Nuclear Operating Company
South Texas Project Electric Generating Station PO Box 289 Wadsworth, Texas 77483

March 5, 2003
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U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
One White Flint North
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South Texas Project
Unit 2
Docket No. STN 50-499
Preservice Inspection Summary Report for Tubing in
Replacement Steam Generators - 2RE09

Enclosed are four copies of the "Preservice Inspection Summary Report for Tubing in the Replacement Steam Generators of the South Texas Project Electric Generating Station, Unit 2." The steam generators were replaced during the ninth refueling outage (2RE09) completed on December 6, 2002. The summary report satisfies the reporting requirements of ASME Section XI, Article IWA-6230, and Sections 4.4.5.5(b) and 6.9.2 of the South Texas Project Technical Specifications.

If there are any questions regarding this report, please contact Mr. Jim Haning at (361) 972-8983 or me at (361) 972-7786.

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jtc

Enclosure: Preservice Inspection Summary Report for Tubing in the Replacement Steam Generators of the South Texas Project Electric Generating Station, Unit 2

Extra Cys forwarded to Mr. M. Thadani 1/3

STI: 31568901
A047

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PRESERVICE INSPECTION SUMMARY REPORT

FOR TUBING IN THE REPLACEMENT

STEAM GENERATORS

of the

SOUTH TEXAS PROJECT

ELECTRIC GENERATING STATION

UNIT 2

P.O. BOX 289

WADSWORTH, TEXAS 77483

Owner: South Texas Project Nuclear Operating Company

Commercial Operation: June 19, 1989

Issue Date: February 2003

PRESERVICE INSPECTION SUMMARY REPORT

FOR TUBING IN THE REPLACEMENT

STEAM GENERATORS

of the

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION

UNIT 2

USNRC DOCKET NO.: 50-499

OPERATING LICENSE NO.: NPF-80

COMMERCIAL OPERATION DATE: June 19, 1989

Prepared By: J. L. Haning 2/26/03
J. L. Haning — Date
Senior Consulting Engineer

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STEAM GENERATOR TUBE EXAMINATIONS

1.0 Introduction

This summary report describes the preservice inspection (PSI) of the tubing of the South Texas Project Electric Generating Station, Unit 2 (STPEGS-2) replacement steam generators. This PSI was performed by Westinghouse Electric Company, LLC., the examination agency, in the Equipos Nucleares, S.A. (ENSA) manufacturing facility in Maliano, Cantabria, Spain. The PSI was performed after their hydrostatic testing and just prior to shipment to the STPEGS-2.

The steam generator PSI is required by Sections 3/4.4.5 and 4.0.5 of the Technical Specifications to be performed in accordance with the edition and addenda of the American Society of Mechanical Engineers (ASME) Section XI Code "Inservice Inspection of Nuclear Power Plant Components" prescribed by Title 10 of the Code of Federal Regulations, Part 50, Section 50.55a(g). Therefore, the PSI is required to meet the 1989 Edition of the ASME Code Section XI.

The PSI of replacement steam generator tubing commenced on January 10, 2002. The eddy current examinations that constitute the PSI were completed on February 2, 2002. However, the PSI was not considered to be complete until the breakers closed after installation of the steam generators when the potential of events (e.g.; loose parts, transportation damage, etc.) necessitating further baseline examination had passed. The PSI was performed during the second inservice inspection interval of the STPEGS-2 that started October 19, 2000 and is expected to end October 18, 2010.

The STPEGS-2 plant design contains four (4) Westinghouse recirculating design steam generators designated as model Delta 94 (D94). Each model D94 generator was fabricated by ENSA in Spain. Each steam generator contains 7585 tubes. The tubing material is thermally treated Inconel Alloy 690 (single pilgered) having a nominal outer diameter (OD) of 0.688 inch and nominal wall thickness of 0.040 inch. The nominal thickness of the tubesheet is 25.43 inches.

2.0 Scope of Examinations

The "Inservice Inspection Program Plan for the Second Interval of the South Texas Project Electric Generating Station, Units 1 and 2, Steam Generator Tubing" describes the inservice inspection program for steam generator tubing. An auxiliary PSI outage plan entitled, "Outage Plan for the Preservice Inspection of Steam Generator Tubing in the South Texas Project Electric Generating Station, Unit 2, Replacement Steam Generators", including Change Number 001, was prepared by Westinghouse and approved by STP Nuclear Operating Company (STPNOC). The PSI outage plan identified the steam generator tube areas to be examined by eddy current testing (ET) and the ET procedures expected to be used during the PSI.

A degradation assessment (DA) was prepared by Westinghouse and approved by STPNOC prior to the inspection. This document is STPNOC condition report action number 01-19514-3 and identifies necessary examination techniques to be used. An evaluation of these techniques was performed to ensure their adequate qualification. In addition, a site-appropriateness review was conducted to ensure that each technique could be used in the STPNOC Unit 2 replacement steam generators. All techniques were reviewed for use by the Westinghouse senior level III-certified qualified data analyst (QDA), the STPNOC inservice inspection engineer, and the STPNOC QDA.

The nomenclature used to identify these steam generators is as follows:

Steam Generator Name	Manufacture's Serial No.	STPEGS-2 No.
A	THXE-40342/1FM2	1R122NSG201A
B	THXE-40343/2FM2	1R122NSG201B
C	THXE-40344/3FM2	1R122NSG201C
D	THXE-40345/4FM2	1R122NSG201D

The initial scope consisted of the following planned examinations:

1. Bobbin coil eddy current test (ET) of the full-length of all non-plugged tubing in each steam generator.

2. Motorized rotating probe head (or coil) (MRPC) ET of the following locations:

   - all final I-code indications,
   - all freespan signals greater than 3 Volts on the bobbin coil 150 kHz absolute channel that has not been verified to be less than five (5) percent through wall by the tube manufacture,
   - all bobbin coil support-suppression mix channel eddy current ding or dent indications greater than 3 Volts and a sampling of others to cumulatively equal twenty (20) percent but not more than 200 tubes in each steam generator,
   - all crevices at the top of the tubesheet with a measure depth in excess of 0.25 inches,
   - all manufacturing burnish mark (MBM), ding and dent bobbin coil indications reported in Rows 1 and 2 U-Bends,
   - all MBM, ding and dent bobbin coil indications exceeding 3.0 Volts,
   - a total of 200 hot-leg top of tubesheet locations:
     - where the largest 20 bulge indications occur from one (1) inch above to four (4) inches below the secondary face,

- where over-expansions were longer than 0.005 inches from one (1) inch above the secondary face to the tube-end,
- the remainder of locations distributed below the baffle plate cut-out region and on the periphery of the bundle from one (1) inch above to four (4) inches below the secondary face,

- a sample of top-of-tubesheet areas on the hot-leg (~200 tubesheet intersections per steam generator).

This scope exceeds the inspection requirements for tubes as defined in ASME Code Section XI IWB-2200 and 4.4.5.4 a.10 of the STPEGS technical specification (NUREG-1346). The PSI outage plan is consistent with the requirements of the second interval inservice inspection plan.

3.0 Personnel, Procedures, and Equipment

3.1 Personnel Qualifications

The personnel who performed the ET data acquisition and analysis during the PSI were employed by Westinghouse Electric Company, LLC. and NDE Technology. They were certified in accordance with the requirements of IWA-2300 of ASME Code Section XI and the certification practices of their respective employers. All of the ET data analysts were certified as "qualified data analysts" (QDA's) for the steam generator work performed. A QDA is a data analyst, meeting the requirements to be certified at Level IIA or III, who has passed rigorous testing of his ability to analyze a random selection of expertly-judged indications, from the Electric Power Research Institute's "PWR Steam Generator Examination Guidelines", Appendix G Performance Demonstration Database, for various steam generator designs and all types of known defects.

Before an ET data analyst could perform any analysis, they were required to successfully complete a STPEGS Site Specific Performance Demonstration (SSPD) steam generator ET data analysis-training program. The analyst-training program consisted of (1) ET data analysis course and (2) site specific practical training. The ET data analysis course consisted of a lecture conducted by the STPNOC ISI Engineer on topics of steam generator design, operating history, the data acquisition procedure, and analysis procedures to be used for the STPEGS-2 steam generator tube PSI examinations. The site specific practical training included hands-on review of data that contained signals, considered to have a potential to be detected during the PSI. The performance of the ANSER automated data screening software and settings were also demonstrated prior to use.

For personnel involved in the performance of the ET data acquisition and/or analysis, their name and certification levels are listed in Appendix A

3.2 Examination and Analysis Procedures

All ET inspections were performed in accordance with the Westinghouse Nuclear Services Division (WNSD) procedure MRS 2.4.2 GEN-35, Rev. 10 entitled, "Eddy Current Inspection of Preservice and Inservice Heat Exchanger Tubing", with Field Change Request Number 1.

The bobbin coil examination technique was performed using inspection frequencies of 630, 300, 150 and 35 kHz in both the differential and absolute modes for each tube. A nominal pull speed of 40 inches per second with a digital signal-sampling rate of 1400 samples per second or greater was used. MRS 2.4.2 GEN-35 prescribes that the applicable Acquisition Technique Sheets (ACTS) will define the data sample rate and probe rotation and pull speeds. ACTS THX-01-101 listed these and other essential variables required for bobbin probe testing. Additionally, a slower test speed was used as needed to reduce probe "snap" noise in U-bend areas. This slower nominal pull speed of 24 inches per second used a digital signal sample rate of 850 samples per second or greater, and is listed on ACTS THX-03-101.

Three (3)-coil and single coil MRPC designs were utilized for further diagnostic testing of signals of interest identified by bobbin. The three-coil design included one (1) plus-point and two (2) pancake coils. The three-coil probe examination technique was performed using the examination frequencies of 300, 200, 100, and 10 kHz. Also, the high frequency pancake coil on the three-coil probe head was operated at 600 kHz, in addition to 300 kHz. The single coil head design contained a plus-point coil. It was used to examine U-bend areas. The single coil examination technique that was performed using the

examination frequencies of 400, 300, 150 and 20 kHz. The three-coil and single coil test specifications are defined on ACTS TGX-02-101 and TGX-05-101, respectively.

The ET data analysts performed the analysis in accordance with WNSD procedure MRS-SSP-1215-THX, Rev. 0, titled, "Steam Generator Eddy Current Data Analysis Guidelines for the Pre-Service Inspection at South Texas Unit 2". All bobbin coil and RPC ET data for each steam generator tube or tube area examined were subjected to two (2) separate independent analyses in accordance with the analysis procedure.

The ET primary and secondary data analysis was performed independently and in separate isolated locations. Primary analysis of bobbin coil data was performed using ANSER automated data screening software (ADS). Manual analysis was done manually using ANSER software.

Results of all of the eddy current examinations were recorded on a digital, rewritable optical disk and the final resolution data sheets, which are stored as records. Each disk contains the raw ET data, primary, secondary, and resolution results for each calibration group. The optical disks also contain the system calibration and calibration verification with the dates and times for each calibration and verification. The unique number of the digital rewritable optical disk and the calibration group number have been recorded on the data sheets and optical disks. Therefore, the system calibration and calibration verification of the raw signals for each tube examined can be easily recalled.

3.3 Equipment

All examinations were performed using Zetec EddyNet 98 software, Version 1.27, and the Zetec Miz-30 test instrument. The acquisition test instrument and software store and process the ET data in a digital format and have a significantly improved dynamic range and signal-to-noise ratio as compared to analog systems. The test system is capable of being operated at locations remote from the steam generators (e.g., in low radiation areas).

The bobbin coil examination program was performed using the replaceable probe head (RPH) design, WA-560-RPH and WA-540-RPH. The single and three-coil rotating heads were manufactured by Zetec, Inc. The three-coil probe consisted of one (1) plus-point coil (interwoven axially and circumferentially oriented coils that are differentially connected), one (1) 0.115 inch diameter pancake coil and one (1) shielded high frequency 0.080 inch diameter pancake coil. These inspections took place from either leg, depending on the location requiring inspection.

3.4 Calibration Standards

The calibration standard design that was used for bobbin coil inspections was a combination in-line standard. It contained ASME Code Section XI flaws, simulated AVB wear flaws, a small 3 mil radial dent, and 1.12-inch-long tri-foil and circular shape stainless steel support rings. The calibration standard utilized for all of the MRPC inspections was a EP5-design guide tube design that contains several ID and OD, axially and circumferentially oriented, electro-discharge machined (EDM) notches in sufficient quantities to permit the sizing of indications if necessary.

4.0 Summary of Examinations

Bobbin coil ET techniques were performed on all non-plugged tubes in each of steam generators A, B, C, and D. All of these tubes were examined over their full length, from tube end to tube end or by multiple hot and cold leg exams. The following table summarizes the quantities of tubes that were examined using the bobbin coil ET techniques:

Steam Generator	Tubes Examined
A	7584
B	7583
C	7582
D	7585

The following table summarizes the quantities of rotating head probe examinations and their areas of interest:

Steam Generator	Hot Leg Over-expansions	Non-quantifiable Bobbin Coil Signals (NQS's)	Manufacture Burnish Marks (MBM's)	Dings at Supports (Dents)	Dings in the Freespan	Hot Leg Expansions
A	18	1	4	127	62	201
B	18	1	3	56	32	195
C	7	6	7	118	65	200
D	9	2	7	9	41	203
Totals	52	10	21	310	200	799

The tube areas that were examined using a rotating head probe are listed in Appendix B, "Tubes Examined by MRPC".

5.0 Examination Results and Corrective Actions

The location of the indications were recorded relative to the adjacent tube support, baffle plate and/or anti-vibration bar. The tube support plates and baffle plates were numbered consecutively from 01H to the top support plate. The anti-vibration bars were numbered AV1 through AV16 from the hot leg to the cold leg side, respectively. Indications in the tubesheet area were recorded relative to TEH or TSH (hot leg) or TEC or TSC (cold leg) depending on whether the indications were at the tube end (E) or secondary face (S). In addition, the vertical distances from these landmarks to flaws were recorded, with positive being upward from the reporting structure. This convention was used through out the tube bundle, except at support structures, where a plus/minus 2-inch window was used when reporting indications that were at or near support structures.

All ET indications reported during the PSI were assigned three-letter codes. The three-letter code reflects the suspected nature of the discontinuity and the need to perform an additional inspection and/or repair action. Some of the codes used during the PSI are as follows:

DNG - ding, located in freespan only
DNT - dent, located at tube support and baffle plates only
NQI - non-quantifiable indication
MBM - manufacture burnish mark
PVN - permeability variation
BLG - bulge
PLP - possible loose part
NQI - non-quantifiable indication
NQS - non-quantifiable signal
OXP - over expansion in tubesheet
CRD - crevice depth from top of tubesheet
AVG - average tubesheet inner diameter

The ET data was analyzed using the setup, data screening and reporting requirements defined in the analysis technique sheets (ANTS) that follow:

THX-A-101 - Bobbin
THX-B-101 - 3 Coil Plus Point
THX-C-101 - Single Coil Plus Point

The location of all bobbin coil signals, that were initially reported with a three-letter code ending with the letter "I" (I-codes like NQI), were tested by MPRC ET and confirmed to be non-flaw-like. Therefore, the I-Code was changed to a final S-Code (e.g.; NQS). All DNG, DNT and MBM indications greater than 3.00 Volts were also MRPC tested and confirmed to be non-flaw-like.

There were no axial or circumferential crack-like indication reported in any of the four steam generators. No wear of any kind was reported in any of the four steam generators.

The following table summarizes the final results for the PSI:

Steam Generator	A	B	C	D
MBM Tubes/Indications	38 / 40	65 / 83	29 / 32	49 / 55
DNG Tubes/Indications	219 / 264	158 / 184	120 / 149	116 / 132
DNT Tubes/Indications	271 / 431	150 / 188	280 / 428	30 / 33
NQS Tubes/Indications	1 / 1	1 / 1	6 / 6	2 / 2
BLG Tubes/Indications	13 / 14	8 / 12	8 / 8	12 / 17
PVN Tubes/Indications	2 / 2	0 / 0	0 / 0	0 / 0

All dents and dings that were reported in each steam generator are listed in Appendix C, "Dings and Dents". All anomalous signals (e.g.; ADS, BLG, MBM) that were reported in each steam generator are reported in Appendix D, "Tubes with Other Anomalous Signals".

In addition to the dual bobbin coil data degradation analysis, a single profile analysis was performed on both cold and hot leg tubesheets. There were five (5) conditions the ANSER profile software was screening the data to determine. They were crevice depths, average inner diameters, skip rolls, over-expansions, and expansion bulges. The following are the results from the profile analysis:

- Several over-expansions (OXPs) were detected and subjected to MRPC testing. The MRPC detected no abnormal conditions.
- There were no crevice depths (CRDs) exceeding the 0.25-inch threshold for issuance of a deviation report.
- No average inner diameters (AVGs) were reported below 0.610 inches. That indicates there are no unexpanded tubes in the tubesheets.
- No expansion skip rolls were reported.
- No expansion buldges in the tubesheet were reported by the profile analysis.

The total numbers of degraded and defective tubes detected during the bobbin coil ET and MRPC ET are as follows:

5.1 Steam Generator A

There were no tubes considered degraded and defective. There were no tubes removed from service..

5.2 Steam Generator B

There were no tubes considered degraded and defective. There were no tubes removed from service.

5.3 Steam Generator C

There were no tubes considered degraded and defective. There were no tubes removed from service.

5.4 Steam Generator D

There were no tubes considered degraded and defective. There were no tubes removed from service.

Six (6) tubes were plugged during the manufacture of the STPEGS-2 replacement steam generators and prior to the PSI. No tubes were removed from service as a result of conditions detected by the PSI. The tubes removed from service are depicted in Appendix E, "Tubes Removed from Service Prior to Installation".

6.0 Certification of Inspections

An ASME Code Section XI NIS-1 form "Owner's Report for Inservice Inspections", has been prepared to certify the STPEGS Unit 2 PSI examinations described in this Summary Report. The STPEGS-2 PSI examinations have been certified by our ANII, Factory Mutual Insurance Company, on the NIS-1 form included in Appendix F.

APPENDIX A

LISTING

OF

CERTIFIED

PERSONNEL

Listing of Certified Personnel

NAME	EC LEVEL	COMPANY	REP - FUNCTION
Analysis Crew			
Anderson, D	IIA	NDE	Secondary
Beiers, T	IIIA	NDE	Secondary
Ethridge, G	IIIA	NDE	I QDA
Gootz, T	III	W	Primary ADS
Nelson, D	IIIA	NDE	Secondary
Pocratsky, R	III	W	Senior/Resos
Richmond, M	IIIA	NDE	Resolutions
Sheldon, J	IIIA	NDE	Primary ADS
Siegel, R	IIIA	NDE	Secondary
Stokke, T	IIIA	NDE	Secondary
Thompson, V	IIIA	NDE	Secondary

Listing of Certified Personnel

NAME	EC LEVEL	COMPANY	REP - FUNCTION
Acquisition Crew			
Chapla, J	II	W	Acquisition
Estel, J	II	W	Acquisition
Moats, C	II	W	Acquisition
Patton, B	I	W	Acquisition
Reif, D	II	W	Acquisition
Schachte, D	II	W	Acquisition
Smith, A	II	W	Acquisition

W - WNSD
NDE – NDE Technologies

APPENDIX B

TUBES

EXAMINED

BY MRPC

Tubes Examined By RPC

SG - A

ROW	COL	BEGIN TEST	END TEST	PROBE	
2	34	TEH	TSH	0.560	ZPSHF
2	34	TEH	TSH	0.560	ZPSHF
2	54	TSH	TSH	0.560	ZPSHF
2	58	TSH	TSH	0.560	ZPSHF
2	62	TSH	TSH	0.560	ZPSHF
2	66	TSH	TSH	0.560	ZPSHF
2	86	TSH	TSH	0.560	ZPSHF
2	90	TSH	TSH	0.560	ZPSHF
2	94	TSH	TSH	0.560	ZPSHF
2	98	09C	09H	0.520	ZPUGR
2	98	TSH	TSH	0.560	ZPSHF
2	102	TSH	TSH	0.560	ZPSHF
3	53	TSH	TSH	0.560	ZPSHF
3	63	TSH	TSH	0.560	ZPSHF
3	93	TSH	TSH	0.560	ZPSHF
3	103	TSH	TSH	0.560	ZPSHF
4	4	TSH	TSH	0.560	ZPSHF
4	60	TSH	TSH	0.560	ZPSHF
4	142	01C	02C	0.560	ZPSHF
4	154	TSH	TSH	0.560	ZPSHF
6	54	TSH	TSH	0.560	ZPSHF
6	58	TSH	TSH	0.560	ZPSHF
6	62	TSH	TSH	0.560	ZPSHF
6	66	TSH	TSH	0.560	ZPSHF
6	86	TSH	TSH	0.560	ZPSHF
6	90	TSH	TSH	0.560	ZPSHF
6	94	TSH	TSH	0.560	ZPSHF
6	98	TSH	TSH	0.560	ZPSHF
6	100	TSH	TSH	0.560	ZPSHF
6	102	TSH	TSH	0.560	ZPSHF
6	152	TSH	TSH	0.560	ZPSHF
8	58	TSH	TSH	0.560	ZPSHF
8	88	TSH	TSH	0.560	ZPSHF
8	98	TSH	TSH	0.560	ZPSHF
10	4	TSH	TSH	0.560	ZPSHF
10	54	TSH	TSH	0.560	ZPSHF
10	58	TSH	TSH	0.560	ZPSHF
10	62	TSH	TSH	0.560	ZPSHF
10	66	TSH	TSH	0.560	ZPSHF
10	86	TSH	TSH	0.560	ZPSHF
10	90	TSH	TSH	0.560	ZPSHF
10	94	TSH	TSH	0.560	ZPSHF
10	98	TSH	TSH	0.560	ZPSHF
10	102	TSH	TSH	0.560	ZPSHF
10	154	TSH	TSH	0.560	ZPSHF
11	61	07C	08C	0.560	ZPSHF
11	61	07C	08C	0.560	ZPSHF
12	32	TSC	TSC	0.560	ZPSHF
12	100	07C	08C	0.560	ZPSHF
12	138	TEH	TSH	0.560	ZPSHF
13	63	TSH	TSH	0 560	ZPSHF

SG - A

13	87	TEH	TSH	0.560	ZPSHF
13	93	TSH	TSH	0.560	ZPSHF
13	151	TSH	TSH	0.560	ZPSHF
13	153	TEH	TSH	0.560	ZPSHF
14	58	TSH	TSH	0.560	ZPSHF
14	62	TSH	TSH	0.560	ZPSHF
14	66	TSH	TSH	0.560	ZPSHF
14	86	TSH	TSH	0.560	ZPSHF
14	88	TSH	TSH	0.560	ZPSHF
14	90	TSH	TSH	0.560	ZPSHF
14	94	TSH	TSH	0.560	ZPSHF
14	98	TSH	TSH	0.560	ZPSHF
15	89	TEH	TSH	0.560	ZPSHF
16	4	TSH	TSH	0.560	ZPSHF
16	64	02C	03C	0.560	ZPSHF
16	154	TSH	TSH	0.560	ZPSHF
17	49	06C	07C	0.560	ZPSHF
17	49	07C	08C	0.560	ZPSHF
17	49	07C	08C	0.560	ZPSHF
18	58	TSH	TSH	0.560	ZPSHF
18	62	TSH	TSH	0.560	ZPSHF
18	66	TSH	TSH	0.560	ZPSHF
18	86	TSH	TSH	0.560	ZPSHF
18	88	TSH	TSH	0.560	ZPSHF
18	90	TSH	TSH	0.560	ZPSHF
18	94	TSH	TSH	0.560	ZPSHF
18	98	TSH	TSH	0.560	ZPSHF
19	53	03C	04C	0.560	ZPSHF
21	71	05C	06C	0.560	ZPSHF
21	149	TSH	TSH	0.560	ZPSHF
22	4	TSH	TSH	0.560	ZPSHF
22	58	TSH	TSH	0.560	ZPSHF
22	62	TSH	TSH	0.560	ZPSHF
22	66	TSH	TSH	0.560	ZPSHF
22	70	TSH	TSH	0.560	ZPSHF
22	74	TSH	TSH	0.560	ZPSHF
22	78	TSH	TSH	0.560	ZPSHF
22	78	TSH	TSH	0.560	ZPSHF
22	82	TSH	TSH	0.560	ZPSHF
22	86	TSH	TSH	0.560	ZPSHF
22	90	TSH	TSH	0.560	ZPSHF
22	94	TSH	TSH	0.560	ZPSHF
22	98	TSH	TSH	0.560	ZPSHF
22	148	TSH	TSH	0.560	ZPSHF
23	59	TSC	01C	0.560	ZPSHF
23	63	TSH	TSH	0.560	ZPSHF
23	73	TSH	TSH	0.560	ZPSHF
23	73	TSH	TSH	0.560	ZPSHF
23	77	TSH	TSH	0.560	ZPSHF
23	83	TSH	TSH	0.560	ZPSHF
23	93	TSH	TSH	0.560	ZPSHF
25	21	02H	03H	0.560	ZPSHF

SG - A

26	62	TSH	TSH	0.560	ZPSHF
26	66	TSH	TSH	0.560	ZPSHF
26	70	TSH	TSH	0.560	ZPSHF
26	74	TSH	TSH	0.560	ZPSHF
26	78	TSH	TSH	0.560	ZPSHF
26	78	TSH	TSH	0.560	ZPSHF
26	82	TSH	TSH	0.560	ZPSHF
26	86	TSH	TSH	0.560	ZPSHF
26	88	01C	02C	0.560	ZPSHF
26	90	TSH	TSH	0.560	ZPSHF
26	94	TSH	TSH	0.560	ZPSHF
26	148	TSH	TSH	0.560	ZPSHF
27	39	TSC	TSC	0.560	ZPSHF
27	57	08C	09C	0.560	ZPSHF
27	61	08C	09C	0.560	ZPSHF
27	93	09C	09C	0.560	ZPSHF
28	4	TSH	TSH	0.560	ZPSHF
28	68	TSH	TSH	0.560	ZPSHF
28	78	TSH	TSH	0.560	ZPSHF
28	88	TSH	TSH	0.560	ZPSHF
28	148	TSH	TSH	0.560	ZPSHF
29	5	TSH	TSH	0.560	ZPSHF
29	149	TSH	TSH	0.560	ZPSHF
30	66	TSH	TSH	0.560	ZPSHF
30	70	TSH	TSH	0.560	ZPSHF
30	74	TSH	TSH	0.560	ZPSHF
30	78	TSH	TSH	0.560	ZPSHF
30	82	TSH	TSH	0.560	ZPSHF
30	86	TSH	TSH	0.560	ZPSHF
30	90	TSH	TSH	0.560	ZPSHF
30	124	TEH	TSH	0.560	ZPSHF
32	78	TEH	TSH	0.560	ZPSHF
33	73	TSH	TSH	0.560	ZPSHF
33	83	TSH	TSH	0.560	ZPSHF
34	70	TSH	TSH	0.560	ZPSHF
34	74	TSH	TSH	0.560	ZPSHF
34	78	TSH	TSH	0.560	ZPSHF
34	82	TSH	TSH	0.560	ZPSHF
34	84	TSH	TSH	0.560	ZPSHF
34	86	TSH	TSH	0.560	ZPSHF
34	134	05C	06C	0.560	ZPSHF
34	148	TSH	TSH	0.560	ZPSHF
35	35	TEH	TSH	0.560	ZPSHF
35	35	TEH	TSH	0.560	ZPSHF
35	93	FBC	01C	0.560	ZPSHF
37	5	TSH	TSH	0.560	ZPSHF
37	103	03C	04C	0.560	ZPSHF
37	149	TSH	TSH	0.560	ZPSHF
38	74	TSH	TSH	0.560	ZPSHF
38	78	TSH	TSH	0.560	ZPSHF
38	82	TSH	TSH	0.560	ZPSHF
39	39	06C	07C	0.560	ZPSHF

