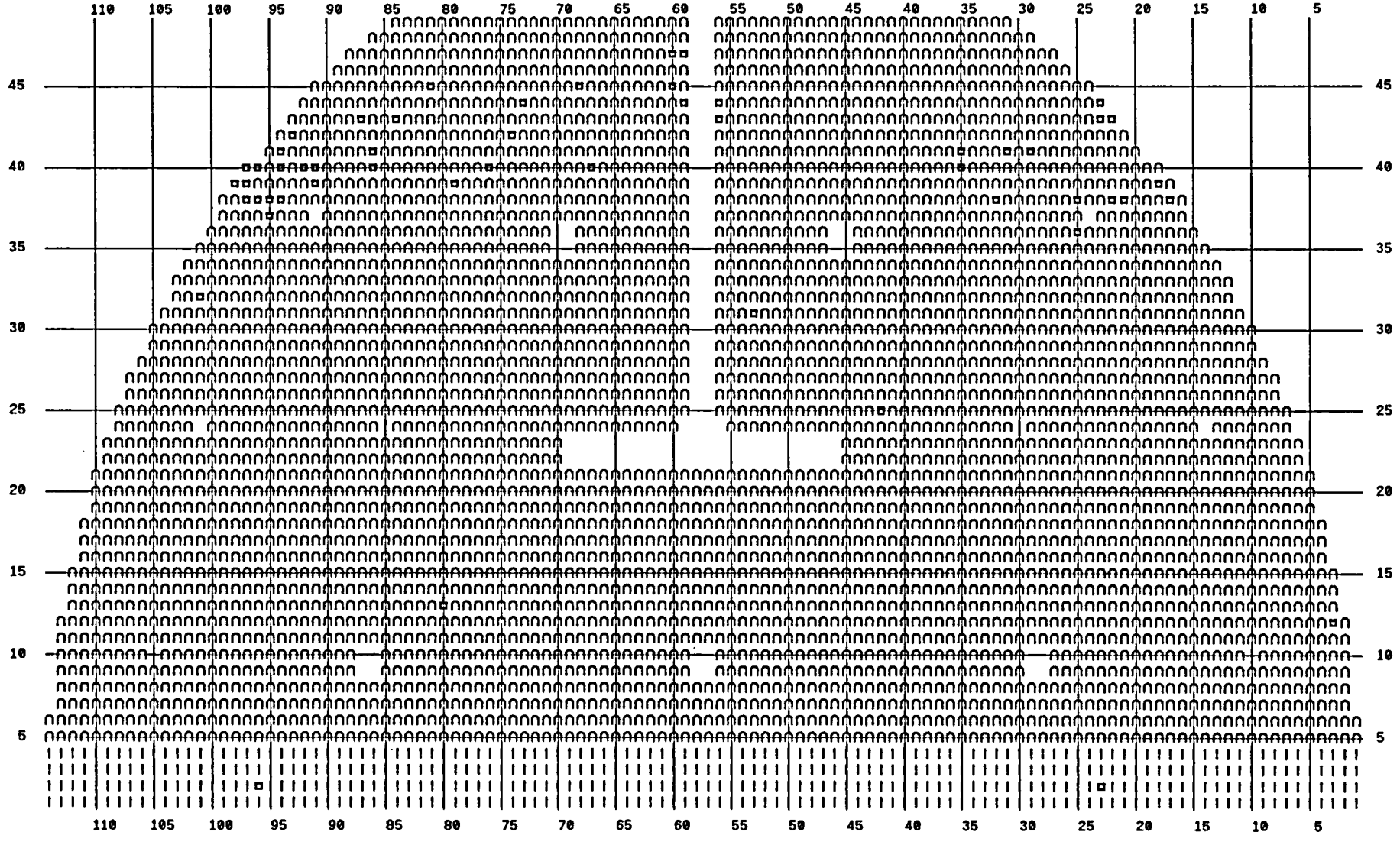
AS TESTED

Braidwood A2R11 CDE D5

∩ 4063 TESTED TEC THROUGH TEH

I 454 TESTED 11H THROUGH TEH

◘ 53 PLUGGED TUBE



Westinghouse Electric Company LLC - ST Max 04/28/2005 11:21:16

CDE-A HOT LEG .590 BOBBIN INSPECTION PROGRAM

AS TESTED

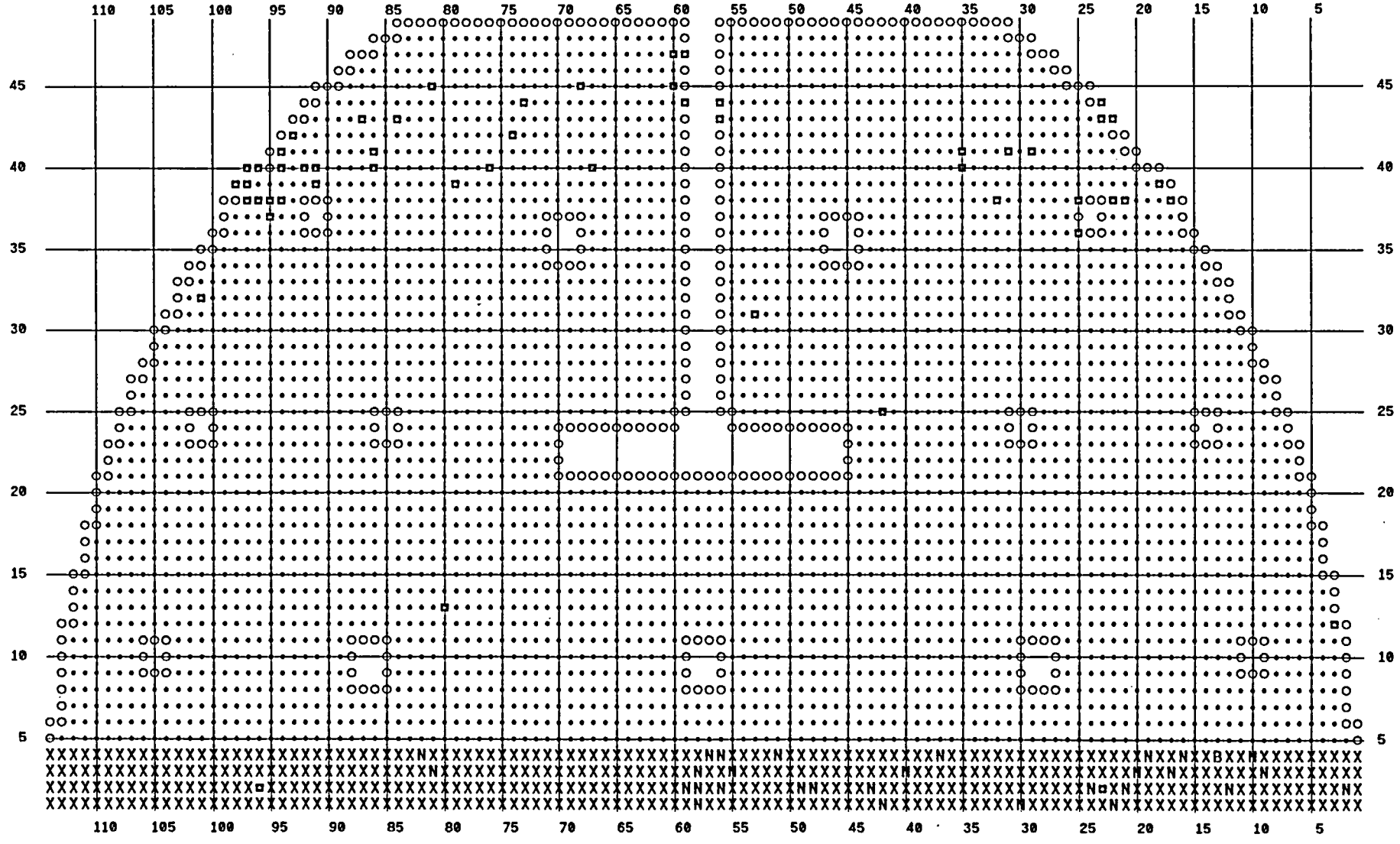
Braidwood A2R11 CDE D5

X 424 TESTED 11C THROUGH 10H

N 29 TESTED 11C THROUGH 09H

B 1 TESTED 11C THROUGH 08H

▫ 53 PLUGGED TUBE



Westinghouse Electric Company LLC - ST Max 04/28/2005 11:20:20

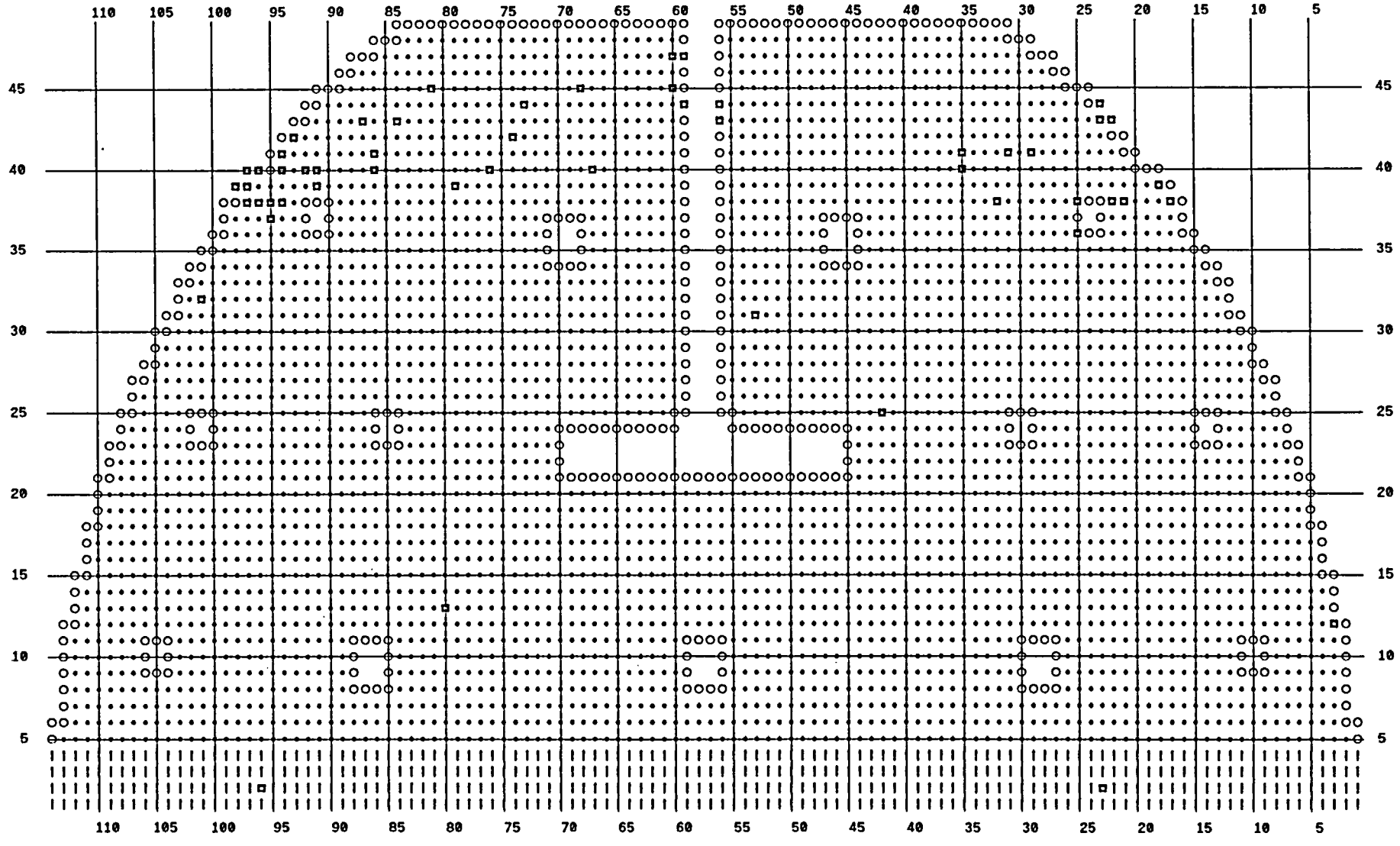
CDE-A COLD LEG 610 BOBBIN INSPECTION PROGRAM

AS TESTED

Braidwood A2R11 CDE D5

I 454 TESTED 11C THROUGH TEC

▫ 53 PLUGGED TUBE



Westinghouse Electric Company LLC - ST Max 04/28/2005 11:24:24

CDE-B HOT LEG .610 BOBBIN INSPECTION PROGRAM

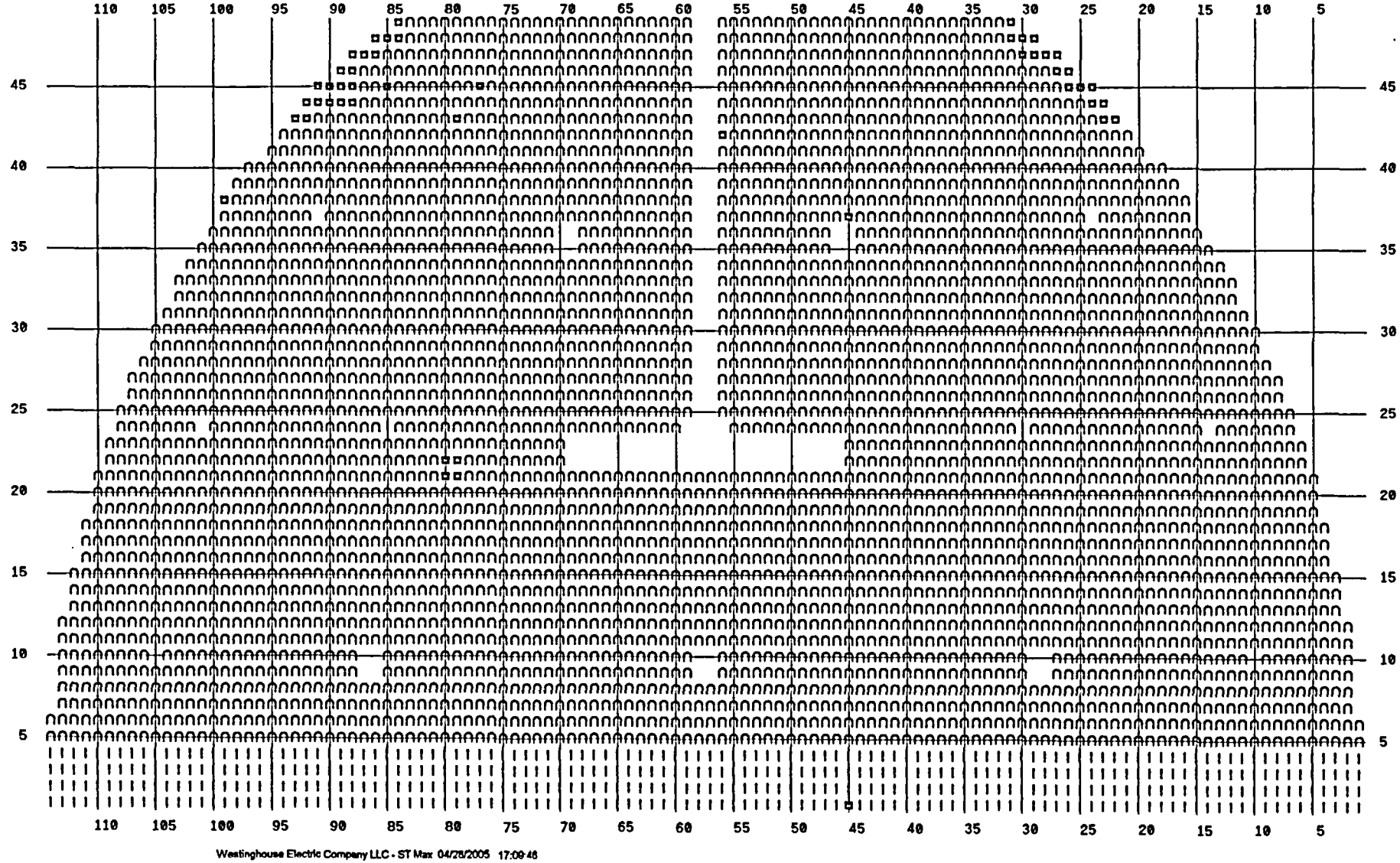
AS TESTED

Braidwood A2R11 CDE D5

∩ 4067 TESTED TEC THROUGH TEH

I 455 TESTED 11H THROUGH TEH

▫ 48 PLUGGED TUBE



Westinghouse Electric Company LLC - ST Max 04/28/2005 17:09:46

CDE-B HOT LEG .590 BOBBIN INSPECTION PROGRAM

AS TESTED

Braidwood A2R11 CDE D5

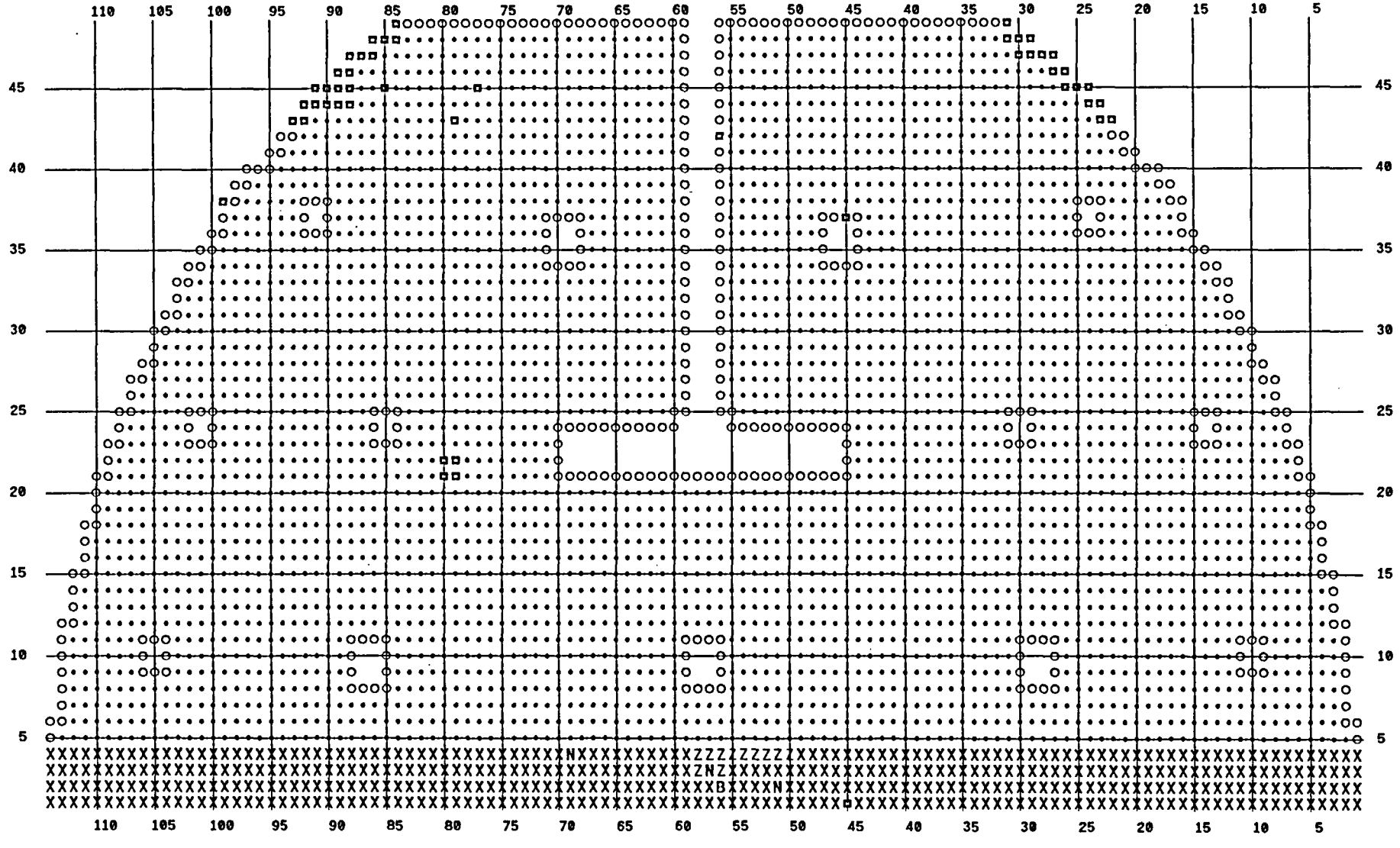
X 440 TESTED 11C THROUGH 10H

N 3 TESTED 11C THROUGH 09H

B 1 TESTED 11C THROUGH 08H

Z 11 TESTED 11C THROUGH TEH

▫ 48 PLUGGED TUBE



Westinghouse Electric Company LLC • ST Max 04/26/2005 17:05:19

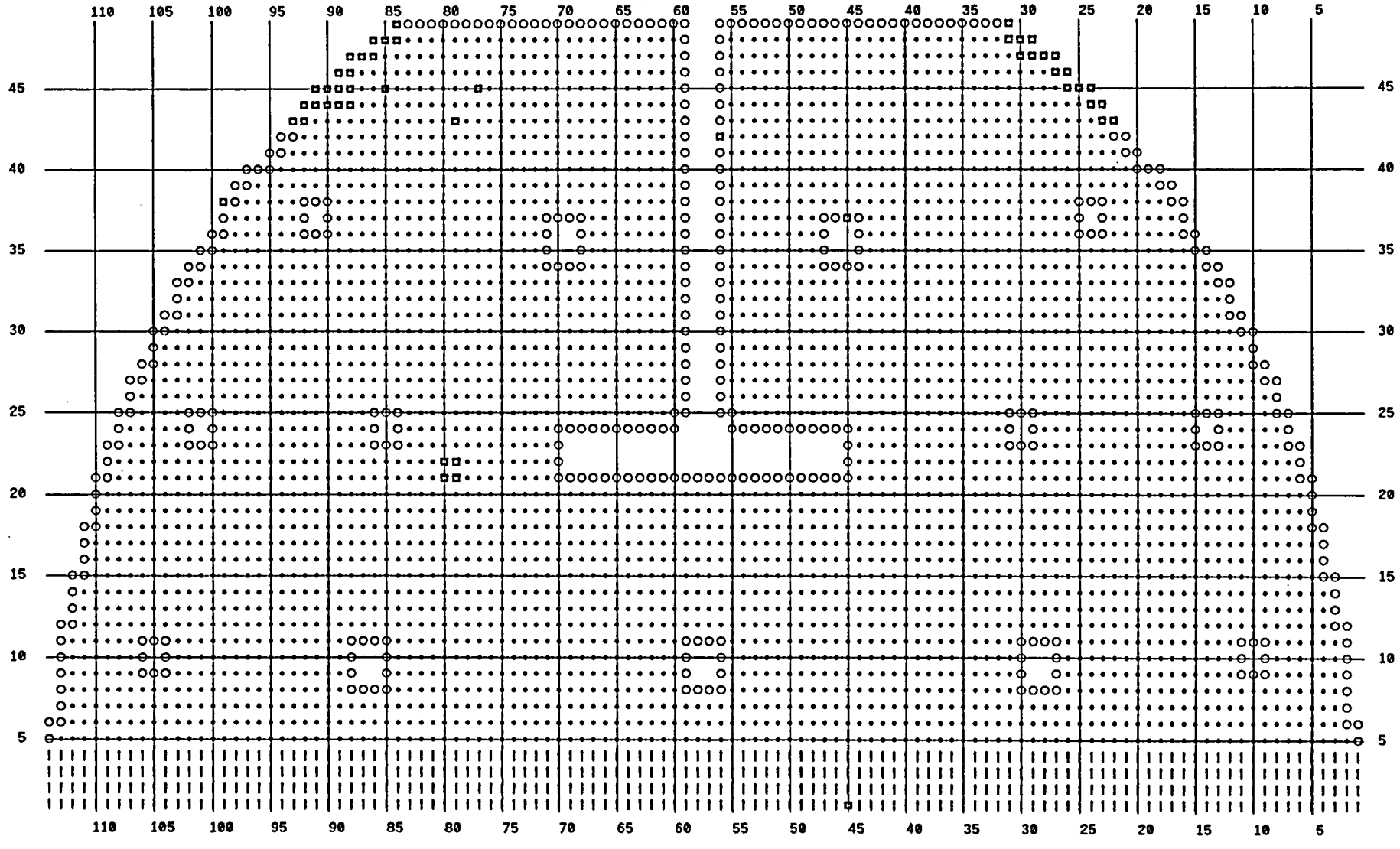
CDE-B COLD LEG 610 BOBBIN INSPECTION PROGRAM

AS TESTED

Braidwood A2R11 CDE D5

▫ 48 PLUGGED TUBE

I 455



Westinghouse Electric Company LLC - ST Max 04/28/2005 17:09:32

CDE-C HOT LEG .610 BOBBIN INSPECTION PROGRAM

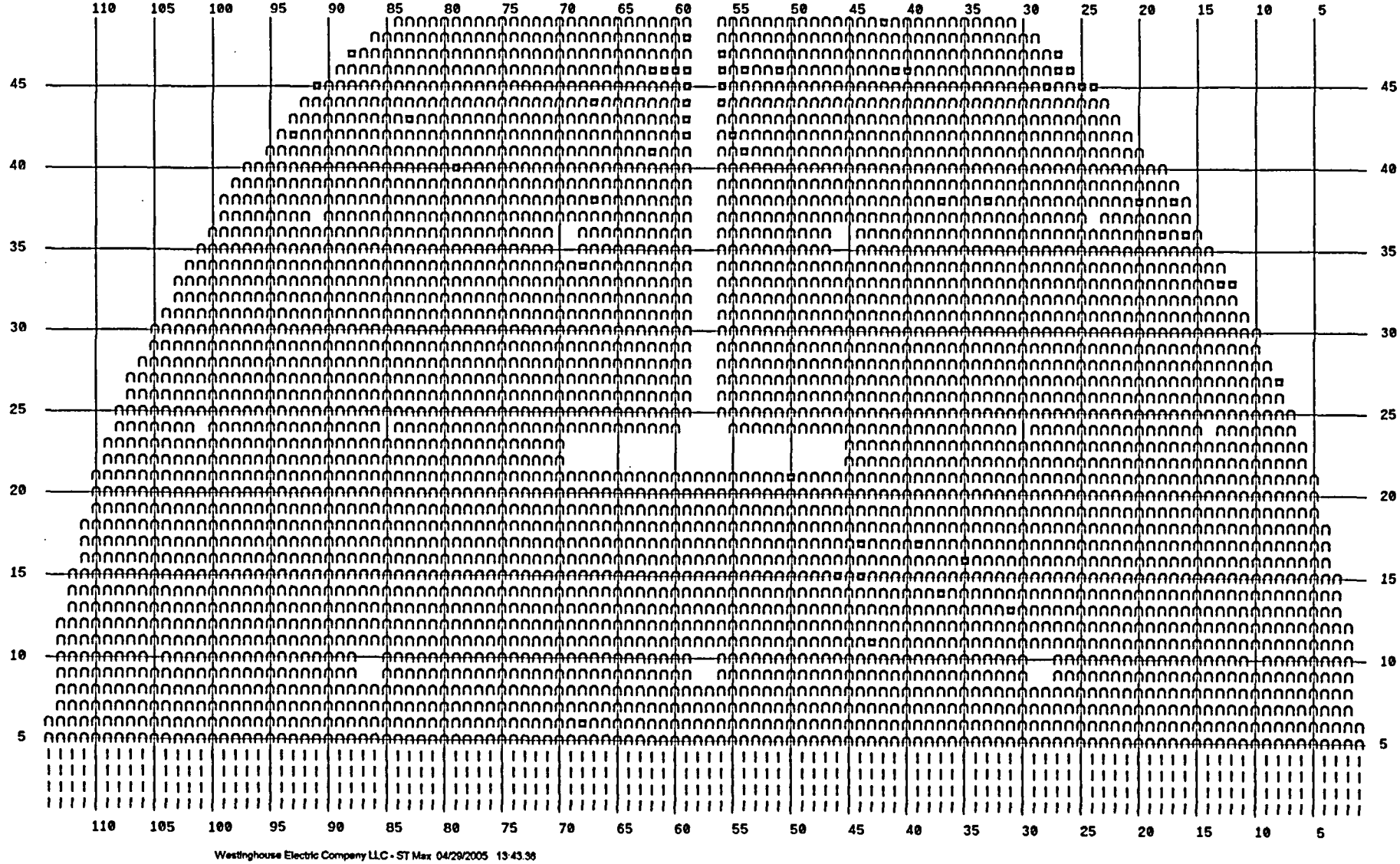
AS TESTED

Braidwood A2R11 CDE D5

∩ 4060 TESTED TEC THROUGH TEH

I 456 TESTED 11H THROUGH TEH

◘ 54 PLUGGED TUBE



Westinghouse Electric Company LLC - ST Max 04/29/2005 13:43:36

CDE-C HOT LEG .590 BOBBIN INSPECTION PROGRAM

AS TESTED

Braidwood A2R11 CDE D5

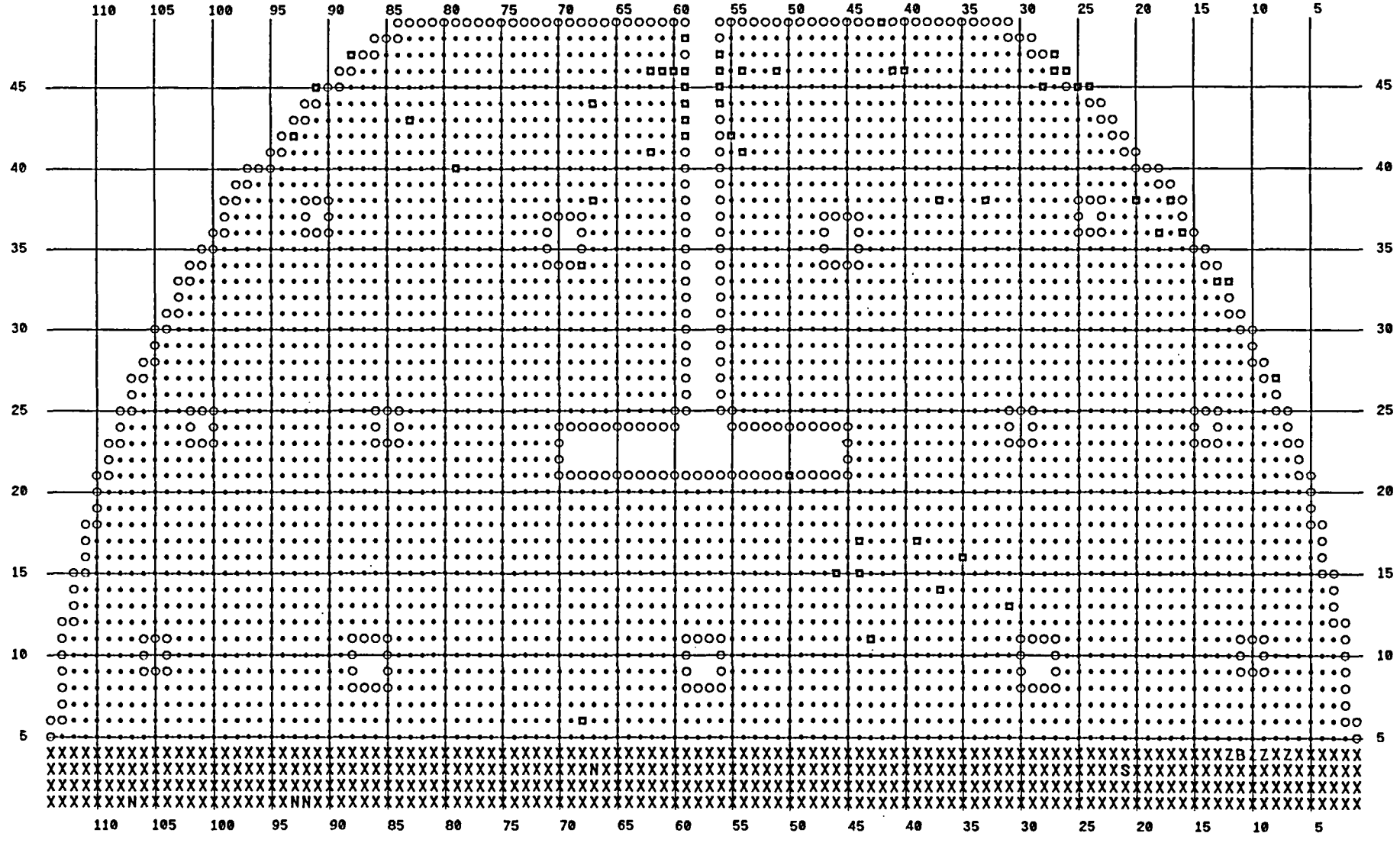
X 446 TESTED 11C THROUGH 10H ▫ 54 PLUGGED TUBE

N 4 TESTED 11C THROUGH 09H

B 1 TESTED 11C THROUGH 08H

S 1 TESTED 11C THROUGH 07H

Z 4 TESTED 11C THROUGH TEH



Westinghouse Electric Company LLC - ST Max 04/29/2005 12:07:03

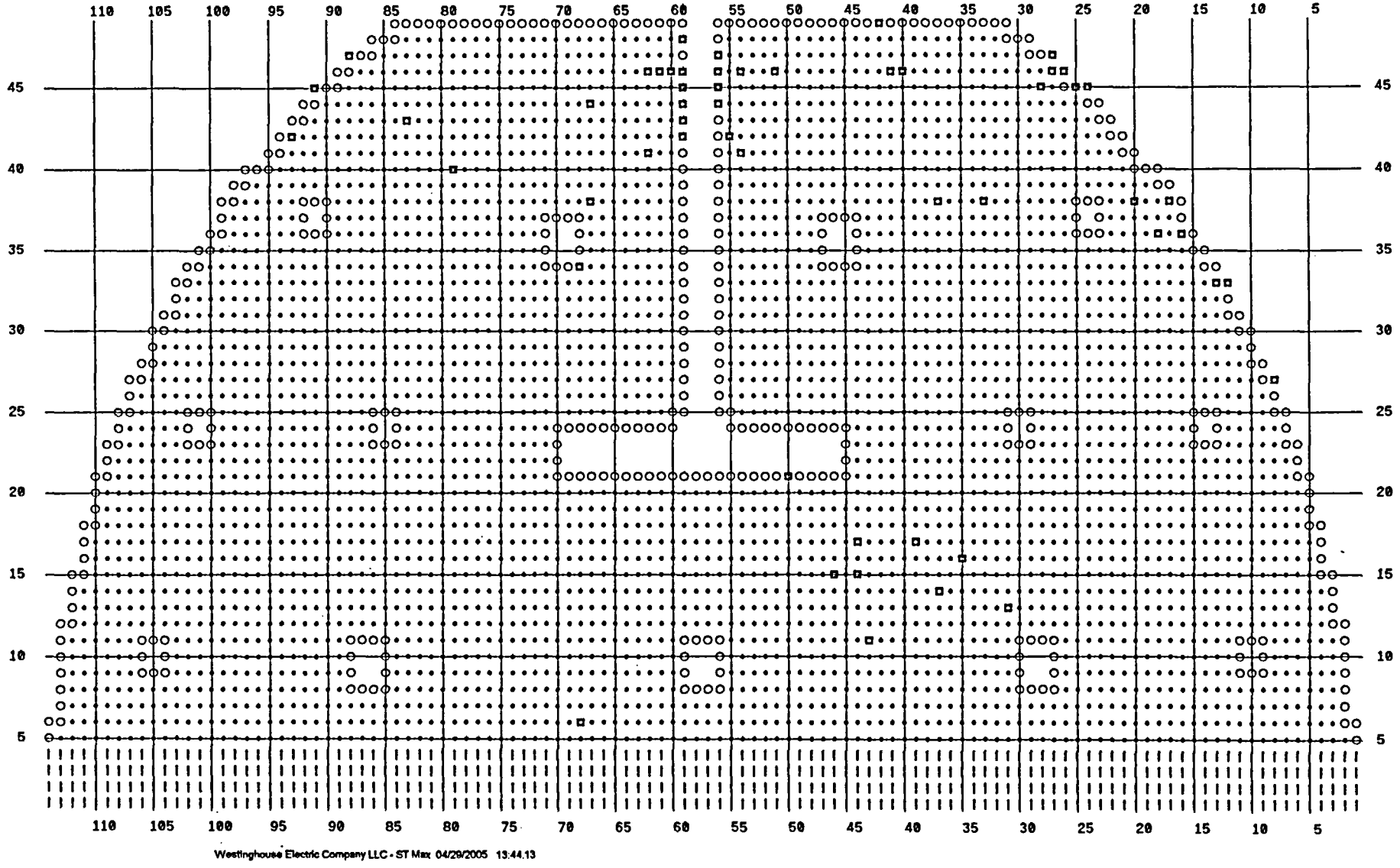
CDE-C COLD LEG 610 BOBBIN INSPECTION PROGRAM

AS TESTED

Braidwood A2R11 CDE D5

I 456 TESTED 11C THROUGH TEC

▫ 54 PLUGGED TUBE



CDE-D HOT LEG .610 BOBBIN INSPECTION PROGRAM

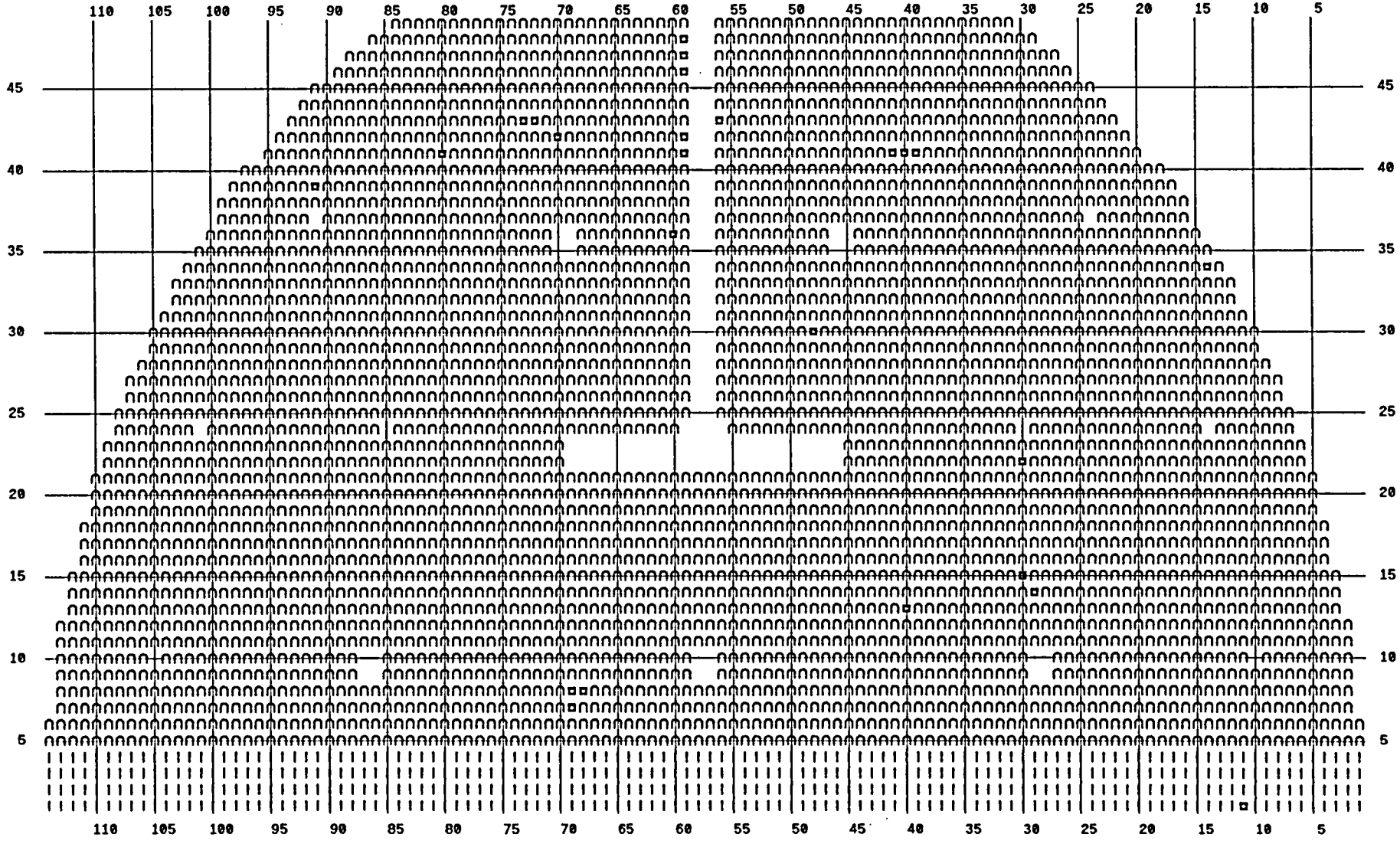
AS TESTED

Braidwood A2R11 CDE D5

∩ 4090 TESTED TEC THROUGH TEH

I 455 TESTED 11H THROUGH TEH

◘ 25 PLUGGED TUBE



Westinghouse Electric Company LLC - ST Max 04/29/2005 14:54:38

CDE-D HOT LEG .590 BOBBIN INSPECTION PROGRAM

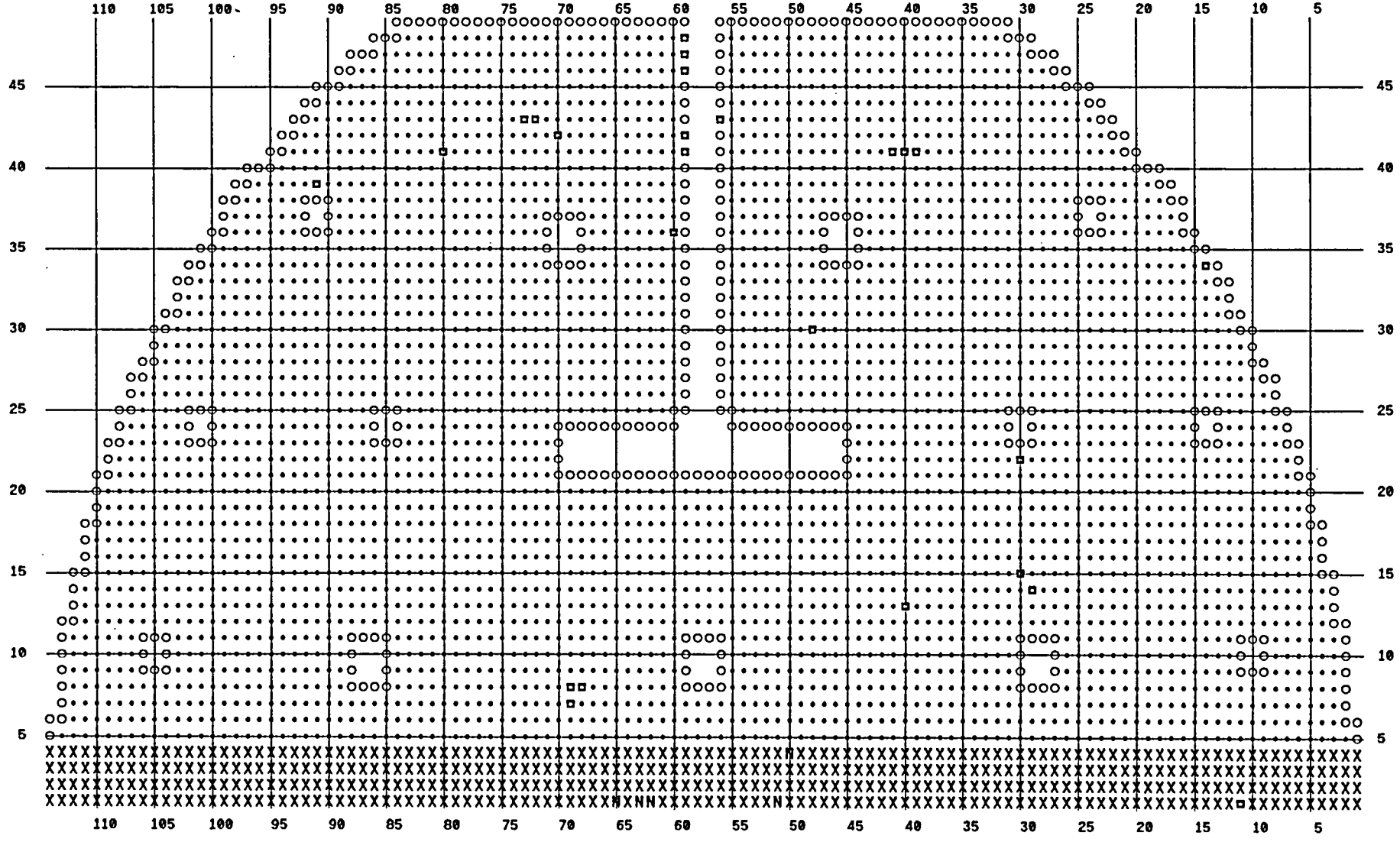
AS TESTED

Braidwood A2R11 CDE D5

X 450 TESTED 11C THROUGH 10H

N 5 TESTED 11C THROUGH 09H

▫ 25 PLUGGED TUBE



Westinghouse Electric Company LLC - ST Max 04/29/2005 14:54:51

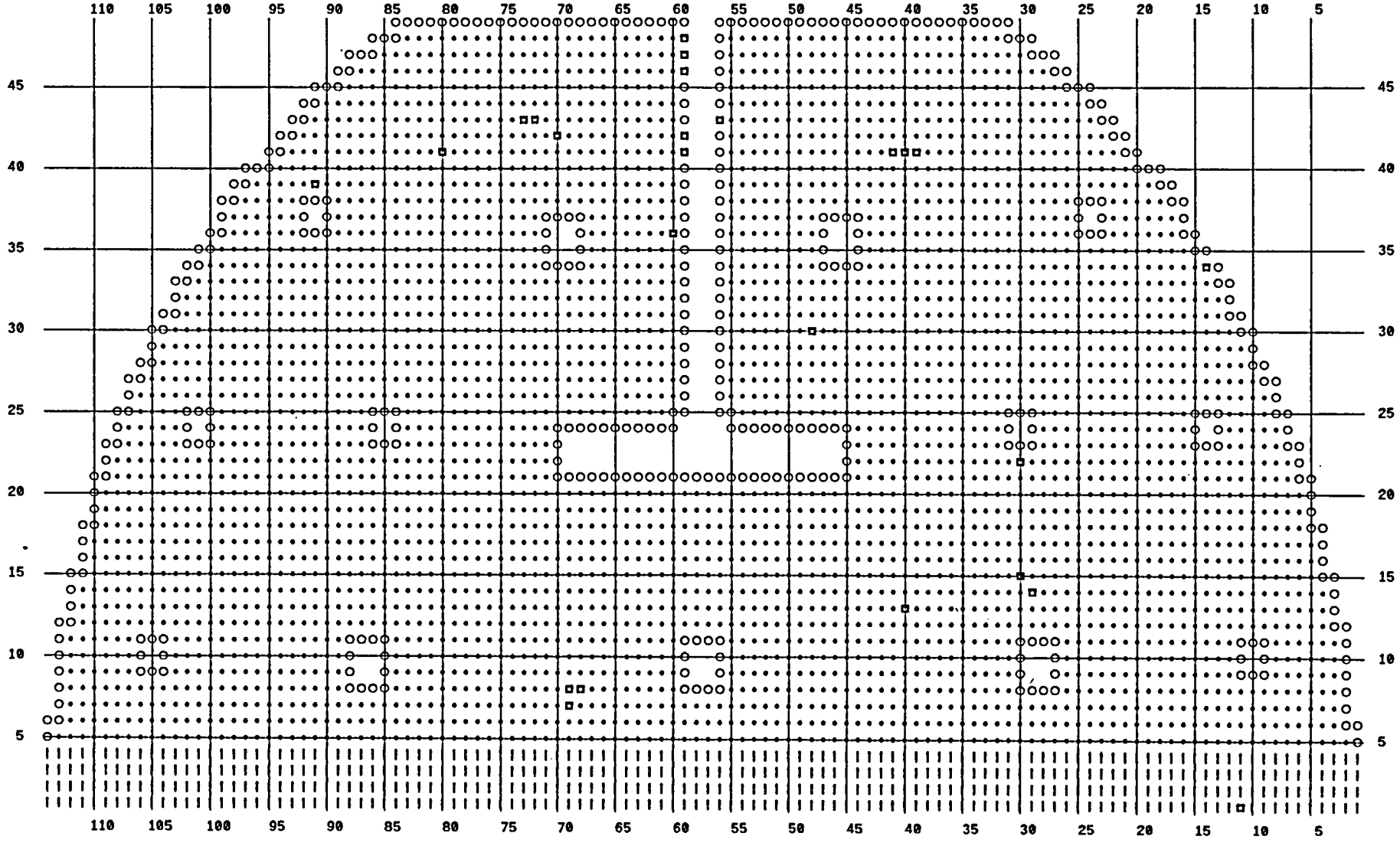
CDE-D COLD LEG 610 BOBBIN INSPECTION PROGRAM

AS TESTED

Braidwood A2R11 CDE D5

I 455 TESTED 11C THROUGH TEC

▫ 25 PLUGGED TUBE



Westinghouse Electric Company LLC - ST Max 04/29/2005 14:54:14

Attachment B.2

As-tested Plus-Point Hot Leg Tubesheet Inspection Maps

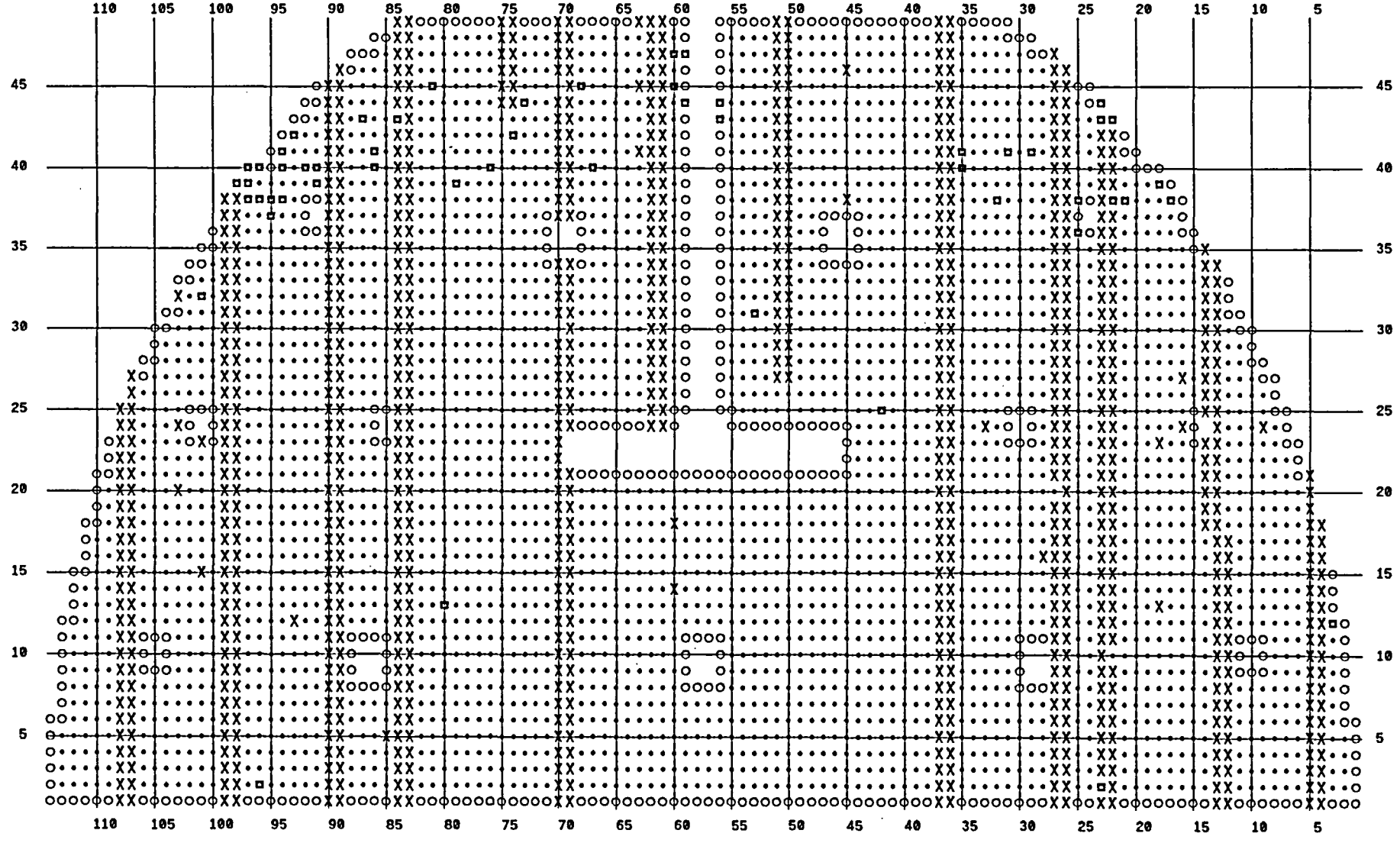
CDE-A HOT LEG TOP OF TUBESHEET +POINT INSPECTION PROGRAM

AS TESTED

Braidwood A2R11 CDE D5

X 914 TESTED TSH -17 THROUGH +3 INCHES

□ 53 PLUGGED TUBE



Westinghouse Electric Company LLC - ST Max 04/28/2005 11:27:26

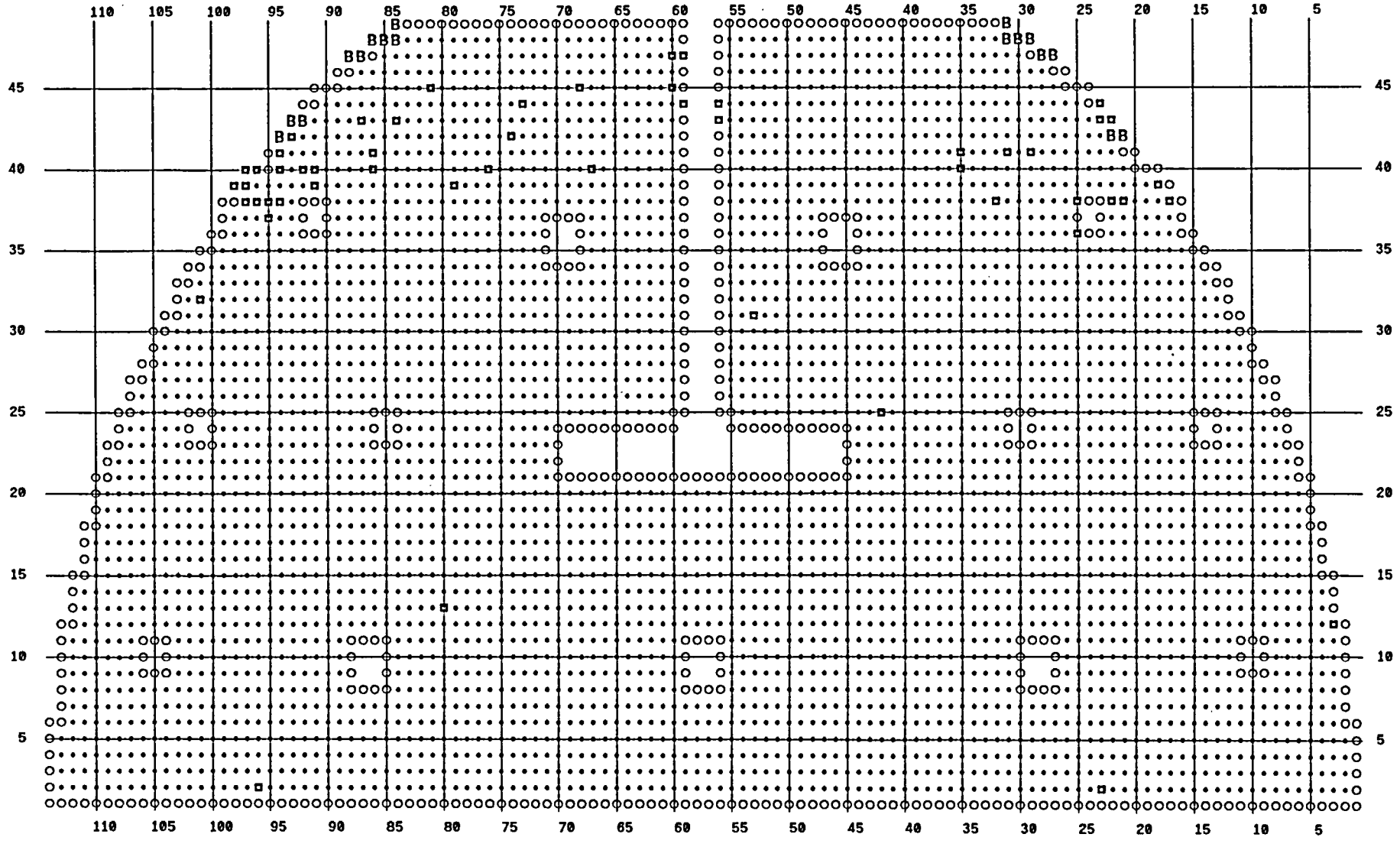
CDE-A COLD LEG 02C BAFFLE FLOW BUSTER BAR +POINT INSPECTION PROGRAM

AS TESTED

Braidwood A2R11 CDE D5

B 17 TESTED AT 02C -/+ 2 INCHES

▫ 53 PLUGGED TUBE



Westinghouse Electric Company LLC - ST Max 04/29/2005 14:50:28

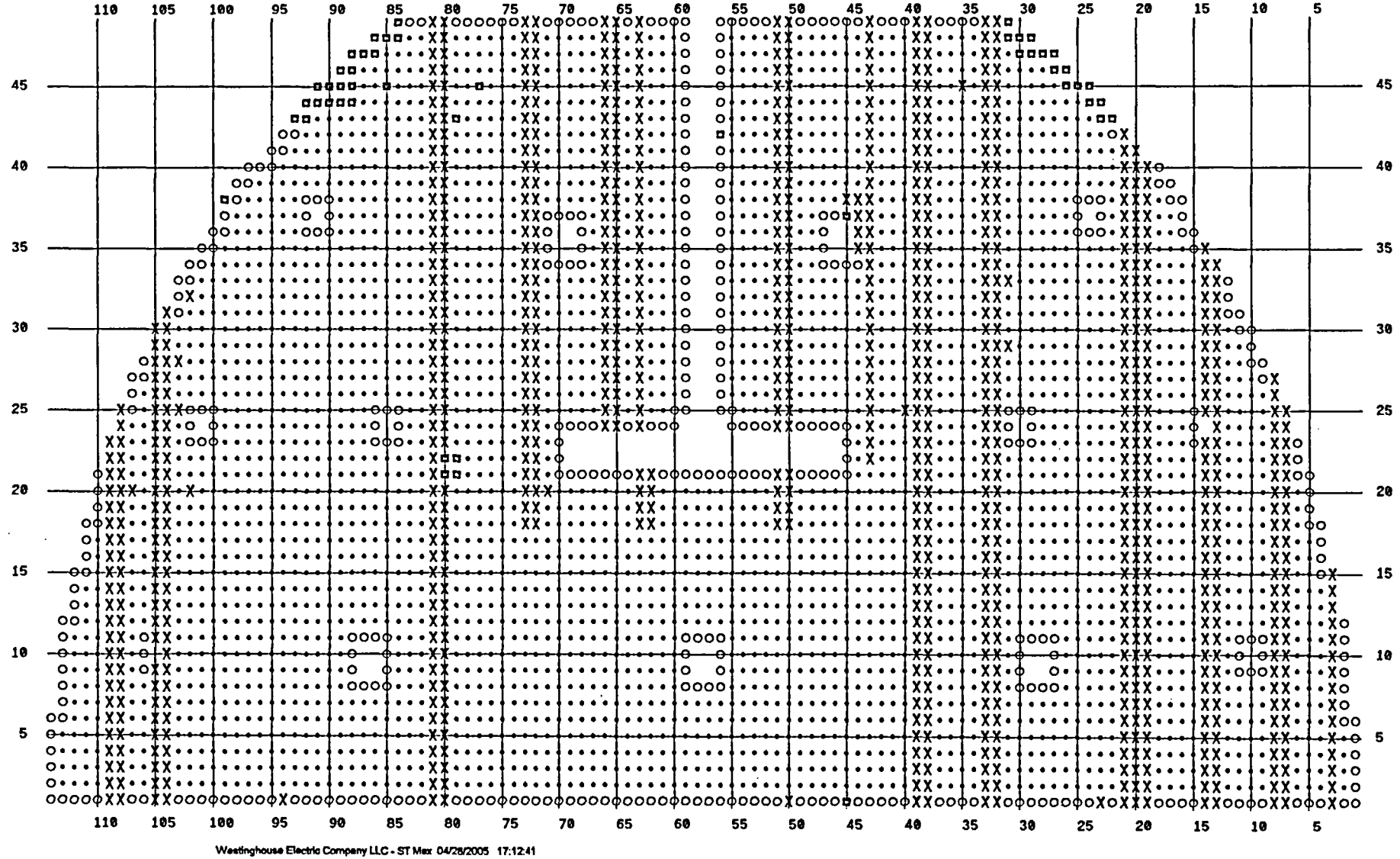
CDE-B HOT LEG TOP OF TUBESHEET +POINT INSPECTION PROGRAM

AS TESTED

Braidwood A2R11 CDE D5

X 914 TESTED TSH -17 THROUGH +3 INCHES

▫ 48 PLUGGED TUBE



Westinghouse Electric Company LLC - ST Max 04/26/2005 17:12:41

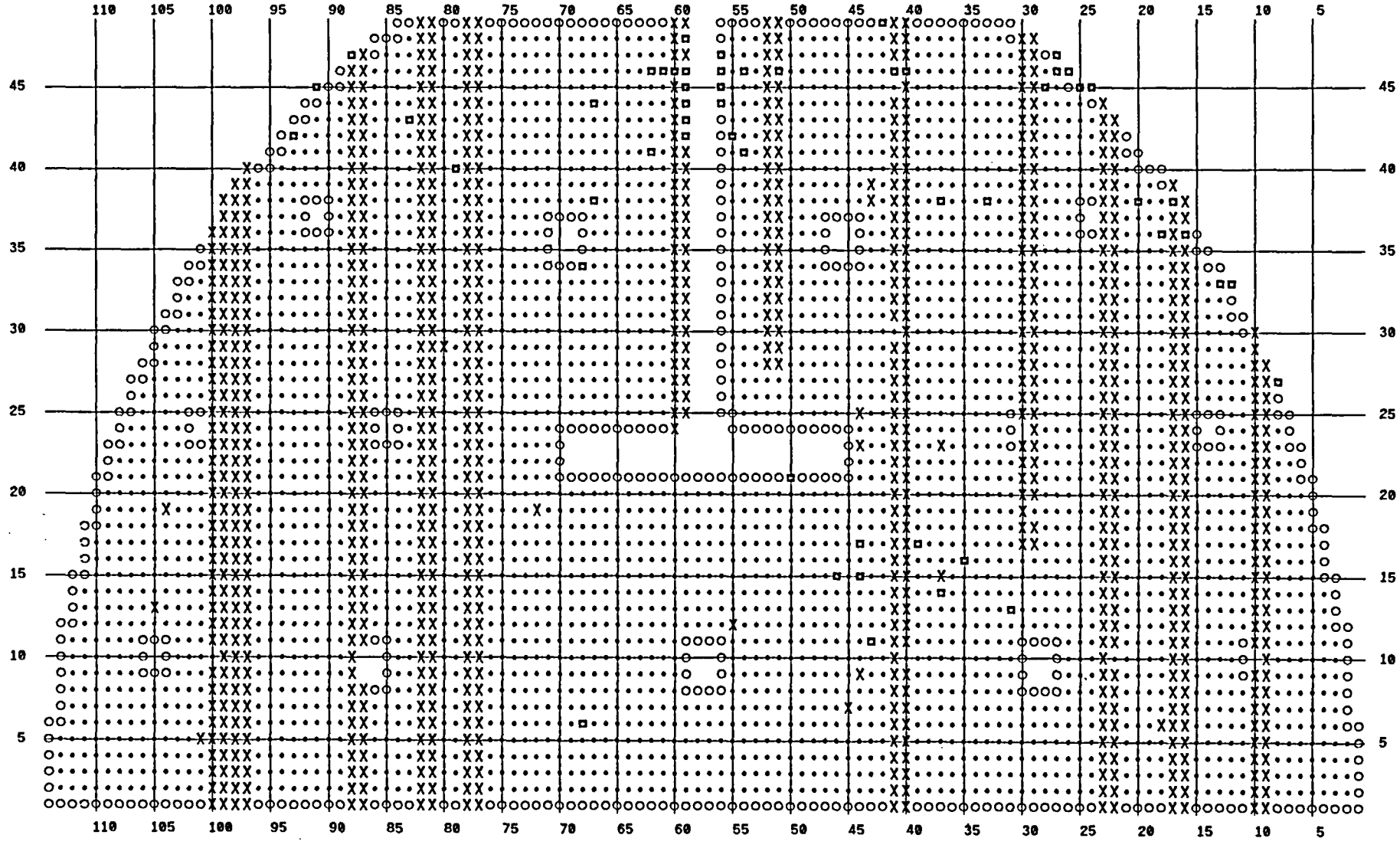
CDE-C HOT LEG TOP OF TUBESHEET +POINT INSPECTION PROGRAM

AS TESTED

Braidwood A2R11 CDE D5

X 914 TESTED TSH -17 THROUGH +3 INCHES

□ 54 PLUGGED TUBE



Westinghouse Electric Company LLC - ST Max 04/29/2005 13:55:39

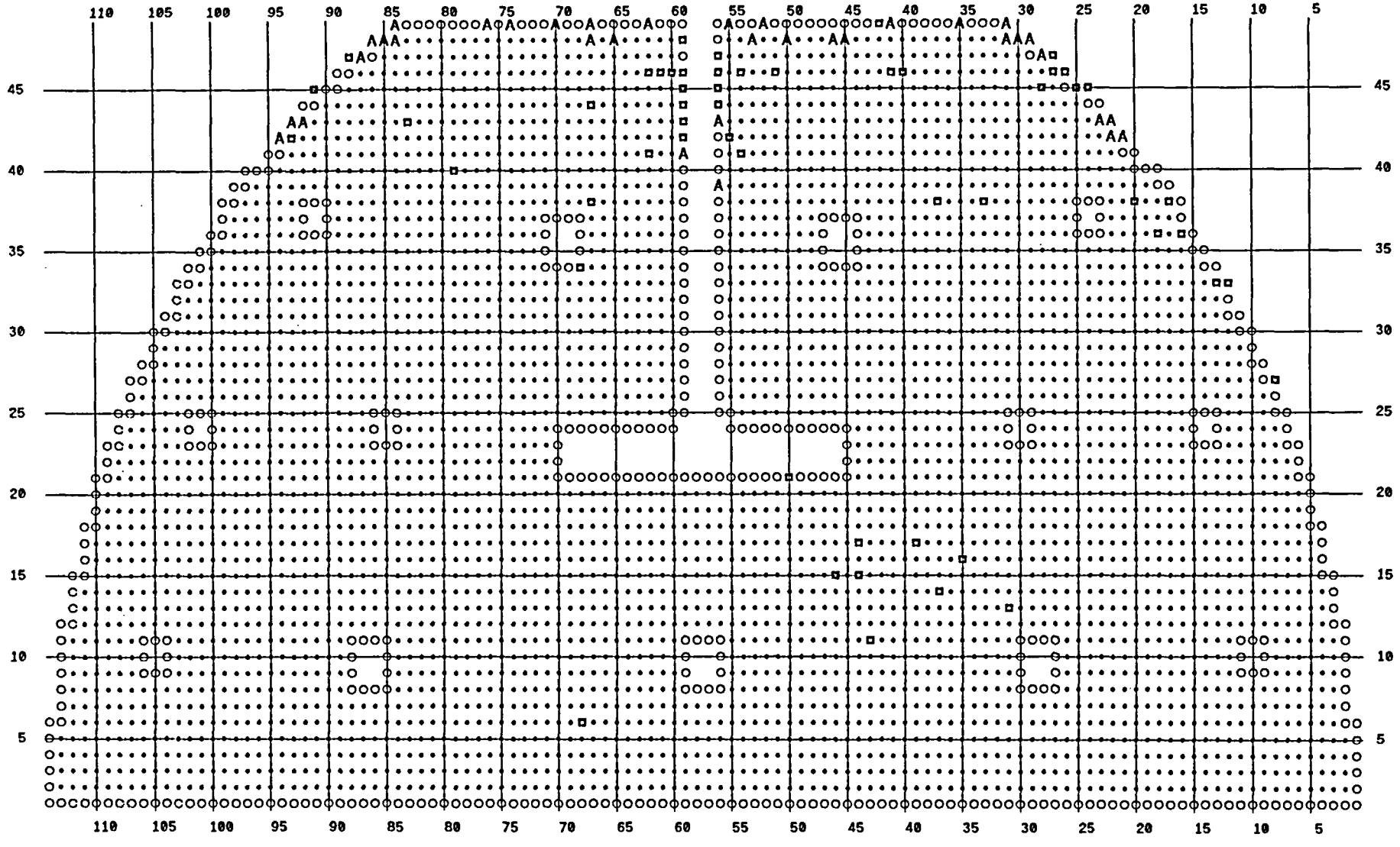
CDE-C COLD LEG TUBES EXPANDED AT B&D BAFFLE +POINT INSPECTION PROGRAM

AS TESTED

Braidwood A2R11 CDE D5

A 35 TESTED 02C AND 03C -/+ 2 INCHES

□ 54 PLUGGED TUBE



Westinghouse Electric Company LLC - ST Max 04/29/2005 12:13:27

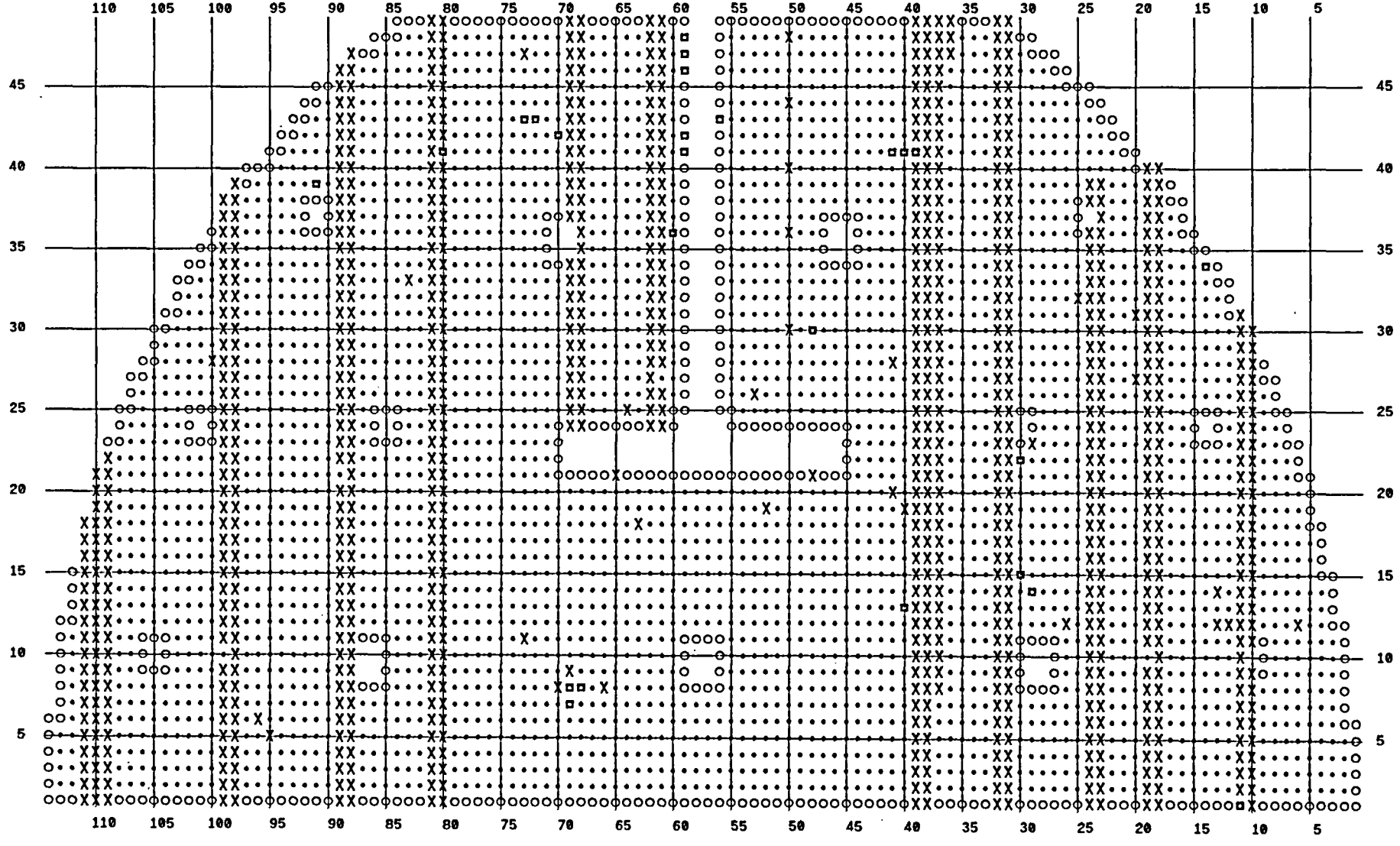
CDE-D HOT LEG TOP OF TUBESHEET +POINT INSPECTION PROGRAM

AS TESTED

Braidwood A2R11 CDE D5

X 914 TESTED TSH -17 THROUGH +3 INCHES

▫ 25 PLUGGED TUBE



Westinghouse Electric Company LLC - ST Max 04/29/2005 14:55:47

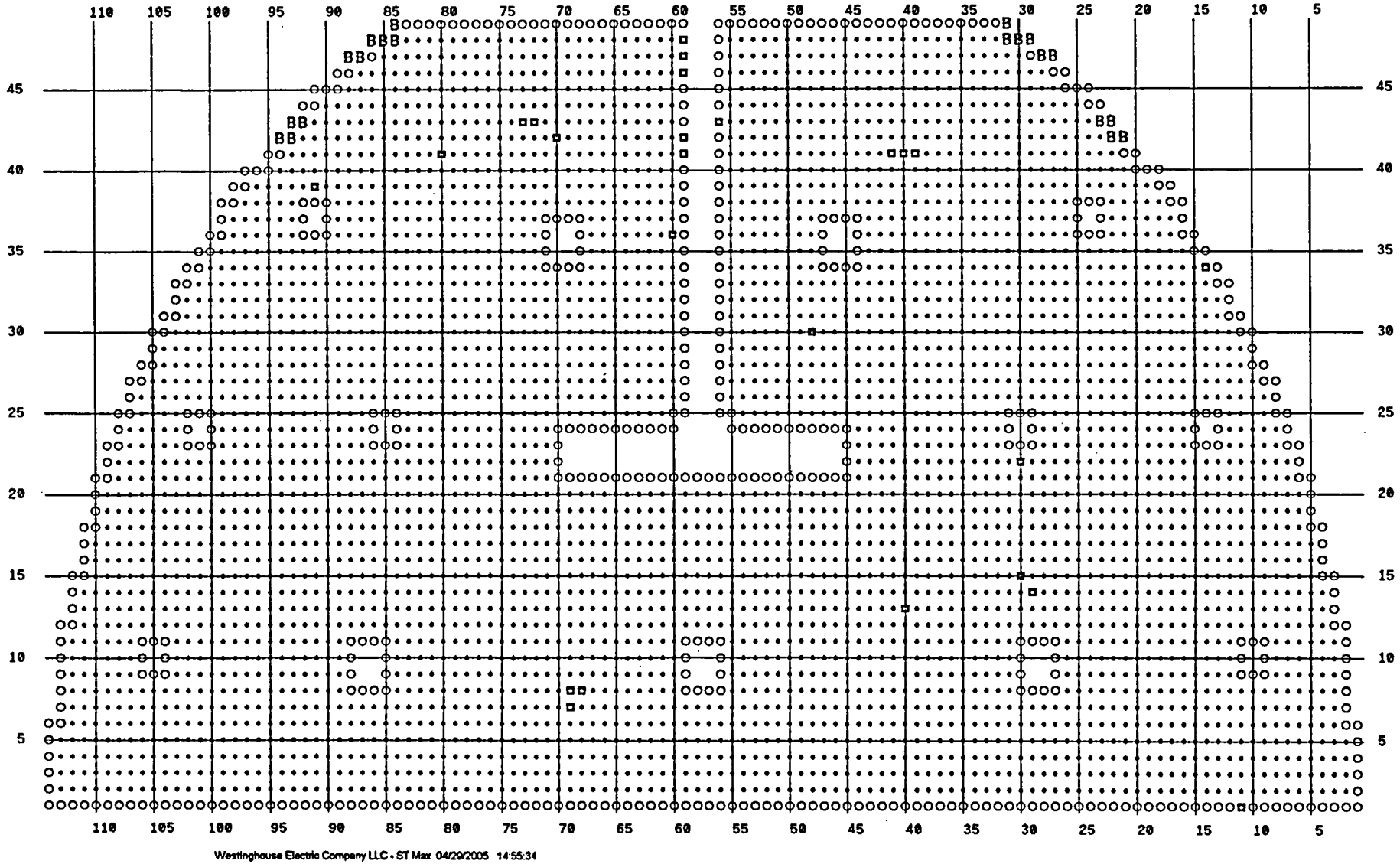
CDE-D COLD LEG 02C BAFFLE FLOW BUSTER BAR +POINT INSPECTION PROGRAM

AS TESTED

Braidwood A2R11 CDE D5

B 20 TESTED AT 02C -/+ 2 INCHES

▫ 25 PLUGGED TUBE



Attachment B.3

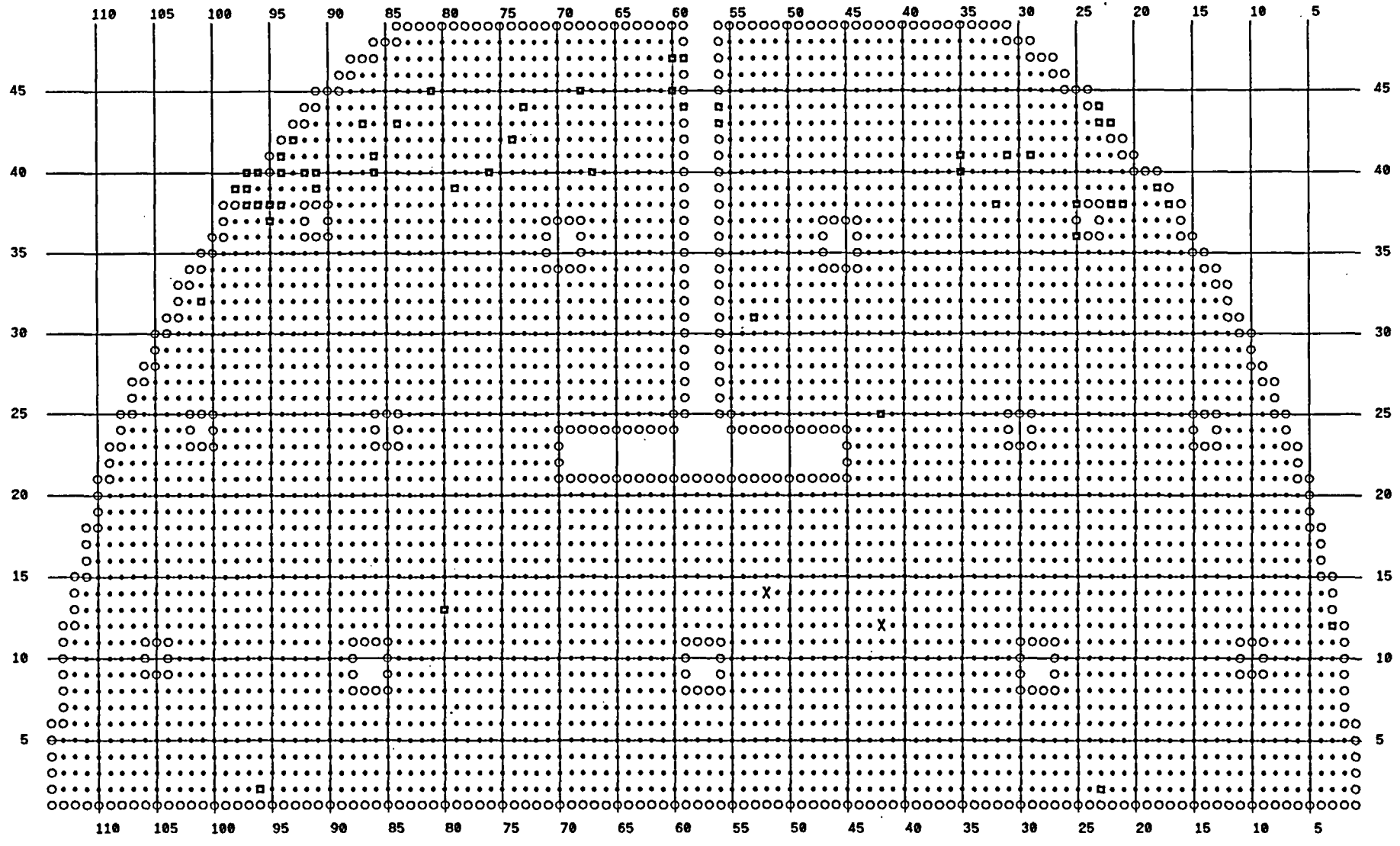
As-tested Plus-Point Special Interest Inspection Maps

CDE-A SPECIAL INTEREST +POINT INSPECTION