SG - A

39	149	TSH	TSH	0.560	ZPSHF
40	10	TSH	TSH	0.560	ZPSHF
40	86	01C	02C	0.560	ZPSHF
40	86	TSC	FBC	0.560	ZPSHF
40	92	08C	09C	0.560	ZPSHF
40	138	08H	09H	0.560	ZPSHF
40	148	TSH	TSH	0.560	ZPSHF
45	27	05C	06C	0.560	ZPSHF
45	27	FBC	01C	0.560	ZPSHF
45	149	TSH	TSH	0.560	ZPSHF
46	10	TSH	TSH	0.560	ZPSHF
46	22	08C	09C	0.560	ZPSHF
46	148	TSH	TSH	0.560	ZPSHF
48	46	TEH	TSH	0.560	ZPSHF
52	10	TSH	TSH	0.560	ZPSHF
52	36	TEH	TSH	0.560	ZPSHF
52	142	TSH	TSH	0.560	ZPSHF
53	13	TSH	TSH	0.560	ZPSHF
53	141	TSH	TSH	0.560	ZPSHF
54	12	TSH	TSH	0.560	ZPSHF
54	84	01C	02C	0.560	ZPSHF
54	90	07C	08C	0.560	ZPSHF
55	69	FBC	FBC	0.560	ZPSHF
58	36	TEH	TSH	0.560	ZPSHF
58	66	08C	09C	0.560	ZPSHF
58	136	TSH	TSH	0.560	ZPSHF
58	142	TSH	TSH	0.560	ZPSHF
59	17	FBC	01C	0.560	ZPSHF
59	17	FBC	01C	0.560	ZPSHF
59	69	08H	09H	0.560	ZPSHF
59	117	08C	09C	0.560	ZPSHF
60	30	08C	09C	0.560	ZPSHF
60	30	08C	09C	0.560	ZPSHF
60	30	08C	09C	0.560	ZPSHF
60	30	08H	09H	0.560	ZPSHF
60	30	08H	09H	0.560	ZPSHF
60	30	FBC	01C	0.560	ZPSHF
60	48	TSC	FBC	0.560	ZPSHF
61	13	TSH	TSH	0.560	ZPSHF
61	141	TSH	TSH	0.560	ZPSHF
63	35	TEH	TSH	0.560	ZPSHF
63	79	02C	03C	0.560	ZPSHF
64	16	TSH	TSH	0.560	ZPSHF
64	136	TSH	TSH	0.560	ZPSHF
64	142	TSH	TSH	0.560	ZPSHF
65	13	08H	09H	0.560	ZPSHF
65	13	08H	09H	0.560	ZPSHF
65	13	TSH	TSH	0.560	ZPSHF
65	71	03C	04C	0.560	ZPSHF
67	37	08H	09H	0.560	ZPSHF
68	84	07C	08C	0.560	ZPSHF
69	17	TSH	TSH	0.560	ZPSHF

SG - A

69	141	TSH	TSH	0.560	ZPSHF
70	16	TSH	TSH	0.560	ZPSHF
70	130	07C	08C	0.560	ZPSHF
70	136	TSH	TSH	0.560	ZPSHF
71	87	TSC	FBC	0.560	ZPSHF
72	86	01C	02C	0.560	ZPSHF
72	126	04C	05C	0.560	ZPSHF
72	126	04C	05C	0.560	ZPSHF
73	125	09C	09C	0.560	ZPSHF
74	48	09H	09H	0.560	ZPSHF
74	120	03C	04C	0.560	ZPSHF
74	132	TSH	TSH	0.560	ZPSHF
76	22	TSH	TSH	0.560	ZPSHF
76	130	TSH	TSH	0.560	ZPSHF
76	136	TSH	TSH	0.560	ZPSHF
77	21	TSH	TSH	0.560	ZPSHF
77	109	TSC	TSC	0.560	ZPSHF
77	133	07C	08C	0.560	ZPSHF
77	133	TSH	TSH	0.560	ZPSHF
78	38	08C	09C	0.560	ZPSHF
78	38	08C	09C	0.560	ZPSHF
78	38	08C	09C	0.560	ZPSHF
79	31	02C	03C	0.560	ZPSHF
79	125	FBC	01C	0.560	ZPSHF
79	125	TEH	TSH	0.560	ZPSHF
80	132	TSH	TSH	0.560	ZPSHF
81	87	TSC	FBC	0.560	ZPSHF
82	22	TSH	TSH	0.560	ZPSHF
82	126	03C	04C	0.560	ZPSHF
82	130	TSH	TSH	0.560	ZPSHF
82	136	TSH	TSH	0.560	ZPSHF
83	129	TSH	TSH	0.560	ZPSHF
85	31	02C	03C	0.560	ZPSHF
85	105	08C	09C	0.560	ZPSHF
85	133	TSH	TSH	0.560	ZPSHF
86	60	03C	04C	0.560	ZPSHF
86	100	03C	03C	0.560	ZPSHF
86	130	TSH	TSH	0.560	ZPSHF
88	28	TSH	TSH	0.560	ZPSHF
88	124	TSH	TSH	0.560	ZPSHF
88	130	TSH	TSH	0.560	ZPSHF
89	85	03C	04C	0.560	ZPSHF
89	89	08C	09C	0.560	ZPSHF
90	68	TEH	TSH	0.560	ZPSHF
91	89	05C	06C	0.560	ZPSHF
92	40	TSC	FBC	0.560	ZPSHF
93	29	TSH	TSH	0.560	ZPSHF
93	117	TSH	TSH	0.560	ZPSHF
93	125	TSH	TSH	0.560	ZPSHF
94	28	TSH	TSH	0.560	ZPSHF
94	118	TSH	TSH	0.560	ZPSHF
94	124	TSH	TSH	0.560	ZPSHF

SG - A

95	89	06C	07C	0.560	ZPSHF
95	89	FBC	01C	0.560	ZPSHF
95	89	TSC	FBC	0.560	ZPSHF
95	117	TSH	TSH	0.560	ZPSHF
97	99	03H	04H	0.560	ZPSHF
99	31	09C	09C	0.560	ZPSHF
99	31	09C	09C	0.560	ZPSHF
100	34	TSH	TSH	0.560	ZPSHF
100	118	TSH	TSH	0.560	ZPSHF
100	124	TSH	TSH	0.560	ZPSHF
101	37	TSH	TSH	0.560	ZPSHF
101	117	TSH	TSH	0.560	ZPSHF
101	123	09C	09C	0.560	ZPSHF
101	123	09C	09C	0.560	ZPSHF
102	108	04C	04C	0.560	ZPSHF
102	108	04C	05C	0.560	ZPSHF
102	108	04C	05C	0.560	ZPSHF
103	55	TSC	FBC	0.560	ZPSHF
104	38	09C	09C	0.560	ZPSHF
104	86	05C	06C	0.560	ZPSHF
105	117	09C	09C	0.560	ZPSHF
105	117	09C	09C	0.560	ZPSHF
106	36	03C	04C	0.560	ZPSHF
106	40	TSH	TSH	0.560	ZPSHF
106	56	07C	08C	0.560	ZPSHF
106	82	08C	09C	0.560	ZPSHF
106	106	TSH	TSH	0.560	ZPSHF
106	112	TSH	TSH	0.560	ZPSHF
106	118	TSH	TSH	0.560	ZPSHF
107	113	09C	09C	0.560	ZPSHF
107	113	09C	09C	0.560	ZPSHF
107	119	TSH	TSH	0.560	ZPSHF
108	84	04C	04C	0.560	ZPSHF
108	116	09C	09C	0.560	ZPSHF
108	116	09C	09C	0.560	ZPSHF
109	45	TSH	TSH	0.560	ZPSHF
109	109	TSH	TSH	0.560	ZPSHF
109	117	TSH	TSH	0.560	ZPSHF
110	114	09C	09C	0.560	ZPSHF
110	114	09C	09C	0.560	ZPSHF
112	46	TSH	TSH	0.560	ZPSHF
112	100	TEH	TSH	0.560	ZPSHF
112	102	TSC	FBC	0.560	ZPSHF
112	106	TSH	TSH	0.560	ZPSHF
112	112	TSH	TSH	0.560	ZPSHF
112	114	09C	09C	0.560	ZPSHF
112	114	09C	09C	0.560	ZPSHF
113	97	TEH	TSH	0.560	ZPSHF
113	113	A7	09C	0.520	ZPUGR
115	85	TEH	TSH	0.560	ZPSHF
116	48	TSH	TSH	0.560	ZPSHF
116	94	TEH	TSH	0.560	ZPSHF

SG - A

116	98	TSH	TSH	0.560	ZPSHF
116	106	09C	09C	0.560	ZPSHF
116	106	09C	09C	0.560	ZPSHF
117	53	TSH	TSH	0.560	ZPSHF
117	101	09C	09C	0.560	ZPSHF
117	101	09C	09C	0.560	ZPSHF
117	101	TSH	TSH	0.560	ZPSHF
117	107	09C	09C	0.560	ZPSHF
117	107	09C	09C	0.560	ZPSHF
118	52	TSH	TSH	0.560	ZPSHF
118	58	TSH	TSH	0.560	ZPSHF
118	100	TSH	TSH	0.560	ZPSHF
118	106	TSH	TSH	0.560	ZPSHF
119	67	03C	04C	0.560	ZPSHF
119	103	09C	09C	0.560	ZPSHF
119	103	09C	09C	0.560	ZPSHF
119	105	01C	02C	0.560	ZPSHF
119	105	09C	09C	0.560	ZPSHF
119	105	09C	09C	0.560	ZPSHF
120	100	09C	09C	0.560	ZPSHF
120	102	09C	09C	0.560	ZPSHF
120	102	09C	09C	0.560	ZPSHF
120	104	TSH	TSH	0.560	ZPSHF
121	93	09C	09C	0.560	ZPSHF
121	93	09C	09C	0.560	ZPSHF
121	95	09C	09C	0.560	ZPSHF
121	95	09C	09C	0.560	ZPSHF
121	99	09C	09C	0.560	ZPSHF
121	99	09C	09C	0.560	ZPSHF
121	101	09C	09C	0.560	ZPSHF
121	101	09C	09C	0.560	ZPSHF
122	60	TSH	TSH	0.560	ZPSHF
122	64	01C	02C	0.560	ZPSHF
122	64	06C	07C	0.560	ZPSHF
122	64	07C	08C	0.560	ZPSHF
122	70	07C	09C	0.560	ZPSHF
122	70	07C	09C	0.560	ZPSHF
122	70	07C	09C	0.560	ZPSHF
122	70	09C	09C	0.560	ZPSHF
122	70	09C	09C	0.560	ZPSHF
122	98	09C	09C	0.560	ZPSHF
122	98	09C	09C	0.560	ZPSHF
123	61	09C	09C	0.560	ZPSHF
123	61	09C	09C	0.560	ZPSHF
123	63	09C	09C	0.560	ZPSHF
123	63	09C	09C	0.560	ZPSHF
123	87	09C	09C	0.560	ZPSHF
123	87	09C	09C	0.560	ZPSHF
123	91	09C	09C	0.560	ZPSHF
123	91	09C	09C	0.560	ZPSHF
123	,93	09C	09C	0.560	ZPSHF
123	93	09C	09C	0.560	ZPSHF

SG - A

123	97	09C	09C	0.560	ZPSHF
123	97	09C	09C	0.560	ZPSHF
124	64	09C	09C	0.560	ZPSHF
124	64	09C	09C	0.560	ZPSHF
124	64	TSH	TSH	0.560	ZPSHF
124	66	09C	09C	0.560	ZPSHF
124	66	09C	09C	0.560	ZPSHF
124	70	TSH	TSH	0.560	ZPSHF
124	76	TSH	TSH	0.560	ZPSHF
124	82	TSH	TSH	0.560	ZPSHF
124	88	09C	09C	0.560	ZPSHF
124	88	09C	09C	0.560	ZPSHF
124	88	TSH	TSH	0.560	ZPSHF
124	90	08H	09H	0.560	ZPSHF
124	90	08H	09H	0.560	ZPSHF
124	90	09C	09C	0.560	ZPSHF
124	90	09C	09C	0.560	ZPSHF
124	92	09C	09C	0.560	ZPSHF
124	92	09C	09C	0.560	ZPSHF
124	94	09C	09C	0.560	ZPSHF
124	94	09C	09C	0.560	ZPSHF
124	94	TSH	TSH	0.560	ZPSHF
124	96	09C	09C	0.560	ZPSHF
124	96	09C	09C	0.560	ZPSHF
124	96	09C	09C	0.560	ZPSHF
125	63	09C	09C	0.560	ZPSHF
125	63	09C	09C	0.560	ZPSHF
125	65	09C	09C	0.560	ZPSHF
125	65	09C	09C	0.560	ZPSHF
125	67	09C	09C	0.560	ZPSHF
125	67	09C	09C	0.560	ZPSHF
125	69	09C	09C	0.560	ZPSHF
125	69	09C	09C	0.560	ZPSHF
125	69	TSH	TSH	0.560	ZPSHF
125	77	TSH	TSH	0.560	ZPSHF
125	85	09C	09C	0.560	ZPSHF
125	85	09C	09C	0.560	ZPSHF
125	85	TSH	TSH	0.560	ZPSHF
125	87	09C	09C	0.560	ZPSHF
125	87	09C	09C	0.560	ZPSHF
125	89	09C	09C	0.560	ZPSHF
125	89	09C	09C	0.560	ZPSHF
125	91	09C	09C	0.560	ZPSHF
125	91	09C	09C	0.560	ZPSHF
125	93	TSH	TSH	0.560	ZPSHF
126	68	09C	09C	0.560	ZPSHF
126	68	09C	09C	0.560	ZPSHF
126	70	09C	09C	0.560	ZPSHF
126	70	09C	09C	0.560	ZPSHF
126	74	09C	09C	0.560	ZPSHF
126	74	09C	09C	0.560	ZPSHF
126	82	09C	09C	0.560	ZPSHF

SG - A

126	82	09C	09C	0.560	ZPSHF
126	86	09C	09C	0.560	ZPSHF
126	86	09C	09C	0.560	ZPSHF
126	88	09C	09C	0.560	ZPSHF
126	88	09C	09C	0.560	ZPSHF
127	69	09C	09C	0.560	ZPSHF
127	69	09C	09C	0.560	ZPSHF
127	71	09C	09C	0.560	ZPSHF
127	71	09C	09C	0.560	ZPSHF
127	73	09C	09C	0.560	ZPSHF
127	73	09C	09C	0.560	ZPSHF
127	75	09C	09C	0.560	ZPSHF
127	75	09C	09C	0.560	ZPSHF
127	77	09C	09C	0.560	ZPSHF
127	77	09C	09C	0.560	ZPSHF
127	79	09C	09C	0.560	ZPSHF
127	79	09C	09C	0.560	ZPSHF
127	81	09C	09C	0.560	ZPSHF
127	81	09C	09C	0.560	ZPSHF
127	83	09C	09C	0.560	ZPSHF
127	83	09C	09C	0.560	ZPSHF
127	85	09C	09C	0.560	ZPSHF
127	85	09C	09C	0.560	ZPSHF

SG-B

ROW	COL	BEGIN TEST	END TEST	PROBE
1	53	TSH	TSH	.560 ZPSHF
1	57	TSH	TSH	.560 ZPSHF
1	61	TSH	TSH	.560 ZPSHF
1	65	TSH	TSH	.560 ZPSHF
1	69	TSH	TSH	.560 ZPSHF
1	73	TSH	TSH	.560 ZPSHF
1	85	TSH	TSH	.560 ZPSHF
1	89	TSH	TSH	.560 ZPSHF
1	93	TSH	TSH	.560 ZPSHF
1	97	TSH	TSH	.560 ZPSHF
1	101	TSH	TSH	.560 ZPSHF
3	59	TSH	TSH	.560 ZPSHF
3	61	TSH	TSH	.560 ZPSHF
3	67	TSH	TSH	.560 ZPSHF
3	73	TSH	TSH	.560 ZPSHF
3	91	TSH	TSH	.560 ZPSHF
3	99	TSH	TSH	.560 ZPSHF
3	155	TSH	TSH	.560 ZPSHF
4	4	TSH	TSH	.560 ZPSHF
4	116	01C	02C	.560 ZPSHF
4	154	TSH	TSH	.560 ZPSHF
5	17	02C	03C	.560 ZPSHF
5	53	TSH	TSH	.560 ZPSHF
5	57	TSH	TSH	.560 ZPSHF
5	61	TSH	TSH	.560 ZPSHF
5	65	TSH	TSH	.560 ZPSHF
5	69	TSH	TSH	.560 ZPSHF
5	73	TSH	TSH	.560 ZPSHF
5	89	TSH	TSH	.560 ZPSHF
5	93	TSH	TSH	.560 ZPSHF
5	97	TSH	TSH	.560 ZPSHF
5	101	TSH	TSH	.560 ZPSHF
7	3	TEH	TSH	.560 ZPSHF
7	61	TSH	TSH	.560 ZPSHF
9	57	TSH	TSH	.560 ZPSHF
9	59	TSH	TSH	.560 ZPSHF
9	61	TSH	TSH	.560 ZPSHF
9	65	TSH	TSH	.560 ZPSHF
9	69	TSH	TSH	.560 ZPSHF
9	89	TSH	TSH	.560 ZPSHF
9	93	TSH	TSH	.560 ZPSHF
9	97	TSH	TSH	.560 ZPSHF
9	101	TSH	TSH	.560 ZPSHF
10	4	TSH	TSH	.560 ZPSHF
10	154	TSH	TSH	.560 ZPSHF
11	59	TSH	TSH	.560 ZPSHF
11	67	TSH	TSH	.560 ZPSHF
11	91	TSH	TSH	.560 ZPSHF
11	99	TSH	TSH	.560 ZPSHF
11	131	TEH	TSH	.560 ZPSHF
11	139	TEH	TSH	.560 ZPSHF

SG-B

13	17	TEH	TSH	.560 ZPSHF
13	57	TSH	TSH	.560 ZPSHF
13	59	TSH	TSH	.560 ZPSHF
13	61	TSH	TSH	.560 ZPSHF
13	65	TSH	TSH	.560 ZPSHF
13	69	TSH	TSH	.560 ZPSHF
13	89	TSH	TSH	.560 ZPSHF
13	93	TSH	TSH	.560 ZPSHF
13	97	TSH	TSH	.560 ZPSHF
13	101	TSH	TSH	.560 ZPSHF
14	96	TEH	TSH	.560 ZPSHF
16	4	TSH	TSH	.560 ZPSHF
16	154	TSH	TSH	.560 ZPSHF
17	57	TSH	TSH	.560 ZPSHF
17	59	TSH	TSH	.560 ZPSHF
17	61	TSH	TSH	.560 ZPSHF
17	65	TSH	TSH	.560 ZPSHF
17	69	TSH	TSH	.560 ZPSHF
17	89	TSH	TSH	.560 ZPSHF
17	93	TSH	TSH	.560 ZPSHF
17	97	TSH	TSH	.560 ZPSHF
19	59	TSH	TSH	.560 ZPSHF
19	67	TSH	TSH	.560 ZPSHF
19	85	TSH	TEH	.560 ZPSHF
19	91	TSH	TSH	.560 ZPSHF
19	99	TSH	TSH	.560 ZPSHF
20	30	03C	04C	.560 ZPSHF
21	61	TSH	TSH	.560 ZPSHF
21	65	TSH	TSH	.560 ZPSHF
21	69	TSH	TSH	.560 ZPSHF
21	89	TSH	TSH	.560 ZPSHF
21	93	TSH	TSH	.560 ZPSHF
21	97	TSH	TSH	.560 ZPSHF
21	149	TSH	TSH	.560 ZPSHF
22	4	TSH	TSH	.560 ZPSHF
22	46	TEH	TSH	.560 ZPSHF
22	148	TSH	TSH	.560 ZPSHF
22	150	TSH	TSH	.560 ZPSHF
25	61	TSH	TSH	.560 ZPSHF
25	65	TSH	TSH	.560 ZPSHF
25	69	TSH	TSH	.560 ZPSHF
25	73	TSH	TSH	.560 ZPSHF
25	77	TSH	TSH	.560 ZPSHF
25	81	TSH	TSH	.560 ZPSHF
25	85	TSH	TSH	.560 ZPSHF
25	89	TSH	TSH	.560 ZPSHF
25	93	TSH	TSH	.560 ZPSHF
26	68	08C	09C	.560 ZPSHF
26	68	08C	09C	.560 ZPSHF
27	31	TSC	FBC	.560 ZPSHF
27	67	TSH	TSH	.560 ZPSHF
27	75	TSH	TSH	.560 ZPSHF

SG-B

27	83	TSH	TSH	.560 ZPSHF
27	91	TSH	TSH	.560 ZPSHF
27	133	TEH	TSH	.560 ZPSHF
28	4	TSC	FBC	.560 ZPSHF
28	4	TSH	TSH	.560 ZPSHF
28	148	TSH	TSH	.560 ZPSHF
28	150	TSH	TSH	.560 ZPSHF
29	5	TSH	TSH	.560 ZPSHF
29	15	TEH	TSH	.560 ZPSHF
29	65	TSH	TSH	.560 ZPSHF
29	69	TSH	TSH	.560 ZPSHF
29	73	TSH	TSH	.560 ZPSHF
29	77	TSH	TSH	.560 ZPSHF
29	81	TSH	TSH	.560 ZPSHF
29	83	TSH	TSH	.560 ZPSHF
29	85	TSH	TSH	.560 ZPSHF
29	89	TSH	TSH	.560 ZPSHF
29	93	TSH	TSH	.560 ZPSHF
29	149	TSH	TSH	.560 ZPSHF
30	20	04C	05C	.560 ZPSHF
30	104	01C	02C	.560 ZPSHF
31	83	TSH	TSH	.560 ZPSHF
33	69	TSH	TSH	.560 ZPSHF
33	73	TSH	TSH	.560 ZPSHF
33	77	TSH	TSH	.560 ZPSHF
33	81	TSH	TSH	.560 ZPSHF
33	85	TSH	TSH	.560 ZPSHF
33	89	TSH	TSH	.560 ZPSHF
33	119	01C	02C	.560 ZPSHF
34	148	TSH	TSH	.560 ZPSHF
35	75	TSH	TSH	.560 ZPSHF
35	81	08H	09H	.560 ZPSHF
35	81	TSH	TSH	.560 ZPSHF
35	83	TSH	TSH	.560 ZPSHF
35	145	08H	09H	.560 ZPSHF
35	145	08H	09H	.560 ZPSHF
37	5	TSH	TSH	.560 ZPSHF
37	49	08H	09H	.560 ZPSHF
37	73	TSH	TSH	.560 ZPSHF
37	77	TSH	TSH	.560 ZPSHF
37	81	TSH	TSH	.560 ZPSHF
37	85	TSH	TSH	.560 ZPSHF
37	149	TSH	TSH	.560 ZPSHF
39	141	TEH	TSH	.560 ZPSHF
40	10	TSH	TSH	.560 ZPSHF
40	148	TSH	TSH	.560 ZPSHF
45	149	TSH	TSH	.560 ZPSHF
46	10	TSH	TSH	.560 ZPSHF
46	146	TSH	TSH	.560 ZPSHF
46	148	TSH	TSH	.560 ZPSHF
47	25	01H	02H	.560 ZPSHF
47	25	05H	05H	.560 ZPSHF

SG-B

47	25	06H	07H	.560 ZPSHF
51	137	TSH	TSH	.560 ZPSHF
52	10	TSH	TSH	.560 ZPSHF
52	126	08H	09H	.560 ZPSHF
52	126	08H	09H	.560 ZPSHF
52	142	TSH	TSH	.560 ZPSHF
53	13	TSH	TSH	.560 ZPSHF
53	141	TSH	TSH	.560 ZPSHF
58	104	TEH	TSH	.560 ZPSHF
58	104	TEH	TSH	.560 ZPSHF
58	136	TSH	TSH	.560 ZPSHF
58	142	TSH	TSH	.560 ZPSHF
61	13	TSH	TSH	.560 ZPSHF
61	127	TEH	TSH	.560 ZPSHF
61	141	TSH	TSH	.560 ZPSHF
62	54	07H	08H	.560 ZPSHF
64	16	TSH	TSH	.560 ZPSHF
64	104	TEH	TSH	.560 ZPSHF
64	104	TEH	TSH	.560 ZPSHF
64	136	TSH	TSH	.560 ZPSHF
64	142	TSH	TSH	.560 ZPSHF
65	143	TSH	TSH	.560 ZPSHF
66	28	TEH	TSH	.560 ZPSHF
66	36	05C	06C	.560 ZPSHF
66	42	01C	02C	.560 ZPSHF
66	42	08C	09C	.560 ZPSHF
68	20	04C	05C	.560 ZPSHF
68	46	03C	04C	.560 ZPSHF
69	47	TEH	TSH	.560 ZPSHF
69	141	TSH	TSH	.560 ZPSHF
70	16	TSH	TSH	.560 ZPSHF
70	136	TSH	TSH	.560 ZPSHF
72	24	05C	06C	.560 ZPSHF
72	140	07C	08C	.560 ZPSHF
76	22	TSH	TSH	.560 ZPSHF
76	26	01C	02C	.560 ZPSHF
76	28	TEH	TSH	.560 ZPSHF
76	130	TSH	TSH	.560 ZPSHF
76	136	TSH	TSH	.560 ZPSHF
77	21	TSH	TSH	.560 ZPSHF
77	31	01C	02C	.560 ZPSHF
77	133	TSH	TSH	.560 ZPSHF
77	135	TSH	TSH	.560 ZPSHF
78	26	05C	06C	.560 ZPSHF
78	28	02C	03C	.560 ZPSHF
82	22	TSH	TSH	.560 ZPSHF
82	130	TSH	TSH	.560 ZPSHF
82	136	TSH	TSH	.560 ZPSHF
84	92	09C	09C	.560 ZPSHF
84	92	09C	09C	.560 ZPSHF
84	110	TEH	TEH	.560 ZPSHF
84	110	TEH	TSH	.560 ZPSHF

SG-B

84	110	TEH	TSH	.560 ZPSHF
84	110	TSH	TSH	.560 ZPSHF
85	133	TSH	TSH	.560 ZPSHF
86	116	02C	02C	.560 ZPSHF
87	33	01H	02H	.560 ZPSHF
87	33	FBH	01H	.560 ZPSHF
88	28	TSH	TSH	.560 ZPSHF
88	110	TEH	TSH	.560 ZPSHF
88	124	TSH	TSH	.560 ZPSHF
88	130	TSH	TSH	.560 ZPSHF
93	29	TSH	TSH	.560 ZPSHF
93	111	04C	05C	.560 ZPSHF
93	117	TSH	TSH	.560 ZPSHF
93	125	TSH	TSH	.560 ZPSHF
94	28	TSH	TSH	.560 ZPSHF
94	118	TSH	TSH	.560 ZPSHF
94	124	TSH	TSH	.560 ZPSHF
98	30	09C	09C	.560 ZPSHF
98	30	09C	09C	.560 ZPSHF
99	37	09C	09C	.560 ZPSHF
99	37	09C	09C	.560 ZPSHF
100	34	09C	09C	.560 ZPSHF
100	34	09C	09C	.560 ZPSHF
100	34	TSH	TSH	.560 ZPSHF
100	118	TSH	TSH	.560 ZPSHF
100	124	TSH	TSH	.560 ZPSHF
101	37	TSH	TSH	.560 ZPSHF
101	67	08C	09C	.560 ZPSHF
101	67	08C	09C	.560 ZPSHF
101	67	08C	09C	.560 ZPSHF
101	117	TSH	TSH	.560 ZPSHF
103	35	09C	09C	.560 ZPSHF
103	35	09C	09C	.560 ZPSHF
103	37	09C	09C	.560 ZPSHF
103	37	09C	09C	.560 ZPSHF
104	34	09C	09C	.560 ZPSHF
104	34	09C	09C	.560 ZPSHF
104	36	09C	09C	.560 ZPSHF
104	36	09C	09C	.560 ZPSHF
104	36	09C	09C	.560 ZPSHF
105	37	09C	09C	.560 ZPSHF
105	37	09C	09C	.560 ZPSHF
106	38	09C	09C	.560 ZPSHF
106	38	09C	09C	.560 ZPSHF
106	40	TSH	TSH	.560 ZPSHF
106	106	TSH	TSH	.560 ZPSHF
106	112	TSH	TSH	.560 ZPSHF
106	118	TSH	TSH	.560 ZPSHF
109	45	TSH	TSH	.560 ZPSHF
109	109	TSH	TSH	.560 ZPSHF
109	117	TSH	TSH	.560 ZPSHF
110	40	09C	09C	.560 ZPSHF

SG-B

110	116	09C	09C	.560 ZPSHF
110	116	09C	09C	.560 ZPSHF
111	43	09C	09C	.560 ZPSHF
111	43	09C	09C	.560 ZPSHF
112	46	TSH	TSH	.560 ZPSHF
112	48	09C	09C	.560 ZPSHF
112	48	09C	09C	.560 ZPSHF
112	106	TSH	TSH	.560 ZPSHF
112	112	TSH	TSH	.560 ZPSHF
113	51	09C	09C	.560 ZPSHF
113	113	09C	09C	.560 ZPSHF
113	113	09C	09C	.560 ZPSHF
114	50	09C	09C	.560 ZPSHF
114	50	09C	09C	.560 ZPSHF
114	108	09C	09C	.560 ZPSHF
114	108	09C	09C	.560 ZPSHF
115	53	01H	02H	.560 ZPSHF
115	53	04H	05H	.560 ZPSHF
115	53	05H	06H	.560 ZPSHF
115	63	TSC	FBC	.560 ZPSHF
116	110	09C	09C	.560 ZPSHF
117	53	TSH	TSH	.560 ZPSHF
117	101	TSH	TSH	.560 ZPSHF
118	52	TSH	TSH	.560 ZPSHF
118	58	TSH	TSH	.560 ZPSHF
118	100	TSH	TSH	.560 ZPSHF
118	106	TSH	TSH	.560 ZPSHF
119	77	TSC	FBC	.560 ZPSHF
119	103	09C	09C	.560 ZPSHF
119	103	09C	09C	.560 ZPSHF
119	105	09C	09C	.560 ZPSHF
119	105	09C	09C	.560 ZPSHF
120	56	02H	03H	.560 ZPSHF
120	100	09C	09C	.560 ZPSHF
120	104	09C	09C	.560 ZPSHF
122	100	09C	09C	.560 ZPSHF
124	64	TSH	FBH	.560 ZPSHF
124	70	TSH	TSH	.560 ZPSHF
124	76	TSH	TSH	.560 ZPSHF
124	82	TSH	TSH	.560 ZPSHF
124	88	TSH	TSH	.560 ZPSHF
124	94	TSH	TSH	.560 ZPSHF
125	65	09C	09C	.560 ZPSHF
125	69	TSH	TSH	.560 ZPSHF
125	77	TSH	TSH	.560 ZPSHF
125	85	TSH	TSH	.560 ZPSHF
125	89	09C	09C	.560 ZPSHF
125	93	TSH	TSH	.560 ZPSHF
126	72	02C	02C	.560 ZPSHF
126	72	02C	03C	.560 ZPSHF
126	72	09C	09C	.560 ZPSHF
126	78	09C	09C	.560 ZPSHF

SG-B

126	84	09C	09C	.560 ZPSHF
126	86	09C	09C	.560 ZPSHF
126	86	09C	09C	.560 ZPSHF
127	69	09C	09C	.560 ZPSHF
127	75	09C	09C	.560 ZPSHF
127	81	09C	09C	.560 ZPSHF
127	87	09C	09C	.560 ZPSHF

SG-C

ROW	COL	BEGIN TEST	END TEST	PROBE
2	50	09C	09H	.520 ZPUMB
2	54	TSH	TSH	.560 ZPSHF
2	58	TSH	TSH	.560 ZPSHF
2	62	TSH	TSH	.560 ZPSHF
2	66	TSH	TSH	.560 ZPSHF
2	86	TSH	TSH	.560 ZPSHF
2	90	TSH	TSH	.560 ZPSHF
2	94	TSH	TSH	.560 ZPSHF
2	98	TSH	TSH	.560 ZPSHF
2	102	TSH	TSH	.560 ZPSHF
3	53	TSH	TSH	.560 ZPSHF
3	63	TSH	TSH	.560 ZPSHF
3	93	TSH	TSH	.560 ZPSHF
3	103	TSH	TSH	.560 ZPSHF
4	4	TSH	TSH	.560 ZPSHF
4	60	TSH	TSH	.560 ZPSHF
4	154	TSH	TSH	.560 ZPSHF
5	3	TEH	TSH	.560 ZPSHF
5	147	04C	05C	.560 ZPSHF
6	54	TSH	TSH	.560 ZPSHF
6	58	TSH	TSH	.560 ZPSHF
6	62	TSH	TSH	.560 ZPSHF
6	66	TSH	TSH	.560 ZPSHF
6	86	TSH	TSH	.560 ZPSHF
6	90	TSH	TSH	.560 ZPSHF
6	94	TSH	TSH	.560 ZPSHF
6	98	TSH	TSH	.560 ZPSHF
6	100	TSH	TSH	.560 ZPSHF
6	102	TSH	TSH	.560 ZPSHF
6	108	06C	07C	.560 ZPSHF
6	152	TSH	TSH	.560 ZPSHF
8	58	TSH	TSH	.560 ZPSHF
8	88	TSH	TSH	.560 ZPSHF
8	98	TSH	TSH	.560 ZPSHF
8	154	05C	06C	.560 ZPSHF
10	4	TSH	TSH	.560 ZPSHF
10	54	TSH	TSH	.560 ZPSHF
10	58	TSH	TSH	.560 ZPSHF
10	62	TSH	TSH	.560 ZPSHF
10	66	TSH	TSH	.560 ZPSHF
10	86	TSH	TSH	.560 ZPSHF
10	90	TSH	TSH	.560 ZPSHF
10	94	TSH	TSH	.560 ZPSHF
10	98	TSH	TSH	.560 ZPSHF
10	102	TSH	TSH	.560 ZPSHF
10	154	TSH	TSH	.560 ZPSHF
11	43	06C	07C	.560 ZPSHF
13	63			.560 ZPSHF
13	63	TSH	TSH	.560 ZPSHF
13	93	TSH	TSH	.560 ZPSHF
13	151	TSH	TSH	.560 ZPSHF

SG-C

14	58	TSH	TSH	.560 ZPSHF
14	62	TSH	TSH	.560 ZPSHF
14	66	TSH	TSH	.560 ZPSHF
14	86	TSH	TSH	.560 ZPSHF
14	88	TSH	TSH	.560 ZPSHF
14	90	TSH	TSH	.560 ZPSHF
14	94	TSH	TSH	.560 ZPSHF
14	98	TSH	TSH	.560 ZPSHF
14	132	02C	03C	.560 ZPSHF
14	150	06C	06C	.560 ZPSHF
15	117	08C	09C	.560 ZPSHF
16	4	TSH	TSH	.560 ZPSHF
16	154	TSH	TSH	.560 ZPSHF
18	58	TSH	TSH	.560 ZPSHF
18	62	TSH	TSH	.560 ZPSHF
18	66	TSH	TSH	.560 ZPSHF
18	86	TSH	TSH	.560 ZPSHF
18	88	TSH	TSH	.560 ZPSHF
18	90	TSH	TSH	.560 ZPSHF
18	94	TSH	TSH	.560 ZPSHF
18	98	TSH	TSH	.560 ZPSHF
19	49	03C	04C	.560 ZPSHF
19	127	09H	09H	.560 ZPSHF
20	40	FBC	01C	.560 ZPSHF
20	130	09C	09C	.560 ZPSHF
20	130	09H	09H	.560 ZPSHF
21	77	08C	09C	.560 ZPSHF
21	115	05C	05C	.560 ZPSHF
21	149	TSH	TSH	.560 ZPSHF
22	4	TSH	TSH	.560 ZPSHF
22	58	TSH	TSH	.560 ZPSHF
22	62	TSH	TSH	.560 ZPSHF
22	66	TSH	TSH	.560 ZPSHF
22	70	TSH	TSH	.560 ZPSHF
22	74	TSH	TSH	.560 ZPSHF
22	78	TSH	TSH	.560 ZPSHF
22	82	TSH	TSH	.560 ZPSHF
22	86	TSH	TSH	.560 ZPSHF
22	90	TSH	TSH	.560 ZPSHF
22	94	TSH	TSH	.560 ZPSHF
22	98	TSH	TSH	.560 ZPSHF
22	148	TSH	TSH	.560 ZPSHF
23	63	TSH	TSH	.560 ZPSHF
23	73	TSH	TSH	.560 ZPSHF
23	77	TSH	TSH	.560 ZPSHF
23	83	TSH	TSH	.560 ZPSHF
23	93	TSH	TSH	.560 ZPSHF
24	130	08C	09C	.560 ZPSHF
25	57	03C	04C	.560 ZPSHF
26	62	TSH	TSH	.560 ZPSHF
26	66	08C	09C	.560 ZPSHF
26	66	TSH	TSH	.560 ZPSHF

SG-C

26	70	TSH	TSH	.560 ZPSHF
26	74	TSH	TSH	.560 ZPSHF
26	78	TSH	TSH	.560 ZPSHF
26	82	TSH	TSH	.560 ZPSHF
26	86	TSH	TSH	.560 ZPSHF
26	90	TSH	TSH	.560 ZPSHF
26	94	TSH	TSH	.560 ZPSHF
26	148	TSH	TSH	.560 ZPSHF
28	4	TSH	TSH	.560 ZPSHF
28	68	TSH	TSH	.560 ZPSHF
28	78	TSH	TSH	.560 ZPSHF
28	88	TSH	TSH	.560 ZPSHF
28	148	TSH	TSH	.560 ZPSHF
28	152	08C	09C	.560 ZPSHF
28	152	08C	09C	.560 ZPSHF
28	152	08C	09C	.560 ZPSHF
29	5	TSH	TSH	.560 ZPSHF
29	149	TSH	TSH	.560 ZPSHF
30	66	TSH	TSH	.560 ZPSHF
30	70	TSH	TSH	.560 ZPSHF
30	74	TSH	TSH	.560 ZPSHF
30	78	TSH	TSH	.560 ZPSHF
30	82	TSH	TSH	.560 ZPSHF
30	86	TSH	TSH	.560 ZPSHF
30	90	TSH	TSH	.560 ZPSHF
30	92	07C	07C	.560 ZPSHF
30	106	07C	08C	.560 ZPSHF
30	106	07H	08H	.560 ZPSHF
30	106	07H	08H	.560 ZPSHF
33	73	TSH	TSH	.560 ZPSHF
33	83	TSH	TSH	.560 ZPSHF
34	70	TSH	TSH	.560 ZPSHF
34	74	TSH	TSH	.560 ZPSHF
34	78	TSH	TSH	.560 ZPSHF
34	82	TSH	TSH	.560 ZPSHF
34	84	TSH	TSH	.560 ZPSHF
34	86	TSH	TSH	.560 ZPSHF
34	148	TSH	TSH	.560 ZPSHF
37	5	TSH	TSH	.560 ZPSHF
37	13	01C	02C	.560 ZPSHF
37	145	08C	09C	.560 ZPSHF
37	145	08C	09C	.560 ZPSHF
37	149	TSH	TSH	.560 ZPSHF
38	74	TSH	TSH	.560 ZPSHF
38	78	TSH	TSH	.560 ZPSHF
38	82	TSH	TSH	.560 ZPSHF
39	65	08C	09C	.560 ZPSHF
39	75	06C	06C	.560 ZPSHF
39	121	08H	09H	.560 ZPSHF
39	121	08H	09H	.560 ZPSHF
39	149	TSH	TSH	.560 ZPSHF
40	10	TSH	TSH	.560 ZPSHF

SG-C

40	148	TSH	TSH	.560 ZPSHF
41	51	07C	08C	.560 ZPSHF
44	16	08C	09C	.560 ZPSHF
44	16	08C	09C	.560 ZPSHF
44	16	08C	09C	.560 ZPSHF
44	16	08C	09C	.560 ZPSHF
44	16	08C	09C	.560 ZPSHF
44	16	08H	09H	.560 ZPSHF
44	16	08H	09H	.560 ZPSHF
44	16	08H	09H	.560 ZPSHF
45	149	TSH	TSH	.560 ZPSHF
46	10	TSH	TSH	.560 ZPSHF
46	92	FBH	01H	.560 ZPSHF
46	148	TSH	TSH	.560 ZPSHF
48	26	02C	02C	.560 ZPSHF
48	66	08C	09C	.560 ZPSHF
48	66	08C	09C	.560 ZPSHF
49	111	05C	06C	.560 ZPSHF
50	54	TEH	TSH	.560 ZPSHF
50	54	TEH	TSH	.560 ZPSHF
50	54	TEH	TSH	.560 ZPSHF
50	54	TEH	TSH	.560 ZPSHF
50	84	08C	09C	.560 ZPSHF
52	10	TSH	TSH	.560 ZPSHF
52	142	TSH	TSH	.560 ZPSHF
53	13	TSH	TSH	.560 ZPSHF
53	57	06H	07H	.560 ZPSHF
53	141	TSH	TSH	.560 ZPSHF
54	12	TSH	TSH	.560 ZPSHF
55	33	07C	08C	.560 ZPSHF
55	57	04H	05H	.560 ZPSHF
55	67	04C	05C	.560 ZPSHF
56	132	05C	05C	.560 ZPSHF
58	14	08H	09H	.560 ZPSHF
58	14	08H	09H	.560 ZPSHF
58	134	TSH	TSH	.560 ZPSHF
58	142	TSH	TSH	.560 ZPSHF
59	51	TSC	FBC	.560 ZPSHF
59	133	FBC	01C	.560 ZPSHF
60	52	08C	09C	.560 ZPSHF
61	13	TSH	TSH	.560 ZPSHF
61	65	09H	09H	.560 ZPSHF
61	65	09H	09H	.560 ZPSHF
61	127	02H	03H	.560 ZPSHF
61	141	TSH	TSH	.560 ZPSHF
62	58	08C	09C	.560 ZPSHF
64	16	TSH	TSH	.560 ZPSHF
64	72	TEH	TSH	.560 ZPSHF
64	140	07C	08C	.560 ZPSHF
64	140	09C	09C	.560 ZPSHF
64	142	TSH	TSH	.560 ZPSHF
65	13	TSH	TSH	.560 ZPSHF

SG-C

68	16	FBC	01C	.560 ZPSHF
69	17	TSH	TSH	.560 ZPSHF
69	141	TSH	TSH	.560 ZPSHF
70	16	TSH	TSH	.560 ZPSHF
70	116	03H	04H	.560 ZPSHF
70	136	TSH	TSH	.560 ZPSHF
71	15	07C	08C	.560 ZPSHF
72	138	09C	09C	.560 ZPSHF
72	138	09C	09C	.560 ZPSHF
74	128	TSH	TSH	.560 ZPSHF
74	132	TSH	TSH	.560 ZPSHF
75	139	02C	02C	.560 ZPSHF
76	22	TSH	TSH	.560 ZPSHF
76	130	TSH	TSH	.560 ZPSHF
76	136	09C	09C	.560 ZPSHF
76	136	TSH	TSH	.560 ZPSHF
77	21	TSH	TSH	.560 ZPSHF
77	133	TSH	TSH	.560 ZPSHF
80	132	TSH	TSH	.560 ZPSHF
82	22	TSH	TSH	.560 ZPSHF
82	130	TSH	TSH	.560 ZPSHF
82	136	TSH	TSH	.560 ZPSHF
83	21	08C	09C	.560 ZPSHF
83	129	TSH	TSH	.560 ZPSHF
84	132	09C	09C	.560 ZPSHF
85	133	TSH	TSH	.560 ZPSHF
86	130	TSH	TSH	.560 ZPSHF
86	132	09C	09C	.560 ZPSHF
88	28	TSH	TSH	.560 ZPSHF
88	124	TSH	TSH	.560 ZPSHF
88	130	09C	09C	.560 ZPSHF
88	130	09C	09C	.560 ZPSHF
88	130	TSH	TSH	.560 ZPSHF
90	56	07C	08C	.560 ZPSHF
90	70	03C	04C	.560 ZPSHF
90	128	09C	09C	.560 ZPSHF
93	29	TSH	TSH	.560 ZPSHF
93	33	01C	02C	.560 ZPSHF
93	91	08C	09C	.560 ZPSHF
93	91	08C	09C	.560 ZPSHF
93	117	TSH	TSH	.560 ZPSHF
93	125	08C	08C	.560 ZPSHF
93	125	TSH	TSH	.560 ZPSHF
94	28	TSH	TSH	.560 ZPSHF
94	114	TEH	TSH	.560 ZPSHF
94	118	TSH	TSH	.560 ZPSHF
94	124	TSH	TSH	.560 ZPSHF
95	117	TSH	TSH	.560 ZPSHF
97	71	04C	05C	.560 ZPSHF
98	70	FBH	01H	.560 ZPSHF
100	34	TSH	TSH	.560 ZPSHF
100	118	TSH	TSH	.560 ZPSHF

SG-C

100	124	TSH	TSH	.560 ZPSHF
101	37	TSH	TSH	.560 ZPSHF
101	117	TSH	TSH	.560 ZPSHF
102	60	05C	06C	.560 ZPSHF
102	120	09C	09C	.560 ZPSHF
103	55	08H	09H	.560 ZPSHF
103	121	08C	08C	.560 ZPSHF
106	40	TSH	TSH	.560 ZPSHF
106	106	TSH	TSH	.560 ZPSHF
106	112	TSH	TSH	.560 ZPSHF
106	118	TSH	TSH	.560 ZPSHF
107	43	TSC	FBC	.560 ZPSHF
107	113	09C	09C	.560 ZPSHF
107	113	09C	09C	.560 ZPSHF
107	117	08C	08C	.560 ZPSHF
107	117	08C	08C	.560 ZPSHF
108	50	06H	07H	.560 ZPSHF
108	50	TSH	FBH	.560 ZPSHF
108	102	02C	03C	.560 ZPSHF
108	114	08C	08C	.560 ZPSHF
108	114	08C	08C	.560 ZPSHF
108	114	09C	09C	.560 ZPSHF
108	118	08C	08C	.560 ZPSHF
108	118	08C	08C	.560 ZPSHF
109	45	TSH	TSH	.560 ZPSHF
109	109	TSH	TSH	.560 ZPSHF
109	113	08C	08C	.560 ZPSHF
109	113	08C	08C	.560 ZPSHF
109	115	09C	09C	.560 ZPSHF
109	115	09C	09C	.560 ZPSHF
109	117	08C	08C	.560 ZPSHF
109	117	08C	08C	.560 ZPSHF
109	117	TSH	TSH	.560 ZPSHF
110	72	02H	03H	.560 ZPSHF
110	110	09C	09C	.560 ZPSHF
110	110	09C	09C	.560 ZPSHF
110	114	08C	08C	.560 ZPSHF
110	114	08C	08C	.560 ZPSHF
110	116	08C	08C	.560 ZPSHF
110	116	08C	08C	.560 ZPSHF
111	55	TEH	TSH	.560 ZPSHF
111	55	TSH	FBH	.560 ZPSHF
111	107	09C	09C	.560 ZPSHF
111	107	09C	09C	.560 ZPSHF
111	113	09C	09C	.560 ZPSHF
111	113	09C	09C	.560 ZPSHF
112	46	TSH	TSH	.560 ZPSHF
112	106	TSH	TSH	.560 ZPSHF
112	112	08C	08C	.560 ZPSHF
112	112	08C	08C	.560 ZPSHF
112	112	TSH	TSH	.560 ZPSHF
113	111	08C	08C	.560 ZPSHF

SG-C

113	111	08C	08C	.560 ZPSHF
114	106	09C	09C	.560 ZPSHF
114	108	08C	08C	.560 ZPSHF
114	108	08C	08C	.560 ZPSHF
114	110	08C	08C	.560 ZPSHF
114	110	08C	08C	.560 ZPSHF
115	51	TSH	FBH	.560 ZPSHF
115	65	TEH	TSH	.560 ZPSHF
116	48	TSH	TSH	.560 ZPSHF
116	98	TSH	TSH	.560 ZPSHF
116	110	08C	08C	.560 ZPSHF
116	110	08C	08C	.560 ZPSHF
117	53	TSH	TSH	.560 ZPSHF
117	55	TEH	TSH	.560 ZPSHF
117	55	TSH	FBH	.560 ZPSHF
117	101	TSH	TSH	.560 ZPSHF
118	52	TSH	TSH	.560 ZPSHF
118	58	TSH	TSH	.560 ZPSHF
118	72	03H	04H	.560 ZPSHF
118	100	TSH	TSH	.560 ZPSHF
118	104	08C	08C	.560 ZPSHF
118	104	08C	08C	.560 ZPSHF
118	106	TSH	TSH	.560 ZPSHF
119	55	TEH	TSH	.560 ZPSHF
119	55	TSH	FBH	.560 ZPSHF
119	105	08C	08C	.560 ZPSHF
119	105	08C	08C	.560 ZPSHF
120	56	09C	09C	.560 ZPSHF
120	56	09C	09C	.560 ZPSHF
120	64	TEH	TSH	.560 ZPSHF
120	102	08C	08C	.560 ZPSHF
120	104	TSH	TSH	.560 ZPSHF
121	55	09H	09H	.560 ZPSHF
121	55	09H	09H	.560 ZPSHF
121	63	09C	09C	.560 ZPSHF
121	63	09C	09C	.560 ZPSHF
121	99	09C	09C	.560 ZPSHF
121	99	09C	09C	.560 ZPSHF
122	60	TSH	TSH	.560 ZPSHF
122	68	TEH	TSH	.560 ZPSHF
122	98	09C	09C	.560 ZPSHF
122	98	09C	09C	.560 ZPSHF
123	59	09C	09C	.560 ZPSHF
123	59	09C	09C	.560 ZPSHF
123	63	09C	09C	.560 ZPSHF
123	97	09C	09C	.560 ZPSHF
124	62	09C	09C	.560 ZPSHF
124	64	TSH	TSH	.560 ZPSHF
124	70	TSH	TSH	.560 ZPSHF
124	76	TSH	TSH	.560 ZPSHF
124	78	09C	09C	.560 ZPSHF
124	82	TSH	TSH	.560 ZPSHF

SG-C

124	88	TSH	TSH	.560 ZPSHF
124	94	TSH	TSH	.560 ZPSHF
125	65	09C	09C	.560 ZPSHF
125	65	09C	09C	.560 ZPSHF
125	69	TSH	TSH	.560 ZPSHF
125	75	09C	09C	.560 ZPSHF
125	77	TSH	TSH	.560 ZPSHF
125	81	09C	09C	.560 ZPSHF
125	85	TSH	TSH	.560 ZPSHF
125	87	09C	09C	.560 ZPSHF
125	91	09C	09C	.560 ZPSHF
125	91	09C	09C	.560 ZPSHF
125	91	09C	09C	.560 ZPSHF
125	93	TSH	TSH	.560 ZPSHF
126	66	09C	09C	.560 ZPSHF
126	68	09C	09C	.560 ZPSHF
126	68	09C	09C	.560 ZPSHF
126	72	09C	09C	.560 ZPSHF
126	72	09C	09C	.560 ZPSHF
126	74	09C	09C	.560 ZPSHF
126	74	09C	09C	.560 ZPSHF
126	78	05C	06C	.560 ZPSHF
126	78	07C	08C	.560 ZPSHF
126	78	09C	09C	.560 ZPSHF
126	78	09C	09C	.560 ZPSHF
126	82	09C	09C	.560 ZPSHF
126	84	09C	09C	.560 ZPSHF
126	84	09C	09C	.560 ZPSHF
126	88	09C	09C	.560 ZPSHF
126	88	09C	09C	.560 ZPSHF
127	75	09C	09C	.560 ZPSHF
127	75	09C	09C	.560 ZPSHF

Tube Examined By RPC

SG-D

ROW	COL	BEGIN TEST	END TEST	PROBE
1	115	09H	09C	.520 ZPUMB
1	115	09H	09C	.520 ZPUMB
1	115	09H	09C	.520 ZPUMB
2	22	TEH	TSH	.560 ZPSHF
2	32	TEH	TSH	.560 ZPSHF
2	36	TEH	TSH	.560 ZPSHF
2	54	TSH	TSH	.560 ZPSHF
2	56	TEH	TSH	.560 ZPSHF
2	58	TSH	TSH	.560 ZPSHF
2	62	TSH	TSH	.560 ZPSHF
2	66	TSH	TSH	.560 ZPSHF
2	86	TSH	TSH	.560 ZPSHF
2	88	TSH	TSH	.560 ZPSHF
2	90	TSH	TSH	.560 ZPSHF
2	94	TSH	TSH	.560 ZPSHF
2	98	TSH	TSH	.560 ZPSHF
2	102	TSH	TSH	.560 ZPSHF
2	110	09H	09C	.520 ZPUMB
3	21	07C	08C	.560 ZPSHF
3	53	TSH	TSH	.560 ZPSHF
3	57	07C	08C	.560 ZPSHF
3	63	TSH	TSH	.560 ZPSHF
3	93	TSH	TSH	.560 ZPSHF
3	103	TSH	TSH	.560 ZPSHF
4	4	TSH	TSH	.560 ZPSHF
4	40	TEH	TSH	.560 ZPSHF
4	60	TSH	TSH	.560 ZPSHF
4	154	TSH	TSH	.560 ZPSHF
5	27	TEH	TSH	.560 ZPSHF
5	31	TEH	TSH	.560 ZPSHF
5	153	TEH	TSH	.560 ZPSHF
6	54	TSH	TSH	.560 ZPSHF
6	58	TSH	TSH	.560 ZPSHF
6	62	TSH	TSH	.560 ZPSHF
6	66	TSH	TSH	.560 ZPSHF
6	86	TSH	TSH	.560 ZPSHF
6	90	TSH	TSH	.560 ZPSHF
6	94	TSH	TSH	.560 ZPSHF
6	98	TSH	TSH	.560 ZPSHF
6	100	TSH	TSH	.560 ZPSHF
6	102	TSH	TSH	.560 ZPSHF
6	148	01C	02C	.560 ZPSHF
6	152	TSH	TSH	.560 ZPSHF
7	59	01C	02C	.560 ZPSHF
7	59	02C	03C	.560 ZPSHF
8	58	TSH	TSH	.560 ZPSHF
8	88	TSH	TSH	.560 ZPSHF
8	98	TSH	TSH	.560 ZPSHF
8	120	02C	03C	.560 ZPSHF
8	150	FBC	01C	.560 ZPSHF
9	19	TSH	FBH	.560 ZPSHF