Braidwood A2R11 CDE D5

X 2 TESTED FOR SPECIAL INTEREST - SEE LIST FOR LOCATION(S) TESTED

▫ 53 PLUGGED TUBE



Westinghouse Electric Company LLC - ST Max 04/26/2005 18:23:29

SG - A Special Interest +Point Inspection Results

Braidwood 2 A2R11 CDE 20050401 04/28/2005 12:52:54

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
12	42	15.82	185	DTS		P1	TSC	.08		TEC	TEH	.610	ZBARH	3	H	RESULT OF HISTORY REVIEW
12	42			NDF		P1	TSC	.08		TSC	TSC	.610	ZPSNM	12	C	
14	52	21.01	184	DTS		P1	TSC	.05		TEC	TEH	.610	ZBARH	3	H	RESULT OF HISTORY REVIEW
14	52			NDF		P1	TSC	.05		TSC	TSC	.610	ZPSNM	12	C	

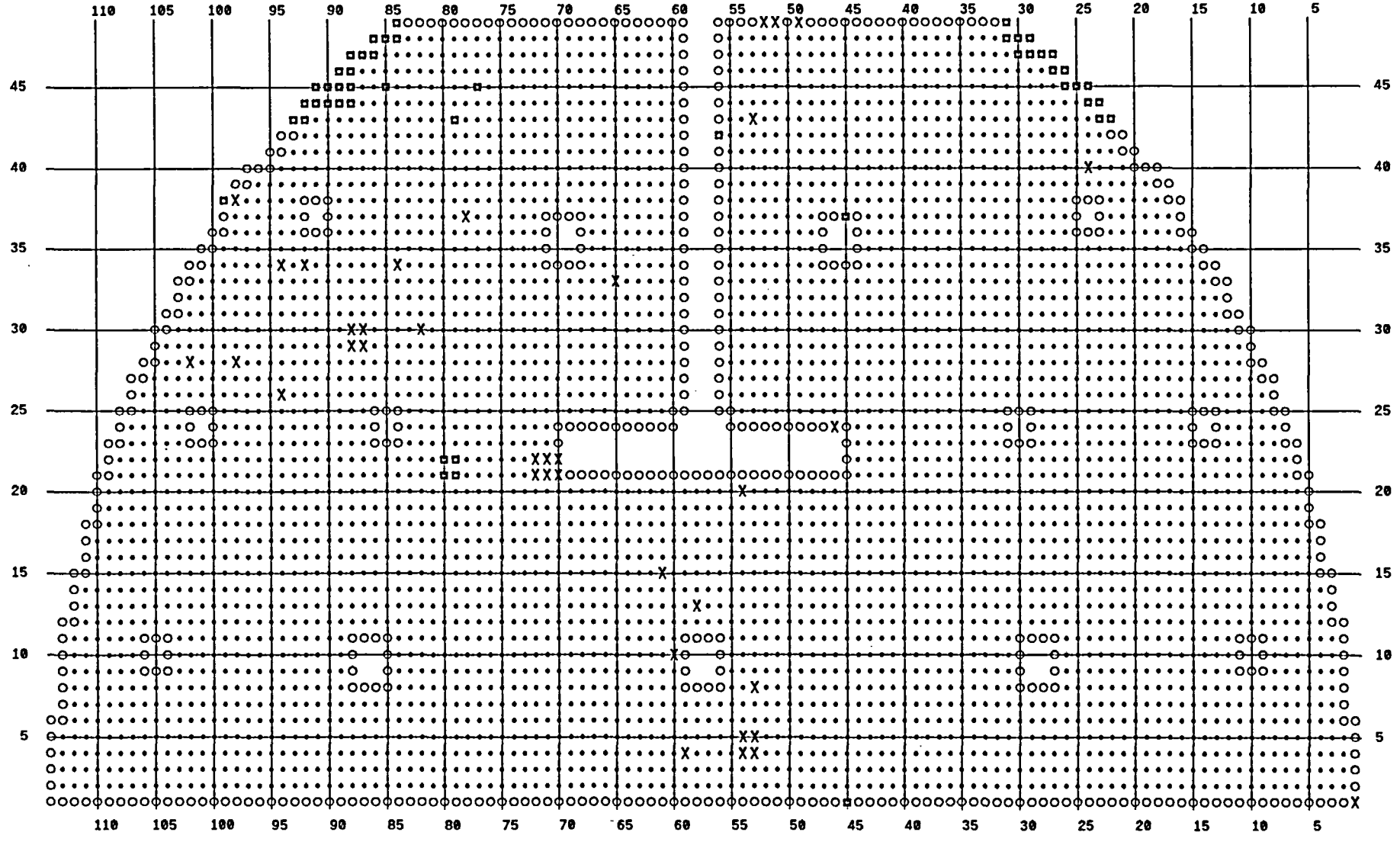
Tubes: 2 Records: 4

CDE-B SPECIAL INTEREST +POINT INSPECTION

Braidwood A2R11 CDE D5

X 37 TESTED FOR SPECIAL INTEREST - SEE LIST FOR LOCATION(S) TESTED

▫ 48 PLUGGED TUBE



Westinghouse Electric Company LLC - ST Max 04/28/2005 18:02:51

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
1	1			NDD						11C	TEC	.610	ZBARH	4	C	
1	1			NDD						11H	TEH	.610	ZBARH	25	H	
1	1			NDD						11C	10H	.590	ZBUBJ	53	H	
1	1			NDD						TEH	TEH	.610	ZPSNM	113	H	
40	24			NDF		P1	TSC	-.10		TSC	TSC	.610	ZPSNM	10	C	
40	24	2.96	177	DNT		P1	11C	.38		TEC	TEH	.610	ZBARH	17	H	
40	24	9.98	53	DTS		P4	TSC	-.10		TEC	TEH	.610	ZBARH	17	H	RESULT OF HISTORY REVIEW
24	46	.14	71	PLP		11	02C	.45		02C	02C	.610	ZPSNM	10	C	
24	46			NDD						TEC	TEH	.610	ZBARH	11	H	
49	49	.15	88	VOL		2	05C	-.07		05C	05C	.610	ZPSNM	10	C	
49	49	2.20	180	DNT		P1	AV2	.03		TEC	TEH	.610	ZBARH	23	H	
49	49	3.29	181	DNT		P1	AV3	-.03		TEC	TEH	.610	ZBARH	23	H	
49	49	.70	0	RWS		P2	05C	-.45		TEC	TEH	.610	ZBARH	23	H	RESULT OF HISTORY REVIEW
49	49			PBC						TEC	TEH	.610	ZBARH	79	H	
49	49	.11	0	PCT	4	P2	05C	.00		TEC	TEH	.610	ZBARH	79	H	
49	51	1.15	62	VOL		2	TSC	.57		TSC	TSC	.610	ZPSNM	10	C	
49	51	.22	97	PCT	24	2	TSC	.64		TSC	TSC	.610	ZPSNM	10	C	
49	51	2.85	182	DNT		P1	AV3	.00		TEC	TEH	.610	ZBARH	23	H	
49	51	1.33	81	MBM		6	07C	3.44		TEC	TEH	.610	ZBARH	23	H	RESULT OF HISTORY REVIEW
49	51	.26	116	DFS		1	TSC	.57		TEC	TEH	.610	ZBARH	23	H	RESULT OF HISTORY REVIEW
49	51			NDD						TSH	TSH	.610	ZPSNM	99	H	
49	52	.22	81	PCT	24	2	TSC	.36		TSC	TSC	.610	ZPSNM	10	C	
49	52	1.13	85	VOL		2	TSC	.49		TSC	TSC	.610	ZPSNM	10	C	DATA QUALITY ACCEPTED BY ANALYSIS
49	52	.45	86	PCT	37	2	TSC	.97		TSC	TSC	.610	ZPSNM	10	C	
49	52	2.39	86	VOL		2	TSC	1.08		TSC	TSC	.610	ZPSNM	10	C	DATA QUALITY ACCEPTED BY ANALYSIS
49	52	2.98	182	DNT		P1	AV2	-.05		TEC	TEH	.610	ZBARH	23	H	
49	52	3.20	180	DNT		P1	AV3	-.08		TEC	TEH	.610	ZBARH	23	H	
49	52	2.50	179	DNT		P1	AV4	.05		TEC	TEH	.610	ZBARH	23	H	
49	52	.24	145	DFS		1	TSC	.40		TEC	TEH	.610	ZBARH	23	H	RESULT OF HISTORY REVIEW
49	52	1.06	153	DFS		1	TSC	.90		TEC	TEH	.610	ZBARH	23	H	RESULT OF HISTORY REVIEW
4	53			NDD						11C	TEC	.610	ZBARH	2	C	
4	53			NDD						02C	02C	.610	ZPSNM	10	C	
4	53			NDD						11H	TEH	.610	ZBARH	33	H	
4	53			NDD						11C	TEH	.590	ZBUBJ	49	H	
5	53			NDD						TEC	TEH	.610	ZBARH	5	H	
5	53			NDD						02C	02C	.610	ZPSNM	10	C	
8	53			NDD						TEC	TEH	.610	ZBARH	5	H	
8	53	.17	83	PLP		11	02C	.52		02C	02C	.610	ZPSNM	10	C	
43	53			NDD						02C	02C	.610	ZPSNM	10	C	
43	53			NDD						TEC	TEH	.610	ZBARH	23	H	
4	54			NDD						11C	TEC	.610	ZBARH	2	C	
4	54			NDD						02C	02C	.610	ZPSNM	10	C	
4	54			NDD						11H	TEH	.610	ZBARH	33	H	
4	54			NDD						11C	TEH	.590	ZBUBJ	49	H	
5	54			NDD						TEC	TEH	.610	ZBARH	7	H	
5	54			NDD						02C	02C	.610	ZPSNM	10	C	
20	54	3.09	186	DNG		P1	09H	11.32		TEC	TEH	.610	ZBARH	5	H	
20	54	2.08	189	DNG		P1	TSC	1.42		TEC	TEH	.610	ZBARH	5	H	
20	54			NDD						02C	02C	.610	ZPSNM	12	C	
13	58			NDD						02C	02C	.610	ZPSNM	10	C	
13	58			NDD						TEC	TEH	.610	ZBARH	21	H	
4	59			NDD						11C	TEC	.610	ZBARH	2	C	
4	59			NDD						02C	02C	.610	ZPSNM	10	C	
4	59			NDD						11C	10H	.590	ZBUBJ	69	H	
4	59			NDD						11H	TEH	.610	ZBARH	75	H	
10	60	.10	80	PLP		11	02C	.55		02C	02C	.610	ZPSNM	10	C	
10	60			NDD						TEC	TEH	.610	ZBARH	75	H	
15	61			NDD						02C	02C	.610	ZPSNM	10	C	
15	61	3.20	186	DNG		P1	AV4	2.29		TEC	TEH	.610	ZBARH	75	H	
33	65			NDD						02C	02C	.610	ZPSNM	10	C	
33	65			NDD						TEC	TEH	.610	ZBARH	29	H	
33	65			NDD						TSH	TSH	.610	ZPSNM	97	H	
21	70			NDD						02C	02C	.610	ZPSNM	10	C	
21	70	2.03	75	MBM		6	02C	7.99		TEC	TEH	.610	ZBARH	39	H	RESULT OF HISTORY REVIEW
22	70			NDD						02C	02C	.610	ZPSNM	10	C	
22	70			NDD						TEC	TEH	.610	ZBARH	39	H	
21	71			NDD						02C	02C	.610	ZPSNM	10	C	
21	71			NDD						TEC	TEH	.610	ZBARH	39	H	
22	71			NDD						02C	02C	.610	ZPSNM	10	C	
22	71			NDD						TEC	TEH	.610	ZBARH	37	H	

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
21	72			NDD						02C	02C	.610	ZPSNM	10	C	
21	72	3.82	78	MBM		6	05H	29.56		TEC	TEH	.610	ZBARH	39	H	RESULT OF HISTORY REVIEW
21	72	3.79	77	MBM		6	08H	21.22		TEC	TEH	.610	ZBARH	39	H	RESULT OF HISTORY REVIEW
21	72	1.78	67	MBM		6	08H	25.33		TEC	TEH	.610	ZBARH	39	H	RESULT OF HISTORY REVIEW
21	72	2.55	74	MBM		6	08H	27.50		TEC	TEH	.610	ZBARH	39	H	RESULT OF HISTORY REVIEW
21	72	3.29	73	MBM		6	09C	5.35		TEC	TEH	.610	ZBARH	39	H	RESULT OF HISTORY REVIEW
21	72			NDD						TSH	TSH	.610	ZPSNM	101	H	
22	72			NDD						02C	02C	.610	ZPSNM	10	C	
22	72			NDD						TEC	TEH	.610	ZBARH	37	H	