SG-D

9	19	TSH	FBH	.560 ZPSHF
9	113	FBC	01C	.560 ZPSHF
10	4	TSH	TSH	.560 ZPSHF
10	54	FBH	01H	.560 ZPSHF
10	54	TSH	TSH	.560 ZPSHF
10	58	TSH	TSH	.560 ZPSHF
10	62	TSC	01C	.560 ZPSHF
10	62	TSH	TSH	.560 ZPSHF
10	66	TSH	TSH	.560 ZPSHF
10	86	TSH	TSH	.560 ZPSHF
10	90	TSH	TSH	.560 ZPSHF
10	94	TSH	TSH	.560 ZPSHF
10	98	TSH	TSH	.560 ZPSHF
10	102	TSH	TSH	.560 ZPSHF
10	104	FBH	01H	.560 ZPSHF
10	144	03C	04C	.560 ZPSHF
10	154	TSH	TSH	.560 ZPSHF
13	63	TSH	TSH	.560 ZPSHF
13	93	TSH	TSH	.560 ZPSHF
13	151	TSH	TSH	.560 ZPSHF
14	58	TSH	TSH	.560 ZPSHF
14	62	TSH	TSH	.560 ZPSHF
14	66	TSH	TSH	.560 ZPSHF
14	86	TSH	TSH	.560 ZPSHF
14	88	TSH	TSH	.560 ZPSHF
14	90	TSH	TSH	.560 ZPSHF
14	94	TSH	TSH	.560 ZPSHF
14	98	TSH	TSH	.560 ZPSHF
16	4	TSH	TSH	.560 ZPSHF
16	154	TSH	TSH	.560 ZPSHF
18	58	TSH	TSH	.560 ZPSHF
18	62	TSH	TSH	.560 ZPSHF
18	66	TSH	TSH	.560 ZPSHF
18	82	04C	05C	.560 ZPSHF
18	86	TSH	TSH	.560 ZPSHF
18	88	TSH	TSH	.560 ZPSHF
18	90	TSH	TSH	.560 ZPSHF
18	94	TSH	TSH	.560 ZPSHF
18	98	TSH	TSH	.560 ZPSHF
19	131	09C	09C	.560 ZPSHF
21	149	TSH	TSH	.560 ZPSHF
22	4	TSH	TSH	.560 ZPSHF
22	58	TSH	TSH	.560 ZPSHF
22	62	TSH	TSH	.560 ZPSHF
22	66	TSH	TSH	.560 ZPSHF
22	70	TSH	TSH	.560 ZPSHF
22	74	TSH	TSH	.560 ZPSHF
22	78	TSH	TSH	.560 ZPSHF
22	82	TSH	TSH	.560 ZPSHF
22	86	TSH	TSH	.560 ZPSHF
22	90	TSH	TSH	.560 ZPSHF
22	90	TSH	TSH	.560 ZPSHF

SG-D

22	94	TSH	TSH	.560 ZPSHF
22	98	TSH	TSH	.560 ZPSHF
22	116	TSC	FBC	.560 ZPSHF
22	142	TSH	TEH	.560 ZPSHF
22	142	TSH	TEH	.560 ZPSHF
22	148	TSH	TSH	.560 ZPSHF
23	63	TSH	TSH	.560 ZPSHF
23	73	TSH	TSH	.560 ZPSHF
23	77	TSH	TSH	.560 ZPSHF
23	83	TSH	TSH	.560 ZPSHF
23	93	TSH	TSH	.560 ZPSHF
23	137	09C	09C	.560 ZPSHF
24	88	TSH	TSH	.560 ZPSHF
24	94	TSH	TSH	.560 ZPSHF
26	62	TSH	TSH	.560 ZPSHF
26	66	TSH	TSH	.560 ZPSHF
26	70	TSH	TSH	.560 ZPSHF
26	74	TSH	TSH	.560 ZPSHF
26	78	TSH	TSH	.560 ZPSHF
26	82	TSH	TSH	.560 ZPSHF
26	86	TSH	TSH	.560 ZPSHF
26	90	TSH	TSH	.560 ZPSHF
26	94	TSH	TSH	.560 ZPSHF
26	148	TSH	TSH	.560 ZPSHF
28	4	TSH	TSH	.560 ZPSHF
28	68	TSH	TSH	.560 ZPSHF
28	78	TSH	TSH	.560 ZPSHF
28	88	TSH	TSH	.560 ZPSHF
28	148	TSH	TSH	.560 ZPSHF
29	5	TSH	TSH	.560 ZPSHF
29	117	08H	09H	.560 ZPSHF
29	117	08H	09H	.560 ZPSHF
29	149	TSH	TSH	.560 ZPSHF
30	32	01C	02C	.560 ZPSHF
30	64	09C	09C	.560 ZPSHF
30	66	TSH	TSH	.560 ZPSHF
30	70	TSH	TSH	.560 ZPSHF
30	74	TSH	TSH	.560 ZPSHF
30	78	TSH	TSH	.560 ZPSHF
30	82	TSH	TSH	.560 ZPSHF
30	86	TSH	TSH	.560 ZPSHF
30	90	TSH	TSH	.560 ZPSHF
30	108	02H	03H	.560 ZPSHF
33	73	TSH	TSH	.560 ZPSHF
33	83	TSH	TSH	.560 ZPSHF
34	70	TSH	TSH	.560 ZPSHF
34	74	TSH	TSH	.560 ZPSHF
34	78	TSH	TSH	.560 ZPSHF
34	82	TSH	TSH	.560 ZPSHF
34	84	TSH	TSH	.560 ZPSHF
34	86	TSH	TSH	.560 ZPSHF
34	148	TSH	TSH	.560 ZPSHF

SG-D

36	80	08C	09C	.560 ZPSHF
37	5	TSH	TSH	.560 ZPSHF
37	11	04C	05C	.560 ZPSHF
37	11	05C	06C	.560 ZPSHF
37	149	TSH	TSH	.560 ZPSHF
38	74	TSH	TSH	.560 ZPSHF
38	78	TSH	TSH	.560 ZPSHF
38	82	TSH	TSH	.560 ZPSHF
38	92	04C	05C	.560 ZPSHF
39	149	TSH	TSH	.560 ZPSHF
40	10	TSH	TSH	.560 ZPSHF
40	148	TSH	TSH	.560 ZPSHF
42	108	08H	09H	.560 ZPSHF
43	79	06C	07C	.560 ZPSHF
45	149	TSH	TSH	.560 ZPSHF
46	10	TSH	TSH	.560 ZPSHF
46	136	09H	09H	.560 ZPSHF
46	148	TSH	TSH	.560 ZPSHF
47	145	06C	07C	.560 ZPSHF
48	136	08C	09C	.560 ZPSHF
52	10	TSH	TSH	.560 ZPSHF
52	142	TSH	TSH	.560 ZPSHF
53	13	TSH	TSH	.560 ZPSHF
53	141	TSH	TSH	.560 ZPSHF
54	12	TSH	TSH	.560 ZPSHF
56	116	08C	08C	.560 ZPSHF
58	136	TSH	TSH	.560 ZPSHF
58	142	TSH	TSH	.560 ZPSHF
61	13	TSH	TSH	.560 ZPSHF
61	141	TSH	TSH	.560 ZPSHF
64	16	TSH	TSH	.560 ZPSHF
64	136	TSH	TSH	.560 ZPSHF
64	142	TSH	TSH	.560 ZPSHF
65	13	TSH	TSH	.560 ZPSHF
69	17	TSH	TSH	.560 ZPSHF
69	19	07H	08H	.560 ZPSHF
69	141	TSH	TSH	.560 ZPSHF
70	16	TSH	TSH	.560 ZPSHF
70	132	08H	09H	.560 ZPSHF
70	136	TSH	TSH	.560 ZPSHF
71	119	02C	03C	.560 ZPSHF
72	136	09C	09C	.560 ZPSHF
74	132	TSH	TSH	.560 ZPSHF
76	22	TSH	TSH	.560 ZPSHF
76	130	TSH	TSH	.560 ZPSHF
76	136	TSH	TSH	.560 ZPSHF
77	21	TSH	TSH	.560 ZPSHF
77	87	08C	09C	.560 ZPSHF
77	133	TSH	TSH	.560 ZPSHF
79	51	08H	09H	.560 ZPSHF
80	132	TSH	TSH	.560 ZPSHF
82	22	TSH	TSH	.560 ZPSHF

SG-D

82	126	04C	05C	.560 ZPSHF
82	130	TSH	TSH	.560 ZPSHF
82	136	TSH	TSH	.560 ZPSHF
83	129	TSH	TSH	.560 ZPSHF
85	133	TSH	TSH	.560 ZPSHF
86	130	TSH	TSH	.560 ZPSHF
87	121	08H	09H	.560 ZPSHF
88	28	TSH	TSH	.560 ZPSHF
88	124	TSH	TSH	.560 ZPSHF
88	130	TSH	TSH	.560 ZPSHF
93	29	TSH	TSH	.560 ZPSHF
93	117	TSH	TSH	.560 ZPSHF
93	125	TSH	TSH	.560 ZPSHF
94	28	TSH	TSH	.560 ZPSHF
94	118	TSH	TSH	.560 ZPSHF
94	124	TSH	TSH	.560 ZPSHF
95	117	TSH	TSH	.560 ZPSHF
96	50	08H	09H	.560 ZPSHF
96	50	08H	09H	.560 ZPSHF
97	67	05H	05H	.560 ZPSHF
98	110	02H	03H	.560 ZPSHF
99	121	03H	04H	.560 ZPSHF
100	34	TSH	TSH	.560 ZPSHF
100	118	TSH	TSH	.560 ZPSHF
100	124	TSH	TSH	.560 ZPSHF
101	37	TSH	TSH	.560 ZPSHF
101	117	TSH	TSH	.560 ZPSHF
104	100	02C	03C	.560 ZPSHF
105	107	07C	08C	.560 ZPSHF
106	40	TSH	TSH	.560 ZPSHF
106	104	05C	06C	.560 ZPSHF
106	106	TSH	TSH	.560 ZPSHF
106	112	TSH	TSH	.560 ZPSHF
106	118	TSH	TSH	.560 ZPSHF
108	42	TSC	FBC	.560 ZPSHF
109	45	TSH	TSH	.560 ZPSHF
109	109	TSH	TSH	.560 ZPSHF
109	117	TSH	TSH	.560 ZPSHF
112	46	TSH	TSH	.560 ZPSHF
112	106	TSH	TSH	.560 ZPSHF
112	112	TSH	TSH	.560 ZPSHF
116	48	TSH	TSH	.560 ZPSHF
116	98	TSH	TSH	.560 ZPSHF
117	53	TSH	TSH	.560 ZPSHF
117	57	08C	09C	.560 ZPSHF
117	101	TSH	TSH	.560 ZPSHF
118	52	TSH	TSH	.560 ZPSHF
118	58	TSH	TSH	.560 ZPSHF
118	100	TSH	TSH	.560 ZPSHF
118	106	TSH	TSH	.560 ZPSHF
119	51	08C	09C	.560 ZPSHF
119	51	08C	09C	.560 ZPSHF

SG-D

119	53	09C	09C	.560 ZPSHF
119	53	09C	09C	.560 ZPSHF
120	104	TSH	TSH	.560 ZPSHF
122	60	TSH	TSH	.560 ZPSHF
124	64	TSH	TSH	.560 ZPSHF
124	70	TSH	TSH	.560 ZPSHF
124	76	TSH	TSH	.560 ZPSHF
124	82	TSH	TSH	.560 ZPSHF
124	88	TSH	TSH	.560 ZPSHF
124	94	TSH	TSH	.560 ZPSHF
125	69	TSH	TSH	.560 ZPSHF
125	77	TSH	TSH	.560 ZPSHF
125	85	TSH	TSH	.560 ZPSHF
125	93	TSH	TSH	.560 ZPSHF

APPENDIX C

DENTS

AND

DINGS

SG-A

ROW	COL	INDICATION	LOCATION		CAL NUMBER
1	49	DNG	05C	29.79	46
1	143	DNG	07H	26.24	45
2	98	DNG	09H	9.10	45
2	126	DNG	01H	24.85	45
3	47	DNG	02H	17.01	55
3	85	DNG	08H	3.76	29
3	125	DNG	02C	10.88	64
4	142	DNG	01C	20.16	66
5	99	DNG	TSH	20.01	29
6	102	DNG	05C	26.10	64
7	79	DNT	A1	.00	88
7	143	DNG	TSH	15.41	53
8	84	DNG	TSH	32.55	27
8	84	DNG	TSH	32.60	53
10	16	DNG	FBH	15.01	24
10	16	DNG	FBH	15.90	24
10	30	DNG	05C	10.25	30
10	32	DNG	01C	6.04	36
10	50	DNG	02H	3.95	42
10	50	DNG	04H	16.04	42
11	61	DNG	07C	15.37	50
11	61	DNG	08C	-1.62	50
11	71	DNG	TSH	16.14	88
11	139	DNG	05C	4.76	53
11	139	DNG	09H	1.35	53
12	32	DNG	TSC	1.02	36
12	100	DNG	07C	13.04	29
13	43	DNG	A16	5.95	40
13	67	DNG	07C	13.37	58
14	24	DNG	05C	3.14	28
14	36	DNG	02H	17.27	36
14	36	DNG	02H	19.43	36
14	36	DNG	A16	5.93	36
14	36	DNG	FBH	1.29	36
14	54	DNG	A16	5.65	42
14	62	DNG	04C	16.87	56
15	89	DNT	A15	.00	25
15	137	DNG	01C	7.37	51
15	137	DNG	08C	38.21	51
16	18	DNG	02H	24.23	22
16	34	DNG	09H	35.72	34
16	36	DNG	A16	5.72	36
16	64	DNG	02C	16.13	58
16	146	DNG	08H	-1.90	51
17	11	DNG	09H	7.62	20
17	11	DNG	09H	7.76	16
17	21	DNG	09H	7.28	22
17	49	DNG	07C	10.00	38
17	109	DNG	02H	30.80	35
18	14	DNG	03C	30.70	14
18	134	DNG	02C	20.22	47

SG-A

19	7	DNG	06H	4.42	20
19	7	DNG	06H	10.78	20
19	55	DNG	06C	5.63	52
19	71	DNG	08C	23.04	88
19	97	DNG	07H	23.42	29
19	125	DNT	09H	-.81	47
20	78	DNG	05C	37.32	88
20	124	DNT	09H	.27	49
21	71	DNG	05C	2.25	62
21	143	DNG	02H	15.10	53
23	19	DNT	03H	-.57	24
23	59	DNG	TSC	17.74	52
24	100	DNT	09H	.08	29
24	146	DNG	08H	37.54	51
26	8	DNG	08H	3.40	20
26	68	DNG	08C	37.54	62
26	120	DNT	01H	-.34	41
27	39	DNG	TSC	1.19	36
27	61	DNG	08C	34.63	50
27	61	DNG	08H	37.95	50
27	61	DNG	09H	-1.65	50
27	89	DNG	A16	2.70	25
27	93	DNT	09C	-.48	25
27	107	DNG	02H	38.44	37
27	149	DNG	06H	7.87	51
29	125	DNG	08H	37.52	47
29	127	DNG	08H	14.94	49
30	44	DNG	07H	33.19	40
31	15	DNG	08H	15.54	24
31	145	DNG	08H	13.67	51
32	4	DNG	TSH	8.27	20
32	94	DNT	09C	-.87	23
33	19	DNG	02H	11.54	24
34	134	DNG	05C	7.05	47
34	146	DNG	06H	10.02	51
34	148	DNG	04H	25.25	51
34	148	DNG	04H	25.29	53
35	51	DNT	A3	.00	44
35	93	DNG	FBC	11.02	25
35	107	DNG	08C	37.63	37
35	119	DNG	04H	34.58	41
35	139	DNG	08H	38.13	53
36	54	DNG	07H	17.83	42
36	56	DNG	09C	-1.93	52
36	144	DNG	08H	34.08	53
37	85	DNT	02C	-.58	21
37	103	DNG	03C	12.04	37
39	145	DNG	08H	25.70	51
40	50	DNG	A6	5.67	42
40	92	DNG	08C	37.38	25
40	92	DNG	09H	1.18	25
40	92	DNT	09H	-.74	25

SG-A

40	126	DNG	A2	4.21	47
40	138	DNG	08H	37.83	51
40	138	DNG	09C	-1.66	51
40	146	DNG	08H	26.91	51
41	45	DNT	01H	-.85	38
41	77	DNG	03C	9.42	60
41	117	DNG	01C	2.94	39
41	145	DNG	08H	31.86	51
43	31	DNG	08C	36.90	32
43	45	DNG	01H	19.64	38
45	143	DNG	08C	32.81	53
46	22	DNG	08C	30.66	22
46	142	DNG	08C	32.78	51
47	13	DNG	08C	8.16	18
47	17	DNG	A14	.90	22
47	117	DNG	08C	30.65	39
48	104	DNG	06C	3.30	33
49	31	DNG	08C	31.78	32
49	31	DNG	08C	34.23	32
49	31	DNG	08C	35.05	32
49	39	DNG	09H	12.18	40
49	61	DNG	03H	25.43	50
49	117	DNG	08C	36.36	39
50	120	DNG	05H	25.27	41
50	126	DNG	08C	23.55	47
50	142	DNG	08H	37.75	51
51	131	DNG	08C	18.88	49
52	32	DNG	08H	35.42	36
52	36	DNG	08C	34.46	36
52	142	DNG	08H	29.58	51
53	129	DNG	08C	34.91	47
53	129	DNG	08C	35.17	47
53	129	DNG	08C	36.27	47
54	30	DNG	08C	34.00	30
54	84	DNG	01C	33.53	21
54	90	DNG	07C	2.49	23
54	124	DNG	08C	35.61	49
55	17	DNG	08C	29.17	22
55	17	DNG	09C	-1.97	22
55	29	DNG	02C	-1.50	30
55	29	DNG	04H	22.92	30
55	31	DNG	05H	30.59	32
55	69	DNT	FBC	-.13	56
55	101	DNG	03C	1.99	29
56	62	DNG	02H	26.01	56
56	124	DNG	08C	38.37	49
57	33	DNG	04H	14.22	30
58	66	DNG	08C	31.90	56
58	66	DNG	08H	26.85	56
58	66	DNG	08H	35.19	56
58	66	DNT	09H	.43	56
58	74	DNG	A6	4.27	60

SG-A

58	142	DNG	08H	34.60	51
59	17	DNG	FBC	10.29	22
59	17	DNG	FBC	14.36	22
59	31	DNG	A12	10.92	32
59	45	DNG	FBH	13.62	38
59	69	DNG	08H	30.40	56
59	117	DNG	08C	36.03	39
60	30	DNG	08C	24.39	30
60	30	DNG	08C	26.25	30
60	30	DNG	08H	34.76	30
60	30	DNG	09H	-1.42	30
60	30	DNG	FBC	3.96	30
60	30	DNT	09C	.34	30
60	48	DNG	TSC	5.69	44
60	116	DNG	08H	37.26	41
61	17	DNT	A12	-.51	22
61	37	DNG	08H	24.68	34
61	137	DNG	08C	32.41	51
63	13	DNG	08H	12.16	16
63	13	DNG	08H	13.60	16
64	18	DNG	08H	38.28	16
64	18	DNG	09H	-1.47	16
64	28	DNG	03C	26.52	32
64	30	DNG	05C	33.14	30
64	30	DNG	09H	-1.17	30
65	13	DNG	08C	3.12	16
65	13	DNG	08H	4.22	16
65	13	DNG	08H	5.39	16
65	41	DNG	FBC	15.37	38
65	71	DNG	03C	16.36	62
66	40	DNG	TSH	16.49	40
67	37	DNG	08H	26.60	34
67	109	DNT	09H	.14	35
67	129	DNT	FBC	-.44	17
68	84	DNG	07C	32.98	21
68	122	DNT	09C	.39	41
69	19	DNT	09C	.36	14
69	21	DNG	07H	36.15	16
69	73	DNG	FBH	3.19	60
70	52	DNG	09H	16.62	44
70	80	DNG	A4	10.00	17
70	130	DNG	07C	35.33	17
71	87	DNG	TSC	16.77	23
72	86	DNG	01C	6.61	19
72	126	DNG	04C	3.10	17
72	126	DNG	04C	3.17	17
73	125	DNT	09C	.40	17
73	127	DNT	09C	-.56	15
73	137	DNT	09C	-.70	17
74	48	DNT	09H	.46	44
74	106	DNG	TSH	11.88	35
74	120	DNG	03C	33.42	41

Dents and Dings

SG-A

76	24	DNT	09C	.38	14
76	48	DNG	08C	27.79	44
76	88	DNG	06C	12.37	21
76	96	DNG	A16	2.99	25
77	109	DNG	TSC	.74	35
77	133	DNG	07C	22.06	17
78	38	DNG	08C	19.59	34
78	38	DNG	08C	27.64	34
78	38	DNG	08C	30.06	34
78	48	DNG	06C	4.47	44
78	48	DNG	06C	5.56	44
79	31	DNG	02C	36.07	10
79	125	DNG	FBC	6.46	53
79	131	DNG	04C	3.39	15
80	20	DNG	08C	24.15	16
80	20	DNT	09C	-.70	16
80	20	DNT	09C	.40	16
80	40	DNT	09H	.47	40
80	84	DNG	02C	32.53	21
80	122	DNG	08H	-1.70	41
80	136	DNT	09C	-.67	15
81	87	DNG	TSC	12.07	19
81	115	DNG	05C	34.97	37
81	129	DNT	09C	-.70	17
81	133	DNT	09C	-.69	17
82	126	DNG	03C	18.36	13
82	134	DNG	A15	7.95	17
82	134	DNT	09C	-.75	17
83	77	DNG	08H	-1.27	60
83	91	DNG	02H	11.88	23
83	129	DNT	09C	-.67	13
83	133	DNT	09C	-.67	17
84	86	DNT	A4	-.61	19
84	132	DNT	09C	-.61	15
84	132	DNT	09C	.45	15
84	134	DNT	09C	-.75	17
85	31	DNG	02C	5.57	10
85	105	DNG	08C	37.13	33
85	105	DNG	08H	34.55	33
85	109	DNT	09H	.44	35
85	127	DNT	09C	-.64	11
85	133	DNT	09C	-.72	17
86	60	DNG	03C	13.94	58
86	100	DNG	03C	1.55	29
86	132	DNT	09C	-.67	15
86	134	DNT	09C	-.70	17
87	25	DNG	05C	31.68	12
87	127	DNT	09C	-.61	11
88	90	DNG	TSC	9.22	23
88	102	DNG	01H	22.29	31
88	128	DNT	09C	-.64	15
88	130	DNT	09C	-.70	17

SG-A

88	130	DNT	09C	.45	17
89	31	DNG	A7	4.01	10
89	111	DNG	05H	29.36	37
89	125	DNT	09C	-.69	13
89	129	DNT	09C	-.70	13
89	131	DNT	09C	-.70	15
90	128	DNT	09C	-.64	15
90	130	DNT	09C	-.73	17
91	31	DNG	01H	2.70	10
91	127	DNT	09C	-.64	11
92	66	DNG	06C	25.85	56
92	122	DNG	08H	13.76	13
92	124	DNT	09C	-.61	11
92	128	DNT	09C	-.67	15
92	130	DNT	09C	-.75	17
93	85	DNG	TSC	7.07	21
93	87	DNG	05C	28.99	19
93	101	DNT	09C	.45	29
93	123	DNT	09C	-.61	11
93	123	DNT	09C	.47	11
93	127	DNT	09C	-.64	11
93	129	DNT	09C	-.75	13
94	128	DNT	09C	-.64	15
95	39	DNG	05H	27.49	10
95	73	DNT	FBH	.11	60
95	99	DNG	07H	33.63	27
95	123	DNT	09C	-.64	11
95	125	DNT	09C	-.72	13
95	127	DNT	09C	-.67	11
96	30	DNG	FBH	2.14	12
96	124	DNT	09C	-.61	11
96	124	DNT	09C	.45	11
96	126	DNT	09C	-.67	13
96	128	DNT	09C	-.69	15
97	79	DNG	05H	12.25	19
97	121	DNT	09C	-.70	13
97	123	DNT	09C	-.64	11
97	123	DNT	09C	.45	11
97	125	DNT	09C	-.70	13
97	125	DNT	09C	.40	13
97	127	DNT	09C	-.67	11
98	52	DNG	08C	5.37	44
98	114	DNG	03C	22.56	11
98	124	DNT	09C	-.64	11
98	126	DNT	09C	-.67	13
98	126	DNT	09C	.43	13
99	31	DNG	TSH	7.26	12
99	31	DNG	TSH	8.32	12
99	31	DNT	09C	-.63	12
99	31	DNT	09C	.45	12
99	123	DNT	09C	-.64	11
99	123	DNT	09C	.44	11

SG-A

99	125	DNT	09C	-.75	13
99	125	DNT	09C	.38	13
100	36	DNG	08C	25.12	10
100	118	DNT	09C	-.69	13
100	118	DNT	09C	.43	13
100	122	DNT	09C	-.73	13
100	122	DNT	09C	.40	13
100	124	DNT	09C	-.67	11
100	124	DNT	09C	.42	11
101	117	DNT	09C	.43	13
101	119	DNT	09C	-.64	11
101	119	DNT	09C	.47	11
101	123	DNT	09C	-.67	11
101	123	DNT	09C	.42	11
102	70	DNG	09H	13.13	60
102	108	DNG	04C	15.80	9
102	108	DNT	04C	.24	9
102	120	DNT	09C	-.67	11
102	120	DNT	09C	.42	11
102	122	DNT	09C	-.72	13
102	122	DNT	09C	.40	13
103	45	DNT	09C	.43	8
103	59	DNG	01H	5.07	52
103	117	DNT	09C	-.73	13
103	117	DNT	09C	.41	13
103	119	DNT	09C	-.61	11
103	119	DNT	09C	.47	11
103	121	DNG	FBC	11.04	13
103	121	DNG	FBC	11.29	13
103	121	DNT	09C	-.67	13
104	38	DNT	09C	.47	57
104	116	DNT	09C	.38	13
104	116	DNT	09C	.45	11
104	120	DNT	09C	-.70	11
104	122	DNT	09C	-.70	13
104	122	DNT	09C	.40	13
105	113	DNT	09C	-.60	13
105	113	DNT	09C	.49	13
105	115	DNT	09C	-.64	11
105	115	DNT	09C	.45	11
105	117	DNT	09C	-.71	13
105	117	DNT	09C	.43	13
105	119	DNG	08C	32.57	11
105	119	DNT	09C	-.64	11
105	119	DNT	09C	.42	11
105	121	DNT	09C	-.75	13
105	121	DNT	09C	.37	13
106	36	DNG	03C	24.79	10
106	114	DNT	09C	-.64	11
106	116	DNT	09C	.42	11
106	116	DNT	09C	.43	13
106	118	DNT	09C	-.75	13

SG-A

106	118	DNT	09C	.40	13
106	120	DNT	09C	-.72	11
106	120	DNT	09C	.39	11
107	93	DNG	04C	-1.68	25
107	101	DNG	TSH	5.89	9
107	107	DNG	09H	6.46	7
107	113	DNT	09C	-.68	13
107	113	DNT	09C	.41	13
107	115	DNT	09C	-.69	11
107	115	DNT	09C	.39	11
107	117	DNT	09C	-.76	13
107	117	DNT	09C	.38	13
107	119	DNT	09C	-.70	11
107	119	DNT	09C	.39	11
108	38	DNT	A10	.00	12
108	38	DNT	A11	.00	12
108	70	DNG	A8	10.24	60
108	84	DNG	04C	1.53	57
108	94	DNG	02H	16.26	23
108	110	DNG	07H	21.53	11
108	112	DNT	09C	-.69	13
108	112	DNT	09C	.41	13
108	114	DNT	09C	-.64	11
108	114	DNT	09C	.45	11
108	116	DNT	09C	-.74	13
108	116	DNT	09C	-.64	11
108	116	DNT	09C	.41	13
108	116	DNT	09C	.45	11
108	118	DNT	09C	-.70	13
108	118	DNT	09C	.40	13
109	91	DNG	A16	6.79	23
109	101	DNG	01H	24.62	9
109	109	DNG	07H	24.52	9
109	111	DNT	09C	-.62	11
109	113	DNT	09C	-.68	13
109	113	DNT	09C	.44	13
109	115	DNT	09C	-.69	11
109	115	DNT	09C	.42	11
109	117	DNT	09C	-.78	13
109	117	DNT	09C	.38	13
110	110	DNT	09C	-.65	11
110	112	DNT	09C	-.66	13
110	112	DNT	09C	.47	13
110	114	DNT	09C	-.67	11
110	114	DNT	09C	.42	11
110	116	DNG	A2	18.91	13
110	116	DNG	A2	18.94	11
110	116	DNT	09C	-.71	13
110	116	DNT	09C	-.67	11
110	116	DNT	09C	.39	11
110	116	DNT	09C	.41	13
111	47	DNT	09C	.48	6