22	72			NDD						TSH	TSH	.610	ZPSNM	101	H	
37	78			NDD						02C	02C	.610	ZPSNM	10	C	
37	78	2.30	180	DNG		P1	03C	13.61		TEC	TEH	.610	ZBARH	31	H	
30	82	6.74	70	DTS		P4	TSH	-.03		TEC	TEH	.610	ZBARH	33	H	RESULT OF HISTORY REVIEW
30	82			NDF		P1	TSH	-.03		TSH	TSH	.610	ZPSNM	109	H	
34	84	4.15	59	DTS		P4	TSH	-.08		TEC	TEH	.610	ZBARH	29	H	RESULT OF HISTORY REVIEW
34	84			NDF		P1	TSH	-.08		TSH	TSH	.610	ZPSNM	109	H	
29	87			NDD						02C	02C	.610	ZPSNM	10	C	
29	87			NDD						TEC	TEH	.610	ZBARH	33	H	
30	87			NDD						02C	02C	.610	ZPSNM	10	C	
30	87	.84	110	DFS		3	11H	1.03		TEC	TEH	.610	ZBARH	35	H	RESULT OF HISTORY REVIEW
29	88			NDD						02C	02C	.610	ZPSNM	10	C	
29	88			NDD						TEC	TEH	.610	ZBARH	33	H	
30	88			NDD						02C	02C	.610	ZPSNM	10	C	
30	88	.41	81	DFS		3	11H	1.10		TEC	TEH	.610	ZBARH	35	H	RESULT OF HISTORY REVIEW
34	92			NDF		2	TSC	.00		TSC	TSC	.610	ZPSNM	10	C	DATA QUALITY ACCEPTED BY ANALYSIS
34	92	3.90	76	MBM		6	09C	24.44		TEC	TEH	.610	ZBARH	29	H	RESULT OF HISTORY REVIEW
34	92	4.28	76	MBM		6	06C	3.19		TEC	TEH	.610	ZBARH	29	H	RESULT OF HISTORY REVIEW
34	92	3.22	81	DTS		P4	TSC	.00		TEC	TEH	.610	ZBARH	29	H	RESULT OF HISTORY REVIEW
26	94			NDD						02C	02C	.610	ZPSNM	10	C	
26	94			NDD						TEC	TEH	.610	ZBARH	35	H	
34	94	3.68	78	DTS		P4	TSH	-.06		TEC	TEH	.610	ZBARH	29	H	RESULT OF HISTORY REVIEW
34	94			NDF		P1	TSH	-.06		TSH	TSH	.610	ZPSNM	109	H	
28	98			NDD						02C	02C	.610	ZPSNM	10	C	
28	98			NDD						TEC	TEH	.610	ZBARH	35	H	
38	98	4.32	60	DTS		P4	TSH	.00		TEC	TEH	.610	ZBARH	29	H	RESULT OF HISTORY REVIEW
38	98	1.17	0	PCT	17	P2	AV3	.08		TEC	TEH	.610	ZBARH	29	H	
38	98	1.37	0	PCT	19	P2	AV4	.13		TEC	TEH	.610	ZBARH	29	H	
38	98			NDF		P1	TSH	.00		TSH	TSH	.610	ZPSNM	109	H	
28	102			NDD						02C	02C	.610	ZPSNM	10	C	
28	102			NDD						TEC	TEH	.610	ZBARH	35	H	

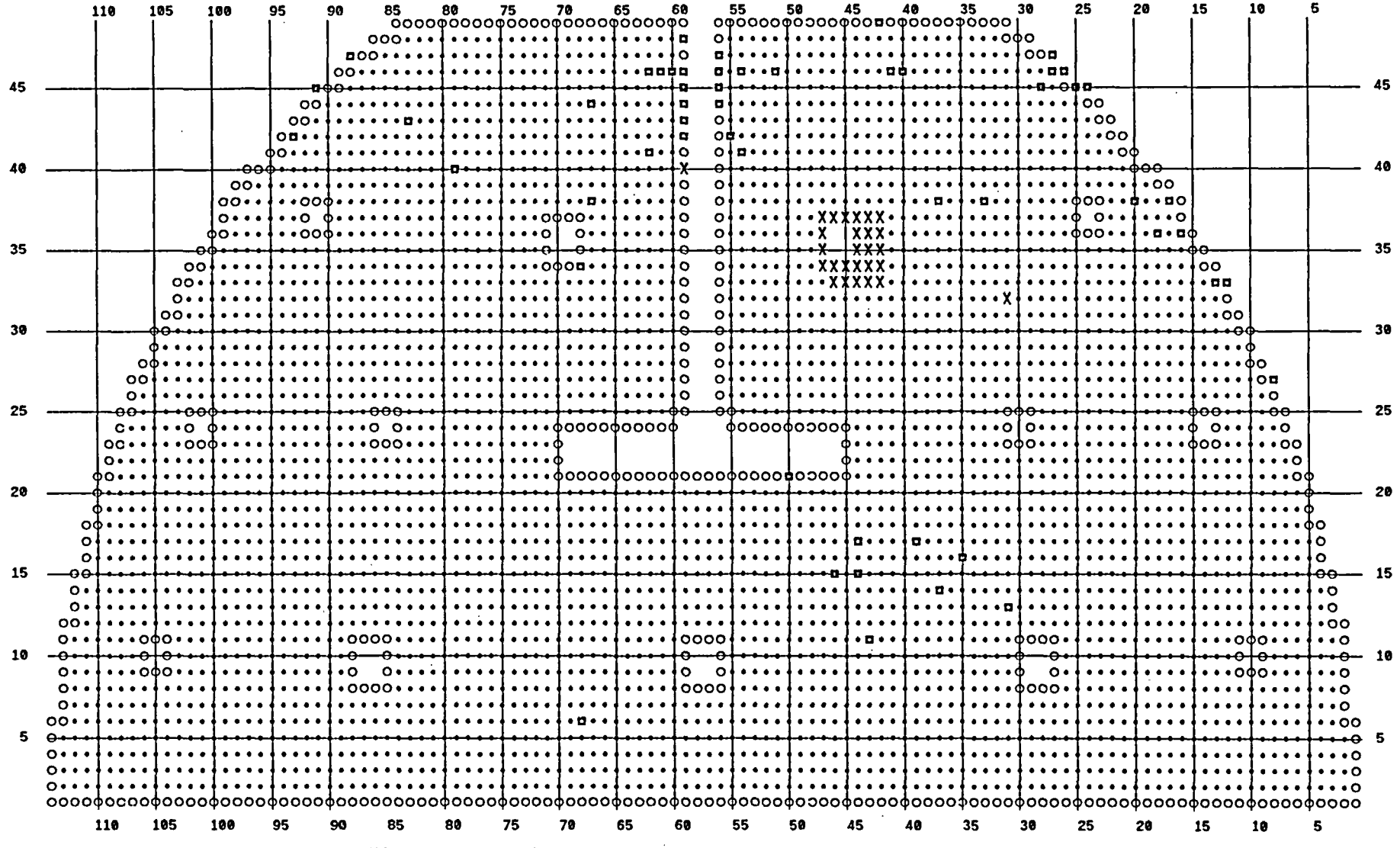
| ROW | COL | VOLTS | DEG | IND | PER | CHN | LOCN | INCH1 | INCH2 | BEGT | ENDT | PDIA | PTYPE | CAL | L | COM |

CDE-C SPECIAL INTEREST +POINT INSPECTION

Braidwood A2R11 CDE D5

X 27 TESTED FOR SPECIAL INTEREST - SEE LIST FOR LOCATION(S) TESTED

□ 54 PLUGGED TUBE



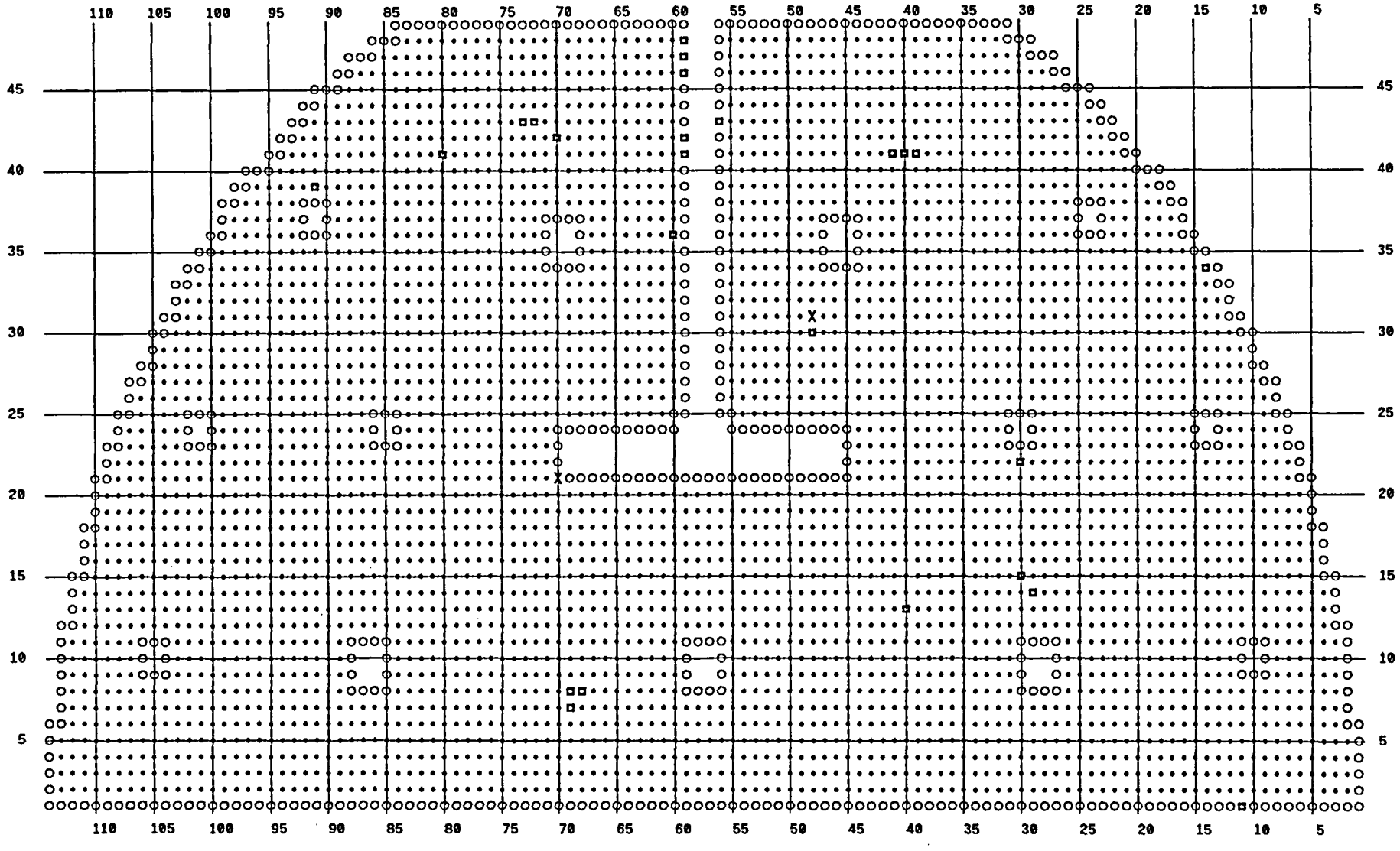
ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
32	31			NDF		1	AV1	8.31		11H	AV2	.580	ZPUNM	133	H	
33	42			NDD						08H	08H	.610	ZPSNM	137	H	DATA QUALITY ACCEPTED BY ANALYSIS
34	42			NDD						08H	08H	.610	ZPSNM	137	H	DATA QUALITY ACCEPTED BY ANALYSIS
35	42			NDD						08H	08H	.610	ZPSNM	137	H	DATA QUALITY ACCEPTED BY ANALYSIS
36	42			NDD						08H	08H	.610	ZPSNM	137	H	DATA QUALITY ACCEPTED BY ANALYSIS
37	42			NDD						08H	08H	.610	ZPSNM	137	H	DATA QUALITY ACCEPTED BY ANALYSIS
33	43			NDD						08H	08H	.610	ZPSNM	137	H	DATA QUALITY ACCEPTED BY ANALYSIS
34	43			NDD						08H	08H	.610	ZPSNM	137	H	DATA QUALITY ACCEPTED BY ANALYSIS
35	43			NDD						08H	08H	.610	ZPSNM	137	H	DATA QUALITY ACCEPTED BY ANALYSIS
36	43			NDD						08H	08H	.610	ZPSNM	137	H	DATA QUALITY ACCEPTED BY ANALYSIS
37	43			NDD						08H	08H	.610	ZPSNM	137	H	DATA QUALITY ACCEPTED BY ANALYSIS
33	44			NDD						08H	08H	.610	ZPSNM	137	H	DATA QUALITY ACCEPTED BY ANALYSIS
34	44			NDD						08H	08H	.610	ZPSNM	137	H	DATA QUALITY ACCEPTED BY ANALYSIS
35	44	.16	68	SVI		2	08H	-.85		08H	08H	.610	ZPSNM	131	H	
35	44	.22	251	PCT	24	2	08H	-.76		08H	08H	.610	ZPSNM	131	H	
35	44	.03	234	PLP		11	08H	-.76		08H	08H	.610	ZPSNM	131	H	
35	44	.24	65	PID		2	08H	-.85		08H	08H	.610	ZPSNM	139	H	
36	44			NDD						08H	08H	.610	ZPSNM	137	H	DATA QUALITY ACCEPTED BY ANALYSIS
37	44			NDD						08H	08H	.610	ZPSNM	137	H	DATA QUALITY ACCEPTED BY ANALYSIS
33	45			NDD						08H	08H	.610	ZPSNM	137	H	DATA QUALITY ACCEPTED BY ANALYSIS
34	45			NDD						08H	08H	.610	ZPSNM	137	H	DATA QUALITY ACCEPTED BY ANALYSIS
37	45			NDD						08H	08H	.610	ZPSNM	137	H	DATA QUALITY ACCEPTED BY ANALYSIS
33	46			NDD						08H	08H	.610	ZPSNM	137	H	DATA QUALITY ACCEPTED BY ANALYSIS
34	46			NDD						08H	08H	.610	ZPSNM	137	H	DATA QUALITY ACCEPTED BY ANALYSIS
37	46			NDD						08H	08H	.610	ZPSNM	137	H	DATA QUALITY ACCEPTED BY ANALYSIS
34	47			NDD						08H	08H	.610	ZPSNM	137	H	DATA QUALITY ACCEPTED BY ANALYSIS
35	47			NDD						08H	08H	.610	ZPSNM	137	H	DATA QUALITY ACCEPTED BY ANALYSIS
36	47			NDD						08H	08H	.610	ZPSNM	137	H	DATA QUALITY ACCEPTED BY ANALYSIS
37	47			NDD						08H	08H	.610	ZPSNM	137	H	DATA QUALITY ACCEPTED BY ANALYSIS
40	59	.45	94	MBM		1	05C	.42		05C	05C	.610	ZPSNM	12	C	

CDE-D SPECIAL INTEREST +POINT INSPECTION

Braidwood A2R11 CDE D5

X 2 TESTED FOR SPECIAL INTEREST - SEE LIST FOR LOCATION(S) TESTED

▫ 25 PLUGGED TUBE



Westinghouse Electric Company LLC - ST Max 04/29/2005 15:42:22

SG - D Special Interest +Point Inspection Results

Braidwood 2 A2R11 CDE 20050401 04/29/2005 15:34:36

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
31	48	.18	103	DSS		P1	01H	.41		TEC	TEH	.610	ZBARH	37	H	RESULT OF HISTORY REVIEW
31	48	.12	64	VOL		2	01H	.42		01H	01H	.610	ZPSNM	105	H	
31	48	.19	100	PCT	19	2	01H	.34		01H	01H	.610	ZPSNM	111	H	
31	48	.14	108	VOL		2	01H	.41		01H	01H	.610	ZPSNM	111	H	
21	70			NDD						TEC	TEH	.610	ZBARH	17	H	
21	70			NDD						TSH	TSH	.610	ZPSNM	111	H	DATA QUALITY ACCEPTED BY ANALYSIS

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM

Tubes: 2 Records: 6

Attachment B.4

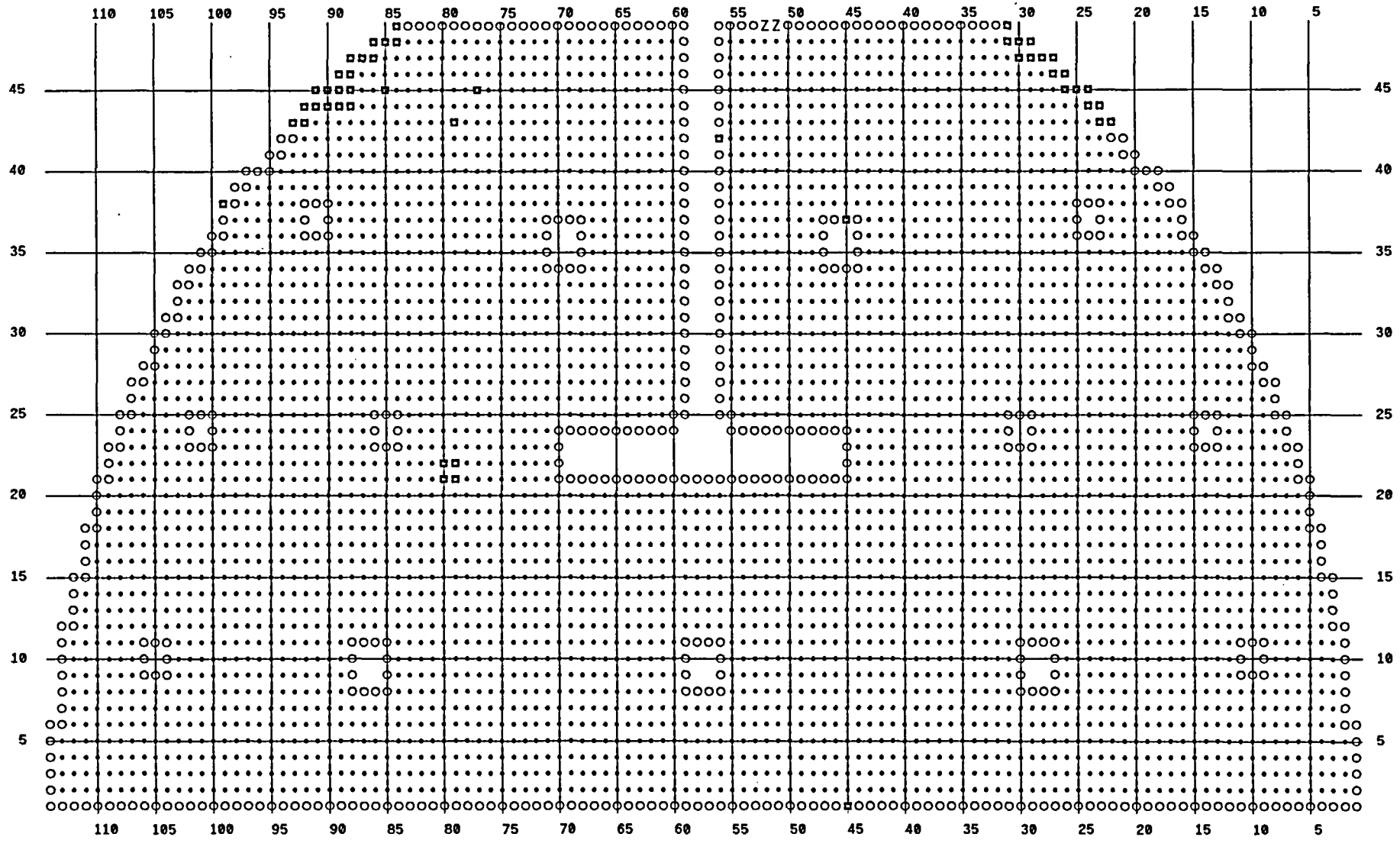
Tubes Containing Secondary Side Foreign Wear

CDE-B INDICATIONS SIZED WITH +POINT PROBE

Braidwood A2R11 CDE D5

Z 2 INDICATION SIZED WITH +POINT PROBE

▫ 48 PLUGGED TUBE



Westinghouse Electric Company LLC - ST Max 04/28/2005 17:31:37

INSPDATE	ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
	49	51	1.15	62	VOL		2	TSC	.57		TSC	TSC	.610	ZPSNM	10	C	
	49	51	.22	97	PCT	24	2	TSC	.64		TSC	TSC	.610	ZPSNM	10	C	
	49	51	2.85	182	DNT		P1	AV3	.00		TEC	TEH	.610	ZBARH	23	H	
	49	51	1.33	81	MBM		6	07C	3.44		TEC	TEH	.610	ZBARH	23	H	RESULT OF HISTORY REVIEW
	49	51	.26	116	DFS		1	TSC	.57		TEC	TEH	.610	ZBARH	23	H	RESULT OF HISTORY REVIEW
	49	51			NDD						TSH	TSH	.610	ZPSNM	99	H	
2003/11/01	49	51	3.10	183	DNT		P1	AV3	.08		TEH	TEC	.610	RBARH	14	C	RESULT OF HISTORY REVIEW
2003/11/01	49	51	.22	113	DFS		1	TSC	.58		TEH	TEC	.610	RBARH	14	C	RESULT OF HISTORY REVIEW
2003/11/01	49	51			NDD						02C	02C	.610	ZPSNM	60	C	RESULT OF RESOLUTION PROCESS
2003/11/01	49	51			NDD						03C	03C	.610	ZPSNM	60	C	RESULT OF RESOLUTION PROCESS
2003/11/01	49	51	.17	75	VOL		2	TSC	.58		TSC	TSC	.610	ZPSNM	80	C	
2003/11/01	49	51	1.20	245	PCT	24	2	TSC	.63		TSC	TSC	.610	ZPSNM	80	C	
2000/10/01	49	51	2.61	179	DNT		P1	AV3	.00		TEH	TEC	.610	MBARH	8	C	RESULT OF RESOLUTION PROCESS
2000/10/01	49	51	.56	0	INR		P2	AV4	.00		TEH	TEC	.610	MBARH	8	C	
2000/10/01	49	51	.26	110	DFS		1	TSC	.58		TEH	TEC	.610	MBARH	8	C	RESULT OF HISTORY REVIEW
2000/10/01	49	51			NDD						TSH	TSH	.610	ZPANM	15	H	
2000/10/01	49	51	.19	66	VOL		2	TSC	.58		TSC	TSC	.610	ZPANM	72	C	
1999/05/01	49	51	.96	0	PCT	15	P2	AV4	.00		TEH	TEC	.610	MBALL	32	C	
1997/10/01	49	51			NDD		1				TEC	TEH	.610	EBALL	27		
1997/10/01	49	51			NDD		1				TSH	TSH	.610	ZPSHF	77		
1996/03/01	49	51			INR		1	10C	13.45		TEH	TEC	.610	EBALL	16		RESULT OF DISCREPANCY RESOLUTION
1996/03/01	49	51			INR		1	10C	14.62		TEH	TEC	.610	EBALL	16		RESULT OF DISCREPANCY RESOLUTION
1993/03/01	49	51	.12	100	MAM		1	10C	13.65		TEC	TEH	.610	EBAMB	37		
1993/03/01	49	51	.27	160	MAM		1	10C	14.78		TEC	TEH	.610	EBAMB	37		
1991/10/01	49	51			NDD		1				TEC	TEH	.610	EBAMB	22		
1990/04/01	49	51			NDD		1				TEC	TEH	.610	EBAMB	25		
	49	52	.22	81	PCT	24	2	TSC	.36		TSC	TSC	.610	ZPSNM	10	C	
	49	52	1.13	85	VOL		2	TSC	.49		TSC	TSC	.610	ZPSNM	10	C	DATA QUALITY ACCEPTED BY ANALYSIS
	49	52	.45	86	PCT	37	2	TSC	.97		TSC	TSC	.610	ZPSNM	10	C	
	49	52	2.39	86	VOL		2	TSC	1.08		TSC	TSC	.610	ZPSNM	10	C	DATA QUALITY ACCEPTED BY ANALYSIS
	49	52	2.98	182	DNT		P1	AV2	-.05		TEC	TEH	.610	ZBARH	23	H	
	49	52	3.20	180	DNT		P1	AV3	-.08		TEC	TEH	.610	ZBARH	23	H	
	49	52	2.50	179	DNT		P1	AV4	.05		TEC	TEH	.610	ZBARH	23	H	
	49	52	.24	145	DFS		1	TSC	.40		TEC	TEH	.610	ZBARH	23	H	RESULT OF HISTORY REVIEW
	49	52	1.06	153	DFS		1	TSC	.90		TEC	TEH	.610	ZBARH	23	H	RESULT OF HISTORY REVIEW
2003/11/01	49	52			NDD						TSH	TSH	.610	ZPSNM	7	H	
2003/11/01	49	52	3.30	183	DNT		P1	AV2	.05		TEH	TEC	.610	RBARH	14	C	RESULT OF HISTORY REVIEW
2003/11/01	49	52	3.30	181	DNT		P1	AV3	.03		TEH	TEC	.610	RBARH	14	C	RESULT OF HISTORY REVIEW
2003/11/01	49	52	2.85	180	DNT		P1	AV4	.00		TEH	TEC	.610	RBARH	14	C	RESULT OF RESOLUTION PROCESS
2003/11/01	49	52	.19	107	DFS		1	TSC	.52		TEH	TEC	.610	RBARH	14	C	RESULT OF HISTORY REVIEW
2003/11/01	49	52	1.27	143	DFS		1	TSC	1.20		TEH	TEC	.610	RBARH	14	C	RESULT OF HISTORY REVIEW
2003/11/01	49	52	.22	88	VOL		P1	TSC	.45		TSC	TSC	.610	ZPSNM	60	C	
2003/11/01	49	52	.50	85	VOL		P1	TSC	1.03		TSC	TSC	.610	ZPSNM	60	C	
2003/11/01	49	52	1.26	267	PCT	23	2	TSC	.41		TSC	TSC	.610	ZPSNM	76	C	
2003/11/01	49	52	.21	88	PID		P1	TSC	.45		TSC	TSC	.610	ZPSNM	76	C	
2003/11/01	49	52	2.54	268	PCT	37	2	TSC	1.01		TSC	TSC	.610	ZPSNM	76	C	
2003/11/01	49	52	.43	89	PID		P1	TSC	1.03		TSC	TSC	.610	ZPSNM	76	C	
2000/10/01	49	52	2.75	179	DNT		P1	AV2	.06		TEH	TEC	.610	MBARH	6	C	RESULT OF RESOLUTION PROCESS
2000/10/01	49	52	2.84	177	DNT		P1	AV3	.00		TEH	TEC	.610	MBARH	6	C	RESULT OF RESOLUTION PROCESS
2000/10/01	49	52	1.00	143	DFS		1	TSC	1.00		TEH	TEC	.610	MBARH	6	C	
2000/10/01	49	52	1.00	146	DFS		1	TSC	1.02		TEH	TEC	.610	MBARH	6	C	
1999/05/01	49	52			NDD						TSH	TSH	.610	ZPAHF	9	H	
1999/05/01	49	52	.95	146	DFS		1	TSC	.99		TEH	TEC	.610	MBALL	36	C	
1997/10/01	49	52	2.15	152	FSD		1	TSC	1.02		TEC	TEH	.610	EBALL	27		PREVIOUS HISTORY - NO CHANGE
1997/10/01	49	52			NDD		1				TSH	TSH	.610	ZPSHF	77		
1997/10/01	49	52			NDD		1				03C	03C	.610	ZPSHF	125		
1997/10/01	49	52			NDD		1				02C	02C	.610	ZPSHF	125		
1996/03/01	49	52	1.09	146	FSD		1	TSC	1.01		TEH	TEC	.610	EBALL	16		RESULT OF DISCREPANCY RESOLUTION
1993/03/01	49	52	.95	143	MAM		1	TSC	1.10		TEC	TEH	.610	EBAMB	31		
1991/10/01	49	52	.98	142	PCT	34	1	TSC	1.04		TEC	TEH	.610	EBAMB	22		
1991/10/01	49	52			NDD		1				01C	TSC	.610	ESSNM	66		
1990/04/01	49	52			NDD		1				TEC	TEH	.610	EBAMB	26		

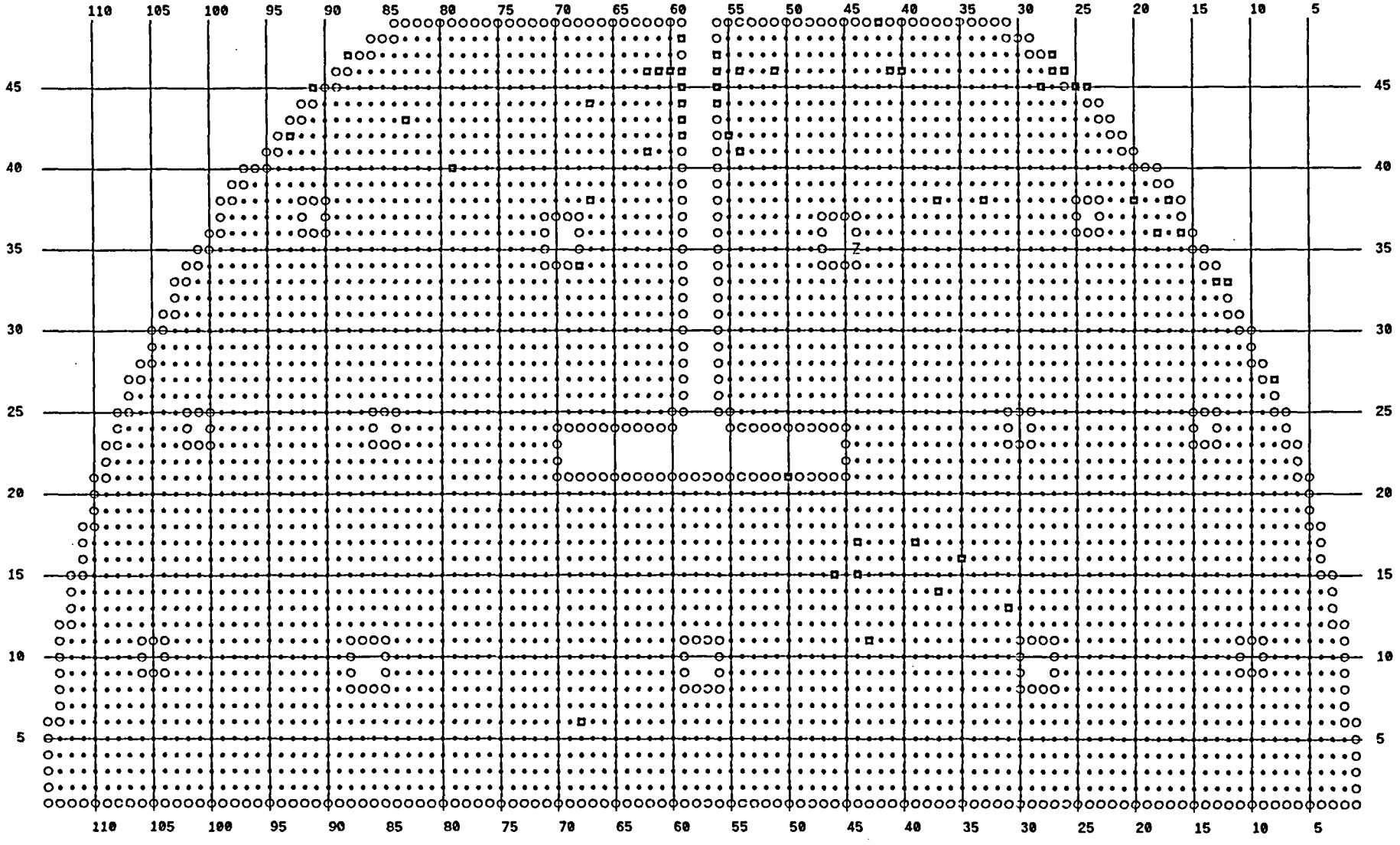
| INSPDATE | ROW | COL | VOLTS | DEG | IND | PER | CHN | LOCN | INCH1 | INCH2 | BEGT | ENDT | PDIA | PTYPE | CAL | L | COM |

CDE-C INDICATIONS SIZED WITH +POINT PROBE

Braidwood A2R11 CDE D5

Z 1 INDICATION SIZED WITH +POINT PROBE

▫ 54 PLUGGED TUBE



SG - C Indications Sized WIth +Point Probe

Braidwood 2 A2R11 CDE 20050401 04/28/2005 11:46:07

INSPDATE	ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
	35	44	.28	129	DFI		1	07H	42.15		TEC	TEH	.610	ZBARH	11	H	RESULT OF HISTORY REVIEW
	35	44	.16	68	SVI		2	08H	-.85		08H	08H	.610	ZPSNM	131	H	
	35	44	.03	234	PLP		11	08H	-.76		08H	08H	.610	ZPSNM	131	H	
	35	44	.22	251	PCT	24	2	08H	-.76		08H	08H	.610	ZPSNM	131	H	
	35	44	.24	65	PID		2	08H	-.85		08H	08H	.610	ZPSNM	139	H	
2003/11/01	35	44			NDD						TSH	TSH	.610	ZPSNM	5	H	
2003/11/01	35	44			NDD						TEH	TEC	.610	RBARH	12	C	
2000/10/01	35	44			NDD						TEH	TEC	.610	MBARH	12	C	
1999/05/01	35	44			NDD						TSH	TSH	.610	ZPAHF	5	H	
1999/05/01	35	44			NDD						TEH	TEC	.610	MBALL	18	C	
1997/10/01	35	44			NDD		1				TSH	TSH	.610	ZPSHF	46		
1997/10/01	35	44			NDD		1				TEC	TEH	.610	EBALL	89		
1996/03/01	35	44			NDD		1				TEH	TEC	.610	EBALL	12		
1993/03/01	35	44			NDD		1				TEC	TEH	.610	EBAMB	20		
1991/10/01	35	44			NDD		1				TEC	TEH	.610	EBAFH	23		
1990/04/01	35	44			NDD		1				TEC	TEH	.610	EBAMB	20		

INSPDATE	ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM

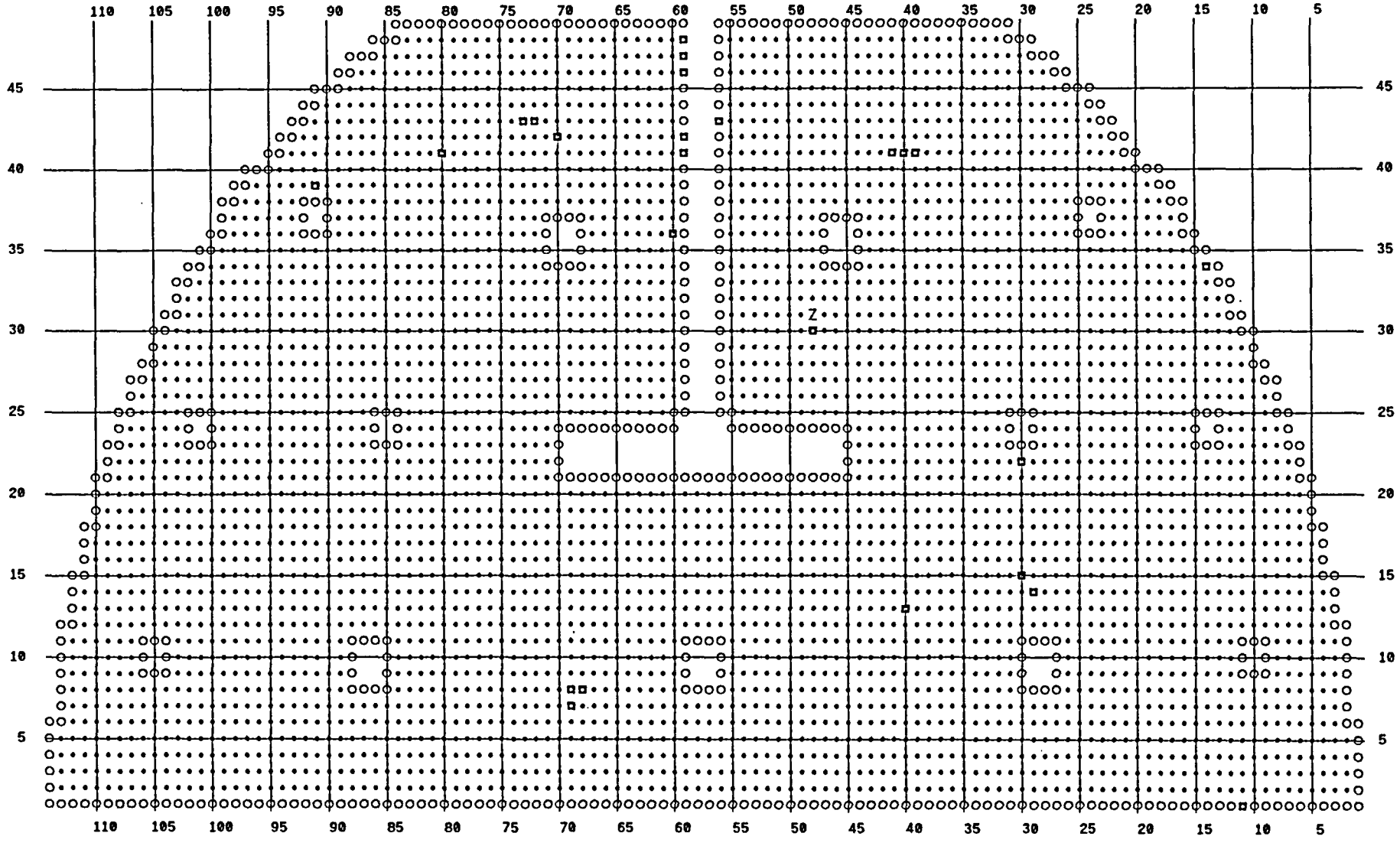
Tubes: 1 Records: 16

CDE-D INDICATIONS SIZED WITH +POINT PROBE

Braidwood A2R11 CDE D5

Z 1 INDICATION SIZED WITH +POINT PROBE

▫ 25 PLUGGED TUBE



SG - D Indications Sized WIth +Point Probe

Braidwood 2 A2R11 CDE 20050401 04/28/2005 11:46:07

INSPDATE	ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
	31	48	.18	103	DSS		P1	01H	.41		TEC	TEH	.610	ZBARH	37	H	RESULT OF HISTORY REVIEW
	31	48	.12	64	VOL		2	01H	.42		01H	01H	.610	ZPSNM	105	H	
	31	48	.19	100	PCT	19	2	01H	.34		01H	01H	.610	ZPSNM	111	H	
	31	48	.14	108	VOL		2	01H	.41		01H	01H	.610	ZPSNM	111	H	
2003/11/01	31	48	.22	90	DSS		P1	01H	.44		TEH	TEC	.610	RBARH	14	C	RESULT OF HISTORY REVIEW
2003/11/01	31	48	.13	118	VOL		P1	01H	.44		01H	01H	.610	ZPSNM	55	H	
2003/11/01	31	48			PRC						01H	01H	.610	ZPSNM	57	H	
2003/11/01	31	48			PRC						01H	01H	.610	ZPSNM	63	H	
2003/11/01	31	48	.87	288	PCT	18	2	01H	.36		01H	01H	.610	ZPSNM	63	H	
2000/10/01	31	48			NDD						TSH	TSH	.610	ZPANM	11	H	
2000/10/01	31	48	.40	47	DSS		P1	01H	.47		TEH	TEC	.610	MBARH	24	C	
1999/05/01	31	48	.23	108	DSS		P1	01H	.46		TEH	TEC	.610	MBALL	26	C	PREVIOUS HISTORY - NO CHANGE
1997/10/01	31	48			NDD		1				TSH	TSH	.610	ZPSHF	32		
1997/10/01	31	48			NDD		1				TEC	TEH	.610	EBALL	72		RESULT OF LAR
1996/03/01	31	48			NDD		1				TSH	TSH	.610	Z3S3C	29		
1996/03/01	31	48			NDD		1				TEH	TEC	.610	EBALL	42		
1993/03/01	31	48			NDD		1				TEC	TEH	.610	EBAMB	23		
1991/10/01	31	48			NDD		1				11C	TEH	.610	EBAFH	26		
1990/04/01	31	48			NDD		1				TEC	TEH	.610	EBAMB	21		

INSPDATE	ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM

Tubes: 1 Records: 19

Attachment B.5

Tubes Containing Anti-Vibration Bar Wear

CDE-A ANTI-VIBRATION BAR WEAR INDICATIONS

MOST SEVERE INDICATION PER TUBE

Braidwood A2R11 CDE D5

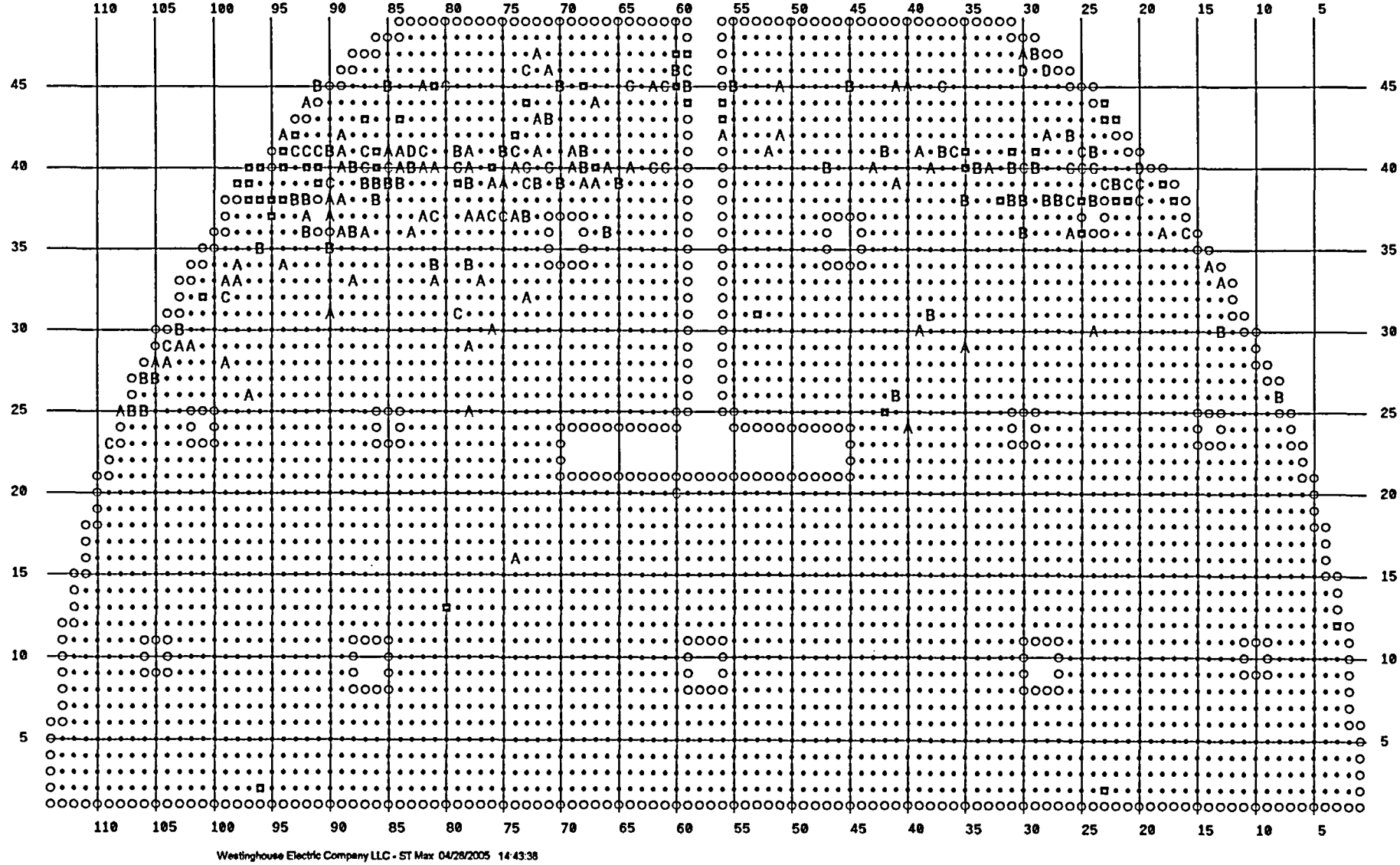
A 80 INDICATION 0 TO 19 PERCENT

B 60 INDICATION 20 TO 29 PERCENT

C 41 INDICATION 30 TO 39 PERCENT

D 4 INDICATION 40 TO 44 PERCENT

□ 53 PLUGGED TUBE



Westinghouse Electric Company LLC - ST Max 04/28/2005 14:43:38

SG - A Anti-Vibration Bar Wear Indications

Braidwood 2 A2R11 CDE 20050401 04/28/2005 11:54:54

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
26	8	1.89	0	PCT	24	P2	AV1	.00		TEC	TEH	.610	ZBARH	31	H	
26	8	.87	0	PCT	15	P2	AV2	.00		TEC	TEH	.610	ZBARH	31	H	
26	8	1.63	0	PCT	22	P2	AV4	.00		TEC	TEH	.610	ZBARH	31	H	
30	13	1.41	0	PCT	21	P2	AV2	.00		TEC	TEH	.610	ZBARH	31	H	
33	13	.81	0	PCT	14	P2	AV3	.00		TEC	TEH	.610	ZBARH	31	H	
34	14	1.12	0	PCT	16	P2	AV2	.00		TEC	TEH	.610	ZBARH	33	H	
34	14	.97	0	PCT	15	P2	AV3	.03		TEC	TEH	.610	ZBARH	33	H	
36	16	2.77	0	PCT	30	P2	AV2	.00		TEC	TEH	.610	ZBARH	33	H	
36	18	1.26	0	PCT	17	P2	AV2	.00		TEC	TEH	.610	ZBARH	37	H	
36	18	1.11	0	PCT	15	P2	AV3	-.06		TEC	TEH	.610	ZBARH	37	H	
38	20	1.34	0	PCT	18	P2	AV1	.00		TEC	TEH	.610	ZBARH	37	H	
38	20	2.98	0	PCT	30	P2	AV2	.00		TEC	TEH	.610	ZBARH	37	H	
38	20	1.97	0	PCT	23	P2	AV3	.00		TEC	TEH	.610	ZBARH	37	H	
38	20	3.04	0	PCT	31	P2	AV4	.00		TEC	TEH	.610	ZBARH	37	H	
39	20	1.80	0	PCT	22	P2	AV1	.00		TEC	TEH	.610	ZBARH	37	H	
39	20	1.31	0	PCT	17	P2	AV2	.00		TEC	TEH	.610	ZBARH	37	H	
39	20	3.57	0	PCT	34	P2	AV3	.00		TEC	TEH	.610	ZBARH	37	H	
39	20	2.11	0	PCT	24	P2	AV4	.00		TEC	TEH	.610	ZBARH	37	H	
40	20	5.68	0	PCT	44	P2	AV2	.00		TEC	TEH	.610	ZBARH	37	H	
40	20	3.47	0	PCT	33	P2	AV3	.00		TEC	TEH	.610	ZBARH	37	H	
40	20	5.22	0	PID		P2	AV2	.00		TEC	TEH	.610	ZBARH	79	H	
39	21	1.03	0	PCT	17	P2	AV1	.08		TEC	TEH	.610	ZBARH	35	H	
39	21	2.91	0	PCT	31	P2	AV2	.11		TEC	TEH	.610	ZBARH	35	H	
39	21	1.43	0	PCT	21	P2	AV3	.00		TEC	TEH	.610	ZBARH	35	H	
39	21	1.00	0	PCT	17	P2	AV4	-.05		TEC	TEH	.610	ZBARH	35	H	
39	22	1.10	0	PCT	15	P2	AV1	.00		TEC	TEH	.610	ZBARH	37	H	
39	22	1.91	0	PCT	23	P2	AV2	.00		TEC	TEH	.610	ZBARH	37	H	
39	23	4.09	0	PCT	37	P2	AV2	.00		TEC	TEH	.610	ZBARH	35	H	
39	23	2.96	0	PCT	32	P2	AV3	.00		TEC	TEH	.610	ZBARH	35	H	
30	24	1.12	0	PCT	15	P2	AV4	.00		TEC	TEH	.610	ZBARH	37	H	
38	24	1.94	0	PCT	23	P2	AV2	.00		TEC	TEH	.610	ZBARH	37	H	
38	24	1.76	0	PCT	21	P2	AV3	.03		TEC	TEH	.610	ZBARH	37	H	
40	24	3.91	0	PCT	36	P2	AV2	.00		TEC	TEH	.610	ZBARH	37	H	
41	24	2.01	0	PCT	23	P2	AV2	.00		TEC	TEH	.610	ZBARH	37	H	
41	24	1.89	0	PCT	22	P2	AV3	.00		TEC	TEH	.610	ZBARH	37	H	
40	25	1.16	0	PCT	19	P2	AV1	-.08		TEC	TEH	.610	ZBARH	35	H	
40	25	1.92	0	PCT	25	P2	AV2	.00		TEC	TEH	.610	ZBARH	35	H	
40	25	2.64	0	PCT	30	P2	AV3	.00		TEC	TEH	.610	ZBARH	35	H	
40	25	.58	0	PCT	12	P2	AV4	.54		TEC	TEH	.610	ZBARH	35	H	
41	25	.86	0	PCT	15	P2	AV1	.00		TEC	TEH	.610	ZBARH	35	H	
41	25	2.09	0	PCT	26	P2	AV2	.00		TEC	TEH	.610	ZBARH	35	H	
41	25	4.42	0	PCT	38	P2	AV3	.00		TEC	TEH	.610	ZBARH	35	H	
36	26	1.10	0	PCT	17	P2	AV2	.00		TEC	TEH	.610	ZBARH	21	H	
38	26	2.94	0	PCT	31	P2	AV3	.00		TEC	TEH	.610	ZBARH	19	H	
40	26	3.54	0	PCT	34	P2	AV3	.00		TEC	TEH	.610	ZBARH	19	H	
42	26	1.63	0	PCT	21	P2	AV3	.00		TEC	TEH	.610	ZBARH	19	H	
38	27	.77	0	PCT	14	P2	AV2	.00		TEC	TEH	.610	ZBARH	21	H	
38	27	1.34	0	PCT	20	P2	AV3	-.03		TEC	TEH	.610	ZBARH	21	H	
38	28	1.35	0	PCT	20	P2	AV3	.00		TEC	TEH	.610	ZBARH	21	H	
42	28	.96	0	PCT	15	P2	AV2	.00		TEC	TEH	.610	ZBARH	19	H	
42	28	1.01	0	PCT	15	P2	AV3	.00		TEC	TEH	.610	ZBARH	19	H	
46	28	5.02	0	PCT	41	P2	AV2	-.47		TEC	TEH	.610	ZBARH	19	H	
46	28	4.11	0	PCT	37	P2	AV3	.00		TEC	TEH	.610	ZBARH	19	H	
46	28	2.86	0	PCT	30	P2	AV4	.00		TEC	TEH	.610	ZBARH	19	H	
46	28	4.72	0	PID		P2	AV2	-.47		TEC	TEH	.610	ZBARH	79	H	