SG-A

111	61	DNG	08H	31.99	8
111	109	DNT	09C	-.69	9
111	111	DNT	09C	-.67	11
111	111	DNT	09C	.42	11
111	113	DNT	09C	-.68	13
111	113	DNT	09C	.44	13
111	115	DNT	09C	-.69	11
111	115	DNT	09C	.39	11
112	48	DNG	04H	26.95	6
112	48	DNG	05H	32.24	6
112	102	DNG	TSC	2.38	7
112	108	DNT	09C	-.64	9
112	108	DNT	09C	.44	9
112	110	DNT	09C	-.65	11
112	110	DNT	09C	.45	11
112	112	DNT	09C	-.74	13
112	112	DNT	09C	.38	13
112	114	DNT	09C	-.67	11
112	114	DNT	09C	.42	11
112	114	DNT	A10	-.06	11
113	47	DNT	09C	-.74	6
113	47	DNT	09C	.41	6
113	81	DNT	09C	.48	1
113	101	DNG	TSH	5.80	9
113	107	DNT	09C	-.62	7
113	107	DNT	09C	.48	7
113	109	DNT	09C	-.67	9
113	109	DNT	09C	.44	9
113	111	DNT	09C	-.67	11
113	111	DNT	09C	.42	11
113	113	DNT	09C	-.79	13
113	113	DNT	09C	.38	13
113	113	DNT	A10	-.60	13
114	48	DNT	09C	-.69	6
114	48	DNT	09C	.43	6
114	106	DNT	09C	-.64	7
114	106	DNT	09C	.45	7
114	108	DNT	09C	.42	9
114	110	DNT	09C	-.67	11
114	110	DNT	09C	.42	11
114	112	DNT	09C	-.79	13
114	112	DNT	09C	.35	13
115	49	DNT	09C	.40	8
115	101	DNG	TSH	5.79	9
115	105	DNT	09C	-.69	9
115	105	DNT	09C	.42	9
115	107	DNT	09C	-.65	7
115	107	DNT	09C	.45	7
115	109	DNT	09C	-.69	9
115	109	DNT	09C	.42	9
115	111	DNT	09C	-.73	11
115	111	DNT	09C	.39	11

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116	46	DNT	A5	.25	8
116	46	DNT	A5	.56	8
116	50	DNT	09C	.41	8
116	52	DNT	09C	.49	6
116	106	DNT	09C	-.65	7
116	106	DNT	09C	.45	7
116	108	DNT	09C	-.72	9
116	108	DNT	09C	.39	9
116	110	DNT	09C	-.70	11
116	110	DNT	09C	.39	11
117	51	DNT	09C	.46	6
117	61	DNG	09H	23.51	8
117	99	DNT	09C	-.62	7
117	99	DNT	09C	.45	7
117	101	DNT	09C	-.66	9
117	101	DNT	09C	.47	9
117	103	DNT	09C	-.62	7
117	103	DNT	09C	.45	7
117	105	DNG	08C	8.06	9
117	105	DNT	09C	-.75	9
117	105	DNT	09C	.39	9
117	107	DNT	09C	-.67	7
117	107	DNT	09C	.42	7
118	64	DNT	09C	.49	2
118	90	DNT	09C	.50	5
118	100	DNT	09C	-.69	5
118	100	DNT	09C	.44	5
118	102	DNT	09C	-.62	7
118	102	DNT	09C	.42	7
118	104	DNT	09C	-.66	9
118	104	DNT	09C	.44	9
118	106	DNT	09C	-.67	7
118	106	DNT	09C	.42	7
119	51	DNT	09C	.41	6
119	55	DNT	09C	.38	6
119	95	DNT	09C	.45	1
119	97	DNT	09C	.47	1
119	99	DNT	09C	-.67	7
119	99	DNT	09C	.42	7
119	101	DNT	09C	-.66	9
119	101	DNT	09C	.44	9
119	103	DNT	09C	-.65	7
119	103	DNT	09C	.45	7
119	105	DNG	01C	38.29	9
119	105	DNT	09C	-.66	9
119	105	DNT	09C	.44	9
120	52	DNT	09C	-.69	6
120	52	DNT	09C	.43	6
120	54	DNT	09C	.40	8
120	56	DNT	09C	.38	6
120	60	DNT	09C	.52	6
120	62	DNT	09C	.49	4

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120	86	DNT	09C	.51	1
120	88	DNT	09C	-.59	1
120	88	DNT	09C	.51	1
120	92	DNT	09C	.42	1
120	96	DNT	09C	-.70	1
120	96	DNT	09C	.42	1
120	98	DNT	09C	.42	1
120	100	DNT	09C	.38	5
120	102	DNT	09C	-.67	7
120	102	DNT	09C	.42	7
120	104	DNT	09C	-.72	9
120	104	DNT	09C	.41	9
121	59	DNT	09C	.46	6
121	61	DNT	09C	.46	8
121	63	DNT	09C	.46	6
121	79	DNG	05C	3.25	1
121	85	DNT	09C	.48	1
121	87	DNT	09C	.51	1
121	89	DNT	09C	-.67	1
121	89	DNT	09C	.45	1
121	91	DNT	09C	-.62	1
121	91	DNT	09C	.48	1
121	93	DNT	09C	-.61	1
121	93	DNT	09C	.47	1
121	95	DNT	09C	-.69	5
121	95	DNT	09C	.44	5
121	97	DNT	09C	.41	5
121	99	DNT	09C	-.64	7
121	99	DNT	09C	.45	7
121	101	DNT	09C	-.74	9
121	101	DNT	09C	.41	9
122	58	DNT	09C	.46	8
122	60	DNT	09C	.46	6
122	62	DNT	09C	-.64	4
122	62	DNT	09C	.46	4
122	64	DNT	09C	.46	2
122	70	DNT	09C	-.62	4
122	70	DNT	09C	-.60	2
122	70	DNT	09C	.46	4
122	70	DNT	09C	.49	2
122	72	DNG	05H	16.76	2
122	86	DNT	09C	-.62	1
122	86	DNT	09C	.51	1
122	88	DNT	09C	-.67	1
122	88	DNT	09C	.45	1
122	92	DNG	07H	38.23	5
122	92	DNT	09C	-.69	5
122	92	DNT	09C	.44	5
122	94	DNT	09C	.41	5
122	96	DNT	09C	.36	5
122	98	DNT	09C	-.67	1
122	98	DNT	09C	.45	1

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122	100	DNT	09C	-.66	5
122	100	DNT	09C	.44	5
123	59	DNT	09C	-.76	6
123	59	DNT	09C	.38	6
123	61	DNT	09C	-.65	8
123	61	DNT	09C	.46	8
123	63	DNT	09C	-.65	6
123	63	DNT	09C	.46	6
123	65	DNT	09C	.46	4
123	67	DNT	09C	.46	2
123	73	DNG	TSH	17.49	4
123	79	DNT	09C	.47	5
123	81	DNT	05H	.78	5
123	85	DNT	09C	.44	5
123	87	DNT	09C	-.72	5
123	87	DNT	09C	.44	5
123	89	DNT	09C	.47	5
123	91	DNT	09C	-.66	5
123	91	DNT	09C	.44	5
123	93	DNT	09C	-.66	5
123	93	DNT	09C	.47	5
123	95	DNT	09C	.41	5
123	97	DNT	09C	-.66	5
123	97	DNT	09C	.44	5
124	60	DNT	09C	.44	6
124	62	DNT	09C	.46	4
124	64	DNT	09C	-.66	2
124	64	DNT	09C	.44	2
124	66	DNT	09C	-.63	57
124	66	DNT	09C	.47	57
124	68	DNT	09C	.46	4
124	70	DNG	TSH	2.23	2
124	70	DNG	TSH	2.25	4
124	72	DNT	09C	-.65	2
124	72	DNT	09C	.49	2
124	74	DNT	09C	.43	57
124	78	DNT	09C	.45	1
124	84	DNT	09C	-.69	5
124	84	DNT	09C	.44	5
124	86	DNT	09C	-.72	5
124	86	DNT	09C	.44	5
124	88	DNT	09C	-.72	5
124	88	DNT	09C	.44	5
124	90	DNG	08H	23.97	5
124	90	DNG	08H	25.07	5
124	90	DNT	09C	-.66	5
124	90	DNT	09C	.44	5
124	92	DNT	09C	-.72	5
124	92	DNT	09C	.42	5
124	94	DNT	09C	-.77	5
124	94	DNT	09C	.38	5
124	96	DNT	09C	-.60	5

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124	96	DNT	09C	.44	5
125	63	DNT	09C	-.68	6
125	63	DNT	09C	.44	6
125	65	DNT	09C	-.67	4
125	65	DNT	09C	.43	4
125	67	DNT	09C	-.66	2
125	67	DNT	09C	.44	2
125	69	DNT	09C	-.65	4
125	69	DNT	09C	.43	4
125	71	DNT	09C	.49	2
125	73	DNT	09C	.46	4
125	75	DNT	09C	.46	2
125	77	DNT	09C	-.67	57
125	77	DNT	09C	.43	57
125	81	DNT	09C	.41	5
125	83	DNT	09C	.45	5
125	85	DNT	09C	-.69	5
125	85	DNT	09C	.44	5
125	87	DNT	09C	-.61	5
125	87	DNT	09C	.50	5
125	89	DNT	09C	-.61	5
125	89	DNT	09C	.47	5
125	91	DNT	09C	-.72	5
125	91	DNT	09C	.41	5
125	93	DNT	09C	-.69	5
125	93	DNT	09C	.44	5
126	66	DNT	09C	-.66	57
126	66	DNT	09C	.47	57
126	68	DNT	09C	-.67	4
126	68	DNT	09C	.43	4
126	70	DNT	09C	-.65	2
126	70	DNT	09C	-.65	4
126	70	DNT	09C	.46	2
126	70	DNT	09C	.46	4
126	72	DNT	09C	-.65	2
126	72	DNT	09C	.46	2
126	74	DNT	09C	-.62	57
126	74	DNT	09C	.46	57
126	78	DNT	09C	-.67	3
126	78	DNT	09C	.44	3
126	80	DNT	09C	.44	5
126	82	DNT	09C	-.61	5
126	82	DNT	09C	.44	5
126	84	DNT	09C	-.69	5
126	84	DNT	09C	.41	5
126	86	DNT	09C	-.72	5
126	86	DNT	09C	.41	5
126	88	DNT	09C	-.72	5
126	88	DNT	09C	.41	5
126	90	DNT	09C	.39	5
127	69	DNT	09C	-.62	4
127	69	DNT	09C	.43	4

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127	71	DNT	09C	-.63	2
127	71	DNT	09C	.44	2
127	71	DNT	09H	-.61	2
127	71	DNT	09H	.50	2
127	73	DNT	09C	-.62	4
127	73	DNT	09C	.46	4
127	75	DNT	09C	-.63	2
127	75	DNT	09C	.46	2
127	77	DNT	09C	-.57	57
127	77	DNT	09C	.46	57
127	79	DNT	09C	-.63	5
127	79	DNT	09C	-.58	5
127	79	DNT	09C	.41	5
127	79	DNT	09C	.49	5
127	81	DNT	09C	-.57	5
127	81	DNT	09C	.49	5
127	83	DNT	09C	-.60	5
127	83	DNT	09C	.47	5
127	85	DNT	09C	-.60	5
127	85	DNT	09C	.44	5

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ROW	COL	INDICATION	LOCATION		CAL NUMBER
3	101	DNG	05H	1.72	99
3	101	DNG	05H	1.74	117
3	129	DNG	09H	9.18	101
3	129	DNG	09H	9.31	117
4	94	DNG	TSC	18.44	108
4	116	DNG	01C	3.76	106
5	17	DNG	02C	7.53	88
5	99	DNG	A1	.24	119
5	99	DNG	A1	.97	101
6	64	DNG	08H	38.22	26
8	138	DNG	09H	22.57	85
8	148	DNG	A16	4.64	97
8	148	DNG	A16	4.80	100
10	14	DNG	06C	28.98	82
12	20	DNG	03H	9.33	60
12	56	DNG	06H	17.92	30
12	72	DNG	TSC	18.62	141
12	72	DNG	TSC	23.70	141
13	7	DNT	09C	-.64	76
14	88	DNT	09C	.53	51
14	138	DNG	07H	2.44	85
16	36	DNG	FBH	16.92	48
16	138	DNG	A15	-1.78	81
16	138	DNG	A15	-1.78	83
17	137	DNG	TSH	12.08	83
17	143	DNG	08H	38.07	95
17	143	DNG	09H	-2.35	98
18	108	DNG	TSC	8.92	61
20	30	DNG	03C	23 88	54
20	54	DNG	FBH	15.02	32
20	104	DNG	FBC	12.39	57
20	108	DNT	09C	.58	61
20	108	DNT	09H	-.63	61
21	57	DNG	08C	10.96	30
21	77	DNG	TSC	37.83	122
21	127	DNT	A3	.96	103
21	131	DNG	A16	5.02	73
22	8	DNG	08H	16.08	72
23	141	DNT	09H	.03	89
24	96	DNG	05H	30.77	53
24	120	DNG	08C	36.06	67
24	134	DNG	09C	-1.23	73
25	107	DNG	08C	36.31	63
25	141	DNT	09C	-.11	85
25	141	DNT	09H	-.67	85
26	6	DNG	06C	-1.23	74
26	68	DNG	08C	37.86	22
26	68	DNG	09C	-1.85	22
26	120	DNG	09C	-1.97	67
26	130	DNT	09C	-.22	69
27	31	DNG	TSC	18.01	54

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27	93	DNT	09H	-.03	53
28	4	DNG	TSC	7.48	74
29	141	DNG	08C	36.79	89
29	141	DNG	08C	36.80	87
29	143	DNG	08C	38.39	94
29	143	DNG	09H	-2.38	95
29	143	DNG	09H	-2.36	94
29	147	DNG	09H	11.76	95
29	147	DNG	09H	16.83	95
30	20	DNG	04C	36.72	60
30	22	DNG	08H	34.02	58
30	86	DNG	08H	33.41	47
30	104	DNG	01C	21.34	57
30	124	DNT	01H	.19	71
30	134	DNT	09C	-.20	73
31	135	DNG	03C	1.31	81
31	141	DNG	08H	35.83	83
31	141	DNG	08H	35.92	89
31	141	DNG	08H	35.93	87
31	141	DNT	09H	-1.27	83
31	141	DNT	09H	-1.19	87
31	141	DNT	09H	-1.19	89
31	143	DNT	09C	-.72	94
32	144	DNG	09H	-1.19	91
33	39	DNG	08C	36.30	46
33	93	DNT	09H	.19	53
33	119	DNG	01C	24.69	65
33	127	DNG	08C	34.73	69
33	141	DNG	08C	37.18	83
34	16	DNG	02H	30.74	64
35	17	DNG	02H	14.40	60
35	81	DNG	08H	37.57	11
35	141	DNG	08C	37.31	83
35	141	DNT	09C	.63	83
35	145	DNG	08H	37.67	94
35	145	DNG	08H	37.67	97
35	145	DNT	09C	.35	97
35	145	DNT	09C	.41	94
35	147	DNG	08H	16.90	95
35	151	DNG	TSC	3.15	100
36	24	DNT	A1	-.31	56
36	62	DNG	03H	28.69	28
37	49	DNG	08H	38.21	42
37	49	DNG	09H	-1.77	42
37	127	DNG	08C	38.01	69
37	137	DNG	08H	34.58	83
37	141	DNT	09C	-.03	83
37	145	DNT	09H	-.92	97
39	57	DNG	08C	37.31	30
39	99	DNG	A12	5.98	59
40	40	DNG	TSH	4.65	44
40	96	DNG	07H	37.14	53

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41	87	DNG	08H	36.82	51
43	29	DNG	FBH	8.29	56
43	61	DNG	TSH	2.32	26
44	28	DNG	08C	33.10	56
44	146	DNG	08C	7.28	100
46	112	DNG	03H	17.91	65
47	25	DNG	01H	10.55	56
47	25	DNG	06C	21.71	56
47	25	DNG	06H	20.40	56
47	57	DNG	09H	22.04	30
47	75	DNG	A2	1.68	12
47	147	DNT	A1	.39	95
48	18	DNG	05H	2.26	62
48	80	DNG	TSH	4.15	9
48	88	DNG	07H	37.15	49
48	104	DNG	FBC	14.15	57
48	126	DNG	09C	-1.64	69
49	145	DNT	A12	6.40	94
49	145	DNT	A12	6.40	97
50	126	DNG	08H	36.41	69
50	126	DNG	08H	37.29	69
50	126	DNT	09C	-.39	69
51	21	DNG	05H	38.35	56
51	79	DNG	TSH	4.30	9
52	14	DNG	02H	35.33	66
52	126	DNG	08H	28.15	69
52	126	DNG	08H	33.55	69
52	126	DNG	08H	33.85	69
54	126	DNG	08H	31.73	69
57	95	DNG	08C	21.90	55
58	24	DNG	03H	34.51	68
58	66	DNG	FBH	5.45	24
59	81	DNG	TSH	.86	11
61	141	DNG	09H	13.04	83
61	143	DNG	09H	13 26	94
61	143	DNG	09H	13.26	95
64	52	DNG	A12	1.78	34
64	86	DNG	A4	3.32	47
65	37	DNG	08H	5.60	48
65	69	DNG	08C	36.93	18
66	36	DNG	05C	22.03	52
67	93	DNG	09C	-1.78	53
67	109	DNG	TSH	12.99	61
68	80	DNG	07C	35.44	13
68	136	DNG	07H	18.59	75
70	34	DNG	02H	30.74	54
70	124	DNG	TSH	12.88	43
70	128	DNG	08C	34.03	43
71	37	DNG	05H	31.49	48
71	49	DNG	07H	28.17	42
72	24	DNG	05C	18.90	68
72	88	DNG	08C	36.96	23

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72	88	DNG	08C	37.49	23
72	140	DNT	A5	.11	47
76	48	DNT	09H	.26	42
77	31	DNG	01C	12.41	54
78	22	DNG	05C	16.34	70
80	90	DNT	03H	.06	21
80	114	DNG	08C	32.01	37
82	78	DNG	08H	33.01	1
84	92	DNT	09C	-.65	23
84	92	DNT	09C	.46	23
84	114	DNG	08C	35.89	37
85	31	DNG	08H	36.03	54
86	72	DNG	03H	4.24	18
86	90	DNG	07H	29.64	21
86	92	DNT	09C	.57	23
86	92	DNT	09H	.32	23
86	116	DNG	02C	-1.22	39
88	32	DNG	03H	36.84	76
88	38	DNG	03H	9.57	50
89	49	DNT	09H	.31	38
89	79	DNG	09H	7.43	9
90	32	DNG	03H	22.33	76
90	64	DNG	05C	4.42	26
92	44	DNG	05C	9.80	44
92	88	DNT	09C	-.74	23
93	111	DNG	04C	17.79	37
94	30	DNG	03H	17.42	78
94	78	DNG	TSH	4.22	1
94	106	DNG	01C	25.97	33
94	106	DNG	02C	24.94	33
95	59	DNG	03H	21.72	28
96	72	DNG	02C	30.58	18
96	78	DNG	TSH	4.32	1
97	43	DNG	09H	32.96	40
97	89	DNG	05C	20.80	23
98	30	DNT	09C	-.78	78
98	30	DNT	09C	.30	78
98	38	DNG	05H	10.24	50
98	78	DNG	TSH	4.18	1
99	31	DNT	09C	-.70	54
99	37	DNT	09C	-.64	48
99	37	DNT	09C	.44	48
99	39	DNT	09C	.40	46
99	59	DNG	08H	31.29	28
99	65	DNG	03H	21.35	26
100	34	DNT	09C	-.72	54
100	34	DNT	09C	.37	54
100	70	DNG	08H	29.77	20
101	67	DNG	08C	31.20	20
101	67	DNG	08C	31.72	20
101	67	DNT	09C	.49	20
102	78	DNG	TSH	4.26	1

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102	92	DNT	09C	.52	23
103	35	DNT	09C	-.70	50
103	35	DNT	09C	.38	50
103	37	DNT	09C	-.67	48
103	37	DNT	09C	.42	48
103	53	DNG	04C	18.69	34
103	67	DNG	09H	15.39	20
103	77	DNG	09H	12.29	6
104	34	DNT	09C	-.80	54
104	34	DNT	09C	.32	54
104	36	DNT	09C	-.74	52
104	36	DNT	09C	.36	52
104	48	DNG	01C	4.91	42
104	56	DNG	05H	9.05	34
104	78	DNG	TSH	4.24	1
104	92	DNT	09C	.60	23
104	114	DNT	09C	.39	37
105	35	DNT	09C	.32	50
105	37	DNT	09C	-.69	48
105	37	DNT	09C	.39	48
105	39	DNT	09C	.40	46
105	117	DNT	09C	-.63	39
105	117	DNT	09C	.47	39
105	121	DNT	09C	.44	39
106	38	DNT	09C	-.73	50
106	38	DNT	09C	.35	50
106	40	DNT	09C	.53	48
106	116	DNT	09C	.44	39
106	120	DNT	09C	.44	39
107	39	DNT	09C	.32	46
107	43	DNT	09C	-.70	40
107	43	DNT	09C	.38	40
107	117	DNT	09C	.46	39
108	38	DNT	09C	.30	50
108	40	DNT	09C	.33	48
108	42	DNT	09C	.35	46
108	114	DNT	09C	-.64	37
108	114	DNT	09C	.47	37
108	118	DNT	09C	.42	37
109	43	DNT	09C	.35	40
109	111	DNT	09C	.53	37
109	113	DNT	09C	-.65	39
109	113	DNT	09C	.44	39
109	117	DNT	09C	-.68	39
109	117	DNT	09C	.41	39
110	40	DNT	09C	.30	48
110	42	DNG	07H	20.68	46
110	42	DNT	09C	.32	46
110	44	DNG	05H	22.48	44
110	48	DNT	09H	.51	42
110	116	DNT	09C	-.68	39
110	116	DNT	09C	.41	39

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111	43	DNT	09C	-.76	40
111	43	DNT	09C	.32	40
111	51	DNT	09C	.41	36
111	73	DNG	TSH	14.54	8
111	113	DNT	09C	.44	39
111	115	DNT	09C	.39	37
112	48	DNT	09C	-.67	42
112	48	DNT	09C	.45	42
112	48	DNT	09H	.51	42
112	110	DNT	09C	.36	37
112	114	DNT	09C	.41	37
113	51	DNT	09C	.35	36
113	89	DNG	02H	1.56	23
113	113	DNT	09C	-.63	39
113	113	DNT	09C	.46	39
114	48	DNT	09C	.53	42
114	50	DNT	09C	-.71	36
114	50	DNT	09C	.35	36
114	66	DNG	07H	24.19	22
114	108	DNT	09C	-.66	35
114	108	DNT	09C	.46	35
114	112	DNT	09C	.44	39
115	51	DNT	09C	.41	36
115	53	DNG	01H	17.18	34
115	53	DNG	05H	35.42	34
115	73	DNG	02H	2.63	6
115	103	DNT	09C	.47	29
115	111	DNT	09C	.42	37
116	46	DNG	02H	32.42	40
116	50	DNT	09C	.33	36
116	66	DNG	09H	-1.53	22
116	106	DNT	09C	.35	104
116	108	DNT	09C	.44	33
116	110	DNT	09C	.30	37
117	49	DNT	09C	.33	34
117	61	DNG	04H	20.21	26
117	101	DNT	09C	.51	31
117	107	DNT	09C	.42	33
118	50	DNT	09C	.33	36
118	52	DNT	09C	.39	34
118	64	DNT	09C	.39	26
118	88	DNT	09C	.52	23
118	92	DNT	09C	.46	23
118	98	DNT	09C	.44	29
118	102	DNT	09C	.44	29
118	104	DNT	09C	.32	31
118	106	DNT	09C	.44	33
119	77	DNG	TSC	14.65	2
119	93	DNT	06H	-.89	27
119	103	DNT	09C	-.64	29
119	103	DNT	09C	.42	29
119	105	DNT	09C	-.67	31

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119	105	DNT	09C	.32	31
120	56	DNG	02H	6.60	34
120	64	DNT	09C	.39	26
120	92	DNT	09C	.46	23
120	96	DNT	09C	.49	27
120	100	DNT	09C	-.62	31
120	100	DNT	09C	.51	31
120	102	DNT	09C	.33	29
120	104	DNT	09C	.49	31
121	57	DNT	09C	.30	32
121	61	DNT	09C	.39	26
121	63	DNT	09C	.38	28
121	89	DNG	08H	36.34	23
121	91	DNT	09C	.36	25
121	97	DNT	09C	.49	27
121	99	DNT	09C	.44	29
121	101	DNT	09C	.43	31
122	62	DNG	04H	29.40	28
122	64	DNT	09C	.36	26
122	92	DNT	09C	.43	23
122	94	DNT	09C	.42	25
122	96	DNT	09C	.46	27
122	100	DNT	09C	.41	31
123	61	DNT	09C	.36	26
123	65	DNT	09C	.36	26
123	89	DNT	09C	.49	23
123	93	DNT	09C	.46	27
123	95	DNT	09C	.31	25
124	62	DNT	09C	.35	28
124	88	DNT	09C	.52	23
124	92	DNT	09C	.41	23
125	65	DNT	09C	.31	18
125	65	DNT	09C	.36	26
125	75	DNT	09C	.33	4
125	83	DNT	09C	.41	86
125	83	DNT	09C	.44	5
125	85	DNT	09C	.35	86
125	85	DNT	09C	.41	7
125	87	DNT	09C	.42	21
125	89	DNT	09C	-.65	23
125	89	DNT	09C	.43	23
126	68	DNT	09C	.27	8
126	72	DNG	02C	28.34	8
126	72	DNT	09C	.27	8
126	74	DNT	09C	.48	6
126	76	DNT	09C	.31	6
126	78	DNT	09C	.41	1
126	78	DNT	09C	.41	9
126	80	DNT	09C	.30	11
126	84	DNT	09C	.41	11
126	86	DNT	09C	-.63	17
126	86	DNT	09C	.44	17

SG-B

126	88	DNT	09C	.46	149
126	90	DNT	09C	.31	21
127	69	DNT	09C	.27	4
127	75	DNT	09C	.30	4
127	77	DNT	09C	.31	2
127	79	DNT	09C	.41	9
127	81	DNT	09C	.41	11
127	85	DNT	09C	.36	95
127	87	DNT	09C	.31	21