| ROW | COL | VOLTS | DEG | IND | PER | CHN | LOCN | INCH1 | INCH2 | BEGT | ENDT | PDIA | PTYPE | CAL | L | COM |

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
40	29	2.22	0	PCT	27	P2	AV2	.00		TEC	TEH	.610	ZBARH	21	H	
40	29	1.93	0	PCT	25	P2	AV3	.00		TEC	TEH	.610	ZBARH	21	H	
47	29	2.12	0	PCT	26	P2	AV2	.00		TEC	TEH	.610	ZBARH	21	H	
47	29	1.88	0	PCT	24	P2	AV3	.00		TEC	TEH	.610	ZBARH	21	H	
36	30	1.45	0	PCT	21	P2	AV1	.00		TEC	TEH	.610	ZBARH	17	H	
36	30	.84	0	PCT	15	P2	AV2	.03		TEC	TEH	.610	ZBARH	17	H	
36	30	1.14	0	PCT	18	P2	AV3	.26		TEC	TEH	.610	ZBARH	17	H	
38	30	1.57	0	PCT	22	P2	AV2	.28		TEC	TEH	.610	ZBARH	17	H	
38	30	2.08	0	PCT	26	P2	AV3	.00		TEC	TEH	.610	ZBARH	17	H	
40	30	3.57	0	PCT	34	P2	AV2	.00		TEC	TEH	.610	ZBARH	21	H	
40	30	4.15	0	PCT	37	P2	AV3	.00		TEC	TEH	.610	ZBARH	21	H	
46	30	5.81	0	PCT	44	P2	AV2	-.11		TEC	TEH	.610	ZBARH	19	H	
46	30	1.77	0	PCT	22	P2	AV3	.00		TEC	TEH	.610	ZBARH	19	H	
46	30	5.44	0	PID		P2	AV2	-.11		TEC	TEH	.610	ZBARH	79	H	
47	30	1.39	0	PCT	19	P2	AV2	.11		TEC	TEH	.610	ZBARH	19	H	
38	31	1.80	0	PCT	21	P2	AV2	.00		TEC	TEH	.610	ZBARH	15	H	
38	31	2.54	0	PCT	27	P2	AV3	-.17		TEC	TEH	.610	ZBARH	15	H	
38	31	.76	0	PCT	11	P2	AV4	.00		TEC	TEH	.610	ZBARH	15	H	
40	31	1.03	0	PCT	17	P2	AV1	.00		TEC	TEH	.610	ZBARH	21	H	
40	31	1.71	0	PCT	23	P2	AV2	.00		TEC	TEH	.610	ZBARH	21	H	
40	31	2.06	0	PCT	26	P2	AV3	.00		TEC	TEH	.610	ZBARH	21	H	
40	31	1.03	0	PCT	17	P2	AV4	.00		TEC	TEH	.610	ZBARH	21	H	
40	33	1.01	0	PCT	16	P2	AV3	.26		TEC	TEH	.610	ZBARH	21	H	
40	34	1.29	0	PCT	20	P2	AV2	.22		TEC	TEH	.610	ZBARH	35	H	
29	35	1.27	0	PCT	16	P2	AV4	.00		TEC	TEH	.610	ZBARH	15	H	
38	35	2.43	0	PCT	26	P2	AV2	.00		TEC	TEH	.610	ZBARH	15	H	
41	36	1.63	0	PCT	23	P2	AV2	.16		TEC	TEH	.610	ZBARH	35	H	
41	36	3.12	0	PCT	32	P2	AV3	.00		TEC	TEH	.610	ZBARH	35	H	
41	37	1.73	0	PCT	24	P2	AV2	.00		TEC	TEH	.610	ZBARH	11	H	
45	37	1.07	0	PCT	17	P2	AV2	-.05		TEC	TEH	.610	ZBARH	21	H	
45	37	2.69	0	PCT	30	P2	AV3	.00		TEC	TEH	.610	ZBARH	21	H	
31	38	.99	0	PCT	17	P2	AV2	.00		TEC	TEH	.610	ZBARH	11	H	
31	38	1.59	0	PCT	23	P2	AV3	.00		TEC	TEH	.610	ZBARH	11	H	
40	38	1.23	0	PCT	19	P2	AV1	.00		TEC	TEH	.610	ZBARH	3	H	
40	38	1.26	0	PCT	19	P2	AV3	.00		TEC	TEH	.610	ZBARH	3	H	
30	39	1.21	0	PCT	16	P2	AV3	-.03		TEC	TEH	.610	ZBARH	15	H	
30	39	1.09	0	PCT	15	P2	AV4	-.13		TEC	TEH	.610	ZBARH	15	H	
41	39	.61	0	PCT	11	P2	AV2	.00		TEC	TEH	.610	ZBARH	3	H	
41	39	1.18	0	PCT	18	P2	AV4	.03		TEC	TEH	.610	ZBARH	3	H	
24	40	.93	0	PCT	16	P2	AV2	.00		TEC	TEH	.610	ZBARH	3	H	
24	40	1.26	0	PCT	19	P2	AV3	-.21		TEC	TEH	.610	ZBARH	3	H	
45	40	1.06	0	PCT	16	P2	AV2	.00		TEC	TEH	.610	ZBARH	19	H	RESULT OF HISTORY REVIEW
26	41	1.86	0	PCT	23	P2	AV3	.00		TEC	TEH	.610	ZBARH	5	H	
39	41	1.27	0	PCT	19	P2	AV2	.00		TEC	TEH	.610	ZBARH	3	H	
45	41	.99	0	PCT	16	P2	AV2	.00		TEC	TEH	.610	ZBARH	21	H	
41	42	2.21	0	PCT	26	P2	AV3	.00		TEC	TEH	.610	ZBARH	29	H	
40	43	1.14	0	PCT	18	P2	AV2	.00		TEC	TEH	.610	ZBARH	3	H	
45	45	1.59	0	PCT	22	P2	AV2	.03		TEC	TEH	.610	ZBARH	27	H	
40	47	1.99	0	PCT	24	P2	AV2	.00		TEC	TEH	.610	ZBARH	25	H	
42	51	1.22	0	PCT	19	P2	AV2	.00		TEC	TEH	.610	ZBARH	23	H	

| ROW | COL | VOLTS | DEG | IND | PER | CHN | LOCN | INCH1 | INCH2 | BEGT | ENDT | PDIA | PTYPE | CAL | L | COM |

SG - A Anti-Vibration Bar Wear Indications

Braidwood 2 A2R11 CDE 20050401 04/28/2005 11:54:54

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
45	51	.93	0	PCT	15	P2	AV3	.00		TEC	TEH	.610	ZBARH	23	H	
41	52	.91	0	PCT	15	P2	AV2	.00		TEC	TEH	.610	ZBARH	23	H	
45	55	1.32	0	PCT	19	P2	AV2	.00		TEC	TEH	.610	ZBARH	23	H	
45	55	2.08	0	PCT	26	P2	AV3	.00		TEC	TEH	.610	ZBARH	23	H	
42	56	.81	0	PCT	14	P2	AV2	.00		TEC	TEH	.610	ZBARH	25	H	
45	59	1.13	0	PCT	16	P2	AV2	.00		TEC	TEH	.610	ZBARH	29	H	
45	59	1.72	0	PCT	22	P2	AV3	-.08		TEC	TEH	.610	ZBARH	29	H	
46	59	.93	0	PCT	14	P2	AV1	.00		TEC	TEH	.610	ZBARH	29	H	
46	59	4.60	0	PCT	39	P2	AV2	.00		TEC	TEH	.610	ZBARH	29	H	
46	59	1.25	0	PCT	18	P2	AV3	.00		TEC	TEH	.610	ZBARH	29	H	
46	59	1.56	0	PCT	21	P2	AV4	.00		TEC	TEH	.610	ZBARH	29	H	
20	60	3.37	0	PCT	33	P2	AV1	.00		TEC	TEH	.610	ZBARH	29	H	
20	60	1.18	0	PCT	17	P2	AV4	.00		TEC	TEH	.610	ZBARH	29	H	
46	60	1.27	0	PCT	19	P2	AV1	.00		TEC	TEH	.610	ZBARH	27	H	
46	60	2.34	0	PCT	28	P2	AV2	.00		TEC	TEH	.610	ZBARH	27	H	
40	61	3.74	0	PCT	35	P2	AV2	.00		TEC	TEH	.610	ZBARH	27	H	
40	61	1.71	0	PCT	23	P2	AV3	.00		TEC	TEH	.610	ZBARH	27	H	
45	61	.77	0	PCT	12	P2	AV1	.00		TEC	TEH	.610	ZBARH	29	H	
45	61	.97	0	PCT	14	P2	AV2	.00		TEC	TEH	.610	ZBARH	29	H	
45	61	3.53	0	PCT	34	P2	AV3	.00		TEC	TEH	.610	ZBARH	29	H	
40	62	4.55	0	PCT	39	P2	AV2	.00		TEC	TEH	.610	ZBARH	29	H	RESULT OF HISTORY REVIEW
40	62	1.53	0	PCT	21	P2	AV3	.00		TEC	TEH	.610	ZBARH	29	H	RESULT OF HISTORY REVIEW
45	62	.70	0	PCT	13	P2	AV3	.00		TEC	TEH	.610	ZBARH	27	H	
40	64	.91	0	PCT	14	P2	AV3	.00		TEC	TEH	.610	ZBARH	29	H	
45	64	1.07	0	PCT	17	P2	AV1	.05		TEC	TEH	.610	ZBARH	27	H	
45	64	3.56	0	PCT	34	P2	AV2	.00		TEC	TEH	.610	ZBARH	27	H	
45	64	2.39	0	PCT	28	P2	AV3	.00		TEC	TEH	.610	ZBARH	27	H	
39	65	1.48	0	PCT	20	P2	AV2	.00		TEC	TEH	.610	ZBARH	29	H	
39	65	2.21	0	PCT	26	P2	AV3	.00		TEC	TEH	.610	ZBARH	29	H	
36	66	1.59	0	PCT	22	P2	AV3	.00		TEC	TEH	.610	ZBARH	27	H	
40	66	.86	0	PCT	15	P2	AV2	-.27		TEC	TEH	.610	ZBARH	27	H	
39	67	.98	0	PCT	16	P2	AV1	.08		TEC	TEH	.610	ZBARH	51	H	
39	67	1.00	0	PCT	17	P2	AV2	.00		TEC	TEH	.610	ZBARH	51	H	
44	67	.86	0	PCT	15	P2	AV1	.11		TEC	TEH	.610	ZBARH	51	H	
39	68	.66	0	PCT	10	P2	AV1	.00		TEC	TEH	.610	ZBARH	55	H	
40	68	1.94	0	PCT	24	P2	AV2	.00		TEC	TEH	.610	ZBARH	55	H	
40	68	.91	0	PCT	13	P2	AV3	.00		TEC	TEH	.610	ZBARH	55	H	
41	68	1.20	0	PCT	17	P2	AV2	.00		TEC	TEH	.610	ZBARH	55	H	
41	68	2.57	0	PCT	29	P2	AV3	.00		TEC	TEH	.610	ZBARH	55	H	
40	69	.84	0	PCT	15	P2	AV1	.00		TEC	TEH	.610	ZBARH	51	H	
41	69	1.01	0	PCT	16	P2	AV3	.05		TEC	TEH	.610	ZBARH	51	H	
39	70	1.96	0	PCT	24	P2	AV2	.00		TEC	TEH	.610	ZBARH	55	H	
45	70	1.00	0	PCT	17	P2	AV2	.00		TEC	TEH	.610	ZBARH	51	H	
45	70	1.52	0	PCT	21	P2	AV3	-.03		TEC	TEH	.610	ZBARH	51	H	
40	71	1.29	0	PCT	18	P2	AV1	.00		TEC	TEH	.610	ZBARH	55	H	
40	71	2.21	0	PCT	25	P2	AV2	.00		TEC	TEH	.610	ZBARH	55	H	
40	71	3.85	0	PCT	36	P2	AV3	.00		TEC	TEH	.610	ZBARH	55	H	
43	71	1.42	0	PCT	19	P2	AV1	.00		TEC	TEH	.610	ZBARH	55	H	
43	71	2.05	0	PCT	25	P2	AV2	.00		TEC	TEH	.610	ZBARH	55	H	
43	71	1.04	0	PCT	15	P2	AV3	.00		TEC	TEH	.610	ZBARH	55	H	
46	71	1.15	0	PCT	16	P2	AV2	.00		TEC	TEH	.610	ZBARH	55	H	

| ROW | COL | VOLTS | DEG | IND | PER | CHN | LOCN | INCH1 | INCH2 | BEGT | ENDT | PDIA | PTYPE | CAL | L | COM |

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
39	72	1.33	0	PCT	20	P2	AV2	.08		TEC	TEH	.610	ZBARH	51	H	
41	72	1.31	0	PCT	19	P2	AV3	.08		TEC	TEH	.610	ZBARH	51	H	
43	72	.82	0	PCT	15	P2	AV3	-.02		TEC	TEH	.610	ZBARH	51	H	
47	72	.82	0	PCT	15	P2	AV1	.00		TEC	TEH	.610	ZBARH	51	H	
32	73	1.19	0	PCT	17	P2	AV1	.00		TEC	TEH	.610	ZBARH	55	H	
32	73	.87	0	PCT	13	P2	AV2	.00		TEC	TEH	.610	ZBARH	55	H	
32	73	.81	0	PCT	12	P2	AV3	.00		TEC	TEH	.610	ZBARH	55	H	
32	73	.86	0	PCT	13	P2	AV4	.00		TEC	TEH	.610	ZBARH	55	H	
37	73	.97	0	PCT	14	P2	AV1	-.08		TEC	TEH	.610	ZBARH	55	H	
37	73	1.99	0	PCT	23	P2	AV2	.00		TEC	TEH	.610	ZBARH	55	H	
39	73	3.75	0	PCT	36	P2	AV2	.00		TEC	TEH	.610	ZBARH	55	H	
39	73	3.15	0	PCT	32	P2	AV3	.00		TEC	TEH	.610	ZBARH	55	H	
39	73	2.22	0	PCT	26	P2	AV4	.00		TEC	TEH	.610	ZBARH	55	H	
40	73	3.13	0	PCT	32	P2	AV2	.00		TEC	TEH	.610	ZBARH	55	H	
46	73	1.25	0	PCT	17	P2	AV1	.00		TEC	TEH	.610	ZBARH	55	H	
46	73	2.83	0	PCT	30	P2	AV2	.00		TEC	TEH	.610	ZBARH	55	H	
16	74	1.46	0	PCT	19	P2	AV4	.00		TEC	TEH	.610	ZBARH	63	H	
37	74	1.00	0	PCT	17	P2	AV2	.00		TEC	TEH	.610	ZBARH	51	H	
40	74	.75	0	PCT	14	P2	AV3	.00		TEC	TEH	.610	ZBARH	51	H	
41	74	1.22	0	PCT	19	P2	AV1	.00		TEC	TEH	.610	ZBARH	51	H	
41	74	3.41	0	PCT	34	P2	AV2	.00		TEC	TEH	.610	ZBARH	51	H	
41	74	4.14	0	PCT	37	P2	AV3	.00		TEC	TEH	.610	ZBARH	51	H	
41	74	2.66	0	PCT	30	P2	AV4	.16		TEC	TEH	.610	ZBARH	51	H	
37	75	3.01	0	PCT	31	P2	AV2	.00		TEC	TEH	.610	ZBARH	59	H	
37	75	1.32	0	PCT	18	P2	AV3	.00		TEC	TEH	.610	ZBARH	59	H	
39	75	1.06	0	PCT	15	P2	AV3	.00		TEC	TEH	.610	ZBARH	59	H	
41	75	1.97	0	PCT	24	P2	AV1	.00		TEC	TEH	.610	ZBARH	59	H	
41	75	1.05	0	PCT	15	P2	AV2	.00		TEC	TEH	.610	ZBARH	59	H	
41	75	2.10	0	PCT	25	P2	AV3	.00		TEC	TEH	.610	ZBARH	59	H	
30	76	1.09	0	PCT	17	P2	AV3	-.05		TEC	TEH	.610	ZBARH	57	H	
37	76	1.51	0	PCT	21	P2	AV1	-.13		TEC	TEH	.610	ZBARH	57	H	
37	76	3.75	0	PCT	35	P2	AV2	.26		TEC	TEH	.610	ZBARH	57	H	
37	76	1.74	0	PCT	23	P2	AV3	.05		TEC	TEH	.610	ZBARH	57	H	
37	76	.88	0	PCT	15	P2	AV4	.03		TEC	TEH	.610	ZBARH	57	H	
39	76	1.12	0	PCT	17	P2	AV1	.08		TEC	TEH	.610	ZBARH	57	H	
39	76	.99	0	PCT	16	P2	AV3	.08		TEC	TEH	.610	ZBARH	57	H	
33	77	.83	0	PCT	13	P2	AV1	.00		TEC	TEH	.610	ZBARH	59	H	
37	77	1.29	0	PCT	18	P2	AV2	.00		TEC	TEH	.610	ZBARH	59	H	
25	78	.97	0	PCT	16	P2	AV3	-.08		TEC	TEH	.610	ZBARH	57	H	
25	78	1.05	0	PCT	17	P2	AV4	.03		TEC	TEH	.610	ZBARH	57	H	
29	78	.98	0	PCT	16	P2	AV2	.00		TEC	TEH	.610	ZBARH	57	H	
34	78	1.37	0	PCT	20	P2	AV2	.21		TEC	TEH	.610	ZBARH	57	H	
37	78	.90	0	PCT	15	P2	AV1	.00		TEC	TEH	.610	ZBARH	57	H	
39	78	1.92	0	PCT	25	P2	AV2	.05		TEC	TEH	.610	ZBARH	57	H	
39	78	1.68	0	PCT	23	P2	AV3	.05		TEC	TEH	.610	ZBARH	57	H	
40	78	.75	0	PCT	13	P2	AV2	.00		TEC	TEH	.610	ZBARH	57	H	
40	78	.64	0	PCT	12	P2	AV3	.00		TEC	TEH	.610	ZBARH	57	H	
41	78	1.12	0	PCT	17	P2	AV3	-.03		TEC	TEH	.610	ZBARH	57	H	
31	79	1.17	0	PCT	16	P2	AV1	.00		TEC	TEH	.610	ZBARH	59	H	
31	79	1.52	0	PCT	20	P2	AV2	.00		TEC	TEH	.610	ZBARH	59	H	
31	79	2.80	0	PCT	30	P2	AV3	.00		TEC	TEH	.610	ZBARH	59	H	

| ROW | COL | VOLTS | DEG | IND | PER | CHN | LOCN | INCH1 | INCH2 | BEGT | ENDT | PDIA | PTYPE | CAL | L | COM |

SG - A Anti-Vibration Bar Wear Indications

Braidwood 2 A2R11 CDE 20050401 04/28/2005 11:54:54

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
40	79	1.76	0	PCT	22	P2	AV2	.00		TEC	TEH	.610	ZBARH	59	H	
40	79	2.79	0	PCT	30	P2	AV3	.00		TEC	TEH	.610	ZBARH	59	H	
41	79	1.14	0	PCT	16	P2	AV2	.00		TEC	TEH	.610	ZBARH	59	H	
41	79	1.92	0	PCT	23	P2	AV3	.00		TEC	TEH	.610	ZBARH	59	H	
45	80	1.73	0	PCT	23	P2	AV2	.11		TEC	TEH	.610	ZBARH	57	H	
45	80	2.94	0	PCT	31	P2	AV3	.03		TEC	TEH	.610	ZBARH	57	H	
45	80	1.29	0	PCT	19	P2	AV4	.08		TEC	TEH	.610	ZBARH	57	H	
33	81	.83	0	PCT	13	P2	AV2	.00		TEC	TEH	.610	ZBARH	59	H	
34	81	1.96	0	PCT	24	P2	AV2	.00		TEC	TEH	.610	ZBARH	59	H	
37	81	1.14	0	PCT	16	P2	AV1	.00		TEC	TEH	.610	ZBARH	59	H	
37	81	2.94	0	PCT	31	P2	AV2	.00		TEC	TEH	.610	ZBARH	59	H	
37	81	2.38	0	PCT	27	P2	AV3	.00		TEC	TEH	.610	ZBARH	59	H	
40	81	1.25	0	PCT	17	P2	AV2	.00		TEC	TEH	.610	ZBARH	59	H	
37	82	1.07	0	PCT	17	P2	AV1	.16		TEC	TEH	.610	ZBARH	57	H	
37	82	.90	0	PCT	15	P2	AV3	.03		TEC	TEH	.610	ZBARH	57	H	
40	82	1.18	0	PCT	18	P2	AV2	.19		TEC	TEH	.610	ZBARH	57	H	
40	82	1.09	0	PCT	17	P2	AV3	.03		TEC	TEH	.610	ZBARH	57	H	
41	82	.92	0	PCT	15	P2	AV1	.16		TEC	TEH	.610	ZBARH	57	H	
41	82	4.08	0	PCT	36	P2	AV2	.03		TEC	TEH	.610	ZBARH	57	H	
41	82	2.07	0	PCT	26	P2	AV3	.13		TEC	TEH	.610	ZBARH	57	H	
41	82	1.40	0	PCT	20	P2	AV4	-.03		TEC	TEH	.610	ZBARH	57	H	
45	82	.70	0	PCT	13	P2	AV2	.00		TEC	TEH	.610	ZBARH	57	H	
45	82	1.05	0	PCT	17	P2	AV3	-.03		TEC	TEH	.610	ZBARH	57	H	
36	83	1.03	0	PCT	15	P2	AV2	.00		TEC	TEH	.610	ZBARH	59	H	RESULT OF HISTORY REVIEW
40	83	2.39	0	PCT	27	P2	AV1	.00		TEC	TEH	.610	ZBARH	59	H	
40	83	2.03	0	PCT	24	P2	AV2	.00		TEC	TEH	.610	ZBARH	59	H	
40	83	1.30	0	PCT	18	P2	AV3	.00		TEC	TEH	.610	ZBARH	59	H	
41	83	4.71	0	PCT	40	P2	AV2	.00		TEC	TEH	.610	ZBARH	59	H	
41	83	4.33	0	PID		P2	AV2	.00		TEC	TEH	.610	ZBARH	79	H	
41	83	4.44	0	PID		P2	AV2	.00		TEC	TEH	.610	ZBARH	109	H	
39	84	1.12	0	PCT	17	P2	AV1	-.05		TEC	TEH	.610	ZBARH	57	H	
39	84	1.24	0	PCT	19	P2	AV2	.05		TEC	TEH	.610	ZBARH	57	H	
39	84	1.39	0	PCT	20	P2	AV3	-.03		TEC	TEH	.610	ZBARH	57	H	
40	84	.97	0	PCT	16	P2	AV3	.11		TEC	TEH	.610	ZBARH	57	H	
41	84	1.15	0	PCT	18	P2	AV2	.05		TEC	TEH	.610	ZBARH	57	H	
39	85	1.23	0	PCT	17	P2	AV2	.00		TEC	TEH	.610	ZBARH	59	H	
39	85	1.68	0	PCT	21	P2	AV3	.00		TEC	TEH	.610	ZBARH	59	H	
40	85	1.12	0	PCT	16	P2	AV1	.00		TEC	TEH	.610	ZBARH	59	H	
40	85	2.93	0	PCT	31	P2	AV2	.00		TEC	TEH	.610	ZBARH	59	H	
40	85	4.41	0	PCT	38	P2	AV3	.00		TEC	TEH	.610	ZBARH	59	H	
41	85	1.21	0	PCT	17	P2	AV2	.00		TEC	TEH	.610	ZBARH	59	H	
41	85	1.04	0	PCT	15	P2	AV3	.00		TEC	TEH	.610	ZBARH	59	H	
45	85	1.76	0	PCT	22	P2	AV2	.00		TEC	TEH	.610	ZBARH	59	H	
38	86	.57	0	PCT	11	P2	AV1	.00		TEC	TEH	.610	ZBARH	57	H	
38	86	1.69	0	PCT	23	P2	AV2	.00		TEC	TEH	.610	ZBARH	57	H	
38	86	1.27	0	PCT	19	P2	AV3	.03		TEC	TEH	.610	ZBARH	57	H	
39	86	1.33	0	PCT	20	P2	AV2	.16		TEC	TEH	.610	ZBARH	57	H	
39	86	1.03	0	PCT	16	P2	AV3	.00		TEC	TEH	.610	ZBARH	57	H	
36	87	1.22	0	PCT	19	P2	AV3	.00		TEC	TEH	.610	ZBARH	69	H	
39	87	2.21	0	PCT	27	P2	AV2	.00		TEC	TEH	.610	ZBARH	69	H	
39	87	.88	0	PCT	15	P2	AV3	.03		TEC	TEH	.610	ZBARH	69	H	
40	87	1.05	0	PCT	17	P2	AV1	.00		TEC	TEH	.610	ZBARH	69	H	
40	87	3.58	0	PCT	34	P2	AV2	.00		TEC	TEH	.610	ZBARH	69	H	
40	87	.97	0	PCT	16	P2	AV3	.08		TEC	TEH	.610	ZBARH	69	H	

| ROW | COL | VOLTS | DEG | IND | PER | CHN | LOCN | INCH1 | INCH2 | BEGT | ENDT | PDIA | PTYPE | CAL | L | COM |

SG - A Anti-Vibration Bar Wear Indications

Braidwood 2 A2R11 CDE 20050401 04/28/2005 11:54:54

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
40	87	1.15	0	PCT	18	P2	AV4	.11		TEC	TEH	.610	ZBARH	69	H	
41	87	2.99	0	PCT	31	P2	AV2	.00		TEC	TEH	.610	ZBARH	69	H	
41	87	2.39	0	PCT	28	P2	AV3	-.03		TEC	TEH	.610	ZBARH	69	H	
33	88	1.26	0	PCT	17	P2	AV2	.00		TEC	TEH	.610	ZBARH	71	H	
36	88	1.42	0	PCT	19	P2	AV2	.43		TEC	TEH	.610	ZBARH	71	H	
36	88	1.48	0	PCT	20	P2	AV3	.43		TEC	TEH	.610	ZBARH	71	H	
40	88	2.37	0	PCT	28	P2	AV2	.00		TEC	TEH	.610	ZBARH	73	H	
40	88	1.76	0	PCT	24	P2	AV3	.00		TEC	TEH	.610	ZBARH	73	H	
40	88	1.27	0	PCT	19	P2	AV4	.00		TEC	TEH	.610	ZBARH	73	H	
36	89	.91	0	PCT	15	P2	AV2	.10		TEC	TEH	.610	ZBARH	73	H	
36	89	.83	0	PCT	12	P2	AV3	.00		TEC	TEH	.610	ZBARH	73	H	
38	89	1.22	0	PCT	18	P2	AV2	.35		TEC	TEH	.610	ZBARH	75	H	
38	89	.95	0	PCT	15	P2	AV3	.00		TEC	TEH	.610	ZBARH	75	H	
40	89	.98	0	PCT	16	P2	AV2	.00		TEC	TEH	.610	ZBARH	75	H	
40	89	.91	0	PCT	15	P2	AV3	.00		TEC	TEH	.610	ZBARH	75	H	
41	89	1.20	0	PCT	18	P2	AV3	.05		TEC	TEH	.610	ZBARH	75	H	
42	89	1.02	0	PCT	16	P2	AV3	.00		TEC	TEH	.610	ZBARH	75	H	
31	90	1.18	0	PCT	18	P2	AV3	.00		TEC	TEH	.610	ZBARH	75	H	
35	90	.69	0	PCT	11	P2	AV1	..00		TEC	TEH	.610	ZBARH	71	H	
35	90	.71	0	PCT	11	P2	AV2	.00		TEC	TEH	.610	ZBARH	71	H	
35	90	2.15	0	PCT	25	P2	AV3	.10		TEC	TEH	.610	ZBARH	71	H	
37	90	1.02	0	PCT	16	P2	AV2	.00		TEC	TEH	.610	ZBARH	75	H	
38	90	.52	0	PCT	7	P2	AV1	.00		TEC	TEH	.610	ZBARH	75	H	
38	90	1.16	0	PCT	18	P2	AV2	.00		TEC	TEH	.610	ZBARH	75	H	
38	90	1.28	0	PCT	19	P2	AV3	.00		TEC	TEH	.610	ZBARH	75	H	
39	90	.58	0	PCT	8	P2	AV1	.00		TEC	TEH	.610	ZBARH	75	H	
39	90	2.66	0	PCT	29	P2	AV2	.00		TEC	TEH	.610	ZBARH	75	H	
39	90	3.03	0	PCT	31	P2	AV3	.00		TEC	TEH	.610	ZBARH	75	H	
39	90	.91	0	PCT	15	P2	AV4	.00		TEC	TEH	.610	ZBARH	75	H	
41	90	2.21	0	PCT	26	P2	AV2	.00		TEC	TEH	.610	ZBARH	75	H	
41	91	3.44	0	PCT	34	P2	AV2	.06		TEC	TEH	.610	ZBARH	73	H	
41	91	1.38	0	PCT	20	P2	AV3	.03		TEC	TEH	.610	ZBARH	73	H	
45	91	1.60	0	PCT	22	P2	AV1	.08		TEC	TEH	.610	ZBARH	73	H	
36	92	1.34	0	PCT	19	P2	AV2	.16		TEC	TEH	.610	ZBARH	75	H	
36	92	1.87	0	PCT	24	P2	AV3	.00		TEC	TEH	.610	ZBARH	75	H	
37	92	.61	0	PCT	9	P2	AV3	.00		TEC	TEH	.610	ZBARH	75	H	
38	92	2.31	0	PCT	27	P2	AV2	-.03		TEC	TEH	.610	ZBARH	75	H	
38	92	1.62	0	PCT	22	P2	AV3	.05		TEC	TEH	.610	ZBARH	75	H	
41	92	1.30	0	PCT	19	P2	AV2	.00		TEC	TEH	.610	ZBARH	75	H	
41	92	3.42	0	PCT	33	P2	AV3	.00		TEC	TEH	.610	ZBARH	75	H	
44	92	1.15	0	PCT	18	P2	AV4	.05		TEC	TEH	.610	ZBARH	75	H	
38	93	1.54	0	PCT	22	P2	AV3	-.10		TEC	TEH	.610	ZBARH	73	H	
41	93	3.56	0	PCT	35	P2	AV2	-.11		TEC	TEH	.610	ZBARH	73	H	
41	93	2.98	0	PCT	32	P2	AV3	-.03		TEC	TEH	.610	ZBARH	73	H	
34	94	1.24	0	PCT	18	P2	AV2	-.08		TEC	TEH	.610	ZBARH	75	H	
42	94	.92	0	PCT	15	P2	AV4	.00		TEC	TEH	.610	ZBARH	75	H	
35	96	2.29	0	PCT	27	P2	AV2	.00		TEC	TEH	.610	ZBARH	75	H	
26	97	1.02	0	PCT	16	P2	AV3	-.21		TEC	TEH	.610	ZBARH	73	H	
33	98	1.18	0	PCT	18	P2	AV2	.00		TEC	TEH	.610	ZBARH	75	H	
33	98	1.06	0	PCT	17	P2	AV3	.00		TEC	TEH	.610	ZBARH	75	H	

| ROW | COL | VOLTS | DEG | IND | PER | CHN | LOCN | INCH1 | INCH2 | BEGT | ENDT | PDIA | PTYPE | CAL | L | COM |

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
34	98	.98	0	PCT	16	P2	AV3	.00		TEC	TEH	.610	ZBARH	75	H	
28	99	1.04	0	PCT	14	P2	AV3	.00		TEC	TEH	.610	ZBARH	77	H	
32	99	4.30	0	PCT	38	P2	AV2	-.25		TEC	TEH	.610	ZBARH	73	H	
32	99	1.23	0	PCT	19	P2	AV3	-.19		TEC	TEH	.610	ZBARH	73	H	
33	99	.68	0	PCT	9	P2	AV2	.00		TEC	TEH	.610	ZBARH	73	H	
29	102	1.12	0	PCT	18	P2	AV3	.00		TEC	TEH	.610	ZBARH	79	H	
29	103	.84	0	PCT	12	P2	AV1	.00		TEC	TEH	.610	ZBARH	77	H	
30	103	2.61	0	PCT	29	P2	AV1	.00		TEC	TEH	.610	ZBARH	77	H	
30	103	1.69	0	PCT	22	P2	AV2	.00		TEC	TEH	.610	ZBARH	77	H	
30	103	2.21	0	PCT	27	P2	AV3	.00		TEC	TEH	.610	ZBARH	77	H	
28	104	1.07	0	PCT	18	P2	AV2	.00		TEC	TEH	.610	ZBARH	79	H	
29	104	.94	0	PCT	16	P2	AV1	.00		TEC	TEH	.610	ZBARH	79	H	
29	104	2.72	0	PCT	30	P2	AV2	.00		TEC	TEH	.610	ZBARH	79	H	
29	104	2.88	0	PCT	31	P2	AV3	.00		TEC	TEH	.610	ZBARH	79	H	
27	105	2.14	0	PCT	26	P2	AV1	.00		TEC	TEH	.610	ZBARH	77	H	
27	105	1.72	0	PCT	23	P2	AV2	.00		TEC	TEH	.610	ZBARH	77	H	
27	105	1.42	0	PCT	20	P2	AV3	.00		TEC	TEH	.610	ZBARH	77	H	
28	105	1.13	0	PCT	17	P2	AV1	.00		TEC	TEH	.610	ZBARH	77	H	
25	106	1.30	0	PCT	20	P2	AV2	.00		TEC	TEH	.610	ZBARH	79	H	
25	106	1.03	0	PCT	17	P2	AV3	.00		TEC	TEH	.610	ZBARH	79	H	
27	106	2.13	0	PCT	27	P2	AV1	.00		TEC	TEH	.610	ZBARH	79	H	
27	106	1.33	0	PCT	20	P2	AV2	.00		TEC	TEH	.610	ZBARH	79	H	
27	106	1.88	0	PCT	25	P2	AV3	.00		TEC	TEH	.610	ZBARH	79	H	
27	106	1.11	0	PCT	18	P2	AV4	.00		TEC	TEH	.610	ZBARH	79	H	
25	107	2.45	0	PCT	27	P2	AV1	.00		TEC	TEH	.610	ZBARH	77	H	
25	108	1.12	0	PCT	18	P2	AV4	.00		TEC	TEH	.610	ZBARH	79	H	
23	109	1.25	0	PCT	18	P2	AV1	.00		TEC	TEH	.610	ZBARH	77	H	
23	109	4.05	0	PCT	37	P2	AV4	.00		TEC	TEH	.610	ZBARH	77	H	
ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM

CDE-B ANTI-VIBRATION BAR WEAR INDICATIONS

MOST SEVERE INDICATION PER TUBE

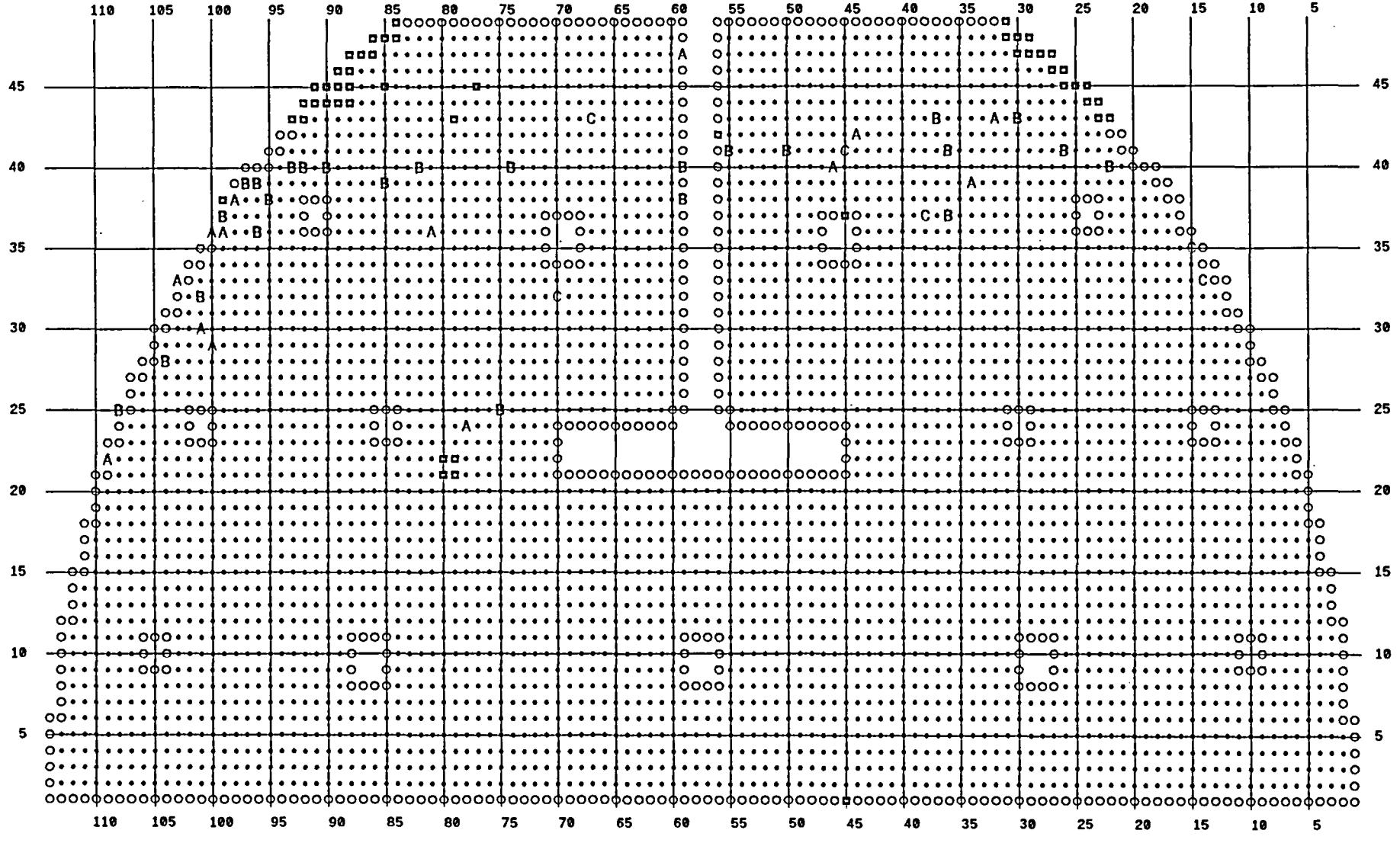
Braidwood A2R11 CDE D5

A 14 INDICATION 1 TO 19 PERCENT

B 25 INDICATION 20 TO 29 PERCENT

C 6 INDICATION 30 TO 39 PERCENT

▫ 48 PLUGGED TUBE



Westinghouse Electric Company LLC - ST Max 04/28/2005 16:54:17

SG - B Anti-Vibration Bar Wear Indications

Braidwood 2 A2R11 CDE 20050401 04/28/2005 11:54:52

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
33	14	2.48	0	PCT	30	P2	AV2	.00		TEC	TEH	.610	ZBARH	19	H	RESULT OF HISTORY REVIEW
33	14	1.24	0	PCT	20	P2	AV3	.00		TEC	TEH	.610	ZBARH	19	H	RESULT OF HISTORY REVIEW
35	15	1.54	0	PCT	24	P2	AV2	.00		TEC	TEH	.610	ZBARH	19	H	
35	15	3.44	0	PCT	35	P2	AV3	.00		TEC	TEH	.610	ZBARH	19	H	
35	15	1.59	0	PCT	25	P2	AV4	.00		TEC	TEH	.610	ZBARH	19	H	
40	22	1.57	0	PCT	21	P2	AV2	.00		TEC	TEH	.610	ZBARH	17	H	
40	22	1.26	0	PCT	18	P2	AV3	.00		TEC	TEH	.610	ZBARH	17	H	
41	26	1.15	0	PCT	20	P2	AV2	.00		TEC	TEH	.610	ZBARH	23	H	
43	30	1.96	0	PCT	27	P2	AV2	-.11		TEC	TEH	.610	ZBARH	23	H	
43	32	1.00	0	PCT	18	P2	AV1	.00		TEC	TEH	.610	ZBARH	23	H	
43	32	.87	0	PCT	16	P2	AV2	.11		TEC	TEH	.610	ZBARH	23	H	
39	34	1.02	0	PCT	18	P2	AV1	.00		TEC	TEH	.610	ZBARH	19	H	
37	36	.79	0	PCT	17	P2	AV1	.00		TEC	TEH	.610	ZBARH	19	H	
37	36	.84	0	PCT	17	P2	AV2	.00		TEC	TEH	.610	ZBARH	19	H	
37	36	1.18	0	PCT	21	P2	AV3	.00		TEC	TEH	.610	ZBARH	19	H	
37	36	.85	0	PCT	17	P2	AV4	.00		TEC	TEH	.610	ZBARH	19	H	
41	36	1.27	0	PCT	21	P2	AV1	.16		TEC	TEH	.610	ZBARH	23	H	
43	37	.99	0	PCT	18	P2	AV1	.03		TEC	TEH	.610	ZBARH	23	H	
43	37	2.12	0	PCT	29	P2	AV2	.03		TEC	TEH	.610	ZBARH	23	H	
43	37	1.93	0	PCT	26	P2	AV3	.22		TEC	TEH	.610	ZBARH	23	H	
37	38	2.78	0	PCT	32	P2	AV2	.00		TEC	TEH	.610	ZBARH	19	H	
37	38	2.49	0	PCT	31	P2	AV3	-.08		TEC	TEH	.610	ZBARH	19	H	
37	38	1.03	0	PCT	18	P2	AV4	.00		TEC	TEH	.610	ZBARH	19	H	
42	44	.68	0	PCT	10	P2	AV1	.00		TEC	TEH	.610	ZBARH	21	H	
42	44	1.10	0	PCT	15	P2	AV3	-.30		TEC	TEH	.610	ZBARH	21	H	
41	45	2.72	0	PCT	31	P2	AV2	.00		TEC	TEH	.610	ZBARH	23	H	
41	45	1.29	0	PCT	21	P2	AV3	.00		TEC	TEH	.610	ZBARH	23	H	
40	46	1.06	0	PCT	15	P2	AV2	.00		TEC	TEH	.610	ZBARH	21	H	
40	46	1.23	0	PCT	17	P2	AV3	.00		TEC	TEH	.610	ZBARH	21	H	
41	50	1.47	0	PCT	23	P2	AV3	-.05		TEC	TEH	.610	ZBARH	23	H	
41	55	1.70	0	PCT	25	P2	AV2	.00		TEC	TEH	.610	ZBARH	23	H	
41	55	1.97	0	PCT	27	P2	AV3	-.03		TEC	TEH	.610	ZBARH	23	H	
41	55	1.10	0	PCT	19	P2	AV4	.00		TEC	TEH	.610	ZBARH	23	H	
38	59	1.75	0	PCT	21	P2	AV2	.00		TEC	TEH	.610	ZBARH	25	H	
40	59	1.10	0	PCT	15	P2	AV1	.00		TEC	TEH	.610	ZBARH	25	H	
40	59	1.33	0	PCT	18	P2	AV2	.00		TEC	TEH	.610	ZBARH	25	H	
40	59	2.07	0	PCT	24	P2	AV3	.00		TEC	TEH	.610	ZBARH	25	H	
40	59	.68	0	PCT	11	P2	AV4	.05		TEC	TEH	.610	ZBARH	25	H	
47	59	1.07	0	PCT	18	P2	AV1	.00		TEC	TEH	.610	ZBARH	27	H	
43	67	.92	0	PCT	17	P2	AV1	.00		TEC	TEH	.610	ZBARH	27	H	
43	67	3.30	0	PCT	34	P2	AV2	.00		TEC	TEH	.610	ZBARH	27	H	
43	67	3.12	0	PCT	33	P2	AV3	.08		TEC	TEH	.610	ZBARH	27	H	
43	67	.81	0	PCT	15	P2	AV4	.00		TEC	TEH	.610	ZBARH	27	H	
32	70	.88	0	PCT	13	P2	AV1	.00		TEC	TEH	.610	ZBARH	33	H	
32	70	1.29	0	PCT	16	P2	AV2	.00		TEC	TEH	.610	ZBARH	33	H	
32	70	3.78	0	PCT	34	P2	AV3	.00		TEC	TEH	.610	ZBARH	33	H	
40	74	1.03	0	PCT	14	P2	AV2	.00		TEC	TEH	.610	ZBARH	25	H	
40	74	1.87	0	PCT	22	P2	AV3	-.08		TEC	TEH	.610	ZBARH	25	H	
25	75	1.37	0	PCT	22	P2	AV3	.00		TEC	TEH	.610	ZBARH	35	H	
24	78	.92	0	PCT	13	P2	AV4	.00		TEC	TEH	.610	ZBARH	33	H	
36	81	1.06	0	PCT	16	P2	AV2	.11		TEC	TEH	.610	ZBARH	29	H	
40	82	2.59	0	PCT	29	P2	AV3	.00		TEC	TEH	.610	ZBARH	29	H	
39	85	1.00	0	PCT	19	P2	AV2	.08		TEC	TEH	.610	ZBARH	31	H	
39	85	1.10	0	PCT	20	P2	AV3	-.14		TEC	TEH	.610	ZBARH	31	H	

| ROW | COL | VOLTS | DEG | IND | PER | CHN | LOCN | INCH1 | INCH2 | BEGT | ENDT | PDIA | PTYPE | CAL | L | COM |

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
40	90	.84	0	PCT	13	P2	AV2	.00		TEC	TEH	.610	ZBARH	29	H	
40	90	1.57	0	PCT	21	P2	AV3	.32		TEC	TEH	.610	ZBARH	29	H	
40	92	.99	0	PCT	15	P2	AV2	.19		TEC	TEH	.610	ZBARH	29	H	
40	92	1.75	0	PCT	23	P2	AV3	-.13		TEC	TEH	.610	ZBARH	29	H	
40	93	1.61	0	PCT	22	P2	AV3	-.08		TEC	TEH	.610	ZBARH	29	H	
38	95	1.78	0	PCT	23	P2	AV2	-.13		TEC	TEH	.610	ZBARH	29	H	
36	96	1.42	0	PCT	20	P2	AV2	.11		TEC	TEH	.610	ZBARH	29	H	
39	96	.80	0	PCT	16	P2	AV1	.00		TEC	TEH	.610	ZBARH	31	H	
39	96	1.63	0	PCT	25	P2	AV3	.05		TEC	TEH	.610	ZBARH	31	H	
39	97	1.13	0	PCT	20	P2	AV1	-.03		TEC	TEH	.610	ZBARH	31	H	
39	97	.63	0	PCT	14	P2	AV2	.03		TEC	TEH	.610	ZBARH	31	H	
39	97	1.62	0	PCT	25	P2	AV3	.03		TEC	TEH	.610	ZBARH	31	H	
38	98	1.17	0	PCT	17	P2	AV3	.08		TEC	TEH	.610	ZBARH	29	H	
38	98	1.37	0	PCT	19	P2	AV4	.13		TEC	TEH	.610	ZBARH	29	H	
36	99	.96	0	PCT	15	P2	AV1	.00		TEC	TEH	.610	ZBARH	29	H	
36	99	1.22	0	PCT	18	P2	AV2	-.03		TEC	TEH	.610	ZBARH	29	H	
37	99	1.48	0	PCT	24	P2	AV3	.05		TEC	TEH	.610	ZBARH	31	H	
29	100	1.32	0	PCT	18	P2	AV2	.00		TEC	TEH	.610	ZBARH	33	H	
36	100	.96	0	PCT	15	P2	AV2	.13		TEC	TEH	.610	ZBARH	29	H	
30	101	.54	0	PCT	17	P2	AV2	.00		TEC	TEH	.610	ZBARH	35	H	
30	101	.89	0	PCT	17	P2	AV3	-.08		TEC	TEH	.610	ZBARH	35	H	
32	101	1.82	0	PCT	26	P2	AV3	.00		TEC	TEH	.610	ZBARH	35	H	
33	103	1.02	0	PCT	15	P2	AV2	.13		TEC	TEH	.610	ZBARH	29	H	
28	104	1.61	0	PCT	24	P2	AV2	-.22		TEC	TEH	.610	ZBARH	35	H	
25	108	1.60	0	PCT	24	P2	AV1	.00		TEC	TEH	.610	ZBARH	35	H	
25	108	.69	0	PCT	17	P2	AV2	.03		TEC	TEH	.610	ZBARH	35	H	
25	108	1.30	0	PCT	21	P2	AV4	.05		TEC	TEH	.610	ZBARH	35	H	
22	109	.92	0	PCT	17	P2	AV4	.35		TEC	TEH	.610	ZBARH	35	H	

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM

Tubes: 45 Records: 82

CDE-C ANTI-VIBRATION BAR WEAR INDICATIONS

MOST SEVERE INDICATION PER TUBE

Braidwood A2R11 CDE D5

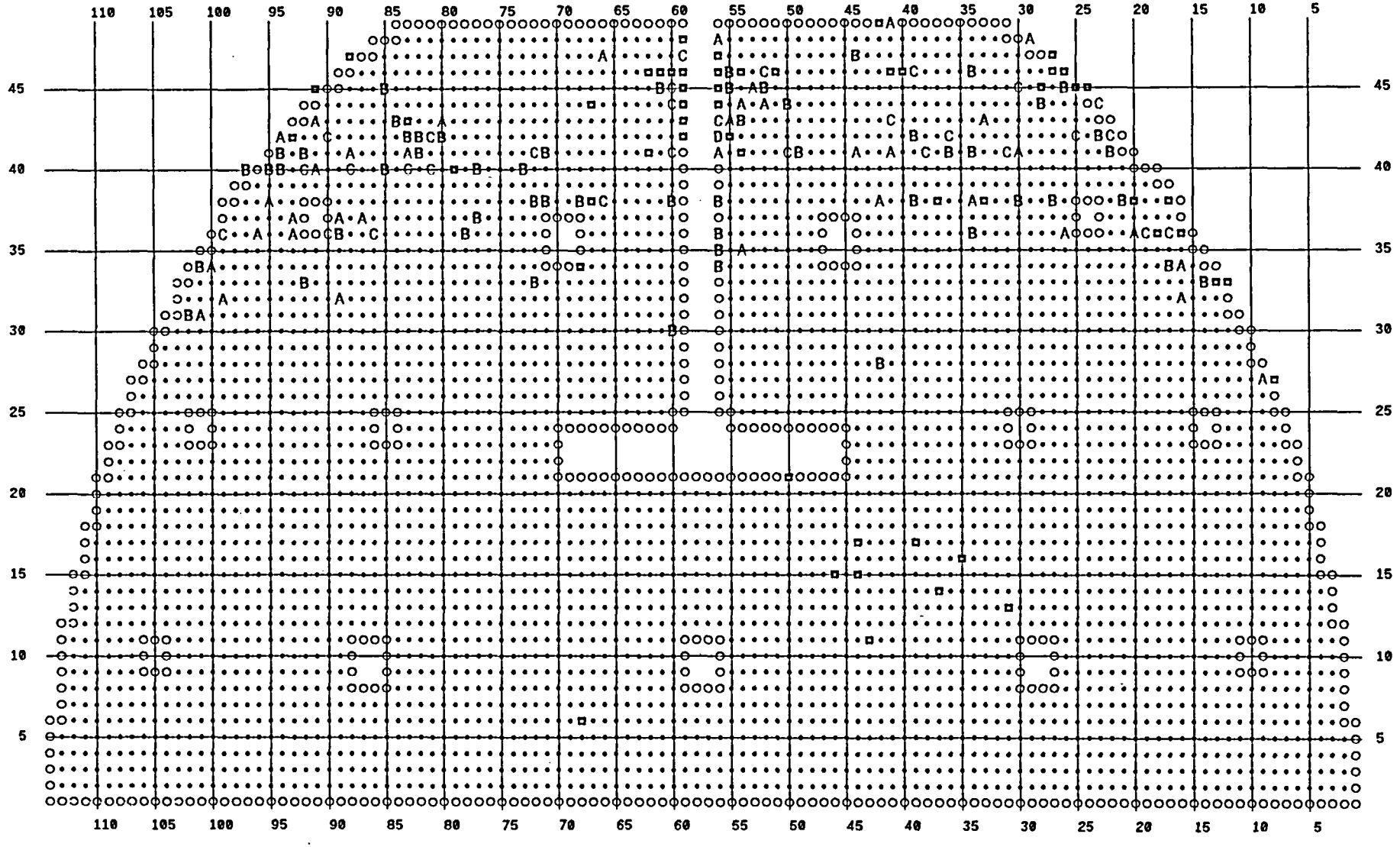
A 37 INDICATION 0 TO 19 PERCENT

B 55 INDICATION 20 TO 29 PERCENT

C 29 INDICATION 30 TO 39 PERCENT

D 1 INDICATION 40 TO 42 PERCENT

▫ 54 PLUGGED TUBE



Westinghouse Electric Company LLC - ST Max 04/29/2005 12:37:10

SG - C Anti-Vibration Bar Wear Indications

Braidwood 2 A2R11 CDE 20050401 04/28/2005 11:54:54

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
27	9	1.37	0	PCT	17	P2	AV1	.00		TEC	TEH	.610	ZBARH	27	H	RESULT OF HISTORY REVIEW
27	9	1.31	0	PCT	17	P2	AV4	.00		TEC	TEH	.610	ZBARH	27	H	
33	14	1.69	0	PCT	22	P2	AV2	-.03		TEC	TEH	.610	ZBARH	25	H	RESULT OF HISTORY REVIEW
33	14	1.69	0	PCT	22	P2	AV3	-.08		TEC	TEH	.610	ZBARH	25	H	RESULT OF HISTORY REVIEW
33	14	2.47	0	PCT	27	P2	AV4	-.08		TEC	TEH	.610	ZBARH	25	H	RESULT OF HISTORY REVIEW
32	16	1.00	0	PCT	15	P2	AV2	-.11		TEC	TEH	.610	ZBARH	25	H	RESULT OF HISTORY REVIEW
34	16	.81	0	PCT	15	P2	AV3	.00		TEC	TEH	.610	ZBARH	25	H	
34	17	1.78	0	PCT	21	P2	AV3	.00		TEC	TEH	.610	ZBARH	21	H	
36	17	3.42	0	PCT	31	P2	AV2	.00		TEC	TEH	.610	ZBARH	21	H	
36	17	2.50	0	PCT	26	P2	AV3	.00		TEC	TEH	.610	ZBARH	21	H	
36	19	3.13	0	PCT	29	P2	AV2	.00		TEC	TEH	.610	ZBARH	21	H	
36	19	4.89	0	PCT	37	P2	AV3	.00		TEC	TEH	.610	ZBARH	21	H	
36	19	1.25	0	PCT	15	P2	AV4	.03		TEC	TEH	.610	ZBARH	21	H	
36	20	1.18	0	PCT	16	P2	AV3	.00		TEC	TEH	.610	ZBARH	23	H	
36	20	1.04	0	PCT	15	P2	AV4	.00		TEC	TEH	.610	ZBARH	23	H	
38	21	2.00	0	PCT	22	P2	AV2	.00		TEC	TEH	.610	ZBARH	21	H	
38	21	1.61	0	PCT	19	P2	AV3	-.11		TEC	TEH	.610	ZBARH	21	H	
41	22	1.13	0	PCT	16	P2	AV2	.03		TEC	TEH	.610	ZBARH	23	H	
41	22	2.48	0	PCT	27	P2	AV3	-.16		TEC	TEH	.610	ZBARH	23	H	
41	22	1.67	0	PCT	21	P2	AV4	-.19		TEC	TEH	.610	ZBARH	23	H	
42	22	3.05	0	PCT	31	P2	AV3	.00		TEC	TEH	.610	ZBARH	23	H	
42	22	2.06	0	PCT	24	P2	AV4	-.08		TEC	TEH	.610	ZBARH	23	H	
42	23	2.00	0	PCT	22	P2	AV3	-.03		TEC	TEH	.610	ZBARH	21	H	
44	23	1.24	0	PCT	16	P2	AV1	.03		TEC	TEH	.610	ZBARH	21	H	
44	23	3.88	0	PCT	33	P2	AV2	.00		TEC	TEH	.610	ZBARH	21	H	
44	23	4.97	0	PCT	37	P2	AV3	.00		TEC	TEH	.610	ZBARH	21	H	
44	23	1.02	0	PCT	13	P2	AV4	.00		TEC	TEH	.610	ZBARH	21	H	
42	25	3.62	0	PCT	32	P2	AV2	.00		TEC	TEH	.610	ZBARH	21	H	
42	25	3.70	0	PCT	32	P2	AV3	.00		TEC	TEH	.610	ZBARH	21	H	
42	25	1.90	0	PCT	22	P2	AV4	-.08		TEC	TEH	.610	ZBARH	21	H	
36	26	1.43	0	PCT	19	P2	AV3	.19		TEC	TEH	.610	ZBARH	23	H	
45	26	1.31	0	PCT	18	P2	AV2	.00		TEC	TEH	.610	ZBARH	23	H	
45	26	2.79	0	PCT	29	P2	AV3	.08		TEC	TEH	.610	ZBARH	23	H	
38	27	2.71	0	PCT	27	P2	AV2	.00		TEC	TEH	.610	ZBARH	21	H	
38	27	1.86	0	PCT	21	P2	AV3	-.03		TEC	TEH	.610	ZBARH	21	H	
44	28	1.12	0	PCT	16	P2	AV2	.14		TEC	TEH	.610	ZBARH	23	H	
44	28	2.10	0	PCT	24	P2	AV3	-.25		TEC	TEH	.610	ZBARH	23	H	
48	29	.69	0	PCT	11	P2	AV4	.00		TEC	TEH	.610	ZBARH	23	H	
38	30	1.81	0	PCT	22	P2	AV2	.05		TEC	TEH	.610	ZBARH	23	H	
38	30	1.93	0	PCT	23	P2	AV3	.08		TEC	TEH	.610	ZBARH	23	H	
41	30	1.35	0	PCT	18	P2	AV2	-.11		TEC	TEH	.610	ZBARH	23	H	
41	30	1.40	0	PCT	18	P2	AV3	-.03		TEC	TEH	.610	ZBARH	23	H	
45	30	2.03	0	PCT	24	P2	AV2	.11		TEC	TEH	.610	ZBARH	23	H	
45	30	4.37	0	PCT	37	P2	AV3	.05		TEC	TEH	.610	ZBARH	23	H	
45	30	1.35	0	PCT	18	P2	AV4	.03		TEC	TEH	.610	ZBARH	23	H	
41	31	2.62	0	PCT	26	P2	AV1	.00		TEC	TEH	.610	ZBARH	21	H	
41	31	3.64	0	PCT	32	P2	AV2	.00		TEC	TEH	.610	ZBARH	21	H	
41	31	2.96	0	PCT	28	P2	AV3	.00		TEC	TEH	.610	ZBARH	21	H	
41	31	1.46	0	PCT	18	P2	AV4	-.21		TEC	TEH	.610	ZBARH	21	H	
43	33	1.54	0	PCT	19	P2	AV2	-.05		TEC	TEH	.610	ZBARH	21	H	
36	34	2.42	0	PCT	28	P2	AV3	-.03		TEC	TEH	.610	ZBARH	5	H	
38	34	1.09	0	PCT	17	P2	AV2	-.03		TEC	TEH	.610	ZBARH	5	H	
41	34	2.36	0	PCT	26	P2	AV2	.11		TEC	TEH	.610	ZBARH	23	H	
41	34	2.68	0	PCT	28	P2	AV3	-.03		TEC	TEH	.610	ZBARH	23	H	

| ROW | COL | VOLTS | DEG | IND | PER | CHN | LOCN | INCH1 | INCH2 | BEGT | ENDT | PDIA | PTYPE | CAL | L | COM |

SG - C Anti-Vibration Bar Wear Indications

Braidwood 2 A2R11 CDE 20050401 04/28/2005 11:54:54

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
46	34	2.84	0	PCT	29	P2	AV2	.00		TEC	TEH	.610	ZBARH	23	H	
46	34	2.78	0	PCT	29	P2	AV3	-.03		TEC	TEH	.610	ZBARH	23	H	
46	34	1.64	0	PCT	21	P2	AV4	-.28		TEC	TEH	.610	ZBARH	23	H	
41	36	1.60	0	PCT	22	P2	AV2	.08		TEC	TEH	.610	ZBARH	5	H	
41	36	1.64	0	PCT	22	P2	AV3	-.14		TEC	TEH	.610	ZBARH	5	H	
42	36	3.15	0	PCT	32	P2	AV3	.08		TEC	TEH	.610	ZBARH	5	H	
42	36	1.37	0	PCT	20	P2	AV4	.03		TEC	TEH	.610	ZBARH	5	H	
41	38	3.27	0	PCT	33	P2	AV2	.00		TEC	TEH	.610	ZBARH	5	H	
41	38	1.80	0	PCT	24	P2	AV3	-.11		TEC	TEH	.610	ZBARH	5	H	
38	39	1.22	0	PCT	16	P2	AV2	.00		TEC	TEH	.610	ZBARH	13	H	RESULT OF HISTORY REVIEW
38	39	1.74	0	PCT	20	P2	AV3	.00		TEC	TEH	.610	ZBARH	13	H	RESULT OF HISTORY REVIEW
42	39	1.97	0	PCT	22	P2	AV2	.00		TEC	TEH	.610	ZBARH	13	H	RESULT OF HISTORY REVIEW
42	39	3.11	0	PCT	29	P2	AV3	.00		TEC	TEH	.610	ZBARH	13	H	RESULT OF HISTORY REVIEW
46	39	2.63	0	PCT	26	P2	AV2	.00		TEC	TEH	.610	ZBARH	13	H	RESULT OF HISTORY REVIEW
46	39	5.56	0	PCT	39	P2	AV3	.00		TEC	TEH	.610	ZBARH	13	H	RESULT OF HISTORY REVIEW
41	41	1.20	0	PCT	16	P2	AV3	.00		TEC	TEH	.610	ZBARH	13	H	RESULT OF HISTORY REVIEW
41	41	1.20	0	PCT	16	P2	AV4	.00		TEC	TEH	.610	ZBARH	13	H	RESULT OF HISTORY REVIEW
43	41	2.05	0	PCT	23	P2	AV1	.00		TEC	TEH	.610	ZBARH	13	H	RESULT OF HISTORY REVIEW
43	41	5.27	0	PCT	38	P2	AV2	.00		TEC	TEH	.610	ZBARH	13	H	RESULT OF HISTORY REVIEW
43	41	3.62	0	PCT	33	P2	AV3	-.03		TEC	TEH	.610	ZBARH	13	H	
49	41	.79	0	PCT	15	P2	AV1	.00		TEC	TEH	.610	ZBARH	11	H	
28	42	1.56	0	PCT	22	P2	AV3	-.03		TEC	TEH	.610	ZBARH	11	H	
38	42	.95	0	PCT	16	P2	AV1	.00		TEC	TEH	.610	ZBARH	11	H	
41	44	.97	0	PCT	16	P2	AV2	.00		TEC	TEH	.610	ZBARH	11	H	
47	44	1.46	0	PCT	21	P2	AV1	-.03		TEC	TEH	.610	ZBARH	11	H	
41	49	1.86	0	PCT	21	P2	AV1	.00		TEC	TEH	.610	ZBARH	13	H	RESULT OF HISTORY REVIEW
41	50	1.06	0	PCT	17	P2	AV1	.03		TEC	TEH	.610	ZBARH	11	H	
41	50	1.26	0	PCT	19	P2	AV2	.33		TEC	TEH	.610	ZBARH	11	H	
41	50	2.79	0	PCT	31	P2	AV3	.00		TEC	TEH	.610	ZBARH	11	H	
44	50	1.36	0	PCT	20	P2	AV1	.00		TEC	TEH	.610	ZBARH	11	H	
44	50	1.01	0	PCT	17	P2	AV2	-.05		TEC	TEH	.610	ZBARH	11	H	
44	52	1.15	0	PCT	18	P2	AV2	-.05		TEC	TEH	.610	ZBARH	11	H	
44	52	1.19	0	PCT	19	P2	AV3	.03		TEC	TEH	.610	ZBARH	11	H	
45	52	1.29	0	PCT	20	P2	AV1	.03		TEC	TEH	.610	ZBARH	11	H	
45	52	1.92	0	PCT	25	P2	AV3	.00		TEC	TEH	.610	ZBARH	11	H	
46	52	1.58	0	PCT	22	P2	AV3	.03		TEC	TEH	.610	ZBARH	11	H	
46	52	2.91	0	PCT	31	P2	AV4	.00		TEC	TEH	.610	ZBARH	11	H	
45	53	1.14	0	PCT	18	P2	AV1	-.08		TEC	TEH	.610	ZBARH	13	H	
45	53	1.14	0	PCT	18	P2	AV3	-.03		TEC	TEH	.610	ZBARH	13	H	
35	54	1.17	0	PCT	15	P2	AV1	.21		TEC	TEH	.610	ZBARH	31	H	RESULT OF HISTORY REVIEW
43	54	1.30	0	PCT	20	P2	AV2	.00		TEC	TEH	.610	ZBARH	11	H	
43	54	2.08	0	PCT	26	P2	AV3	.00		TEC	TEH	.610	ZBARH	11	H	
44	54	.99	0	PCT	17	P2	AV3	-.14		TEC	TEH	.610	ZBARH	11	H	
43	55	1.19	0	PCT	16	P2	AV2	.00		TEC	TEH	.610	ZBARH	13	H	RESULT OF HISTORY REVIEW
45	55	2.29	0	PCT	24	P2	AV1	.00		TEC	TEH	.610	ZBARH	13	H	RESULT OF HISTORY REVIEW
45	55	2.72	0	PCT	27	P2	AV2	.00		TEC	TEH	.610	ZBARH	13	H	RESULT OF HISTORY REVIEW
45	55	1.96	0	PCT	22	P2	AV3	.00		TEC	TEH	.610	ZBARH	13	H	RESULT OF HISTORY REVIEW
46	55	2.13	2	PCT	23	P2	AV3	.00		TEC	TEH	.610	ZBARH	13	H	
34	56	1.79	0	PCT	24	P2	AV1	.22		TEC	TEH	.610	ZBARH	11	H	
35	56	1.35	0	PCT	20	P2	AV2	.22		TEC	TEH	.610	ZBARH	11	H	

| ROW | COL | VOLTS | DEG | IND | PER | CHN | LOCN | INCH1 | INCH2 | BEGT | ENDT | PDIA | PTYPE | CAL | L | COM |

SG - C Anti-Vibration Bar Wear Indications

Braidwood 2 A2R11 CDE 20050401 04/28/2005 11:54:54

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
36	56	1.40	0	PCT	21	P2	AV2	.00		TEC	TEH	.610	ZBARH	11	H	
38	56	1.81	0	PCT	24	P2	AV3	.00		TEC	TEH	.610	ZBARH	11	H	
41	56	1.05	0	PCT	17	P2	AV1	.00		TEC	TEH	.610	ZBARH	11	H	
42	56	5.52	0	PCT	42	P2	AV1	.00		TEC	TEH	.610	ZBARH	11	H	
42	56	5.36	0	PID		P2	AV1	.00		TEC	TEH	.610	ZBARH	93	H	
43	56	4.30	0	PCT	37	P2	AV1	.00		TEC	TEH	.610	ZBARH	11	H	
43	56	2.12	0	PCT	26	P2	AV4	.00		TEC	TEH	.610	ZBARH	11	H	
48	56	1.13	0	PCT	18	P2	AV1	.05		TEC	TEH	.610	ZBARH	11	H	
47	59	3.38	0	PCT	31	P2	AV2	.05		TEC	TEH	.610	ZBARH	35	H	
30	60	2.97	0	PCT	29	P2	AV1	.00		TEC	TEH	.610	ZBARH	55	H	
30	60	2.79	0	PCT	28	P2	AV2	.00		TEC	TEH	.610	ZBARH	55	H	
30	60	1.98	0	PCT	21	P2	AV3	.00		TEC	TEH	.610	ZBARH	55	H	RESULT OF HISTORY REVIEW
38	60	2.58	0	PCT	29	P2	AV1	.00		TEC	TEH	.610	ZBARH	33	H	
38	60	2.33	0	PCT	27	P2	AV2	.00		TEC	TEH	.610	ZBARH	33	H	
38	60	2.15	0	PCT	26	P2	AV3	.00		TEC	TEH	.610	ZBARH	33	H	
38	60	1.04	0	PCT	16	P2	AV4	.00		TEC	TEH	.610	ZBARH	33	H	
41	60	2.54	0	PCT	29	P2	AV2	.00		TEC	TEH	.610	ZBARH	33	H	
41	60	4.66	0	PCT	39	P2	AV3	.00		TEC	TEH	.610	ZBARH	33	H	
44	60	3.52	0	PCT	32	P2	AV2	.00		TEC	TEH	.610	ZBARH	35	H	RESULT OF HISTORY REVIEW
44	60	4.79	0	PCT	36	P2	AV3	.00		TEC	TEH	.610	ZBARH	35	H	
45	60	3.37	0	PCT	31	P2	AV2	.00		TEC	TEH	.610	ZBARH	35	H	RESULT OF HISTORY REVIEW
45	60	1.70	0	PCT	22	P2	AV3	.00		TEC	TEH	.610	ZBARH	35	H	RESULT OF HISTORY REVIEW
45	61	1.46	0	PCT	20	P2	AV2	.00		TEC	TEH	.610	ZBARH	33	H	
45	61	1.87	0	PCT	24	P2	AV3	.00		TEC	TEH	.610	ZBARH	33	H	
45	61	1.15	0	PCT	17	P2	AV4	.00		TEC	TEH	.610	ZBARH	33	H	
38	66	3.14	0	PCT	32	P2	AV2	.00		TEC	TEH	.610	ZBARH	33	H	
38	66	1.41	0	PCT	19	P2	AV3	.00		TEC	TEH	.610	ZBARH	33	H	
47	66	1.28	0	PCT	17	P2	AV1	.19		TEC	TEH	.610	ZBARH	35	H	
38	68	1.42	0	PCT	20	P2	AV2	-.13		TEC	TEH	.610	ZBARH	33	H	
38	71	2.09	0	PCT	24	P2	AV2	.11		TEC	TEH	.610	ZBARH	39	H	
38	71	2.83	0	PCT	28	P2	AV3	.03		TEC	TEH	.610	ZBARH	39	H	
41	71	2.08	0	PCT	22	P2	AV2	.21		TEC	TEH	.610	ZBARH	39	H	RESULT OF HISTORY REVIEW
33	72	.93	0	PCT	15	P2	AV2	-.14		TEC	TEH	.610	ZBARH	37	H	
33	72	1.89	0	PCT	24	P2	AV3	-.19		TEC	TEH	.610	ZBARH	37	H	
38	72	1.48	0	PCT	21	P2	AV3	.00		TEC	TEH	.610	ZBARH	37	H	
41	72	2.32	0	PCT	27	P2	AV2	.06		TEC	TEH	.610	ZBARH	33	H	
41	72	4.36	0	PCT	38	P2	AV3	.05		TEC	TEH	.610	ZBARH	33	H	
40	73	2.07	0	PCT	22	P2	AV3	.03		TEC	TEH	.610	ZBARH	39	H	
37	77	1.33	0	PCT	16	P2	AV2	.00		TEC	TEH	.610	ZBARH	39	H	
37	77	2.13	0	PCT	23	P2	AV3	-.03		TEC	TEH	.610	ZBARH	39	H	
40	77	1.91	0	PCT	22	P2	AV2	.00		TEC	TEH	.610	ZBARH	39	H	
40	77	2.10	0	PCT	23	P2	AV3	-.08		TEC	TEH	.610	ZBARH	39	H	RESULT OF HISTORY REVIEW
36	78	1.38	0	PCT	20	P2	AV2	.11		TEC	TEH	.610	ZBARH	37	H	
42	80	1.23	0	PCT	18	P2	AV2	.00		TEC	TEH	.610	ZBARH	37	H	
42	80	2.33	0	PCT	27	P2	AV3	.03		TEC	TEH	.610	ZBARH	37	H	
43	80	1.14	0	PCT	17	P2	AV2	.00		TEC	TEH	.610	ZBARH	37	H	
40	81	2.04	0	PCT	22	P2	AV1	.00		TEC	TEH	.610	ZBARH	39	H	
40	81	4.89	0	PCT	37	P2	AV2	-.03		TEC	TEH	.610	ZBARH	39	H	
40	81	2.17	0	PCT	23	P2	AV3	.11		TEC	TEH	.610	ZBARH	39	H	
42	81	1.07	0	PCT	15	P2	AV1	.08		TEC	TEH	.610	ZBARH	39	H	
42	81	4.34	0	PCT	34	P2	AV2	.00		TEC	TEH	.610	ZBARH	39	H	
42	81	3.52	0	PCT	31	P2	AV3	.16		TEC	TEH	.610	ZBARH	39	H	