Dents and Dings
SG-C

ROW	COL	INDICATION	LOCATION		CAL NUMBER
1	21	DNG	08H	23.44	69
1	25	DNG	07H	35.44	69
2	24	DNT	09H	-.05	67
2	50	DNG	09H	9.59	69
2	72	DNG	08C	27.42	68
2	124	DNG	09C	-1.21	24
3	63	DNG	09H	2.18	61
3	87	DNG	A16	1.16	20
4	84	DNG	TSC	5.71	74
5	125	DNG	09H	4.93	22
5	129	DNG	09H	5.14	22
5	131	DNG	09H	5.04	20
5	145	DNG	09H	5.09	22
5	147	DNG	04C	4.37	20
6	94	DNT	A15	.00	22
6	108	DNG	06C	8.84	20
8	132	DNG	09H	5.51	20
8	134	DNG	09H	5.41	16
8	154	DNG	05C	4.72	10
8	154	DNG	05C	4.83	60
10	86	DNT	A2	.00	52
10	104	DNT	06H	-.45	44
11	43	DNG	06C	32.42	27
11	111	DNG	FBH	2.02	38
11	135	DNT	09H	-.06	16
13	59	DNG	08C	36.82	41
13	135	DNG	09H	19.54	16
14	104	DNT	09H	-.30	44
14	132	DNG	02C	5.53	22
14	150	DNT	06C	.94	14
15	117	DNG	08C	11.11	40
16	48	DNG	08C	37.34	21
17	41	DNG	09H	-1.08	25
18	46	DNT	A15	.05	23
18	118	DNG	08H	36.54	38
18	118	DNT	09H	-.11	38
19	49	DNG	03C	21.49	21
19	49	DNG	03C	21.49	37
19	127	DNT	09H	-.98	20
20	70	DNG	08C	38.30	55
20	130	DNT	09C	-.19	20
20	130	DNT	09H	.08	20
21	77	DNG	08C	14.17	61
21	115	DNT	05C	.98	38
22	98	DNG	08C	37.18	46
22	98	DNG	08H	37.70	46
22	98	DNT	09H	-.59	46
22	118	DNG	A16	2.40	38
24	68	DNG	09C	-1.17	57
24	130	DNG	08C	37.50	20
25	57	DNG	03C	11.76	39

Dents and Dings
SG-C

25	149	DNT	09C	-.56	14
26	34	DNG	08C	6.14	29
26	66	DNG	08C	37.93	51
27	55	DNG	08H	38.33	41
27	151	DNG	08H	36.05	10
27	151	DNT	09C	-.72	10
28	118	DNT	09H	.57	38
28	152	DNG	08C	36.57	8
28	152	DNG	08C	37.53	8
28	152	DNG	08C	38.19	8
29	145	DNG	08H	29.89	14
30	66	DNG	08C	37.80	51
30	88	DNG	08H	38.02	52
30	92	DNT	07C	-.03	48
30	106	DNG	07C	23.94	42
30	106	DNG	07H	22.77	42
30	106	DNG	07H	23.92	42
31	63	DNG	08H	9.34	53
32	22	DNT	09C	-.82	19
32	66	DNG	08H	27.35	51
33	45	DNG	09H	10.22	25
33	79	DNG	09C	-1.51	54
33	79	DNT	09C	-.91	54
33	91	DNT	09H	-1.09	46
35	67	DNT	09H	.27	53
35	121	DNG	01H	33.82	58
36	120	DNG	08C	37.92	40
36	130	DNT	09C	-.72	20
36	134	DNG	01H	37.44	16
36	134	DNG	02H	-1.25	16
37	13	DNG	01C	9.63	13
37	65	DNG	09C	-1.16	51
37	87	DNT	09C	-.97	50
37	89	DNG	A6	1.27	52
37	97	DNG	08C	37.85	48
37	97	DNT	09H	-.36	48
37	133	DNG	01H	37.98	22
37	133	DNT	02H	-.67	22
37	145	DNG	08C	35.30	14
37	145	DNT	09C	-1.01	14
39	65	DNG	08C	34.77	51
39	65	DNG	08H	32.47	51
39	75	DNT	06C	-.26	59
39	121	DNG	08H	34.80	60
39	121	DNG	08H	35.46	60
39	121	DNT	09C	.48	60
40	34	DNG	08H	37.97	29
41	51	DNG	07C	30.43	49
42	72	DNG	09H	-1.96	61
42	88	DNT	09H	-1.06	52
43	17	DNG	A12	2.72	13
43	125	DNG	09H	-1.26	30

Dents and Dings
SG-C

44	16	DNG	08C	12.16	13
44	16	DNG	08C	14.61	13
44	16	DNG	08C	18.76	13
44	16	DNG	08C	19.83	13
44	16	DNG	08C	20.67	13
44	16	DNG	08H	33.69	13
44	16	DNG	08H	34.75	13
44	16	DNG	08H	35.55	13
45	65	DNG	08H	34.90	51
46	66	DNT	09H	-.39	51
46	92	DNG	FBH	14.78	52
48	8	DNT	09H	.92	15
48	26	DNT	02C	-.37	23
48	66	DNG	08C	38.15	51
48	66	DNG	08H	32.27	51
48	66	DNG	09C	-1.91	51
50	60	DNG	04H	30.51	49
50	82	DNG	03H	2.07	54
50	84	DNG	08C	33.91	56
50	104	DNG	08C	38.16	44
50	142	DNG	02C	8.76	8
52	80	DNG	08H	36.48	56
53	57	DNG	06H	31.01	39
53	147	DNT	A6	.67	14
55	33	DNG	07C	14.66	29
55	143	DNT	09C	-.66	12
56	66	DNG	09C	-1.88	51
56	130	DNG	08H	37.88	20
56	132	DNT	05C	.27	22
58	14	DNG	08H	38.26	15
58	14	DNG	09H	-1.09	15
58	142	DNT	09C	-.60	8
58	144	DNG	08H	37.07	10
58	144	DNT	09C	-.64	10
59	51	DNG	TSC	4.01	45
59	133	DNG	FBC	12.67	22
59	145	DNG	08H	36.29	14
60	40	DNG	01H	7.84	27
60	142	DNT	09C	-.63	8
61	65	DNG	09C	-1.48	51
61	65	DNG	09H	1.73	51
61	65	DNT	09H	.63	51
62	58	DNG	08C	7.01	39
63	141	DNT	09C	-.59	10
64	140	DNG	07C	14.46	8
64	140	DNT	09C	-.58	8
65	29	DNT	07H	.37	37
65	141	DNT	09C	-.61	10
66	140	DNT	09C	-.69	8
67	35	DNG	09H	11.82	31
67	35	DNG	09H	11.87	31
67	139	DNT	09C	-.60	8

Dents and Dings
SG-C

67	141	DNT	09C	-.61	10
68	16	DNG	FBC	13.60	9
68	138	DNG	08C	4.77	10
68	140	DNT	09C	-.60	8
69	63	DNT	A5	.24	53
69	139	DNT	09C	-.63	8
69	141	DNT	09C	-.64	10
70	138	DNT	09C	-.59	10
71	139	DNT	09C	-.60	8
72	138	DNT	09C	-.56	10
72	138	DNT	09C	.51	10
73	137	DNT	09C	-.59	10
74	22	DNT	09H	.43	11
74	136	DNT	09C	-.60	8
74	138	DNT	09C	-.66	10
75	135	DNT	09C	-.68	8
75	139	DNT	02C	.25	8
76	20	DNG	A7	1.99	9
76	96	DNG	03H	2.76	48
76	136	DNT	09C	-.60	8
76	138	DNT	09C	-.64	10
77	39	DNT	09C	.61	31
77	135	DNT	09C	-.60	8
77	137	DNT	09C	-.64	10
78	38	DNT	09C	.56	29
78	132	DNT	09C	-.60	8
78	134	DNT	09C	-.59	10
78	136	DNT	09C	-.60	8
79	55	DNG	08C	36.48	41
79	103	DNG	08H	20.28	42
79	131	DNT	09C	-.57	8
79	135	DNT	09C	-.63	8
80	78	DNG	A12	4.87	54
80	134	DNT	09C	-.61	10
80	136	DNT	09C	-.63	8
81	129	DNT	09C	-.59	10
81	133	DNT	09C	-.59	10
82	130	DNT	09C	-.56	10
82	134	DNT	09C	-.64	10
83	21	DNG	08C	34.78	11
83	45	DNG	09H	-1.96	25
83	129	DNT	09C	-.61	10
83	131	DNT	09C	-.63	8
83	133	DNT	09C	-.61	10
83	135	DNT	09C	-.63	8
84	130	DNT	09C	-.59	10
84	132	DNT	09C	-.60	8
85	55	DNT	FBH	-.82	41
85	129	DNT	09C	-.61	10
85	131	DNT	09C	-.60	8
86	76	DNG	TSH	4.03	61
86	128	DNT	09C	-.58	8

Dents and Dings
SG-C

86	130	DNT	08C	-.59	10
86	130	DNT	09C	-.64	10
86	132	DNT	09C	-.63	8
87	127	DNT	09C	-.63	8
87	131	DNT	09C	-.63	8
88	130	DNT	08C	-.61	10
88	130	DNT	09C	-.61	10
88	130	DNT	09C	.48	10
89	129	DNT	09C	-.64	10
89	131	DNT	09C	-.65	8
90	56	DNG	07C	13.02	41
90	70	DNG	03C	17.62	55
90	112	DNG	09H	2.91	44
90	128	DNT	09C	-.60	8
90	130	DNT	09C	-.64	10
91	129	DNT	09C	-.64	10
91	131	DNT	09C	-.65	8
92	56	DNG	08H	32.77	41
92	126	DNT	08C	-.59	10
92	126	DNT	09C	-.64	10
92	128	DNT	09C	-.63	8
93	33	DNG	01C	29.59	9
93	91	DNG	08C	33.04	46
93	91	DNG	09C	-1.77	46
93	123	DNT	09C	-.58	8
93	125	DNT	08C	-.59	10
93	127	DNT	09C	-.60	8
94	124	DNT	09C	-.60	8
94	124	DNT	A8	.75	8
94	126	DNT	09C	-.61	10
94	128	DNT	09C	-.68	8
95	121	DNT	09C	-.56	10
95	121	DNT	09C	.51	10
95	123	DNT	09C	-.60	8
95	127	DNT	09C	-.63	8
96	96	DNG	TSH	6.14	48
96	126	DNT	09C	-.64	10
97	71	DNG	04C	15.16	55
97	119	DNT	09C	-.61	8
97	119	DNT	09C	.52	8
97	121	DNT	09C	-.61	10
97	123	DNT	08C	-.60	8
97	123	DNT	09C	-.69	8
98	70	DNG	FBH	7.90	55
98	118	DNT	09C	-.61	10
99	121	DNT	08C	-.61	10
99	123	DNT	08C	-.60	8
99	123	DNT	09C	-.63	8
99	125	DNT	09C	-.69	10
100	120	DNT	08C	-.65	8
100	122	DNT	09C	-.64	10
101	59	DNT	A12	.41	45

Dents and Dings
SG-C

101	119	DNT	09C	-.60	8
101	119	DNT	09C	.46	8
101	121	DNT	09C	-.64	10
101	121	DNT	09C	.45	10
102	60	DNG	05C	34.09	49
102	120	DNT	09C	-.63	8
103	55	DNG	08H	37.69	41
103	107	DNT	09C	.50	4
103	115	DNT	09C	-.57	8
103	115	DNT	09C	.49	8
103	119	DNT	09C	-.63	8
103	121	DNT	08C	-.67	10
104	64	DNT	A4	.58	53
104	114	DNT	09C	-.61	10
104	114	DNT	09C	.48	10
104	120	DNT	09C	-.63	8
105	113	DNT	09C	-.61	6
105	113	DNT	09C	.48	6
105	115	DNT	09C	-.63	8
105	115	DNT	09C	.46	8
105	117	DNT	09C	-.64	10
105	117	DNT	09C	.45	10
105	121	DNT	08C	-.67	10
106	64	DNG	TSH	14.30	53
106	64	DNG	TSH	15.21	53
106	100	DNT	09C	.46	48
106	100	DNT	09C	.47	4
106	114	DNT	08C	-.61	10
106	114	DNT	09C	-.61	10
106	116	DNT	08C	.46	8
106	116	DNT	09C	.49	8
106	118	DNT	09C	-.64	10
106	118	DNT	09C	.45	10
107	43	DNG	TSC	10.82	7
107	113	DNT	08C	-.59	6
107	113	DNT	09C	-.61	6
107	113	DNT	09C	.48	6
107	115	DNT	09C	-.60	8
107	115	DNT	09C	.49	8
107	117	DNT	08C	-.64	10
107	117	DNT	08C	.45	10
107	117	DNT	09C	-.64	10
107	117	DNT	09C	.45	10
107	119	DNT	08C	.41	8
108	102	DNG	02C	37.03	6
108	112	DNT	09C	-.63	8
108	114	DNT	08C	-.61	10
108	114	DNT	08C	.43	10
108	114	DNT	09C	-.64	10
108	116	DNT	08C	-.63	8
108	116	DNT	08C	.47	8
108	116	DNT	09C	.44	8

Dents and Dings
SG-C

108	118	DNT	08C	-.67	10
108	118	DNT	08C	.43	10
108	118	DNT	09C	-.67	10
109	111	DNT	08C	-.61	4
109	111	DNT	09C	-.60	4
109	111	DNT	09C	.49	4
109	113	DNT	08C	-.61	6
109	113	DNT	08C	.45	6
109	113	DNT	09C	-.64	6
109	113	DNT	09C	.48	6
109	115	DNT	08C	.46	8
109	115	DNT	09C	-.63	8
109	115	DNT	09C	.46	8
109	117	DNG	A12	5.54	10
109	117	DNG	A12	10.74	10
109	117	DNT	08C	-.67	10
109	117	DNT	08C	.43	10
109	117	DNT	A12	.61	10
110	72	DNG	02H	6.12	57
110	108	DNT	09C	-.60	4
110	110	DNT	08C	-.61	6
110	110	DNT	09C	-.61	6
110	110	DNT	09C	.48	6
110	112	DNT	08C	-.58	8
110	112	DNT	08C	.44	8
110	112	DNT	09C	-.66	8
110	114	DNT	08C	-.64	10
110	114	DNT	08C	.45	10
110	114	DNT	09C	-.61	10
110	114	DNT	09C	.45	10
110	116	DNT	08C	-.78	2
110	116	DNT	08C	-.69	8
110	116	DNT	08C	.29	2
110	116	DNT	08C	.44	8
110	116	DNT	09C	-.78	2
110	116	DNT	09C	-.63	8
111	47	DNG	09H	8.59	7
111	49	DNG	05H	5.66	5
111	107	DNT	09C	-.60	4
111	107	DNT	09C	.49	4
111	109	DNT	08C	-.61	6
111	111	DNT	08C	-.61	4
111	111	DNT	08C	.47	4
111	111	DNT	09C	-.66	4
111	113	DNT	08C	-.64	6
111	113	DNT	08C	.45	6
111	113	DNT	09C	-.64	6
111	113	DNT	09C	.45	6
111	115	DNT	09C	-.68	8
111	115	DNT	09C	.44	8
112	98	DNT	09H	-1.24	6
112	102	DNG	FBH	1.24	6

Dents and Dings
SG-C

112	104	DNT	09C	.49	4
112	106	DNT	09C	.48	6
112	110	DNT	08C	-.61	6
112	110	DNT	08C	.40	6
112	112	DNT	08C	-.60	8
112	112	DNT	08C	.47	8
112	112	DNT	09C	-.63	8
112	112	DNT	09C	.47	8
112	114	DNT	08C	-.69	10
112	114	DNT	09C	-.69	10
113	71	DNG	08H	38.14	3
113	99	DNG	08H	38.01	4
113	105	DNT	09C	-.61	6
113	105	DNT	09C	.48	6
113	107	DNT	09C	-.69	4
113	107	DNT	09C	.50	4
113	109	DNT	08C	-.62	6
113	109	DNT	08C	.43	6
113	111	DNT	08C	-.64	4
113	111	DNT	08C	.44	4
113	111	DNT	09C	-.66	4
113	111	DNT	09C	.44	4
113	113	DNT	08C	-.67	6
113	113	DNT	09C	-.67	6
113	113	DNT	09C	.43	6
114	48	DNT	09C	.49	5
114	48	DNT	09C	.49	7
114	104	DNT	09C	-.61	4
114	104	DNT	09C	.50	4
114	106	DNT	09C	.45	6
114	108	DNT	08C	-.61	4
114	108	DNT	08C	.44	4
114	108	DNT	09C	-.63	4
114	110	DNT	08C	-.64	6
114	110	DNT	08C	.46	6
114	110	DNT	09C	-.64	6
114	110	DNT	09C	.43	6
114	112	DNT	08C	-.63	8
115	47	DNT	09C	-.67	7
115	47	DNT	09C	.47	7
115	105	DNT	09C	-.64	6
115	105	DNT	09C	.45	6
115	107	DNT	08C	-.69	4
115	107	DNT	08C	.44	4
115	109	DNT	08C	.46	6
115	109	DNT	09C	-.64	6
115	109	DNT	09C	.43	6
115	111	DNT	08C	-.67	4
115	111	DNT	09C	-.66	4
116	104	DNT	08C	-.69	4
116	104	DNT	09C	.47	4
116	106	DNT	08C	-.64	6

Dents and Dings
SG-C

116	106	DNT	09C	-.64	6
116	108	DNT	08C	-.61	4
116	108	DNT	09C	-.63	4
116	108	DNT	09C	.44	4
116	110	DNT	08C	-.78	2
116	110	DNT	08C	-.67	6
117	49	DNT	09C	.44	7
117	55	DNT	09C	.48	7
117	105	DNT	09C	-.61	6
117	105	DNT	09C	.45	6
117	107	DNT	08C	-.64	4
117	107	DNT	09C	-.63	4
117	107	DNT	09C	.44	4
118	96	DNT	09C	.50	4
118	102	DNT	09C	.45	6
118	104	DNT	08C	-.64	4
118	104	DNT	08C	.44	4
118	104	DNT	09C	-.63	4
118	104	DNT	09C	.47	4
119	55	DNT	09C	.49	7
119	59	DNT	09C	.44	3
119	83	DNT	09C	.52	4
119	93	DNT	09C	.48	6
119	95	DNT	09C	.50	4
119	99	DNT	09C	.47	4
119	101	DNT	08C	.43	6
119	101	DNT	09C	.45	6
119	103	DNT	08C	.44	4
119	105	DNT	08C	-.66	6
119	105	DNT	08C	.43	6
119	105	DNT	09C	.45	6
120	56	DNT	09C	-.63	5
120	56	DNT	09C	.48	5
120	60	DNT	09C	.48	5
120	96	DNT	08C	.47	4
120	98	DNT	09C	.45	6
120	100	DNT	08C	.44	4
120	100	DNT	09C	.44	4
120	102	DNT	08C	.45	6
120	102	DNT	09C	.45	6
121	55	DNT	09H	-.60	7
121	55	DNT	09H	.52	7
121	57	DNT	09C	.45	5
121	59	DNT	09C	.45	3
121	63	DNT	09C	-.63	3
121	63	DNT	09C	.45	3
121	87	DNT	09C	.49	4
121	93	DNT	09C	.48	6
121	97	DNT	08C	.45	6
121	99	DNT	09C	-.61	4
121	99	DNT	09C	.47	4
121	101	DNT	09C	.45	6

Dents and Dings
SG-C

122	56	DNT	09C	.34	2
122	56	DNT	09C	.43	7
122	60	DNT	09C	.45	5
122	88	DNT	09C	.50	54
122	96	DNT	08C	.43	4
122	96	DNT	09C	.43	4
122	98	DNT	09C	-.63	6
122	98	DNT	09C	.45	6
123	59	DNT	09C	-.67	3
123	59	DNT	09C	.45	3
123	61	DNT	09C	-.64	1
123	61	DNT	09C	.42	1
123	63	DNT	09C	.42	3
123	65	DNT	09C	.44	1
123	67	DNT	09C	.49	58
123	77	DNT	09C	.46	1
123	79	DNT	09C	.49	4
123	83	DNT	09C	.47	4
123	89	DNT	09C	.48	6
123	91	DNT	09C	.47	4
123	95	DNT	09C	.47	4
123	97	DNT	09C	.45	6
124	62	DNT	09C	.45	3
124	64	DNT	09C	-.61	1
124	64	DNT	09C	.49	1
124	64	DNT	09H	.49	1
124	66	DNT	09C	.49	58
124	68	DNT	09C	-.64	1
124	68	DNT	09C	.44	1
124	76	DNT	09C	.46	1
124	78	DNT	09C	.49	4
124	80	DNT	09C	.48	6
124	82	DNT	09C	.49	4
124	86	DNT	09C	.47	6
124	88	DNT	09C	.47	54
124	90	DNT	09C	.46	4
124	92	DNG	A10	13.15	6
124	92	DNG	A10	13.31	4
124	92	DNT	08C	.43	6
124	92	DNT	08C	.44	4
124	94	DNT	09C	.43	6
124	96	DNT	08C	-.73	2
124	96	DNT	08C	-.69	4
124	96	DNT	08C	.32	2
124	96	DNT	08C	.33	4
125	63	DNT	09C	.42	3
125	65	DNT	09C	.39	2
125	65	DNT	09C	.44	1
125	65	DNT	09C	.49	2
125	69	DNT	09C	.44	1
125	71	DNT	09C	.44	3
125	73	DNT	09C	.44	1

Dents and Dings
SG-C

125	75	DNT	09C	.42	3
125	77	DNT	09C	.46	1
125	79	DNT	09C	.49	4
125	81	DNT	09C	.45	6
125	83	DNT	09C	.47	4
125	85	DNT	08C	.45	6
125	85	DNT	09C	.45	6
125	87	DNT	09C	.46	4
125	89	DNT	08C	.43	6
125	91	DNT	09C	-.72	4
125	91	DNT	09C	-.62	2
125	91	DNT	09C	.44	4
125	91	DNT	09C	.47	2
126	66	DNT	09C	.47	58
126	68	DNT	09C	-.67	1
126	68	DNT	09C	.41	1
126	70	DNT	09C	.44	3
126	72	DNT	09C	-.71	2
126	72	DNT	09C	-.67	1
126	72	DNT	09C	.37	2
126	72	DNT	09C	.41	1
126	74	DNT	09C	-.65	3
126	74	DNT	09C	.44	3
126	76	DNT	09C	.41	1
126	78	DNG	05C	8.80	2
126	78	DNG	05C	8.85	4
126	78	DNG	07C	23.05	2
126	78	DNG	07C	23.11	4
126	78	DNT	09C	-.63	4
126	78	DNT	09C	-.59	2
126	78	DNT	09C	.46	4
126	78	DNT	09C	.50	2
126	80	DNT	09C	.48	6
126	82	DNT	09C	.43	4
126	84	DNT	09C	-.64	4
126	84	DNT	09C	-.64	6
126	84	DNT	09C	-.59	2
126	84	DNT	09C	.45	6
126	84	DNT	09C	.48	4
126	84	DNT	09C	.49	2
126	86	DNT	09C	.44	6
126	88	DNT	09C	-.60	54
126	88	DNT	09C	.46	54
127	69	DNT	09C	-.62	2
127	69	DNT	09C	-.60	3
127	69	DNT	09C	.42	3
127	69	DNT	09C	.49	2
127	71	DNT	09C	.41	1
127	73	DNT	09C	.44	1
127	75	DNT	09C	-.74	2
127	75	DNT	09C	-.63	3
127	75	DNT	09C	.34	2

Dents and Dings
SG-C

127	75	DNT	09C	.42	3
127	77	DNT	09C	-.67	1
127	77	DNT	09C	.44	1
127	79	DNT	08C	.46	4
127	79	DNT	09C	.44	4
127	85	DNT	09C	.45	6

SG-D

ROW	COL	INDICATION	LOCATION		CAL NUMBER
1	11	DNT	09H	.29	91
1	115	DNG	09H	2.57	117
1	115	DNT	09H	.59	117
1	115	DNT	09H	.62	117
2	110	DNG	A1	5.25	117
3	21	DNG	07C	34.29	108
3	25	DNG	09H	9.07	89
3	93	DNG	09C	2.55	124
4	16	DNG	02H	7.88	89
4	16	DNG	TSH	17.05	89
5	97	DNG	09C	3.20	124
6	36	DNT	09H	-1.00	60
6	86	DNG	A16	-1.13	83
6	148	DNG	01C	7.95	83
7	59	DNG	01C	16.81	93
7	59	DNG	01C	16.96	88
8	150	DNG	FBC	10.70	81
9	19	DNG	TSH	9.32	50
9	19	DNG	TSH	10.52	50
9	113	DNG	FBC	7.72	53
10	54	DNG	FBH	14.57	93
10	54	DNG	FBH	14.70	109
10	62	DNG	TSC	.96	92
10	104	DNG	FBH	14.59	47
10	144	DNG	03C	18.36	83
12	114	DNG	TSH	3.02	65
12	140	DNG	09H	10.97	79
13	79	DNG	A2	2.25	136
14	104	DNG	09H	36.70	47
15	137	DNG	01H	38.04	77
16	58	DNG	09H	3.83	88
16	68	DNG	09H	4.13	94
17	153	DNG	A2	-1.30	81
18	82	DNG	04C	36.85	83
18	142	DNG	09C	-1.53	81
19	131	DNT	09C	-.83	71
20	74	DNG	08H	36.78	105
22	76	DNG	08C	37.43	103
22	116	DNG	TSC	3.30	59
23	137	DNG	09H	-2.00	77
23	137	DNT	09C	-.69	77
24	152	DNG	FBC	16.33	83
25	137	DNG	09C	-1.30	77
26	138	DNG	09C	-1.78	77
26	138	DNT	09H	-.42	77
27	61	DNG	07C	33.74	88
27	65	DNT	09H	-1.00	92
27	117	DNT	09H	-1.10	69
27	123	DNG	08H	37.68	67
28	120	DNG	03C	34.71	67
29	63	DNG	09C	-1.45	86

SG-D

29	89	DNG	02H	14.14	31
29	117	DNG	08H	20.96	69
29	117	DNG	08H	32.54	69
30	64	DNT	09C	-.82	90
30	108	DNG	02H	8.08	51
31	55	DNG	08H	35.13	76
31	119	DNT	09C	.00	63
32	62	DNG	02C	38.37	92
32	116	DNG	08C	38.04	59
32	116	DNG	08H	39.13	59
33	85	DNG	01C	21.20	27
33	137	DNT	09C	.32	77
35	51	DNG	A16	4.91	72
35	79	DNG	08H	30.94	25
35	81	DNG	08C	37.95	27
36	80	DNG	08C	37.73	27
37	11	DNG	05C	15.67	34
37	11	DNG	05C	15.74	40
37	117	DNG	09C	-1.68	65
38	62	DNG	08C	38.22	92
38	88	DNG	08H	36.00	31
38	92	DNG	04C	12.37	35
39	37	DNG	07C	36.11	62
40	108	DNG	08H	27.75	51
40	108	DNG	08H	28.04	51
40	108	DNG	08H	37.44	51
42	108	DNG	08H	33.93	51
42	136	DNG	08C	37.91	79
43	125	DNT	09H	.15	69
44	68	DNG	04H	22.39	94
45	79	DNT	05H	.78	25
46	118	DNG	A16	12.51	65
46	136	DNG	09H	-1.18	79
46	144	DNG	08H	35.55	79
47	145	DNG	06C	35.79	81
48	136	DNG	08C	31.06	79
49	113	DNG	01H	13.49	53
50	8	DNT	A5	.00	40
50	108	DNT	08H	1.00	51
50	148	DNT	A6	.27	83
51	125	DNT	09H	-.73	69
52	78	DNG	08H	34.08	25
54	88	DNG	09H	13.32	31
55	103	DNG	01C	31.80	47
56	50	DNG	01H	6.93	74
56	100	DNG	A6	2.57	47
56	116	DNT	08C	-.66	59
58	92	DNG	09H	-1.43	35
58	100	DNG	A2	5.09	47
59	101	DNT	A4	.76	45
61	131	DNG	08H	39.32	71
66	66	DNG	02H	12.29	96

Dents and Dings

SG-D

66	138	DNG	03H	-1.26	15
67	121	DNG	A8	11.51	65
69	19	DNG	07H	13.73	30
69	77	DNG	02C	1.34	105
70	132	DNG	08H	36.27	13
71	115	DNG	05H	38.88	55
71	115	DNG	06H	2.37	55
71	119	DNG	02C	24.90	63
72	86	DNG	01H	34.05	29
72	136	DNT	09C	-.62	13
75	139	DNT	A6	.00	15
75	139	DNT	A6	.00	85
77	29	DNG	TSC	16.25	6
79	49	DNG	04H	15.85	74
79	51	DNG	08H	37.17	72
80	104	DNG	07C	36.47	51
81	121	DNT	A1	.02	65
82	20	DNG	03H	2.40	6
82	54	DNT	09C	.44	82
82	126	DNG	04C	21.28	15
83	63	DNG	01H	33.17	86
83	111	DNG	A16	13.92	55
83	135	DNT	05H	.61	15
85	61	DNG	05C	19.50	88
87	79	DNG	09H	5.92	25
87	79	DNG	09H	6.33	21
87	121	DNG	08H	37.76	13
88	84	DNG	08C	35.39	27
89	93	DNG	A16	14.98	33
90	76	DNG	03H	21.71	105
90	82	DNG	08C	8.26	25
90	82	DNG	08C	8.64	23
92	80	DNT	A6	-.34	85
96	50	DNG	08H	34.24	74
96	50	DNG	08H	35.37	74
96	84	DNG	A15	-1.41	27
97	67	DNT	05H	-.15	90
99	109	DNT	09C	.57	9
100	54	DNG	TSC	.97	82
100	122	DNG	A16	17.56	15
105	73	DNG	TSC	.60	102
105	107	DNG	07C	7.73	9
106	104	DNG	05C	13.65	3
108	114	DNG	04H	8.54	11
110	80	DNG	A6	16.09	3
111	47	DNG	TSH	5.30	14
112	82	DNG	08C	33.06	1
115	45	DNG	A1	14.52	16
117	57	DNG	08C	37.39	14
117	57	DNG	09C	-1.98	14
118	66	DNG	03H	34.23	24
119	51	DNG	08C	36.32	16

SG-D

119	51	DNG	08C	37.45	16
119	51	DNT	A9	-.21	16
119	53	DNT	09C	-.58	16
120	86	DNG	02H	8.55	1
124	84	DNG	08C	4.61	3
126	78	DNT	A1	.74	1
126	78	DNT	A1	.74	5
126	88	DNG	A12	19.81	5
126	88	DNG	A12	20.53	3
127	87	DNG	A11	20.72	1

APPENDIX D

TUBES WITH

OTHER

ANOMALOUS

SIGNALS

Tubes with Other
Anomalous Signals
SG-A

ROW	COL	INDICATION	LOCATION		CAL NUMBER
1	31	BLG	09C	-1.27	46
1	89	ADS	06H	14.24	43
1	101	ADS	06H	35.56	43
2	30	ADS	02C	36.23	48
2	88	ADS	TSH	24.85	43
2	92	ADS	05C	8.54	68
2	94	ADS	05C	17.92	66
2	138	ADS	02H	12.23	45
2	142	ADS	02H	9.29	45
2	142	ADS	TSH	9.33	45
3	27	ADS	01C	18.10	32
3	55	ADS	TSH	27.76	55
3	129	ADS	01C	7.25	64
3	129	ADS	FBC	13.47	64
3	153	BLG	08C	37.35	64
4	18	ADS	02C	10.05	32
4	102	MBM	05C	23.61	64
4	128	ADS	04H	12.78	39
4	148	ADS	TSC	10.68	64
5	59	ADS	04C	14.77	52
5	97	ADS	TSC	22.62	64
6	2	ADS	04C	20.62	20
6	2	ADS	05H	10.37	57
7	9	BLG	09C	-1.17	18
7	19	MBM	02C	27.46	24
7	31	BLG	09C	-1.37	34
7	145	BLG	09C	-1.30	51
8	24	ADS	04H	21.61	28
8	46	ADS	05C	35.17	38
8	54	ADS	01C	13.59	42
9	79	ADS	TSC	33.41	88
10	52	ADS	TSH	10.37	44
10	54	ADS	04C	21.10	42
10	58	ADS	03H	3.69	50
10	66	ADS	01C	18.22	56
10	102	MBM	01H	4.28	29
11	11	ADS	01H	5.49	32
11	85	ADS	08H	30.00	27
12	60	ADS	01C	16.93	58
12	72	ADS	01C	2.30	88
12	94	MBM	03H	5.44	23
12	116	ADS	TSH	6.57	39
12	118	BLG	08C	37.20	41
12	140	ADS	FBC	8.04	53
13	45	ADS	01C	20.67	38
13	53	ADS	01C	14.48	42
13	53	ADS	TSC	5.95	42
13	55	ADS	01H	26.27	52
13	105	ADS	TSC	14.18	35
14	40	MBM	03C	5.40	40
14	108	ADS	TSC	6.59	37

Tubes with Other
Anomalous Signals
SG-A

14	116	ADS	01C	6.28	37
14	150	MBM	05H	12.31	51
16	78	ADS	02H	35.34	88
16	86	MBM	TSH	23.14	19
16	100	ADS	TSC	35.70	29
16	136	ADS	02C	7.83	49
16	136	ADS	FBH	4.57	49
18	86	ADS	01H	36.93	19
18	92	ADS	01C	20.64	25
19	23	ADS	02H	35.38	24
19	25	ADS	02H	22.99	22
19	101	ADS	02H	37.07	29
19	141	BLG	FBH	17.41	51
20	94	MBM	04C	27.40	23
21	87	ADS	TSC	4.11	23
22	54	ADS	01C	14.45	42
22	54	ADS	FBC	15.99	42
22	54	ADS	FBH	2.84	42
22	54	ADS	FBH	15.68	42
22	76	ADS	TSC	6.72	60
22	116	ADS	01H	37.67	37
24	54	ADS	01C	3.28	42
24	86	ADS	03H	15.74	19
25	21	MBM	02H	26.78	22
25	131	ADS	05H	8.70	49
26	24	MBM	TSC	14.26	28
26	106	BLG	08C	32.77	35
27	43	MBM	04H	30.03	40
27	51	ADS	01H	35.53	44
27	83	ADS	03H	5.57	19
28	122	ADS	01C	3.85	47
29	113	ADS	03H	33.56	35
29	151	ADS	03H	34.69	53
30	54	ADS	03H	14.36	42
30	118	ADS	03C	13.76	39
31	89	MBM	03H	7.71	25
31	125	ADS	FBC	15.38	47
31	149	ADS	05C	6.31	51
31	149	ADS	05H	13.03	51
32	52	ADS	03H	11.92	44
32	108	ADS	03H	23.34	37
32	110	ADS	02H	22.94	35
32	110	ADS	08H	28.91	35
32	110	ADS	09H	10.16	35
32	110	ADS	TSH	9.77	35
33	75	MBM	01H	37.13	62
33	143	ADS	01C	26.78	53
34	54	ADS	04C	24.01	42
34	122	ADS	03C	13.99	47
35	109	ADS	01C	3.11	35
36	60	ADS	08C	35.28	58
36	60	ADS	08H	33.67	58

Tubes with Other
Anomalous Signals
SG-A

36	60	ADS	09H	13.99	58
36	80	ADS	08C	35.13	17
36	80	ADS	08H	33.60	17
36	80	ADS	A2	1.03	17
36	80	ADS	A2	9.65	17
37	43	ADS	01C	22.27	40
37	43	ADS	07H	1.78	40
38	40	ADS	03C	38.01	40
38	40	ADS	08H	7.78	40
38	74	ADS	03C	5.82	60
38	74	ADS	05C	5.80	60
38	106	ADS	FBC	4.10	35
39	39	MBM	06C	37.04	36
39	65	BLG	08H	34.15	56
40	14	ADS	FBC	9.14	14
40	50	MBM	05H	29.06	42
40	98	MBM	A15	4.59	27
40	100	MBM	04C	18.40	29
40	132	ADS	02C	28.91	49
41	55	ADS	01C	4.75	52
41	137	ADS	02H	35.32	51
42	50	MBM	07H	34.07	42
42	52	ADS	03C	25.76	44
42	54	ADS	03H	26.19	42
42	54	ADS	FBC	7.52	42
42	54	ADS	TEC	22.20	42
43	83	ADS	TSH	7.33	19
45	73	ADS	02H	24.89	60
45	73	ADS	02H	38.24	60
45	139	MBM	08C	4.71	53
46	110	ADS	03H	14.70	35
46	110	ADS	07C	6.32	35
47	19	PVN	A14	-.44	24
47	53	ADS	01C	13.68	42
47	105	ADS	03C	5 34	35
48	42	MBM	06H	26.73	38
48	46	MBM	03H	27.13	38
48	118	ADS	FBC	12.88	39
50	132	ADS	09H	47.87	49
51	11	ADS	FBH	7.04	20
51	41	ADS	03C	22.90	38
51	41	ADS	05C	20.96	38
53	139	ADS	05H	24.50	53
55	19	PVN	A14	6.91	24
56	50	ADS	03H	26.59	42
56	114	ADS	01C	11.66	39
57	49	ADS	01C	20.15	42
57	117	ADS	03H	22.83	39
57	117	ADS	07C	9.00	39
58	42	ADS	01C	8.50	38
58	112	ADS	TSC	11.91	37
59	47	ADS	01C	25.30	44

Tubes with Other
Anomalous Signals
SG-A

59	47	ADS	TSC	6.87	44
59	73	MBM	01C	9.53	60
59	143	ADS	02C	37.83	53
60	142	ADS	TSC	1.94	51
60	142	ADS	TSC	10.58	51
62	58	MBM	09H	3.63	50
62	118	ADS	01C	9.52	39
64	128	ADS	05C	9.25	15
64	138	ADS	01C	23.97	17
65	39	ADS	TSC	7.48	40
65	45	ADS	TSC	8.47	38
65	47	ADS	TSC	15.62	44
66	90	ADS	01C	15.66	23
66	92	ADS	01C	29.34	25
66	92	MBM	TSC	14.44	25
66	126	MBM	03H	8.66	17
66	130	ADS	07H	30.06	17
67	123	ADS	01C	31.40	15
69	105	MBM	06C	14.20	31
69	113	ADS	FBC	6.04	35
70	18	ADS	04C	32.70	16
70	18	ADS	06C	9.98	16
70	72	ADS	01C	23.30	62
71	87	ADS	A12	10.76	23
71	123	MBM	01H	14.72	15
72	126	ADS	01C	8.49	17
72	126	ADS	01C	17.56	17
72	126	ADS	01C	18.52	17
72	130	ADS	FBC	3.95	17
72	130	ADS	TSC	2.29	17
73	99	MBM	06H	6.34	27
73	113	ADS	01C	16.91	35
74	102	ADS	01C	15.81	31
74	138	ADS	03H	22.07	17
76	94	MBM	03H	30.72	23
76	94	MBM	03H	35.49	23
76	116	ADS	FBC	5.50	41
78	126	ADS	TSC	15.19	13
78	128	ADS	01C	9.33	15
78	128	ADS	FBC	7.14	15
78	128	ADS	TSC	3.72	15
78	128	ADS	TSC	14.96	15
79	111	ADS	TSC	9.11	37
79	135	ADS	01C	25.02	15
81	29	ADS	01C	34.42	12
81	29	BLG	07C	37.29	12
81	123	ADS	TSC	17.76	11
81	127	MBM	02H	34.15	15
81	129	ADS	03H	21.16	17
81	129	ADS	04C	27.67	17
81	131	ADS	04C	19.81	15
82	82	ADS	TSH	10.04	19

Tubes with Other
Anomalous Signals
SG-A

83	51	ADS	01C	21.46	44
83	51	ADS	02C	20.16	44
83	129	ADS	03H	19.26	13
83	131	ADS	03H	26.68	15
84	24	ADS	TSC	2.24	14
84	44	ADS	06C	3.46	40
84	44	ADS	08H	3.72	40
84	114	ADS	03C	13.42	39
85	129	ADS	03H	31.03	13
85	131	ADS	03H	26.22	15
86	28	MBM	08H	20.69	10
86	70	ADS	TSC	17.87	60
87	27	ADS	01C	22.20	10
87	27	ADS	TSC	2.40	10
89	87	ADS	06C	19.03	19
90	130	ADS	03H	9.64	17
92	106	ADS	03H	24.72	35
93	31	ADS	TSC	14.64	10
93	117	ADS	03H	28.11	13
93	129	ADS	03H	28.79	13
94	78	ADS	FBC	3.39	15
94	106	ADS	02C	23.72	35
94	106	ADS	FBC	8.48	35
95	91	ADS	TSC	17.10	23
96	48	ADS	FBC	2.08	44
96	116	BLG	A4	10.58	11
96	116	BLG	A4	10.67	13
97	51	ADS	07H	16.27	44
97	99	MBM	03H	6.32	27
97	99	MBM	03H	6.46	27
97	117	ADS	09H	2.72	13
98	36	ADS	TSC	4.97	10
98	52	BLG	08C	7.56	44
98	56	ADS	01C	23.43	52
98	56	ADS	TSC	8.31	52
98	106	ADS	03H	6.82	35
99	69	ADS	05C	31.56	60
100	34	ADS	04H	38.23	12
100	50	ADS	01H	33.70	8
100	50	ADS	02H	17.14	8
101	35	ADS	02C	-.89	10
101	79	MBM	01C	25.01	19
102	50	ADS	01C	29.63	8
102	50	ADS	TSC	14.30	8
102	60	ADS	01H	37.34	52
102	60	ADS	02H	20.25	52
102	106	MBM	TSC	12.27	7
103	35	MBM	02C	18.36	10
103	85	MBM	TSC	16.17	21
103	121	ADS	01C	28.90	13
103	121	ADS	TSC	6.48	13
104	52	ADS	01C	18.38	6

Tubes with Other
Anomalous Signals
SG-A

104	78	ADS	07C	4.67	15
104	78	ADS	TSC	2.63	15
105	89	ADS	03H	14.55	21
105	107	ADS	TEH	23.11	7
106	42	ADS	TSC	3.35	8
106	84	MBM	09H	7.08	55
106	94	ADS	05C	11.27	23
106	110	ADS	03H	12.32	11
108	50	ADS	02H	27.52	8
108	54	MBM	01H	26.76	8
108	70	ADS	02H	23.41	60
108	102	ADS	02C	18.75	7
108	112	ADS	TSC	6.83	13
110	48	ADS	01C	19.03	6
110	74	ADS	01C	23.39	60
110	106	ADS	FBC	8.79	7
111	97	ADS	05C	25.20	1
112	86	ADS	TSC	2.57	1
113	85	ADS	01C	4.88	1
115	61	ADS	07H	30.20	8
115	79	ADS	02C	33.26	5
115	81	ADS	TSC	2.11	5
115	81	ADS	TSC	9.85	5
116	90	ADS	07C	35.55	5
116	98	ADS	07C	15.18	1
117	67	ADS	06C	21.23	2
117	73	BLG	TSC	1.06	4
117	85	ADS	A12	33.95	5
118	52	ADS	FBC	3.12	6
118	96	ADS	01C	4.94	1
120	52	ADS	04C	15.89	6
121	101	ADS	09H	17.59	9
121	101	ADS	FBC	16.19	9
122	64	NQS	01C	3.07	2
126	78	ADS	FBC	5.66	3

Tubes with Other
Anomalous Signals
SG-B

ROW	COL	INDICATION	LOCATION		CAL NUMBER
1	43	ADS	02C	15 00	86
1	43	ADS	03C	35.63	86
1	43	ADS	05H	23.83	111
1	43	ADS	05H	23.83	125
2	2	ADS	01C	27.54	86
2	2	ADS	FBC	11.49	86
3	101	MBM	05H	2.19	99
3	101	MBM	05H	2.24	117
4	70	ADS	TSC	28.28	88
4	88	ADS	TSH	23.84	117
4	88	ADS	TSH	24.48	99
4	94	BLG	09H	-1.58	119
4	94	BLG	09H	-1.54	101
4	98	ADS	TSH	2.61	119
4	98	ADS	TSH	2.79	101
4	98	ADS	TSH	2.80	99
4	98	BLG	09H	-1.52	99
4	98	BLG	09H	-1.50	119
4	98	BLG	09H	-1.46	101
5	119	ADS	TSH	15.21	99
5	119	ADS	TSH	15.56	119
5	125	MBM	06C	35.19	71
5	125	MBM	06C	35.20	106
5	127	MBM	02C	36.16	108
5	151	ADS	01H	-1.22	95
6	34	ADS	TSC	5.05	48
6	52	ADS	TSH	7.31	36
6	58	MBM	TSC	22.22	32
7	3	BLG	09H	-1.27	107
7	3	BLG	09H	-1.25	82
7	83	ADS	07C	17.79	141
8	2	ADS	01H	13.04	74
8	2	ADS	FBH	14.23	74
8	46	ADS	01H	24.08	46
8	124	ADS	FBH	13.55	71
9	33	ADS	07C	14.16	52
9	47	ADS	01H	18.07	107
9	81	MBM	TSC	8.94	141
11	147	ADS	TSC	10.95	100
11	153	MBM	01C	12.63	100
12	22	ADS	01H	20.68	58
14	12	ADS	06C	17.92	82
14	12	ADS	08C	13.33	82
15	113	ADS	08C	21.65	63
16	76	ADS	01H	25.68	141
16	88	MBM	01C	17.95	51
17	19	ADS	FBH	13.92	58
17	31	ADS	01H	18.21	54
19	73	ADS	05C	13.73	122
19	79	ADS	01H	31.98	141
19	85	ADS	04C	19.35	141

Tubes with Other
Anomalous Signals
SG-B

20	92	ADS	08C	18.73	53
21	115	MBM	TSC	6.55	65
22	54	MBM	06C	9.21	32
22	68	MBM	03C	-1.68	22
22	76	ADS	07H	10.69	122
22	80	MBM	TSH	5.51	122
23	31	ADS	01H.	36.71	54
23	43	MBM	06H	9.56	46
23	131	ADS	01C	20.25	103
23	131	ADS	FBC	13.84	103
23	131	ADS	TSC	7.76	103
23	137	MBM	TSH	16.72	83
24	54	MBM	06C	5.58	32
24	56	MBM	04H	19.13	30
24	60	MBM	06C	17.52	30
25	25	ADS	03C	18.00	56
26	4	ADS	03C	14.09	74
26	10	ADS	07C	13.65	70
26	70	MBM	03C	37.36	12
27	91	MBM	05H	15.30	55
28	84	MBM	04C	15.06	15
28	84	MBM	04C	15.07	45
29	121	ADS	02H	12.82	67
30	112	ADS	03C	35.33	65
30	116	MBM	07H	37.27	67
32	48	ADS	TSC	17.37	42
32	94	ADS	TSH	6.38	55
32	148	ADS	02H	12.34	97
33	7	ADS	01H	16.19	74
33	15	ADS	01H	23.33	62
33	43	ADS	03C	23.62	46
34	136	ADS	03H	37.23	75
36	44	ADS	02C	32.42	44
37	41	ADS	TSC	17.79	44
38	62	MBM	01C	33.94	28
38	122	ADS	05C	8.97	69
39	55	ADS	03C	9.56	32
39	119	ADS	08H	6.84	65
39	123	ADS	03C	24.48	69
40	52	ADS	02H	27.66	34
42	58	ADS	03C	27.99	32
43	69	MBM	03C	21.86	18
43	69	MBM	03H	34.81	18
43	69	MBM	05C	32.77	18
44	50	ADS	03C	28.01	36
45	11	ADS	01H	11.60	70
46	56	ADS	01H	28.62	30
46	88	ADS	01C	14.24	49
46	106	MBM	04C	7.96	59
47	83	ADS	06H	17.32	102
47	83	ADS	06H	17.42	101
49	97	ADS	FBC	16.91	57

Tubes with Other
Anomalous Signals
SG-B

50	132	ADS	TSH	10.97	71
51	105	ADS	06H	37.81	59
51	105	ADS	06H	37.81	61
51	139	MBM	05C	17.01	81
52	132	ADS	07C	5.79	71
53	17	ADS	03C	2.43	60
53	17	MBM	TSC	10.97	60
53	65	MBM	04C	9.22	22
54	70	BLG	08C	26.90	20
55	23	ADS	A12	7.97	58
55	45	MBM	03H	33.36	44
58	48	MBM	03C	22.15	42
58	80	ADS	02H	22.66	13
58	84	MBM	02C	30.39	45
58	84	MBM	02C	30.51	15
60	106	ADS	01C	37.01	59
63	49	ADS	02H	7.81	42
63	57	ADS	01H	4.27	30
63	57	ADS	01H	17.82	30
64	14	ADS	07C	37.61	66
64	70	BLG	06H	-.57	20
65	17	ADS	03C	5.83	64
65	41	MBM	01H	33.25	44
66	96	ADS	01H	37.90	53
68	46	NQS	03C	37.57	40
68	68	MBM	04C	25.97	22
73	53	ADS	09H	29.12	34
73	103	MBM	06H	27.31	29
75	53	ADS	07H	4.05	34
75	59	MBM	03H	28.96	28
75	59	MBM	04H	-1.80	28
75	61	MBM	07H	29.50	26
75	71	BLG	08C	31.43	20
75	107	MBM	04H	30.79	37
76	24	MBM	04C	14.80	68
76	26	MBM	01C	21.80	78
76	56	MBM	02C	29.46	34
76	56	MBM	04H	18.31	34
76	56	MBM	06C	29.12	34
76	74	MBM	05C	35.89	12
76	74	MBM	05C	37.92	12
78	22	ADS	TSH	10.49	70
78	54	ADS	07C	18.88	36
81	35	ADS	A2	12.81	50
81	91	MBM	06H	10.12	25
81	103	MBM	01H	16.18	29
82	22	ADS	01C	33.67	70
85	55	MBM	05H	22.81	32
85	55	MBM	05H	22.84	32
85	55	MBM	07H	1.49	32
85	55	MBM	07H	1.69	32
85	55	MBM	A7	-1.61	32

Tubes with Other
Anomalous Signals
SG-B

85	55	MBM	TSC	8.51	32
85	55	MBM	TSC	9.04	32
86	74	ADS	02C	16.10	80
86	132	ADS	02C	18.51	47
87	33	MBM	01H	29.51	52
88	110	MBM	FBH	17.09	37
90	110	ADS	07H	1.77	37
91	115	MBM	FBC	9.55	37
92	92	MBM	04C	3.71	23
92	116	ADS	TSC	18.21	39
93	57	ADS	FBC	7.82	30
93	125	ADS	02C	6.50	43
95	63	MBM	A2	16.55	24
95	71	MBM	07H	5 44	2
96	112	ADS	02C	29.76	39
96	124	MBM	04C	35.31	43
97	123	MBM	05H	5.39	41
97	123	MBM	TSC	4.88	41
99	63	MBM	02C	3.07	28
101	117	ADS	TSH	3.11	39
102	70	MBM	04C	31.06	20
102	122	MBM	TSC	9.06	41
103	91	MBM	08H	6.85	25
104	40	MBM	TSC	17.99	48
105	43	MBM	FBH	11.55	40
107	49	MBM	04H	16.22	38
108	68	MBM	03H	20.37	22
108	108	MBM	05C	1.52	35
109	57	ADS	07H	17.62	32
110	50	MBM	A16	4.84	36
110	82	MBM	06C	22.81	5
110	82	MBM	06C	22.89	7
112	42	ADS	03C	9.45	46
112	74	MBM	05C	28.14	6
114	50	ADS	03C	4.92	36
115	63	MBM	TSC	16.91	28
115	73	MBM	04H	37.99	6
119	57	BLG	A13	.11	32
120	74	MBM	02H	5.56	6
121	71	ADS	03C	4.63	2
121	71	ADS	03C	5.19	2
121	71	ADS	03C	5.67	2
124	66	ADS	FBH	4.29	20
127	71	BLG	09H	-.49	2

Tubes with Other
Anomalous Signals
SG-C

ROW	COL	INDICATION	LOCATION		CAL NUMBER
1	45	BLG	09C	-.44	64
1	57	BLG	09C	-1.60	64
1	63	MBM	06C	-1.86	66
2	118	BLG	09H	-1.86	71
2	154	ADS	TSC	13.53	26
3	43	MBM	02C	24.81	62
4	54	ADS	TSC	11.11	64
4	140	ADS	TSC	10.29	20
4	150	ADS	TSC	9.07	22
7	19	ADS	TSH	8.44	19
7	127	ADS	FBC	8.95	20
7	127	ADS	TSC	12.58	20
8	54	ADS	02H	11.88	39
8	124	MBM	07H	34.92	66
9	135	ADS	08C	34.40	16
11	83	MBM	02C	19.86	83
12	96	ADS	TSC	21.38	48
13	119	BLG	A2	6.32	36
13	123	ADS	07C	5.58	58
13	131	BLG	A2	3.94	20
13	133	BLG	A3	.00	22
14	146	MBM	FBH	7.20	14
15	37	MBM	07H	17.33	29
15	117	BLG	07H	8.14	40
16	16	ADS	TSC	6.18	13
16	64	MBM	05H	32.00	53
17	17	ADS	02H	30.98	13
17	153	ADS	TSC	8.44	10
19	121	ADS	TSH	17.56	58
20	40	MBM	01C	-1.99	27
21	63	MBM	01C	31.73	53
24	144	ADS	08C	19.58	10
30	14	ADS	02C	24.80	15
33	85	MBM	08H	12.36	52
35	149	MBM	04C	4.81	14
38	78	ADS	01C	25.73	54
39	83	ADS	01C	14.69	50
39	93	ADS	TSH	12.99	48
40	128	ADS	FBC	12.51	22
40	140	ADS	06C	28.62	14
41	143	MBM	05C	14.73	12
44	110	MBM	03C	32.40	42
44	110	MBM	03C	34.03	42
44	110	MBM	08C	1.54	42
46	38	ADS	02H	24.95	29
48	42	BLG	09H	3.28	25
49	111	ADS	02H	4.52	38
49	111	ADS	07H	21.75	38
49	111	MBM	01C	13.72	38
49	111	MBM	05C	18.79	38
50	22	ADS	01C	9.69	19

Tubes with Other
Anomalous Signals
SG-C

54	144	ADS	FBC	10.78	10
55	57	MBM	04H	30.31	39
55	67	MBM	04C	8.91	53
56	142	ADS	02C	17.58	8
57	15	ADS	03H	12.44	15
57	121	ADS	04H	29.40	58
59	97	ADS	07H	16.86	48
60	52	MBM	08C	13.52	41
61	127	MBM	02H	13.61	20
65	25	ADS	05C	37.87	37
67	93	ADS	02C	-1.51	48
67	115	MBM	FBC	14.76	38
68	34	ADS	02C	32.39	29
70	116	MBM	03H	21.26	40
71	119	ADS	01C	10.32	36
71	133	ADS	FBC	7.16	10
73	123	ADS	01C	-.89	28
73	139	MBM	06C	33.37	8
74	42	ADS	01C	22.19	25
77	91	MBM	FBH	8.32	46
77	95	MBM	05H	37.41	46
79	123	ADS	04C	37.38	28
80	24	ADS	03H	11.91	9
82	66	ADS	01C	11.13	51
82	66	ADS	02C	10.62	51
84	70	ADS	01C	9.57	55
84	70	ADS	02C	4.85	55
84	70	ADS	FBC	16.45	55
85	95	MBM	08C	37.14	46
86	90	ADS	TSH	3.07	50
89	77	ADS	TEC	10.90	61
90	66	ADS	01C	14.09	51
90	66	ADS	01C	29.25	51
90	66	ADS	FBC	3.00	51
90	66	ADS	TSC	17.83	51
90	72	ADS	01C	26.89	61
90	72	ADS	FBC	4.17	61
90	98	ADS	09H	38.93	46
96	50	ADS	03H	19.66	58
96	72	ADS	02C	34.89	61
96	104	MBM	06C	20.98	44
97	29	MBM	A4	12.37	11
97	99	ADS	A4	24.33	46
98	36	MBM	08C	29.60	9
101	81	ADS	01C	11.40	56
102	74	ADS	01C	27.32	59
102	86	ADS	07C	7.15	50
107	85	ADS	TSC	16.45	52
107	93	ADS	FBC	12.49	48
108	50	NQS	TSH	1.80	7
111	55	NQS	TSH	1.64	7
111	81	ADS	07H	30.83	6