| ROW | COL | VOLTS | DEG | IND | PER | CHN | LOCN | INCH1 | INCH2 | BEGT | ENDT | PDIA | PTYPE | CAL | L | COM |

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
42	81	1.74	0	PCT	20	P2	AV4	-.05		TEC	TEH	.610	ZBARH	39	H	
41	82	1.63	0	PCT	22	P2	AV2	.00		TEC	TEH	.610	ZBARH	37	H	
42	82	2.39	0	PCT	28	P2	AV2	.00		TEC	TEH	.610	ZBARH	37	H	
42	82	1.66	0	PCT	22	P2	AV3	.00		TEC	TEH	.610	ZBARH	37	H	
40	83	1.44	0	PCT	17	P2	AV1	.13		TEC	TEH	.610	ZBARH	39	H	RESULT OF HISTORY REVIEW
40	83	4.88	0	PCT	37	P2	AV2	-.03		TEC	TEH	.610	ZBARH	39	H	RESULT OF HISTORY REVIEW
40	83	5.71	0	PCT	39	P2	AV3	.00		TEC	TEH	.610	ZBARH	39	H	RESULT OF HISTORY REVIEW
41	83	1.46	0	PCT	17	P2	AV1	.00		TEC	TEH	.610	ZBARH	39	H	RESULT OF HISTORY REVIEW
41	83	1.61	0	PCT	19	P2	AV2	-.05		TEC	TEH	.610	ZBARH	39	H	RESULT OF HISTORY REVIEW
41	83	1.52	0	PCT	18	P2	AV3	.03		TEC	TEH	.610	ZBARH	39	H	RESULT OF HISTORY REVIEW
42	83	1.04	0	PCT	15	P2	AV2	-.08		TEC	TEH	.610	ZBARH	39	H	
42	83	2.32	0	PCT	24	P2	AV3	-.05		TEC	TEH	.610	ZBARH	39	H	RESULT OF HISTORY REVIEW
43	84	1.28	0	PCT	19	P2	AV2	-.11		TEC	TEH	.610	ZBARH	37	H	
43	84	2.23	0	PCT	27	P2	AV3	-.03		TEC	TEH	.610	ZBARH	37	H	
40	85	3.05	0	PCT	28	P2	AV2	.05		TEC	TEH	.610	ZBARH	39	H	RESULT OF HISTORY REVIEW
40	85	2.39	0	PCT	25	P2	AV3	.03		TEC	TEH	.610	ZBARH	39	H	RESULT OF HISTORY REVIEW
45	85	1.22	0	PCT	15	P2	AV2	.37		TEC	TEH	.610	ZBARH	39	H	RESULT OF HISTORY REVIEW
45	85	2.41	0	PCT	25	P2	AV3	.00		TEC	TEH	.610	ZBARH	39	H	RESULT OF HISTORY REVIEW
36	86	1.86	0	PCT	24	P2	AV2	.08		TEC	TEH	.610	ZBARH	37	H	
36	86	2.99	0	PCT	31	P2	AV3	-.08		TEC	TEH	.610	ZBARH	37	H	
36	86	1.85	0	PCT	24	P2	AV4	-.16		TEC	TEH	.610	ZBARH	37	H	
37	87	1.56	0	PCT	18	P2	AV2	.00		TEC	TEH	.610	ZBARH	39	H	RESULT OF HISTORY REVIEW
37	87	1.60	0	PCT	19	P2	AV3	-.03		TEC	TEH	.610	ZBARH	39	H	RESULT OF HISTORY REVIEW
40	88	1.45	0	PCT	20	P2	AV2	-.06		TEC	TEH	.610	ZBARH	37	H	
40	88	2.78	0	PCT	30	P2	AV3	-.13		TEC	TEH	.610	ZBARH	37	H	
41	88	1.12	0	PCT	16	P2	AV1	.08		TEC	TEH	.610	ZBARH	37	H	
41	88	1.07	0	PCT	17	P2	AV2	.03		TEC	TEH	.610	ZBARH	37	H	
32	89	1.22	0	PCT	17	P2	AV2	.00		TEC	TEH	.610	ZBARH	39	H	
36	89	1.99	0	PCT	22	P2	AV3	-.05		TEC	TEH	.610	ZBARH	39	H	RESULT OF HISTORY REVIEW
37	89	1.11	0	PCT	16	P2	AV3	.00		TEC	TEH	.610	ZBARH	39	H	
36	90	2.47	0	PCT	28	P2	AV2	.00		TEC	TEH	.610	ZBARH	37	H	
36	90	3.75	0	PCT	35	P2	AV3	.00		TEC	TEH	.610	ZBARH	37	H	
36	90	1.28	0	PCT	19	P2	AV4	.00		TEC	TEH	.610	ZBARH	37	H	
42	90	1.55	0	PCT	21	P2	AV1	.00		TEC	TEH	.610	ZBARH	37	H	
42	90	3.06	0	PCT	32	P2	AV2	.00		TEC	TEH	.610	ZBARH	37	H	
42	90	3.58	0	PCT	34	P2	AV3	.00		TEC	TEH	.610	ZBARH	37	H	
42	90	1.56	0	PCT	21	P2	AV4	.00		TEC	TEH	.610	ZBARH	37	H	
40	91	1.68	0	PCT	19	P2	AV3	.05		TEC	TEH	.610	ZBARH	39	H	RESULT OF HISTORY REVIEW
40	91	1.40	0	PCT	17	P2	AV4	.32		TEC	TEH	.610	ZBARH	39	H	
43	91	1.08	0	PCT	15	P2	AV4	.00		TEC	TEH	.610	ZBARH	39	H	
33	92	1.39	0	PCT	20	P2	AV3	.08		TEC	TEH	.610	ZBARH	37	H	
40	92	2.14	0	PCT	26	P2	AV2	.00		TEC	TEH	.610	ZBARH	37	H	
40	92	4.20	0	PCT	37	P2	AV3	.00		TEC	TEH	.610	ZBARH	37	H	
40	92	1.28	0	PCT	19	P2	AV4	.03		TEC	TEH	.610	ZBARH	37	H	
41	92	1.77	0	PCT	23	P2	AV2	.16		TEC	TEH	.610	ZBARH	37	H	
41	92	2.19	0	PCT	26	P2	AV3	.05		TEC	TEH	.610	ZBARH	37	H	
41	92	1.54	0	PCT	21	P2	AV4	.00		TEC	TEH	.610	ZBARH	37	H	
36	93	1.09	0	PCT	15	P2	AV2	.00		TEC	TEH	.610	ZBARH	39	H	
36	93	1.35	0	PCT	16	P2	AV3	.08		TEC	TEH	.610	ZBARH	39	H	RESULT OF HISTORY REVIEW
37	93	1.18	0	PCT	15	P2	AV3	.00		TEC	TEH	.610	ZBARH	39	H	RESULT OF HISTORY REVIEW
40	94	1.04	0	PCT	16	P2	AV2	-.16		TEC	TEH	.610	ZBARH	37	H	
40	94	1.73	0	PCT	23	P2	AV3	.00		TEC	TEH	.610	ZBARH	37	H	
41	94	1.52	0	PCT	21	P2	AV3	.00		TEC	TEH	.610	ZBARH	37	H	

| ROW | COL | VOLTS | DEG | IND | PER | CHN | LOCN | INCH1 | INCH2 | BEGT | ENDT | PDIA | PTYPE | CAL | L | COM |

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
42	94	.86	0	PCT	14	P2	AV4	.00		TEC	TEH	.610	ZBARH	37	H	
38	95	1.52	0	PCT	18	P2	AV2	.00		TEC	TEH	.610	ZBARH	43	H	RESULT OF HISTORY REVIEW
38	95	1.64	0	PCT	19	P2	AV3	-.11		TEC	TEH	.610	ZBARH	43	H	RESULT OF HISTORY REVIEW
40	95	3.01	0	PCT	28	P2	AV2	.00		TEC	TEH	.610	ZBARH	43	H	RESULT OF HISTORY REVIEW
40	95	1.77	0	PCT	20	P2	AV3	.03		TEC	TEH	.610	ZBARH	43	H	RESULT OF HISTORY REVIEW
36	96	1.06	0	PCT	17	P2	AV2	-.08		TEC	TEH	.610	ZBARH	41	H	
36	96	1.12	0	PCT	17	P2	AV3	-.03		TEC	TEH	.610	ZBARH	41	H	
40	97	2.08	0	PCT	22	P2	AV4	.03		TEC	TEH	.610	ZBARH	43	H	RESULT OF HISTORY REVIEW
32	99	1.49	0	PCT	18	P2	AV3	.05		TEC	TEH	.610	ZBARH	43	H	RESULT OF HISTORY REVIEW
36	99	1.19	0	PCT	15	P2	AV1	.05		TEC	TEH	.610	ZBARH	43	H	
36	99	1.75	0	PCT	20	P2	AV2	.00		TEC	TEH	.610	ZBARH	43	H	
36	99	4.33	0	PCT	34	P2	AV3	.00		TEC	TEH	.610	ZBARH	43	H	
36	99	1.62	0	PCT	19	P2	AV4	.00		TEC	TEH	.610	ZBARH	43	H	
34	100	1.16	0	PCT	18	P2	AV3	.00		TEC	TEH	.610	ZBARH	41	H	
31	101	1.51	0	PCT	18	P2	AV3	.08		TEC	TEH	.610	ZBARH	43	H	RESULT OF HISTORY REVIEW
34	101	2.56	0	PCT	24	P2	AV3	.11		TEC	TEH	.610	ZBARH	43	H	
31	102	.87	0	PCT	15	P2	AV2	.00		TEC	TEH	.610	ZBARH	41	H	
31	102	1.41	0	PCT	20	P2	AV3	-.03		TEC	TEH	.610	ZBARH	41	H	
ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM

Tubes: 122 Records: 227

CDE-D ANTI-VIBRATION BAR WEAR INDICATIONS

MOST SEVERE INDICATION PER TUBE

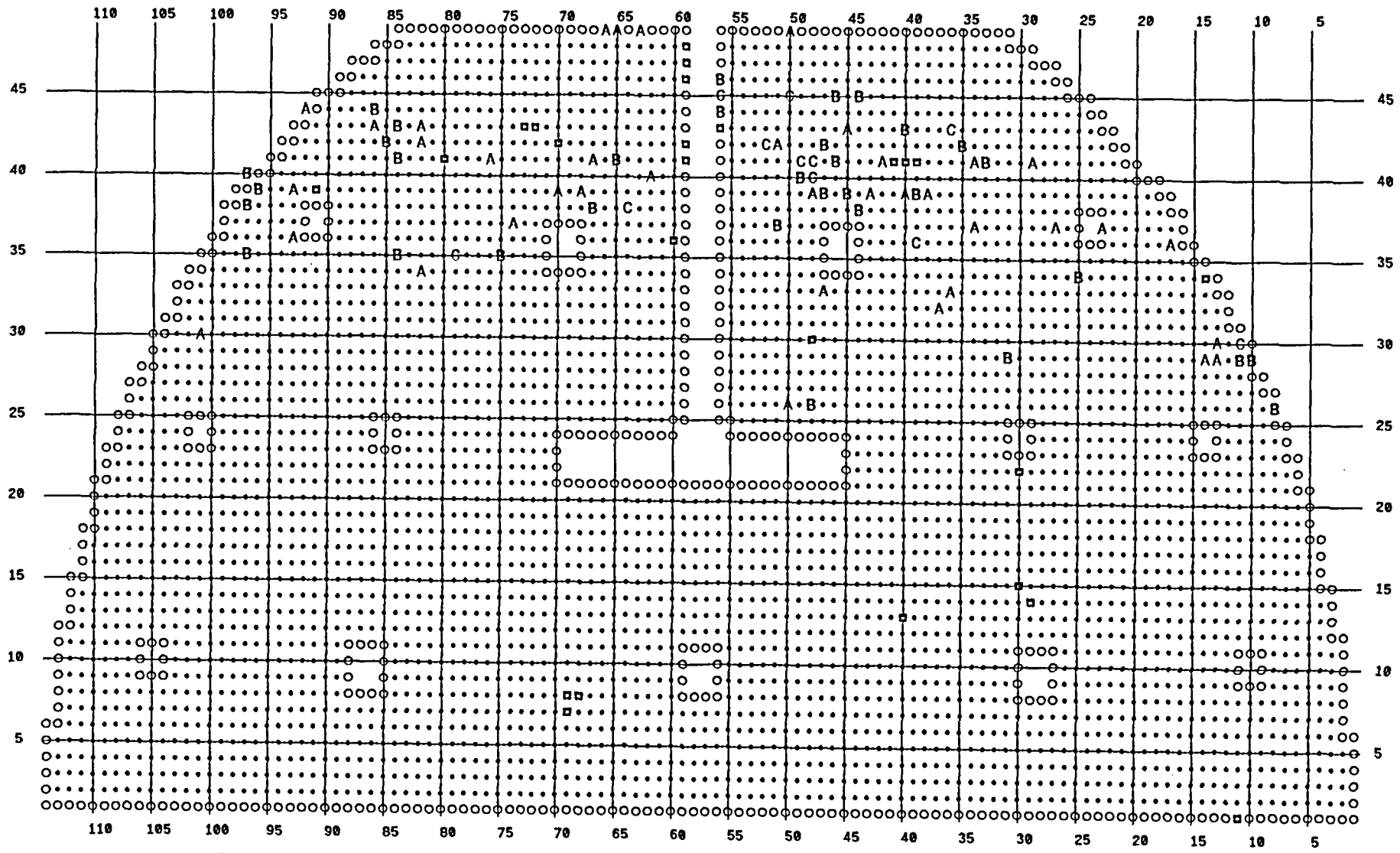
Braidwood A2R11 CDE D5

A 38 INDICATION 0 TO 19 PERCENT

B 33 INDICATION 20 TO 29 PERCENT

C 11 INDICATION 30 TO 39 PERCENT

▫ 25 PLUGGED TUBE



Westinghouse Electric Company LLC - ST Max 04/29/2005 15:22:14

SG - D Anti-Vibration Bar Wear Indications

Braidwood 2 A2R11 CDE 20050401 04/28/2005 11:54:54

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
26	8	1.41	0	PCT	22	P2	AV1	.00		TEC	TEH	.610	ZBARH	51	H	
26	8	.94	0	PCT	17	P2	AV4	.00		TEC	TEH	.610	ZBARH	51	H	
29	10	1.23	0	PCT	20	P2	AV2	.00		TEC	TEH	.610	ZBARH	51	H	
29	10	1.70	0	PCT	24	P2	AV3	.00		TEC	TEH	.610	ZBARH	51	H	
29	11	1.94	0	PCT	21	P2	AV2	.16		TEC	TEH	.610	ZBARH	49	H	RESULT OF HISTORY REVIEW
29	11	1.58	0	PCT	18	P2	AV3	-.03		TEC	TEH	.610	ZBARH	49	H	RESULT OF HISTORY REVIEW
30	11	3.12	0	PCT	30	P2	AV2	-.24		TEC	TEH	.610	ZBARH	49	H	RESULT OF HISTORY REVIEW
30	11	1.23	0	PCT	15	P2	AV4	-.10		TEC	TEH	.610	ZBARH	49	H	RESULT OF HISTORY REVIEW
29	13	.97	0	PCT	12	P2	AV2	.21		TEC	TEH	.610	ZBARH	49	H	
30	13	1.07	0	PCT	13	P2	AV2	.13		TEC	TEH	.610	ZBARH	49	H	
30	13	1.47	0	PCT	17	P2	AV3	-.05		TEC	TEH	.610	ZBARH	49	H	RESULT OF HISTORY REVIEW
29	14	1.47	0	PCT	17	P2	AV2	.05		TEC	TEH	.610	ZBARH	49	H	RESULT OF HISTORY REVIEW
29	14	1.40	0	PCT	17	P2	AV3	.11		TEC	TEH	.610	ZBARH	49	H	RESULT OF HISTORY REVIEW
36	17	1.02	0	PCT	18	P2	AV2	.00		TEC	TEH	.610	ZBARH	51	H	
37	23	.85	0	PCT	16	P2	AV2	.00		TEC	TEH	.610	ZBARH	51	H	
34	25	1.37	0	PCT	18	P2	AV2	.00		TEC	TEH	.610	ZBARH	45	H	
34	25	1.79	0	PCT	21	P2	AV3	.00		TEC	TEH	.610	ZBARH	45	H	
37	27	.84	0	PCT	16	P2	AV3	.00		TEC	TEH	.610	ZBARH	51	H	
41	29	1.20	0	PCT	19	P2	AV3	.00		TEC	TEH	.610	ZBARH	35	H	
29	31	1.51	0	PCT	22	P2	AV3	.00		TEC	TEH	.610	ZBARH	43	H	RESULT OF HISTORY REVIEW
29	31	2.11	0	PCT	26	P2	AV4	.00		TEC	TEH	.610	ZBARH	43	H	RESULT OF HISTORY REVIEW
41	33	1.70	0	PCT	24	P2	AV2	.00		TEC	TEH	.610	ZBARH	35	H	
37	34	1.48	0	PCT	19	P2	AV2	.00		TEC	TEH	.610	ZBARH	33	H	
37	34	1.48	0	PCT	19	P2	AV3	.00		TEC	TEH	.610	ZBARH	33	H	
41	34	1.34	0	PCT	18	P2	AV3	.00		TEC	TEH	.610	ZBARH	33	H	
42	35	1.87	0	PCT	25	P2	AV2	.00		TEC	TEH	.610	ZBARH	35	H	
42	35	.80	0	PCT	15	P2	AV3	.00		TEC	TEH	.610	ZBARH	35	H	
33	36	1.12	0	PCT	16	P2	AV3	.00		TEC	TEH	.610	ZBARH	33	H	
43	36	2.07	0	PCT	23	P2	AV1	.00		TEC	TEH	.610	ZBARH	33	H	
43	36	3.80	0	PCT	35	P2	AV3	.00		TEC	TEH	.610	ZBARH	33	H	
32	37	.96	0	PCT	17	P2	AV3	.00		TEC	TEH	.610	ZBARH	35	H	
39	38	1.25	0	PCT	17	P2	AV3	.00		TEC	TEH	.610	ZBARH	33	H	
36	39	3.26	0	PCT	33	P2	AV2	.00		TEC	TEH	.610	ZBARH	35	H	
36	39	1.50	0	PCT	22	P2	AV3	.00		TEC	TEH	.610	ZBARH	35	H	
39	39	1.57	0	PCT	23	P2	AV2	.00		TEC	TEH	.610	ZBARH	35	H	
39	40	1.03	0	PCT	15	P2	AV3	.00		TEC	TEH	.610	ZBARH	37	H	
43	40	1.32	0	PCT	18	P2	AV1	.00		TEC	TEH	.610	ZBARH	33	H	
43	40	1.50	0	PCT	19	P2	AV2	.00		TEC	TEH	.610	ZBARH	33	H	
43	40	1.77	0	PCT	22	P2	AV3	.00		TEC	TEH	.610	ZBARH	33	H	
43	40	1.18	0	PCT	16	P2	AV4	.00		TEC	TEH	.610	ZBARH	33	H	
41	42	1.51	0	PCT	19	P2	AV2	-.13		TEC	TEH	.610	ZBARH	37	H	
41	42	1.16	0	PCT	16	P2	AV3	-.48		TEC	TEH	.610	ZBARH	37	H	
39	43	.91	0	PCT	16	P2	AV3	-.03		TEC	TEH	.610	ZBARH	39	H	
38	44	2.07	0	PCT	24	P2	AV2	.13		TEC	TEH	.610	ZBARH	37	H	
38	44	1.92	0	PCT	22	P2	AV3	.21		TEC	TEH	.610	ZBARH	37	H	
45	44	1.36	0	PCT	18	P2	AV2	.08		TEC	TEH	.610	ZBARH	37	H	
45	44	1.97	0	PCT	23	P2	AV3	.00		TEC	TEH	.610	ZBARH	37	H	
39	45	.92	0	PCT	16	P2	AV2	.19		TEC	TEH	.610	ZBARH	39	H	
39	45	1.49	0	PCT	22	P2	AV3	-.03		TEC	TEH	.610	ZBARH	39	H	
43	45	1.15	0	PCT	15	P2	AV2	.00		TEC	TEH	.610	ZBARH	33	H	

| ROW | COL | VOLTS | DEG | IND | PER | CHN | LOCN | INCH1 | INCH2 | BEGT | ENDT | PDIA | PTYPE | CAL | L | COM |

SG - D Anti-Vibration Bar Wear Indications

Braidwood 2 A2R11 CDE 20050401 04/28/2005 11:54:54

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
41	46	1.39	0	PCT	18	P2	AV2	.00		TEC	TEH	.610	ZBARH	37	H	
41	46	2.33	0	PCT	25	P2	AV3	-.48		TEC	TEH	.610	ZBARH	37	H	
45	46	2.44	0	PCT	26	P2	AV3	.00		TEC	TEH	.610	ZBARH	37	H	
45	46	1.28	0	PCT	17	P2	AV4	-.59		TEC	TEH	.610	ZBARH	37	H	
33	47	.81	0	PCT	15	P2	AV2	.22		TEC	TEH	.610	ZBARH	39	H	
39	47	1.66	0	PCT	23	P2	AV2	.22		TEC	TEH	.610	ZBARH	39	H	
39	47	2.03	0	PCT	26	P2	AV3	.11		TEC	TEH	.610	ZBARH	39	H	
42	47	2.24	0	PCT	27	P2	AV3	-.27		TEC	TEH	.610	ZBARH	39	H	
26	48	2.24	0	PCT	25	P2	AV2	.00		TEC	TEH	.610	ZBARH	37	H	
39	48	.98	0	PCT	14	P2	AV2	-.05		TEC	TEH	.610	ZBARH	37	H	
39	48	1.34	0	PCT	17	P2	AV3	.00		TEC	TEH	.610	ZBARH	37	H	
40	48	1.86	0	PCT	22	P2	AV2	.11		TEC	TEH	.610	ZBARH	37	H	
40	48	3.08	0	PCT	30	P2	AV3	.00		TEC	TEH	.610	ZBARH	37	H	
41	48	3.90	0	PCT	35	P2	AV2	.00		TEC	TEH	.610	ZBARH	37	H	
41	48	1.53	0	PCT	19	P2	AV3	.00		TEC	TEH	.610	ZBARH	37	H	
40	49	1.48	0	PCT	22	P2	AV2	-.14		TEC	TEH	.610	ZBARH	39	H	
41	49	3.71	0	PCT	35	P2	AV2	.05		TEC	TEH	.610	ZBARH	39	H	
41	49	.89	0	PCT	16	P2	AV3	-.46		TEC	TEH	.610	ZBARH	39	H	
26	50	1.08	0	PCT	15	P2	AV2	.24		TEC	TEH	.610	ZBARH	37	H	
45	50	1.80	0	PCT	21	P2	AV1	-.03		TEC	TEH	.610	ZBARH	37	H	
45	50	3.08	0	PCT	30	P2	AV2	.00		TEC	TEH	.610	ZBARH	37	H	
45	50	1.33	0	PCT	17	P2	AV3	.16		TEC	TEH	.610	ZBARH	37	H	
49	50	.73	0	PCT	11	P2	AV1	.00		TEC	TEH	.610	ZBARH	37	H	
37	51	1.34	0	PCT	20	P2	AV2	-.11		TEC	TEH	.610	ZBARH	39	H	
42	51	.89	0	PCT	16	P2	AV1	-.03		TEC	TEH	.610	ZBARH	39	H	
42	51	1.22	0	PCT	19	P2	AV2	.03		TEC	TEH	.610	ZBARH	39	H	
42	51	.81	0	PCT	15	P2	AV3	-.35		TEC	TEH	.610	ZBARH	39	H	
42	52	3.45	0	PCT	33	P2	AV2	.00		TEC	TEH	.610	ZBARH	37	H	
42	52	1.66	0	PCT	20	P2	AV3	-.45		TEC	TEH	.610	ZBARH	37	H	
44	56	1.67	0	PCT	23	P2	AV2	-.19		TEC	TEH	.610	ZBARH	39	H	
44	56	1.28	0	PCT	20	P2	AV3	.00		TEC	TEH	.610	ZBARH	39	H	
45	56	.62	0	PCT	12	P2	AV1	.00		TEC	TEH	.610	ZBARH	39	H	
45	56	1.90	0	PCT	25	P2	AV2	.00		TEC	TEH	.610	ZBARH	39	H	
45	56	2.96	0	PCT	32	P2	AV3	.00		TEC	TEH	.610	ZBARH	39	H	
46	56	1.23	0	PCT	19	P2	AV2	-.22		TEC	TEH	.610	ZBARH	39	H	
46	56	1.90	0	PCT	25	P2	AV3	-.27		TEC	TEH	.610	ZBARH	39	H	
40	62	1.56	0	PCT	19	P2	AV2	.00		TEC	TEH	.610	ZBARH	17	H	
49	63	1.00	0	PCT	13	P2	AV4	.00		TEC	TEH	.610	ZBARH	17	H	
38	64	1.84	0	PCT	21	P2	AV2	.13		TEC	TEH	.610	ZBARH	17	H	
38	64	3.10	0	PCT	30	P2	AV3	.00		TEC	TEH	.610	ZBARH	17	H	
41	65	2.00	0	PCT	26	P2	AV3	.00		TEC	TEH	.610	ZBARH	19	H	RESULT OF HISTORY REVIEW
49	65	1.21	0	PCT	16	P2	AV1	-.13		TEC	TEH	.610	ZBARH	17	H	
49	66	1.23	0	PCT	16	P2	AV1	.00		TEC	TEH	.610	ZBARH	17	H	
38	67	1.81	0	PCT	21	P2	AV3	.00		TEC	TEH	.610	ZBARH	17	H	
41	67	1.12	0	PCT	15	P2	AV3	.00		TEC	TEH	.610	ZBARH	17	H	
39	68	1.24	0	PCT	19	P2	AV2	.00		TEC	TEH	.610	ZBARH	19	H	RESULT OF HISTORY REVIEW
39	68	.93	0	PCT	16	P2	AV3	.00		TEC	TEH	.610	ZBARH	19	H	RESULT OF HISTORY REVIEW
39	70	.90	0	PCT	16	P2	AV2	.00		TEC	TEH	.610	ZBARH	15	H	
39	70	1.13	0	PCT	19	P2	AV3	-.02		TEC	TEH	.610	ZBARH	15	H	

| ROW | COL | VOLTS | DEG | IND | PER | CHN | LOCN | INCH1 | INCH2 | BEGT | ENDT | PDIA | PTYPE | CAL | L | COM |

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
37	74	1.26	0	PCT	16	P2	AV1	-.13		TEC	TEH	.610	ZBARH	5	H	
37	74	1.22	0	PCT	16	P2	AV2	.08		TEC	TEH	.610	ZBARH	5	H	
37	74	1.23	0	PCT	16	P2	AV3	-.10		TEC	TEH	.610	ZBARH	5	H	
35	75	1.49	0	PCT	22	P2	AV3	.15		TEC	TEH	.610	ZBARH	7	H	RESULT OF HISTORY REVIEW
41	76	1.40	0	PCT	19	P2	AV2	.00		TEC	TEH	.610	ZBARH	13	H	
35	79	1.15	0	PCT	19	P2	AV2	.00		TEC	TEH	.610	ZBARH	11	H	
35	79	3.81	0	PCT	36	P2	AV3	.00		TEC	TEH	.610	ZBARH	11	H	
35	79	.89	0	PCT	16	P2	AV4	.00		TEC	TEH	.610	ZBARH	11	H	
34	82	1.44	0	PCT	18	P2	AV2	.00		TEC	TEH	.610	ZBARH	9	H	
42	82	1.12	0	PCT	15	P2	AV2	-.28		TEC	TEH	.610	ZBARH	13	H	
42	82	1.21	0	PCT	17	P2	AV3	.00		TEC	TEH	.610	ZBARH	13	H	
43	82	1.13	0	PCT	15	P2	AV2	-.23		TEC	TEH	.610	ZBARH	13	H	
35	84	1.37	0	PCT	16	P2	AV2	.00		TEC	TEH	.610	ZBARH	9	H	
35	84	1.72	0	PCT	20	P2	AV4	.00		TEC	TEH	.610	ZBARH	9	H	
41	84	1.98	0	PCT	24	P2	AV3	.00		TEC	TEH	.610	ZBARH	13	H	
43	84	2.23	0	PCT	25	P2	AV3	.00		TEC	TEH	.610	ZBARH	13	H	
42	85	.87	0	PCT	16	P2	AV2	.00		TEC	TEH	.610	ZBARH	15	H	
42	85	1.53	0	PCT	22	P2	AV3	.00		TEC	TEH	.610	ZBARH	15	H	
43	86	1.15	0	PCT	15	P2	AV2	.05		TEC	TEH	.610	ZBARH	13	H	
44	86	2.02	0	PCT	24	P2	AV2	.00		TEC	TEH	.610	ZBARH	13	H	
44	92	.90	0	PCT	13	P2	AV4	-.10		TEC	TEH	.610	ZBARH	21	H	
36	93	.88	0	PCT	16	P2	AV1	.15		TEC	TEH	.610	ZBARH	23	H	
36	93	.95	0	PCT	17	P2	AV3	.05		TEC	TEH	.610	ZBARH	23	H	
39	93	.90	0	PCT	16	P2	AV2	.05		TEC	TEH	.610	ZBARH	23	H	
39	96	1.89	0	PCT	23	P2	AV2	.05		TEC	TEH	.610	ZBARH	21	H	
39	96	1.21	0	PCT	16	P2	AV3	-.03		TEC	TEH	.610	ZBARH	21	H	
35	97	1.39	0	PCT	21	P2	AV2	-.07		TEC	TEH	.610	ZBARH	23	H	
38	97	1.54	0	PCT	22	P2	AV1	.17		TEC	TEH	.610	ZBARH	23	H	
38	97	1.24	0	PCT	20	P2	AV2	.02		TEC	TEH	.610	ZBARH	23	H	
38	97	1.35	0	PCT	21	P2	AV3	.10		TEC	TEH	.610	ZBARH	23	H	
40	97	1.33	0	PCT	18	P2	AV2	-.20		TEC	TEH	.610	ZBARH	21	H	
40	97	1.63	0	PCT	20	P2	AV3	-.13		TEC	TEH	.610	ZBARH	21	H	
30	101	1.29	0	PCT	17	P2	AV2	.00		TEC	TEH	.610	ZBARH	21	H	
30	101	1.10	0	PCT	15	P2	AV3	-.23		TEC	TEH	.610	ZBARH	21	H	

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM

Tubes: 82 Records: 133

Attachment B.6

Tubes Containing Preheater Wear

CDE-B PREHEATER WEAR INDICATIONS

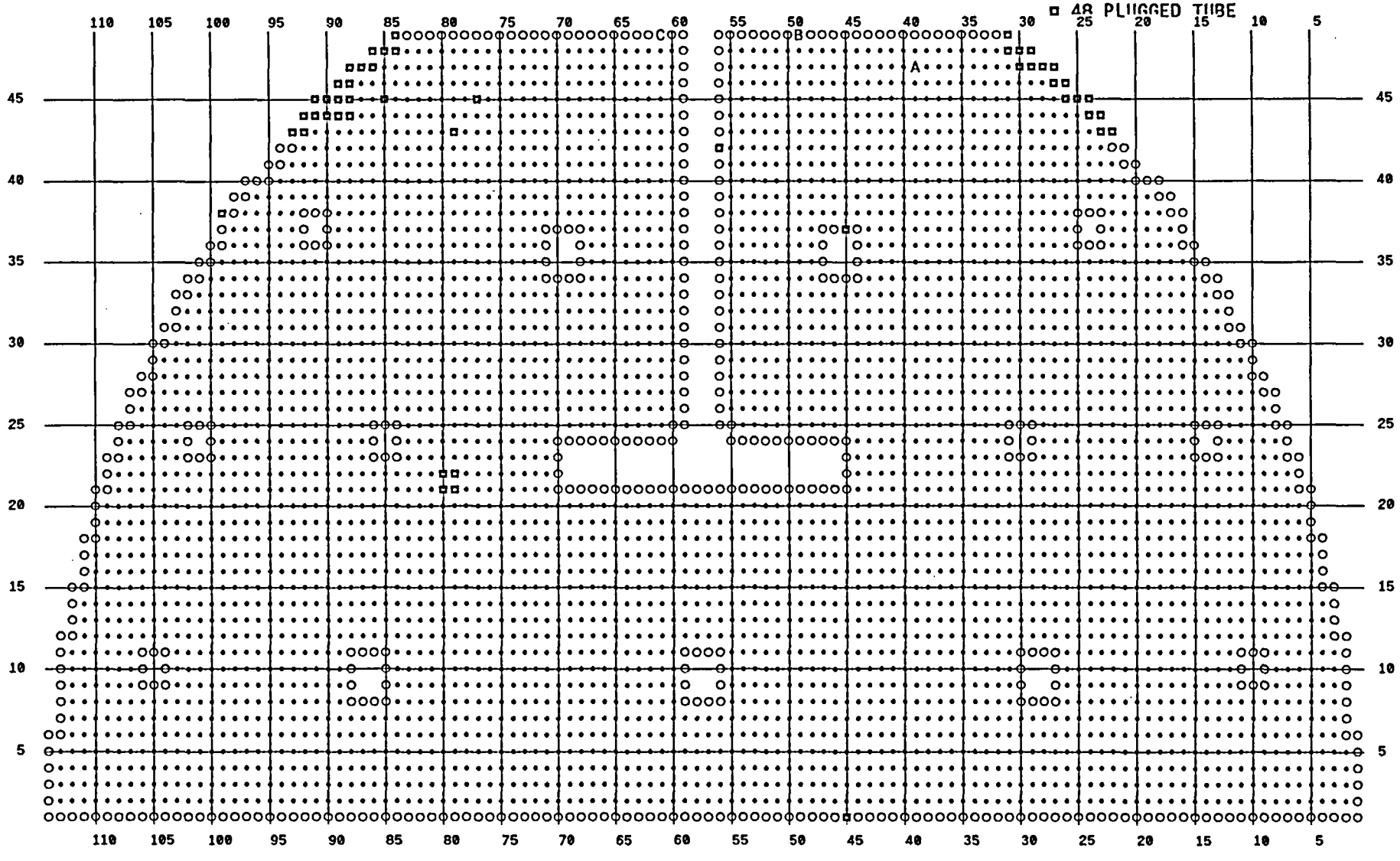
Braidwood A2R11 CDE D5

A 1 PREHEATER WEAR INDICATION OF 4 PERCENT AT 03C

B 1 PREHEATER WEAR INDICATION OF 4 PERCENT AT 05C

C 1 PREHEATER WEAR INDICATION OF 19 PERCENT AT 07C

□ 48 PLUGGED TUBE



Westinghouse Electric Company LLC - ST Max 04/26/2005 17:39:54

SG - B Preheater Wear Indications

Braidwood 2 A2R11 CDE 20050401 04/28/2005 11:51:43

INSPDATE	ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
	47	39	.11	0	PCT	4	P2	03C	.00		TEC	TEH	.610	ZBARH	79	H	
2003/11/01	47	39	.84	0	RWS		P2	03C	-.31		TEH	TEC	.610	RBARH	20	C	RESULT OF HISTORY REVIEW
2003/11/01	47	39	.14	0	PCT	4	P3	03C	-.27		TEH	TEC	.610	RBARH	70	C	
2003/11/01	47	39	.31	116	VOL		P1	03C	-.40		03C	03C	.610	ZPSNH	76	C	RESULT OF RESOLUTION PROCESS
	49	49	.11	0	PCT	4	P2	05C	.00		TEC	TEH	.610	ZBARH	79	H	
2003/11/01	49	49	2.26	180	DNT		P1	AV2	.19		TEH	TEC	.610	RBARH	16	C	RESULT OF RESOLUTION PROCESS
2003/11/01	49	49	2.25	184	DNT		P1	AV3	-.08		TEH	TEC	.610	RBARH	16	C	RESULT OF RESOLUTION PROCESS
2003/11/01	49	49	.71	125	DSS		P1	05C	-.24		TEH	TEC	.610	RBARH	16	C	RESULT OF HISTORY REVIEW
	49	61	.71	0	PCT	19	P2	07C	.00		TEC	TEH	.610	ZBARH	79	H	
2003/11/01	49	61			NDD						TSH	TSH	.610	ZPSNH	5	H	
2003/11/01	49	61	4.23	0	RWS		P2	07C	.47		TEH	TEC	.610	RBARH	40	C	RESULT OF HISTORY REVIEW
2003/11/01	49	61	2.62	77	MBM		6	07C	9.38		TEH	TEC	.610	RBARH	40	C	EARLIEST NON-HF BOBBIN EXAM COMPARED - NO CHANGE
2003/11/01	49	61															RESULT OF HISTORY REVIEW
2003/11/01	49	61	.79	0	PCT	18	P3	07C	.05		TEH	TEC	.610	RBARH	70	C	
2003/11/01	49	61			PBC			07C	9.38		TEH	TEC	.610	RBARH	70	C	RESULT OF RESOLUTION PROCESS
2003/11/01	49	61	1.65	97	VOL		2	07C	-.01		07C	07C	.610	ZPSNH	78	C	
2003/11/01	49	61			PRC						07C	07C	.610	ZPSNH	80	C	

| INSPDATE | ROW | COL | VOLTS | DEG | IND | PER | CHN | LOCN | INCH1 | INCH2 | BEGT | ENDT | PDIA | PTYPE | CAL | L | COM |

Tubes: 3 Records: 16

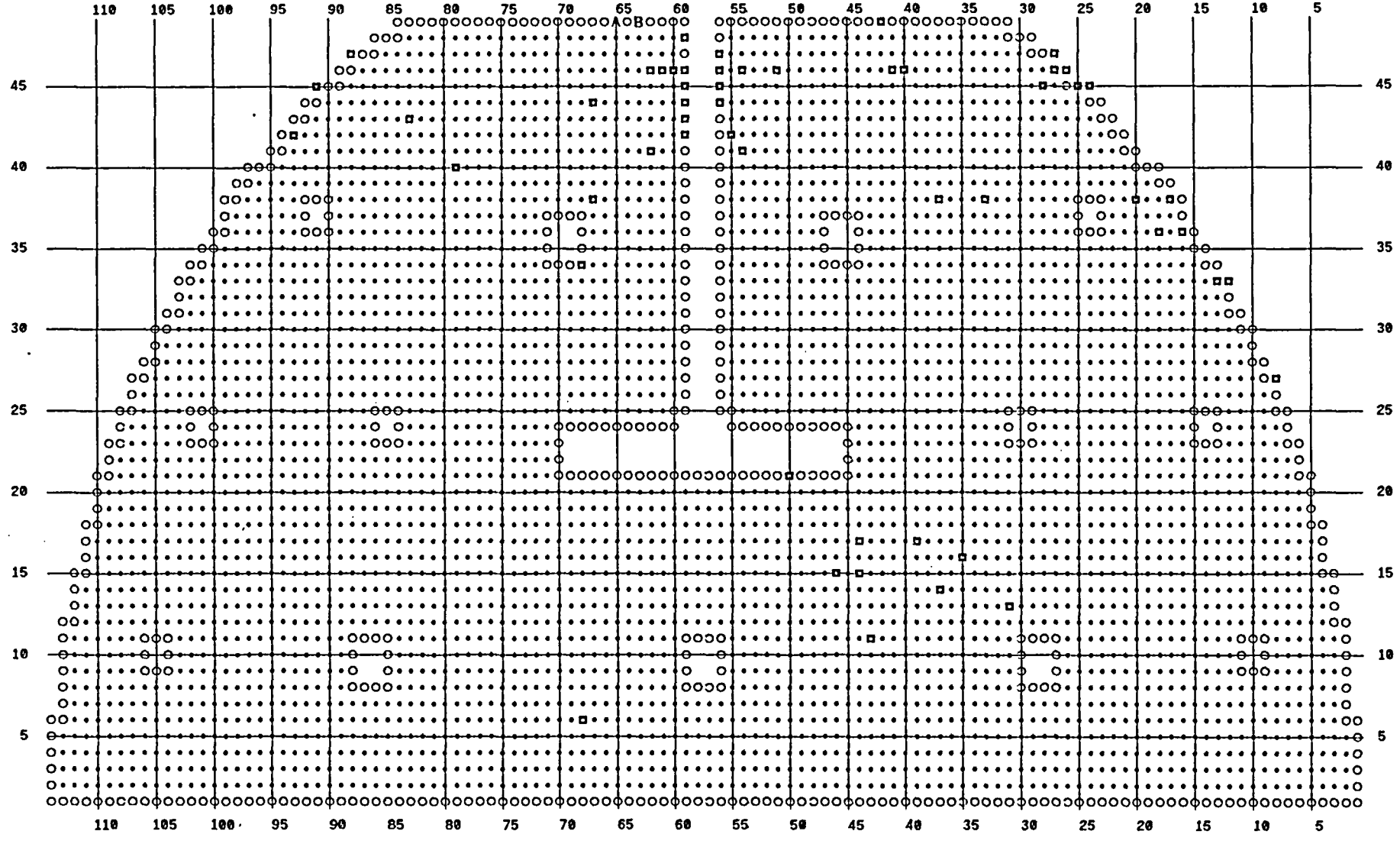
CDE-C PREHEATER WEAR INDICATIONS

Braidwood A2R11 CDE D5

A 1 PREHEATER WEAR INDICATION OF 11 PERCENT AT 07C

B 1 PREHEATER WEAR INDICATION OF 21 PERCENT AT 07C

□ 54 PLUGGED TUBE



Westinghouse Electric Company LLC - ST Max 04/29/2005 13:17:42

SG - C Preheater Wear Indications

Braidwood 2 A2R11 CDE 20050401 04/28/2005 11:51:45

INSPDATE	ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
	49	63	.82	0	PCT	21	P2	07C	-.16		TEC	TEH	.610	ZBARH	65	H	
2003/11/01	49	63			RBD						TEH	TEC	.610	RBARH	30	C	
2003/11/01	49	63			NDD						02C	02C	.610	ZPSNM	62	C	
2003/11/01	49	63			NDD						03C	03C	.610	ZPSNM	62	C	
2003/11/01	49	63	2.65	181	DNT		P1	AV3	-.08		TEH	TEC	.610	RBARH	64	C	RESULT OF RESOLUTION PROCESS
2003/11/01	49	63	4.44	179	DNT		P1	AV4	.03		TEH	TEC	.610	RBARH	64	C	RESULT OF RESOLUTION PROCESS
2003/11/01	49	63	6.80	0	RWS		P2	07C	-.42		TEH	TEC	.610	RBARH	64	C	RESULT OF RESOLUTION PROCESS
2003/11/01	49	63	6.68	0	RWS		P2	07C	.54		TEH	TEC	.610	RBARH	64	C	RESULT OF RESOLUTION PROCESS
2003/11/01	49	63	2.39	179	DNT		P1	AV3	-.14		TEH	TEC	.610	RBARH	72	C	RESULT OF RESOLUTION PROCESS
2003/11/01	49	63	4.50	177	DNT		P1	AV4	.00		TEH	TEC	.610	RBARH	72	C	RESULT OF RESOLUTION PROCESS
2003/11/01	49	63	.68	0	PCT	17	P3	07C	.20		TEH	TEC	.610	RBARH	72	C	
2003/11/01	49	63	1.61	109	VOL		2	07C	.00		07C	07C	.610	ZPSNM	74	C	RESULT OF RESOLUTION PROCESS
	49	65	.33	0	PCT	11	P2	07C	-.11		TEC	TEH	.610	ZBARH	65	H	
2003/11/01	49	65	3.97	178	DNT		P1	AV4	.00		TEH	TEC	.610	RBARH	30	C	RESULT OF RESOLUTION PROCESS
2003/11/01	49	65	2.30	0	RWS		P2	07C	.43		TEH	TEC	.610	RBARH	30	C	RESULT OF HISTORY REVIEW
2003/11/01	49	65	3.63	177	DNT		P1	AV4	.00		TEH	TEC	.610	RBARH	72	C	RESULT OF RESOLUTION PROCESS
2003/11/01	49	65	.28	0	PCT	8	P3	07C	.08		TEH	TEC	.610	RBARH	72	C	
2003/11/01	49	65	.90	131	VOL		2	07C	-.46		07C	07C	.610	ZPSNM	74	C	RESULT OF RESOLUTION PROCESS

INSPDATE	ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM

Tubes: 2 Records: 18

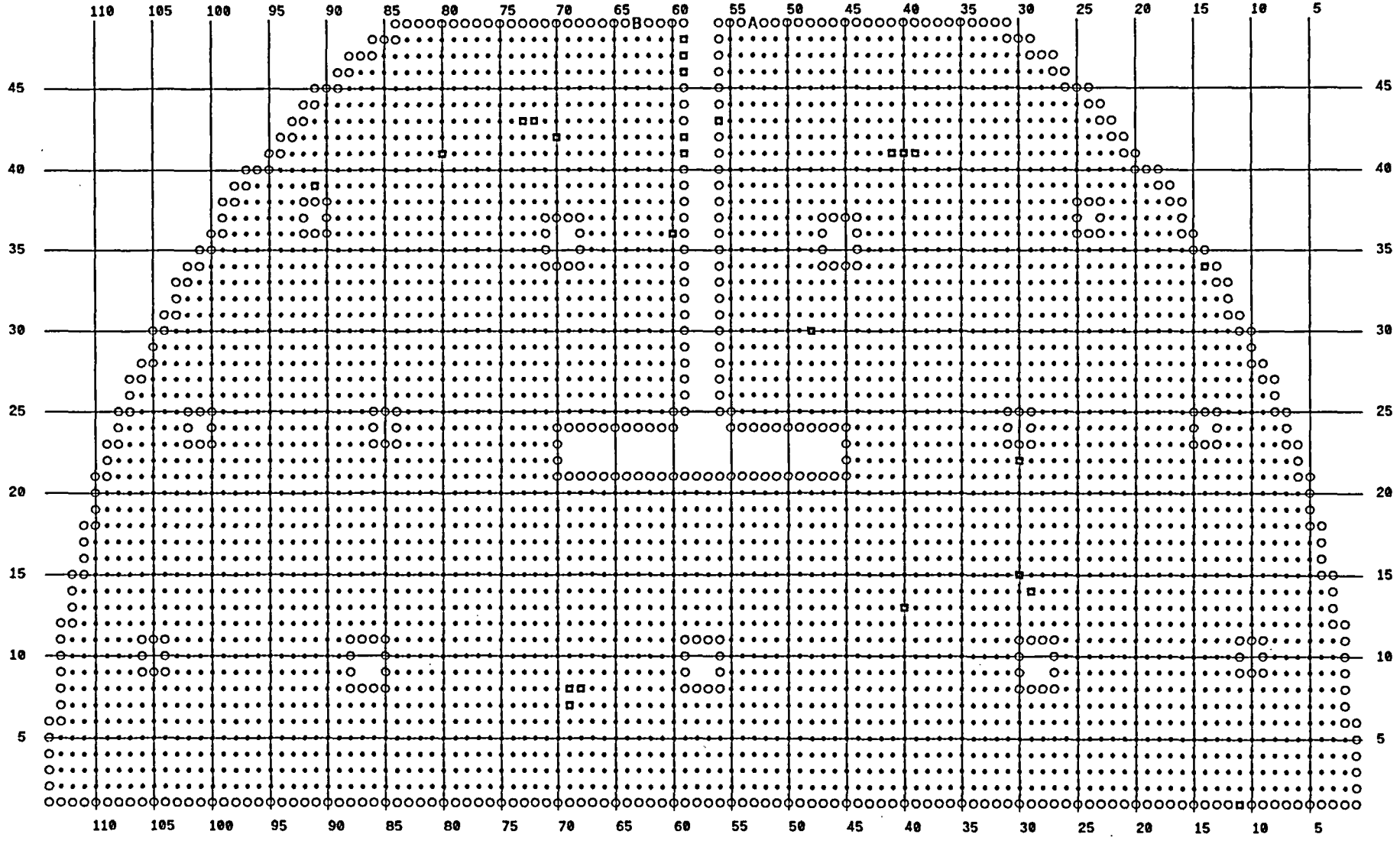
CDE-D PREHEATER WEAR INDICATIONS

Braidwood A2R11 CDE D5

A 1 PREHEATER WEAR INDICATION OF 9 PERCENT AT 07C

B 1 PREHEATER WEAR INDICATION OF 11 PERCENT AT 07C

▫ 25 PLUGGED TUBE



INSPDATE	ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
	49	53	.40	0	PCT	9	P2	07C	-.10		TEC	TEH	.610	ZBARH	79	H	
2003/11/01	49	53	5.71	182	DNT		P1	AV2	.00		TEH	TEC	.610	RBARH	10	C	
2003/11/01	49	53	6.16	183	DNT		P1	AV3	.00		TEH	TEC	.610	RBARH	10	C	
2003/11/01	49	53	2.00	0	RWS		P2	07C	.45		TEH	TEC	.610	RBARH	10	C	RESULT OF RESOLUTION PROCESS
2003/11/01	49	53	6.05	183	DNT		P1	AV2	.08		TEH	TEC	.610	RBARH	70	C	
2003/11/01	49	53	5.85	185	DNT		P1	AV3	-.05		TEH	TEC	.610	RBARH	70	C	
2003/11/01	49	53	.28	0	PCT	7	P3	07C	.45		TEH	TEC	.610	RBARH	70	C	
2003/11/01	49	53	.69	119	VOL		2	07C	.45		07C	07C	.610	ZPSNM	84	C	RESULT OF RESOLUTION PROCESS
	49	63	.51	0	PCT	11	P2	07C	-.02		TEC	TEH	.610	ZBARH	79	H	
2003/11/01	49	63	1.35	0	PCT	17	P2	AV4	-.10		TEH	TEC	.610	RBARH	18	C	
2003/11/01	49	63	3.78	0	RWS		P2	07C	.43		TEH	TEC	.610	RBARH	18	C	RESULT OF HISTORY REVIEW
2003/11/01	49	63			PBC						TEH	TEC	.610	RBARH	70	C	RESULT OF RESOLUTION PROCESS
2003/11/01	49	63	.44	0	PCT	10	P3	07C	.40		TEH	TEC	.610	RBARH	70	C	
2003/11/01	49	63	1.04	108	VOL		2	07C	.40		07C	07C	.610	ZPSNM	84	C	FAILED DQM, DEEMED ACCEPTABLE BY ANALYSIS
2003/11/01	49	63															RESULT OF RESOLUTION PROCESS

| INSPDATE | ROW | COL | VOLTS | DEG | IND | PER | CHN | LOCN | INCH1 | INCH2 | BEGT | ENDT | PDIA | PTYPE | CAL | L | COM |

Attachment B.7

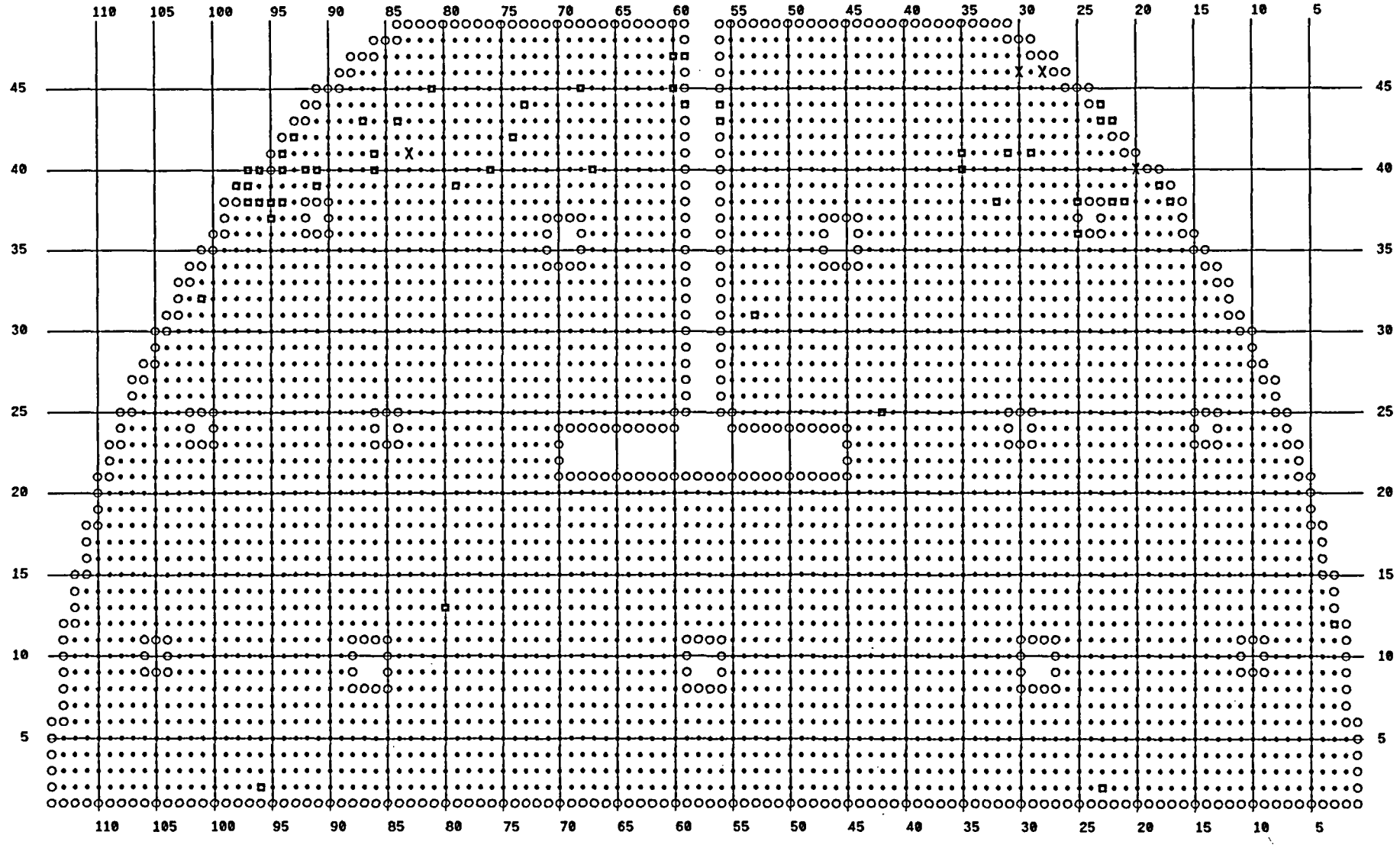
Tubes Plugged During A2R11

CDE-A TUBES PLUGGED DURING A2R11

Braidwood A2R11 CDE D5

X 4 PLUGGED DURING A2R11

▫ 53 EXISTING PLUGGED TUBE



INSPDATE	ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	CRLEN	CRWID	CEG	I	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
	40	29	5.68	0	PCT	44	P2	AV2	.00						TEC	TEH	.610	ZBARH	37	H	
	40	29	3.47	0	PCT	33	P2	AV3	.00						TEC	TEH	.610	ZBARH	37	H	
	40	29	5.22	0	PID		P2	AV2	.00						TEC	TEH	.610	ZBARH	79	H	
2003/11/01	40	29			NDD										TSH	TSH	.610	ZPSNM	11	H	
2003/11/01	40	29	4.52	0	PCT	39	P2	AV2	.00						TEH	TEC	.610	RBARH	14	C	
2003/11/01	40	29	2.67	0	PCT	29	P2	AV3	.00						TEH	TEC	.610	RBARH	14	C	
2002/04/01	40	29	4.59	0	PCT	39	P2	AV2	-.11						TEC	TEH	.610	MBART	3	H	
2002/04/01	40	29	2.64	0	PCT	31	P2	AV3	.06						TEC	TEH	.610	MBART	3	H	
2000/10/01	40	29	4.71	0	PCT	39	P2	AV2	.00						TEH	TEC	.610	MBARH	12	C	RESULT OF RESOLUTION PROCESS
2000/10/01	40	29	2.84	0	PCT	29	P2	AV3	.00						TEH	TEC	.610	MBARH	12	C	RESULT OF RESOLUTION PROCESS
2000/10/01	40	29	3.62	0	PCT	34	P4	AV2	.00						AV2	AV2	.500	ZPUFE	55	H	
1999/05/01	40	29	3.31	0	PCT	34	P2	AV2	.00						TEH	TEC	.610	MBALL	14	C	
1999/05/01	40	29	1.88	0	PCT	24	P2	AV3	.00						TEH	TEC	.610	MBALL	14	C	
1997/10/01	40	29	3.52		PCT	35	P2	AV2	.00						TEC	TEH	.610	EBALL	7		
1997/10/01	40	29	2.21		PCT	27	P2	AV3	.00						TEC	TEH	.610	EBALL	7		
1997/10/01	40	29			NDD		1								TSH	TSH	.610	ZPSHF	66		
1996/03/01	40	29			NDD		1								TSH	TSH	.610	Z3AJC	15		
1996/03/01	40	29	3.01		PCT	33	M2	AV2	.00						TEH	TEC	.610	EBALL	18		
1996/03/01	40	29	1.54		PCT	23	M2	AV3	.00						TEH	TEC	.610	EBALL	18		RESULT OF DISCREPANCY RESOLUTION
1993/03/01	40	29	1.71		PCT	23	M2	AV2	.00						TEH	TEC	.610	EBAMB	68		
1991/10/01	40	29			NDD		1								TEC	TEH	.610	EBAMB	8		
1990/04/01	40	29			NDD		1								TEC	TEH	.610	EBAMB	7		
	46	28	5.02	0	PCT	41	P2	AV2	-.47						TEC	TEH	.610	ZBARH	19	H	
	46	28	4.11	0	PCT	37	P2	AV3	.00						TEC	TEH	.610	ZBARH	19	H	
	46	28	2.86	0	PCT	30	P2	AV4	.00						TEC	TEH	.610	ZBARH	19	H	
	46	28	4.72	0	PID		P2	AV2	-.47						TEC	TEH	.610	ZBARH	79	H	
2003/11/01	46	28	3.58	0	PCT	33	P2	AV2	.00						TEH	TEC	.610	RBARH	10	C	
2003/11/01	46	28	3.17	0	PCT	31	P2	AV3	.00						TEH	TEC	.610	RBARH	10	C	
2003/11/01	46	28	2.23	0	PCT	24	P2	AV4	.00						TEH	TEC	.610	RBARH	10	C	
2002/04/01	46	28	3.47	0	PCT	35	P2	AV2	-.14						TEC	TEH	.610	MBART	3	H	RESULT OF RESOLUTION PROCESS
2002/04/01	46	28	3.31	0	PCT	34	P2	AV3	.11						TEC	TEH	.610	MBART	3	H	RESULT OF RESOLUTION PROCESS
2002/04/01	46	28	2.36	0	PCT	29	P2	AV4	.06						TEC	TEH	.610	MBART	3	H	RESULT OF RESOLUTION PROCESS
2000/10/01	46	28			NDD										TSH	TSH	.610	ZPANM	7	H	
2000/10/01	46	28	3.32	0	PCT	33	P2	AV2	.00						TEH	TEC	.610	MBARH	14	C	RESULT OF RESOLUTION PROCESS
2000/10/01	46	28	3.48	0	PCT	33	P2	AV3	.00						TEH	TEC	.610	MBARH	14	C	RESULT OF RESOLUTION PROCESS
2000/10/01	46	28	2.59	0	PCT	28	P2	AV4	.00						TEH	TEC	.610	MBARH	14	C	RESULT OF RESOLUTION PROCESS
1999/05/01	46	28	2.43	0	PCT	28	P2	AV2	.00						TEH	TEC	.610	MBALL	2	C	
1999/05/01	46	28	2.47	0	PCT	29	P2	AV3	.00						TEH	TEC	.610	MBALL	2	C	
1999/05/01	46	28	1.88	0	PCT	23	P2	AV4	.00						TEH	TEC	.610	MBALL	2	C	
1997/10/01	46	28	1.99		PCT	24	P2	AV2	.08						TEC	TEH	.610	EBALL	13		
1997/10/01	46	28	2.81		PCT	30	P2	AV3	-.08						TEC	TEH	.610	EBALL	13		
1997/10/01	46	28	1.89		PCT	23	P2	AV4	-.03						TEC	TEH	.610	EBALL	13		
1997/10/01	46	28			NDD		1								TSH	TSH	.610	ZPSHF	67		
1996/03/01	46	28			NDD		1								TSH	TSH	.610	Z3AJC	17		
1996/03/01	46	28	1.63		PCT	25	M2	AV2	-.09						TEH	TEC	.610	EBALL	22		
1996/03/01	46	28	2.45		PCT	38	M2	AV3	-.15						TEH	TEC	.610	EBALL	22		
1996/03/01	46	28	1.38		PCT	22	M2	AV4	.00						TEH	TEC	.610	EBALL	22		
1993/03/01	46	28	.93		PCT	17	M2	AV2	.00						11C	TEH	.610	EBALL	6		RESULT OF DISCREPANCY RESOLUTION
1993/03/01	46	28	1.58		PCT	23	M2	AV3	.00						11C	TEH	.610	EBALL	6		RESULT OF DISCREPANCY RESOLUTION
1991/10/01	46	28			NDD		1								TEC	TEH	.610	EBAMB	12		
1990/04/01	46	28			NDD		1								TEC	TEH	.610	EBAMB	12		
	46	30	5.81	0	PCT	44	P2	AV2	-.11						TEC	TEH	.610	ZBARH	19	H	
	46	30	1.77	0	PCT	22	P2	AV3	.00						TEC	TEH	.610	ZBARH	19	H	
	46	30	4.66	63	MBM		6	AV3	21.11						TEC	TEH	.610	ZBARH	19	H	RESULT OF HISTORY REVIEW
	46	30	5.44	0	PID		P2	AV2	-.11						TEC	TEH	.610	ZBARH	79	H	
2003/11/01	46	30	3.98	0	PCT	36	P2	AV2	-.11						TEH	TEC	.610	RBARH	10	C	
2003/11/01	46	30	1.42	0	PCT	17	P2	AV3	.00						TEH	TEC	.610	RBARH	10	C	
2003/11/01	46	30	4.58	67	MBM		6	AV3	21.83						TEH	TEC	.610	RBARH	10	C	EARLIEST NON-MF BOBBIN EXAM COMPARED - NO CHANGE
2003/11/01	46	30																			RESULT OF HISTORY REVIEW
2003/11/01	46	30			NDD										TSH	TSH	.610	ZPSNM	11	H	
2002/04/01	46	30	3.15	0	PCT	33	P2	AV2	-.14						TEC	TEH	.610	MBART	3	H	RESULT OF RESOLUTION PROCESS
2002/04/01	46	30	1.63	0	PCT	23	P2	AV3	-.11						TEC	TEH	.610	MBART	3	H	RESULT OF RESOLUTION PROCESS
2002/04/01	46	30	3.99	71	MBM		6	AV3	21.83						TEC	TEH	.610	MBART	3	H	RESULT OF RESOLUTION PROCESS
2000/10/01	46	30	1.99	82	INR		6	05H	10.05						TEH	TEC	.610	MBARH	12	C	RESULT OF RESOLUTION PROCESS
2000/10/01	46	30	2.48	0	PCT	27	P2	AV2	.00						TEH	TEC	.610	MBARH	12	C	RESULT OF RESOLUTION PROCESS
2000/10/01	46	30	1.06	0	PCT	15	P2	AV3	.00						TEH	TEC	.610	MBARH	12	C	
2000/10/01	46	30	4.28	65	MBM		6	AV3	21.43						TEH	TEC	.610	MBARH	12	C	
1999/05/01	46	30	1.32	86	MBM		6	05H	10.05						TEH	TEC	.610	MBALL	4	C	
1999/05/01	46	30	2.11	0	PCT	27	P2	AV2	.00						TEH	TEC	.610	MBALL	4	C	
1999/05/01	46	30	.62	0	INR		P2	AV3	.00						TEH	TEC	.610	MBALL	4	C	
1999/05/01	46	30	2.61	71	MBM		6	AV3	21.39						TEH	TEC	.610	MBALL	4	C	
1997/10/01	46	30	1.35	80	MBM		6	05H	10.00						TEC	TEH	.610	EBALL	13		PREVIOUS HISTORY - NO CHANGE
1997/10/01	46	30	1.62		PCT	21	P2	AV2	.00						TEC	TEH	.610	EBALL	13		
1997/10/01	46	30	2.29		PCT	26	P2	AV3	.14						TEC	TEH	.610	EBALL	13		
1997/10/01	46	30			NDD		1								TSH	TSH	.610	ZPSHF	71		
1996/03/01	46	30			NDD		1								TSH	TSH	.610	Z3AJC	17		
1996/03/01	46	30	3.10	66	MBM		6	05H	9.85						TEH	TEC	.610	EBALL	24		
1996/03/01	46	30	1.36		PCT	22	M2	AV3	.00						TEH	TEC	.610	EBALL	24		RESULT OF DISCREPANCY RESOLUTION
1993/03/01	46	30	2.74	88	MBM		6	05H	9.97	11.26					11C	TEH	.610	EBALL	5		RESULT OF DISCREPANCY RESOLUTION
1993/03/01	46	30	5.22	83	MBM		6	AV3	20.80	22.04					11C	TEH	.610	EBALL	5		RESULT OF DISCREPANCY RESOLUTION
1991/10/01	46	30			NDD		1								TEC	TEH	.610	EBAMB	15		RESULT OF DISCREPANCY RESOLUTION
1990/04/01	46	30			NDD		1								TEC	TEH	.610	EBAMB	13		
	41	83	4.71	0	PCT	40	P2	AV2	.00						TEC	TEH	.610	ZBARH	59	H	
	41	83	4.33	0	PID		P2	AV2	.00						TEC	TEH	.610	ZBARH	79	H	
	41	83	4.44	0	PID		P2	AV2	.00						TEC	TEH	.610	ZBARH	109	H	
	41	83			NDD										TSH	TSH	.610	ZPSNM	127	H	
2003/11/01	41	83	3.32	0	PCT	35	P2	AV2	.03						TEH	TEC	.610	RBARH	20	C	
2002/04/01	41	83	1.63	0	PCT	22	P2	AV2	.35						TEH	TEC	.610	MBART	8	C	
2000/10/01	41	83	1.06	0	PCT	15	P2	AV2	.00						TEH	TEC	.610	MBARH	8	C	RESULT OF RESOLUTION PROCESS
2000/10/01	41	83			NDD										TSH	TSH	.610	ZPANM	27	H	
1999/05/01	41	83			NDD										TEH	TEC	.610	MBALL	44	C	
1997/10/01	41	83			NDD		1								TEC	TEH	.610	EBALL	55		
1997/10/01	41	83			NDD		1								TSH	TSH	.610	ZPSHF	88		
1996/03/01	41	83			NDD		1								TSH	TSH	.610	Z3AJC	39		
1996/03/01	41	83			NDD		1								TEH	TEC	.610	EBALL	56		
1993/03/01	41	83			NDD		1								11C	TEH	.610	EBAMB	42		
1991/10/01	41	83			NDD		1								TEC	TEH	.610	EBAMB	40		
1990/04/01	41	83			NDD		1								TEC	TEH	.610	EBAMB	46		

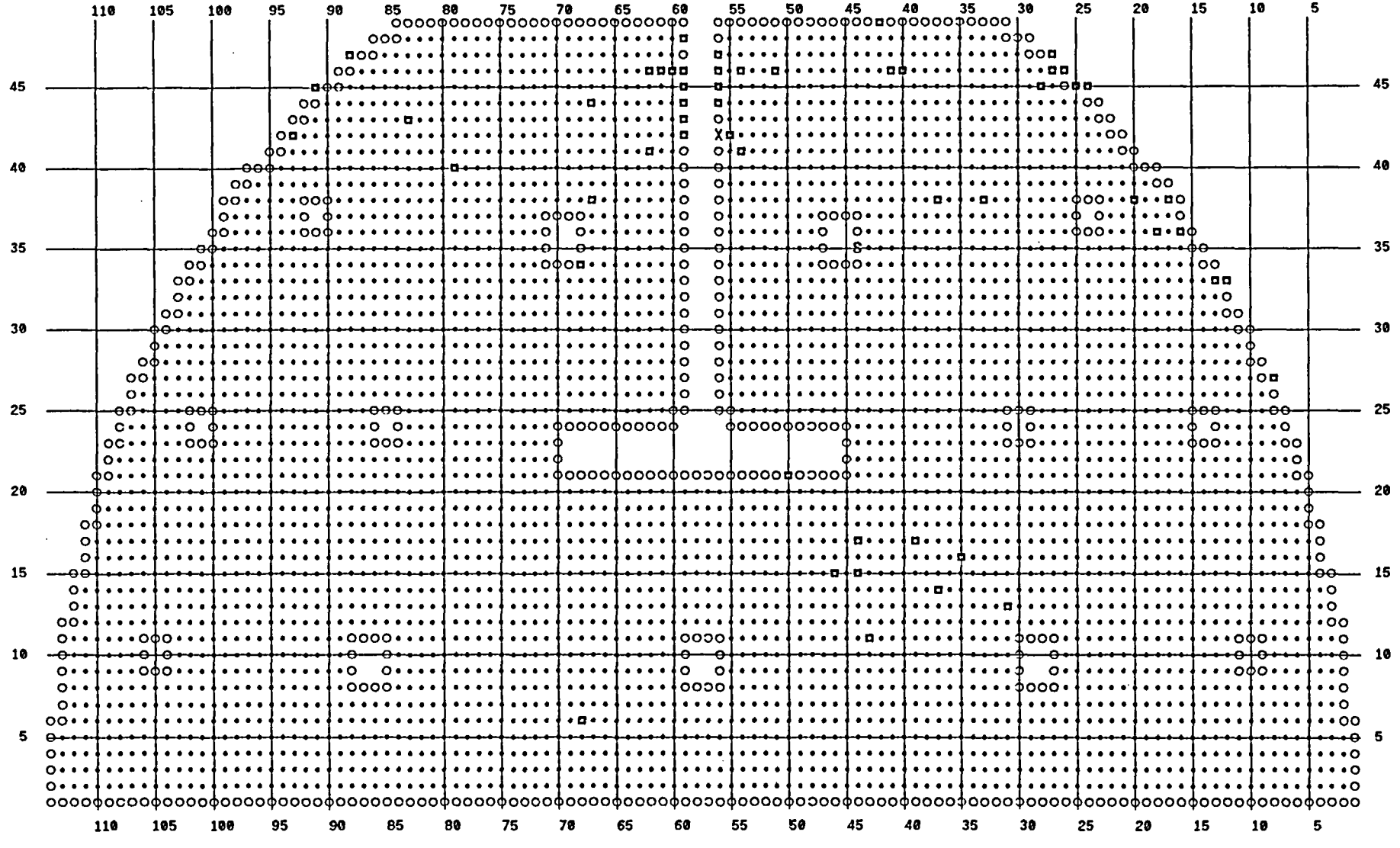
CDE-C TUBES PLUGGED DURING A2R11

Braidwood A2R11 CDE D5

S 1 STABILIZED IN THE HOT LEG AND PLUGGED DURING A2R11

X 1 PLUGGED DURING A2R11

□ 54 EXISTING PLUGGED TUBE



INSPDATE	ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	CRLEN	CRWID	CEG	I	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM
	35	44	.28	129	DFI		1	07H	42.15						TEC	TEH	.610	ZBARH	11	H	RESULT OF HISTORY REVIEW
	35	44	.16	68	SVI		2	08H	-.85						08H	08H	.610	ZPSNM	131	H	
	35	44	.03	234	PLP		11	08H	-.76						08H	08H	.610	ZPSNM	131	H	
	35	44	.22	251	PCT	24	2	08H	-.76		.26	.34	51		08H	08H	.610	ZPSNM	131	H	
	35	44	.24	65	PID		2	08H	-.85						08H	08H	.610	ZPSNM	139	H	
2003/11/01	35	44			NDD										TSH	TSH	.610	ZPSNM	5	H	
2003/11/01	35	44			NDD										TEH	TEC	.610	RBARH	12	C	
2000/10/01	35	44			NDD										TEH	TEC	.610	MBARH	12	C	
1999/05/01	35	44			NDD										TSH	TSH	.610	ZPAHF	6	H	
1999/05/01	35	44			NDD										TEH	TEC	.610	MBALL	18	C	
1997/10/01	35	44			NDD		1								TSH	TSH	.610	ZPSHF	46		
1997/10/01	35	44			NDD		1								TEC	TEH	.610	EBALL	89		
1996/03/01	35	44			NDD		1								TEH	TEC	.610	EBALL	12		
1994/10/01	35	44			NDD		1								TEC	TEH	.610	EBAMB	37		
1993/03/01	35	44			NDD		1								TEC	TEH	.610	EBAMB	20		
1991/10/01	35	44			NDD		1								TEC	TEH	.610	EBAFH	23		
1990/04/01	35	44			NDD		1								TEC	TEH	.610	EBAMB	20		
	42	56	5.52	0	PCT	42	P2	AV1	.00						TEC	TEH	.610	ZBARH	11	H	
	42	56	5.36	0	PID		P2	AV1	.00						TEC	TEH	.610	ZBARH	93	H	
2003/11/01	42	56	4.52	0	PCT	39	P2	AV1	.00						TEH	TEC	.610	RBARH	14	C	
2000/10/01	42	56	3.85	0	PCT	33	P2	AV1	.00						TEH	TEC	.610	MBARH	2	C	RESULT OF RESOLUTION PROCESS
2000/10/01	42	56			NDD										01H	01H	.610	ZPANM	9	H	RESULT OF RESOLUTION PROCESS
2000/10/01	42	56			NDD										TSH	TSH	.610	ZPANM	17	H	
1999/05/01	42	56	2.02	0	PCT	26	P2	AV1	.00						TEH	TEC	.610	MBALL	28	C	
1999/05/01	42	56	.74	0	INR		P2	AV2	.00						TEH	TEC	.610	MBALL	28	C	
1997/10/01	42	56			NDD		1								TSH	TSH	.610	ZPSHF	49		
1997/10/01	42	56	1.71		PCT	24	P2	AV1	.00						TEC	TEH	.610	EBALL	90		
1997/10/01	42	56	1.20		PCT	19	P2	AV2	.00						TEC	TEH	.610	EBALL	90		
1996/03/01	42	56	.91		PCT	17	M2	AV1	.00						TEH	TEC	.610	EBALL	42		
1996/03/01	42	56	.74		PCT	15	M2	AV2	.00						TEH	TEC	.610	EBALL	42		RESULT OF DISCREPANCY RESOLUTION
1994/10/01	42	56			NDD		1								TEH	TEC	.610	EBAMB	2		RESULT OF DISCREPANCY RESOLUTION
1993/03/01	42	56			NDD		1								TEC	TEH	.610	EBAMB	27		RESULT OF LAR
1991/10/01	42	56			NDD		1								TEC	TEH	.610	EBAFH	32		
1990/04/01	42	56			NDD		1								TEC	TEH	.610	EBAMB	27		

INSPDATE	ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	CRLEN	CRWID	CEG	I	BEGT	ENDT	PDIA	PTYPE	CAL	L	COM