Tubes with Other
Anomalous Signals
SG-C

115	51	NQS	TSH	1.70	7
116	100	MBM	02H	14.42	4
117	55	NQS	TSH	1.87	7
118	72	NQS	03H	5.04	1
119	55	NQS	TSH	1.87	7
124	94	MBM	04H	13.47	6

Tubes with Other
Anomalous Signals
SG-D

ROW	COL	INDICATION	LOCATION		CAL NUMBER
1	69	BLG	07C	35.93	106
1	119	BLG	08H	35.24	85
1	119	BLG	08H	35.51	117
1	121	BLG	08H	36.36	115
1	121	BLG	08H	36.59	87
1	137	BLG	09H	-.98	115
3	57	MBM	07C	35 15	108
3	57	MBM	07C	35.16	112
3	141	BLG	08H	37.71	85
3	141	BLG	08H	37.76	115
3	149	MBM	04C	14.64	108
5	89	ADS	TSH	24.67	87
6	144	BLG	09H	-1.40	83
7	35	MBM	02H	20.88	97
7	35	MBM	02H	20.89	109
7	35	MBM	05H	17.17	97
7	35	MBM	05H	17.26	109
8	10	ADS	04C	13.12	111
8	10	ADS	05C	8.58	111
8	10	ADS	05C	9.92	111
8	28	ADS	FBH	17.51	60
8	84	BLG	A1	5.29	136
8	84	BLG	A1	5.48	83
8	120	NQS	02C	35.95	67
9	69	ADS	02H	33.79	111
9	69	ADS	02H	33.99	94
9	69	ADS	TSH	36.17	111
10	50	ADS	02H	18.23	74
10	54	BLG	01H	4.97	93
10	54	BLG	01H	5.19	109
10	62	ADS	04H	26.90	92
10	74	ADS	02C	27.60	136
11	29	ADS	02H	14.87	58
11	29	ADS	02H	30.84	58
11	35	MBM	TSC	16.32	62
11	35	MBM	TSC	16.36	56
14	124	BLG	08C	39.42	67
14	128	MBM	FBH	2.94	71
14	146	ADS	04H	5.30	81
14	146	ADS	07H	13.03	81
15	99	ADS	05H	8.91	43
16	8	ADS	01H	17.08	42
17	33	ADS	07C	18.45	97
17	83	ADS	02C	9.06	83
17	97	ADS	02C	22.55	41
17	101	ADS	02C	22.56	45
17	129	MBM	01C	22.15	69
17	133	ADS	07C	22.74	73
18	30	MBM	04C	29.59	58
18	56	ADS	FBH	17.04	80
18	122	BLG	A16	6.58	65

Tubes with Other
Anomalous Signals
SG-D

19	57	ADS	02C	34.94	80
21	5	MBM	02H	7.09	42
21	29	MBM	02C	2.69	58
22	14	ADS	FBH	3.14	34
22	46	ADS	04C	26.08	74
23	69	ADS	01H	7.09	98
23	69	ADS	01H	7.17	100
26	66	ADS	03C	30.84	96
26	66	ADS	TSC	16.45	96
28	4	MBM	01H	28.96	44
28	58	ADS	02C	27.98	80
29	11	ADS	01H	11.30	40
29	65	MBM	07C	7.68	92
29	77	ADS	01H	15.22	105
30	32	MBM	01C	16.92	56
30	70	ADS	08C	14.43	100
30	104	MBM	03H	21.30	47
31	41	MBM	04C	35.91	66
32	46	MBM	03C	2.27	74
32	50	MBM	08C	24.30	74
33	21	ADS	06C	4.50	48
33	133	ADS	01H	34.70	85
33	133	ADS	02H	4.12	85
35	55	ADS	06C	18.08	76
37	41	MBM	07H	33.12	66
37	59	MBM	05C	12.87	80
37	145	MBM	02C	25.54	81
40	34	ADS	03C	12.39	62
43	79	MBM	06C	26.66	25
43	121	ADS	01H	37.21	65
43	121	ADS	02H	5.77	65
45	43	MBM	04C	4.99	68
45	59	ADS	07H	6.76	80
46	50	ADS	FBH	3.79	74
47	37	ADS	01H	33.19	62
47	49	ADS	08C	28.53	74
47	59	ADS	06C	28.82	80
47	97	ADS	02H	19.56	41
47	97	ADS	07H	4.45	41
48	142	MBM	02C	24.73	77
48	144	MBM	08C	13.09	79
49	37	ADS	01H	34.50	62
49	37	ADS	05H	3.40	62
49	37	ADS	07H	1.70	62
49	37	ADS	08H	13.28	62
49	127	ADS	TSC	17.56	71
50	84	MBM	TSC	10.54	27
50	108	MBM	03H	38.91	51
50	118	ADS	08C	25.93	65
54	114	ADS	07H	22.00	57
54	118	ADS	02C	21.88	65
55	79	ADS	03C	15.87	25

Tubes with Other
Anomalous Signals
SG-D

57	89	ADS	06C	36.40	31
58	116	MBM	03C	1.86	59
59	43	ADS	A16	10.64	68
59	65	BLG	08H	1.85	92
60	86	ADS	01C	32.61	29
61	103	ADS	05H	38.04	47
63	107	ADS	08H	20.43	51
64	54	ADS	02C	31.76	82
65	63	ADS	FBC	15.84	86
65	63	ADS	TSC	13.20	86
65	139	MBM	08C	33.37	15
66	42	ADS	03C	8.70	70
66	66	MBM	07C	14.02	96
66	66	MBM	07C	25.84	96
67	39	BLG	03C	16.28	60
67	123	MBM	08C	13.00	67
67	129	MBM	07C	5.84	69
68	126	MBM	07C	4.60	69
73	49	MBM	01H	31.69	74
73	133	ADS	03H	13.55	13
74	134	MBM	04C	19.53	15
75	63	ADS	02C	7.41	86
75	63	ADS	05C	3.36	86
75	63	ADS	07H	32.17	86
75	67	MBM	01C	20.25	90
77	27	ADS	01H	13.64	6
77	27	ADS	01H	24.24	6
78	74	MBM	04H	15.84	98
79	19	ADS	03C	10.32	6
79	51	ADS	03C	12.35	72
79	53	MBM	05H	2.26	78
79	95	ADS	TSH	12.77	35
79	97	ADS	01H	37.22	41
79	137	ADS	07H	9.98	15
80	46	ADS	01C	35.56	70
80	46	ADS	09H	42.22	70
83	61	ADS	01H	28.93	88
83	89	ADS	TSH	8.16	31
85	33	ADS	02C	8.61	30
85	39	ADS	A10	5.98	60
85	103	MBM	05C	8.79	47
86	54	MBM	05H	29.77	82
88	122	MBM	06H	11.21	15
93	129	ADS	01H	35.93	13
93	129	ADS	01H	36.50	15
94	102	ADS	A11	3.19	49
97	103	MBM	03C	35.99	47
98	52	MBM	A12	13.01	72
98	110	MBM	02H	29.12	9
98	122	ADS	FBH	2.52	15
99	121	ADS	01H	36.41	13
99	121	MBM	03H	17.68	13

Tubes with Other
Anomalous Signals
SG-D

102	86	MBM	07H	30.95	29
103	35	MBM	04H	10.38	30
103	121	ADS	FBH	15.18	13
103	121	ADS	TSH	4.08	13
104	100	NQS	02C	9.97	47
105	67	MBM	04H	11.55	90
108	42	MBM	TSC	8.93	14
112	86	MBM	02C	-1.83	1
114	92	MBM	05C	10.01	31
117	95	ADS	01H	27.74	1
120	82	ADS	03H	35.47	1
122	78	ADS	04H	23.34	1

APPENDIX E

TUBES REMOVED

FROM SERVICE

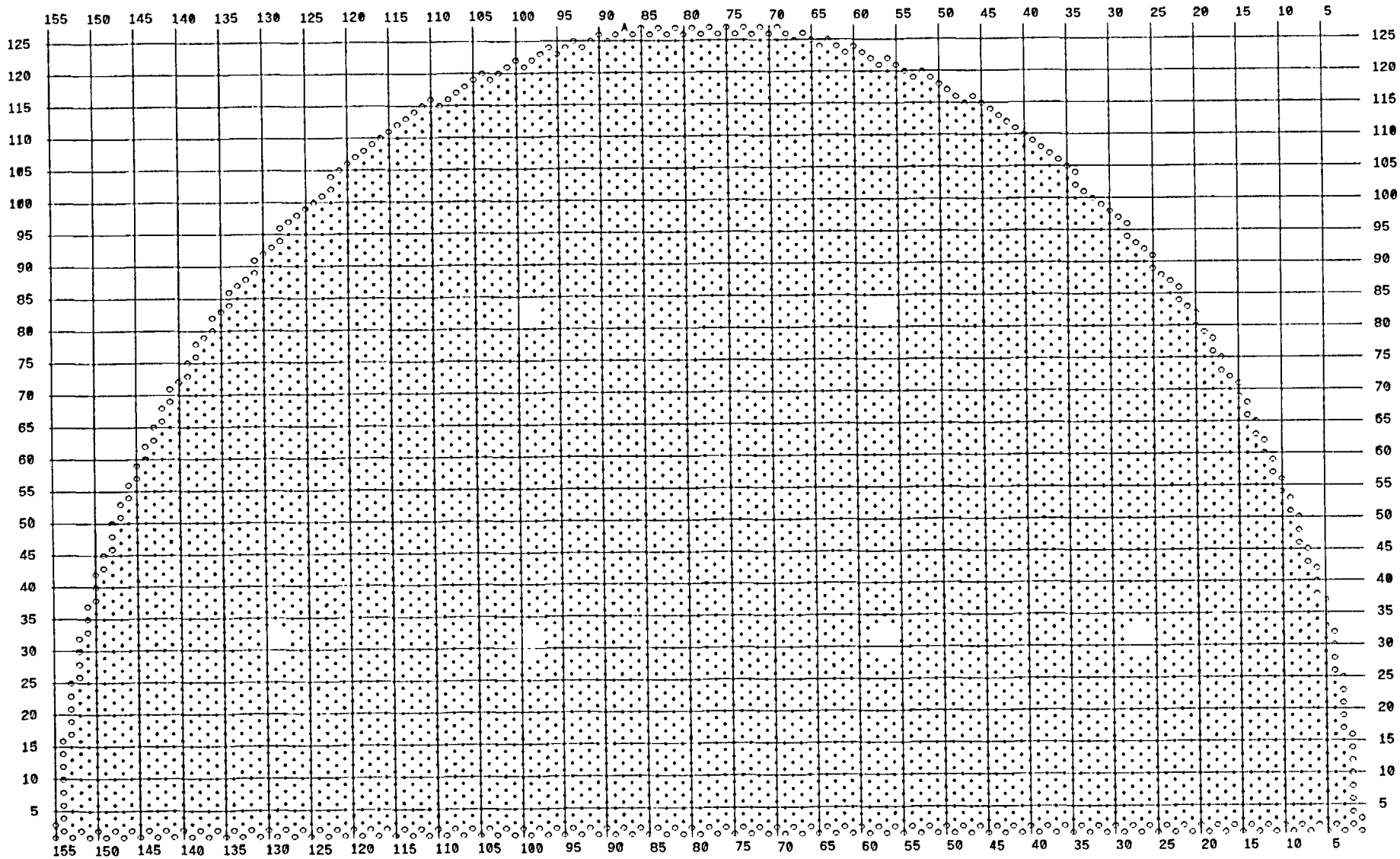
PRIOR TO

INSTALLATION

SG - A Plugged Tube History

South Texas PSI THX D94

A 1 01/2002: Factory WP

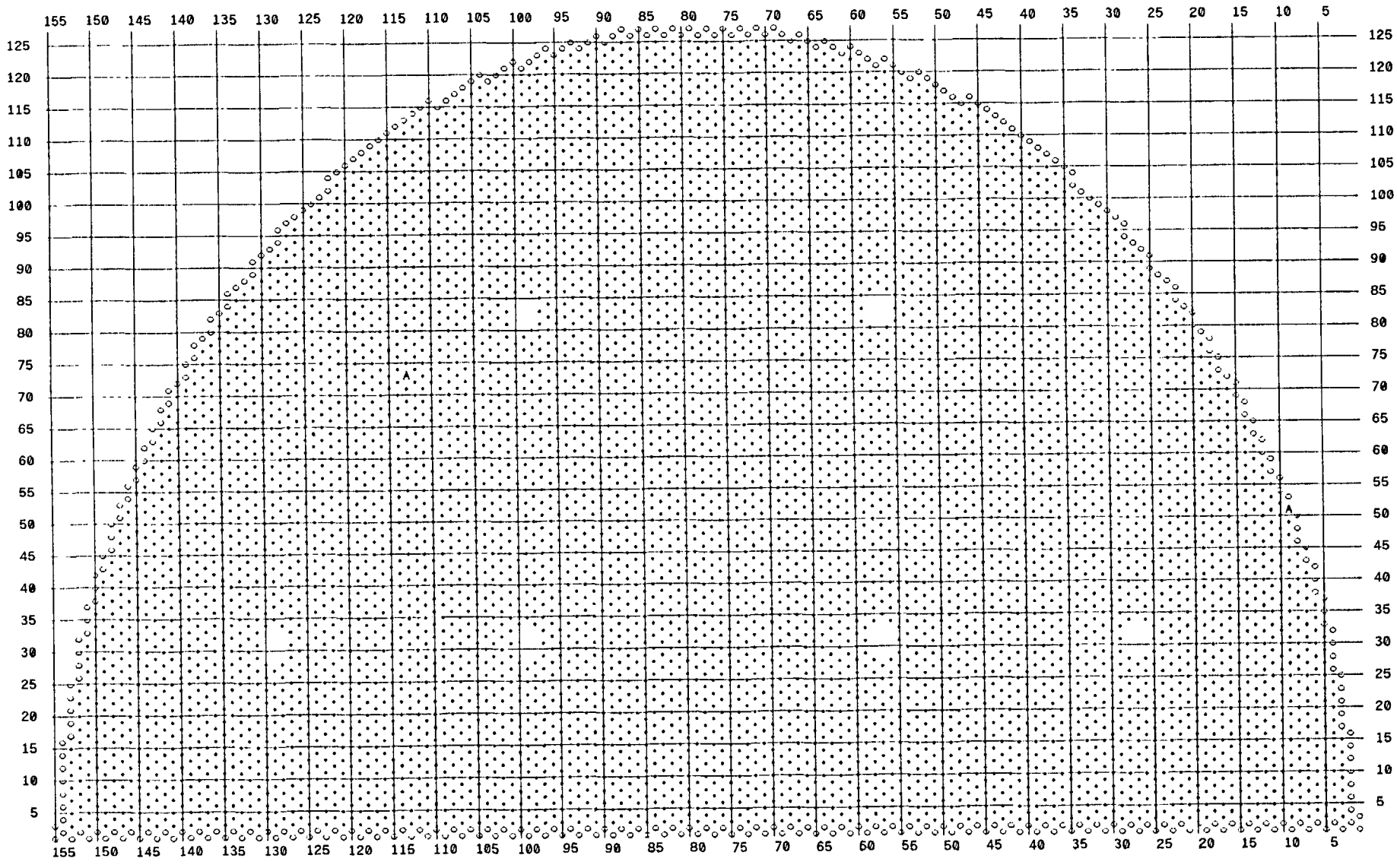


Westinghouse Electric Company LLC - NSBU ST2000 02/27/2002 13:40:20

SG - B Plugged Tube History

South Texas PSI THX D94

A 2 01/2002: Factory WP

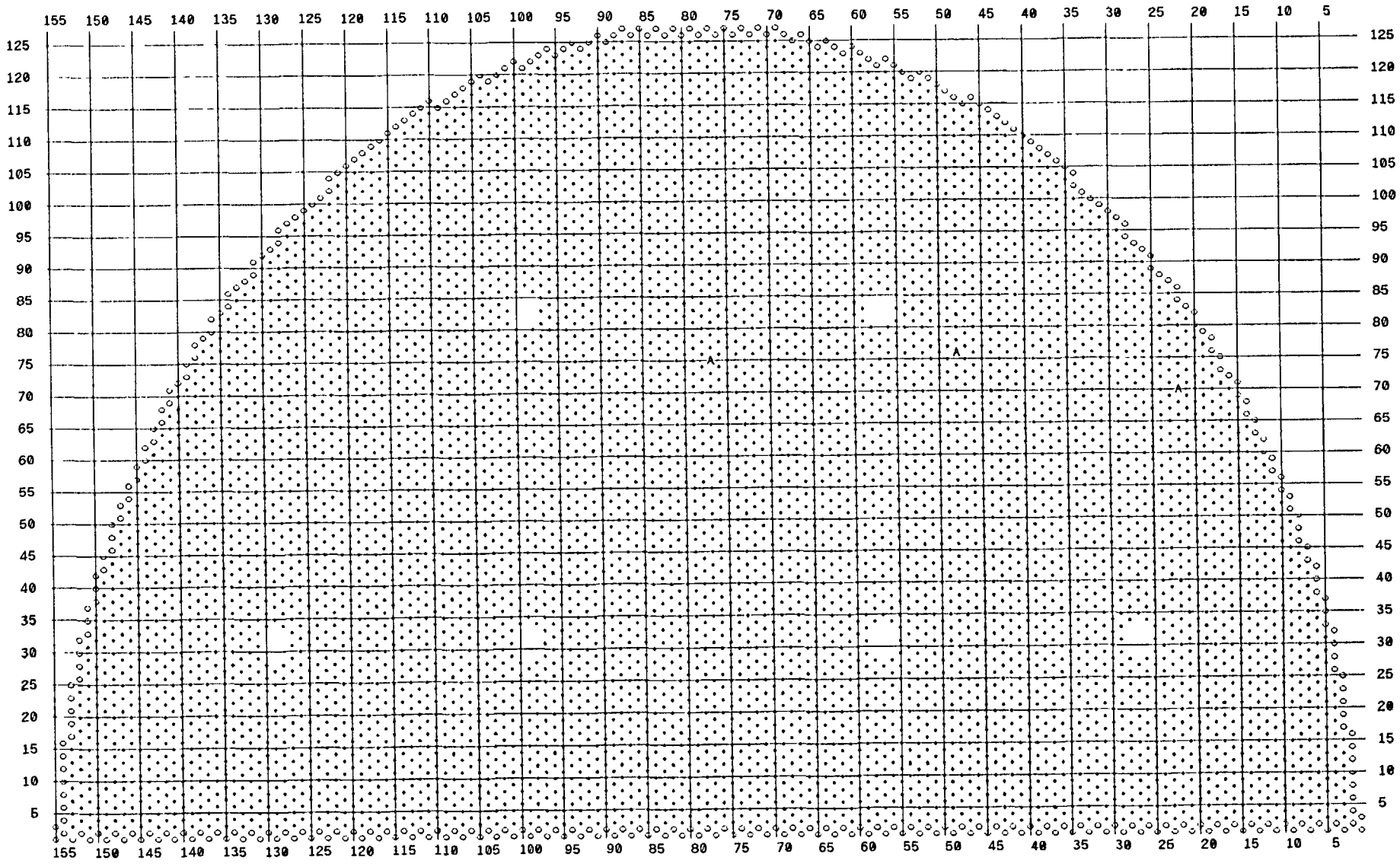


Westinghouse Electric Company LLC - NSBU ST2000 02/27/2002 13 41 01

SG - C Plugged Tube History

South Texas PSI THX D94

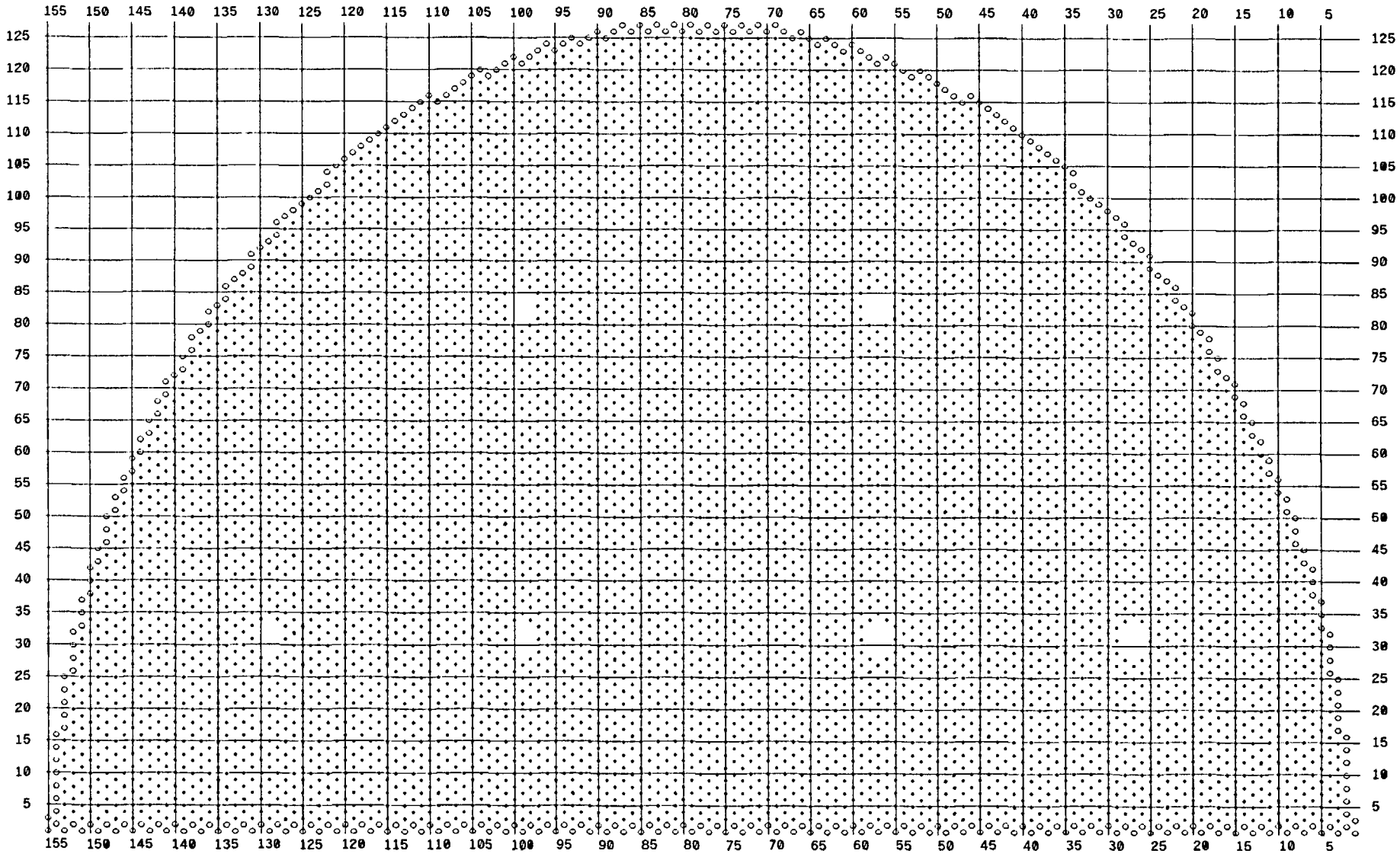
A 3 01/2002: Factory WP



Westinghouse Electric Company LLC NSBU ST2000 02/27/2002 13 41 22

SG - D Plugged Tube History - No Tubes Plugged

South Texas PSI THX D94



Westinghouse Electric Company LLC - NSBU ST2000 02/27/2002 13 50 04

APPENDIX F

OWNER'S REPORT

FOR

INSERVICE INSPECTIONS

NIS-1 FORM

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
As required by the Provisions of the ASME Code Rules

1. Owner South Texas Project Nuclear Operating Company*; P O Box 289; Wadsworth, Texas 77483
(Name and Address of Owner)

2. Plant South Texas Project Electric Generating Station; P.O. Box 289; Wadsworth, Texas 77483
(Name and Address of Plant)

3. Plant Unit 2 4. Owner and Certificate of Authorization (if required) N.A

5. Commercial Service Date 6/19/89 6. National Board Number for Unit N.A.

7. Components Inspected **ASME Code Class 1 (IWB) Items - Steam Generator Tubes**

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Steam Generator 1R122NSG201A	Westinghouse Electric Company, LLC (M)	THXE-40342/1FM2	N.A.	78
Steam Generator 1R122NSG201B	Westinghouse Electric Company, LLC (M)	THXE-40343/2FM2	N.A.	79
Steam Generator 1R122NSG201C	Westinghouse Electric Company, LLC (M)	THXE-40344/3FM2	N.A.	80
Steam Generator 1R122NSG201D	Westinghouse Electric Company, LLC (M)	THXE-40345/4FM2	N.A.	81

* South Texas Project Nuclear Operating Company (STPNOC) is the licensed operator of the South Texas Project Electric Generating Station

STPNOC by J.L. Haning Date 2-25-03 Factory Mutual by B.R.Russell Date 2-27-03
J.L. Haning Insurance Co. B.R.Russell,ANII

8. Examination Dates 1-10-2002 to 12-6-2002

9. Inspection Period Identification: First Period (10/19/00 to 10/18/03)

10. Inspection Interval Identification: Second Interval (10/19/00 to 10/18/10)

11. Applicable Edition of Section XI 1989 Addenda None

12. Date / Revision of Inspection Plan: September 2000/Revision 0

13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. **(AMSE Code Class 1 (IWB) Items – Steam Generator Tubes)**
    See Section 4.0 of the "Preservice Inspection Summary Report for Tubing in the Replacement Steam Generators of the South Texas Project Electric Generating Station Unit 2"
14. Abstract of Results of Examinations and Tests. **(AMSE Code Class 1 (IWB) Items – Steam Generator Tubes)**
    See Section 5.0 of the "Preservice Inspection Summary Report for Tubing in the Replacement Steam Generators of the South Texas Project Electric Generating Station Unit 2"
15. Abstract of Corrective Measures. **(AMSE Code Class 1 (IWB) Items – Steam Generator Tubes)**
    See Section 5.0 of the "Preservice Inspection Summary Report for Tubing in the Replacement Steam Generators of the South Texas Project Electric Generating Station Unit 2"

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

Certificate of Authorization No. (if applicable) N.A. Expiration Date N.A

Date 2-25 20 03 Signed STP Nuclear Operating Comapny By J L Haning
Owner J L Haning

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Texas and employed by Factory Mutual Insurance Co. of Johnston, RI have inspected the components described in this Owner's Report during the period 1-10-2002 to 12-6-2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

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

Inspector's Signature B R. Russell — Commissions Tex 826
National Board, State, Province, and Endorsements

Date 2-27- 20 03