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

**Subject: Beaver Valley Power Station, Unit No. 1 and No. 2**  
**BV-1 Docket No. 50-334, License No. DPR-66**  
**BV-2 Docket No. 50-412, License No. NPF-73**  
**Year 2001-2002 Steam Generator Examination Reports**

Enclosed is the Beaver Valley Power Station (BVPS) Unit No. 1 report describing the results of the steam generator eddy current examinations that occurred during the Unit No. 1 14th Refueling Outage (1R14 - September 2001). Also enclosed is the BVPS Unit No. 2 report describing the results of the steam generator eddy current examinations that occurred during the Unit No. 2 9th Refueling Outage (2R09 - February 2002). These reports satisfy Technical Specification 4.4.5.5.b in each Unit's respective Technical Specifications which require the submittal of the complete results of the steam generator tube and sleeve inservice inspection within 12 months following the completion of the inspection.

Summaries of the BVPS Unit 1 and Unit 2 steam generator inspections are contained in Enclosure 1 and Enclosure 2, respectively. The Enclosures are supported by Attachments 1 through 6A which include the information listed below as required by Technical Specification 4.4.5.5.b:


- a. Number and extent of tubes and sleeves inspected
- b. Location and percent of wall thickness for each indication of an imperfection
- c. Identification of tubes plugged or repaired

Enclosure 3 lists the definitions of terms used in the data reporting and data analysis process.

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If you have any questions regarding the attached information, please contact Mr. Larry R. Freeland, Manager, Regulatory Affairs/Corrective Action at 724-682-5284.

Sincerely,



L. W. Pearce

c: Mr. D. S. Collins, Project Manager  
Mr. D. M. Kern, Sr. Resident Inspector  
Mr. H. J. Miller, NRC Region I Administrator



*FirstEnergy Nuclear Operating Company*

**BEAVER VALLEY POWER STATION  
UNITS #1 AND #2**

**2001 - 2002**

**STEAM GENERATOR  
EXAMINATION REPORT**

# **ENCLOSURE 1**

## **BEAVER VALLEY POWER STATION UNIT NO. 1**

### **14<sup>TH</sup> REFUELING OUTAGE**



# **ENCLOSURE 1**

## **Beaver Valley Power Station Unit No. 1**

### **14th Refueling Outage**

(Attachments 1 through 3A)

#### **Procedures and Personnel**

The examinations and the analysis performed during the 14th Refueling Outage were in compliance with the Beaver Valley Power Station Unit #1 Technical Specifications, NRC Regulatory Guide 1.83, the EPRI Steam Generator Examination Guidelines, Volume 1 (Rev. 5) and FENOC Procedure ISIE1-7 (Rev. 7), "Unit #1 Steam Generator Examination Guidelines". Personnel evaluating data were Qualified Data Analysts (QDA) in accordance with Appendix "G" of the EPRI Steam Generator Guidelines. All analysts were required to pass a site specific performance demonstration prior to analyzing the eddy current data from the current outage. All data underwent an independent second party review prior to final acceptance.

#### **Eddy Current Examination**

One hundred percent of the in-service tubes in Rows 3 through 46 from Steam Generators 1RC-E-1A, 1RC-E-1B and 1RC-E-1C were examined full length with bobbin coil probes. In-service tubes in Rows 1 and 2 were examined with bobbin coil probes to the upper most tube support plate in each leg. The U-bend regions of the tubes in Rows 1 and 2 were examined with single coil (mid range & high frequency) Plus Point probes. A twenty percent random sample of the Row 3 U-bend region was also examined with single coil (mid range & high frequency) Plus Point probes.

Per the requirements of Technical Specification Amendment No. 198 (Generic Letter 95-05), all distorted tube support plate signals (DSI's) with bobbin coil voltages  $> 2.00$  volts were further evaluated with 3 coil Plus Point probes. Signals  $> 2.00$  volts, that were confirmed (detected) with the Plus Point probes, were repaired by tube plugging. Signals  $\leq 2.00$  volts were randomly sampled with Plus Point probes to confirm the morphology being observed remained Outside Diameter Stress Corrosion Cracking (ODSCC).

The following additional examinations were performed per Amendment No. 198:

All dents with bobbin coil voltages  $\geq 5.00$  volts located at tube support plates were re-examined with RPC. No indications were observed.

One hundred hot leg tube support plate residual signals in each steam generator with amplitudes large enough to mask a 1.00 volt indication were re-examined with Plus Point probes. For cases where the Plus Point probes identified a flaw, the bobbin coil 200 kHz frequency was used to establish a DSI amplitude in the Mix channel.

One hundred percent of the hot leg top-of-tubesheet region was examined in each steam generator with 3-coil Plus Point probes. Circumferential indications located at the top of the hot leg tubesheet were stabilized prior to removing the tube from service.

In addition, a twenty percent random sample of the cold leg top-of-tubesheet region was examined in each steam generator. Indications observed during this examination were repaired by tube plugging.

## **ENCLOSURE 1** (Cont.)

### **Beaver Valley Power Station Unit No. 1 14th Refueling Outage (Attachments 1 through 3A)**

#### **Tube Sleeves**

One hundred percent of the tube sleeves (513 total) installed in 1RC-E-1A (303) and 1RC-E-1B (210) during the previous outage (1R13) were examined to the maximum extent possible with bobbin and plus point probes. No indications were observed. However, four tubesheet sleeves were found to be obstructed and are discussed below.

Four tubes in 1RC-E-1B that were sleeved at 1R13 with full length tubesheet sleeves would not permit the passage of an eddy current probe during the 1R14 steam generator examination. Subsequent remote visual examination revealed that these sleeves had collapsed. These tubes were removed from service by plugging.

The cause for the collapsed sleeves is understood. This degradation mechanism is known as the "flow diode" or the "Obrigheim" effect. Through-wall degradation of the parent tube can permit water to enter the crevice created between the parent tube and the sleeve. The water which enters the crevice while the plant is in a cold condition can become trapped when the plant heats up since the flow path created by the through wall degradation can close during hot conditions. The pressure created by the trapped water at hot conditions is sufficient to collapse the sleeve.

This condition has been evaluated for BV 1. The evaluation has recognized the potential for additional sleeves to collapse due to the flow diode effect and has concluded that the structural integrity of the sleeve weld and mechanical roll will not be jeopardized.

#### **Tube Plug Removal**

The remaining Framatome Inconel 600 rolled plugs (236 total) were removed from 1RC-E-1A (146) and 1RC-E-1B (90). These locations were subsequently re-plugged with Westinghouse mechanical plugs manufactured from Inconel 690 material.

#### **Examination Summary**

The following table summarizes the number of tubes examined, number of tube sleeves examined and the number of tubes removed from service:

|                                   | <b>1RC-E-1A</b> | <b>1RC-E-1B</b> | <b>1RC-E-1C</b> |
|-----------------------------------|-----------------|-----------------|-----------------|
| <b>TUBES EXAMINED (BOBBIN)</b>    | 2796            | 2980            | 3020            |
|                                   |                 |                 |                 |
| <b>TUBE SLEEVES EXAMINED</b>      | 303             | 210             | N/A             |
|                                   |                 |                 |                 |
| <b>TUBES REMOVED FROM SERVICE</b> | 70              | 40              | 60              |

## **ENCLOSURE 1** (Cont.)

### **Beaver Valley Power Station Unit No. 1**

#### **14th Refueling Outage**

(Attachments 1 through 3A)

The results of the Unit 1 steam generator eddy current examinations are provided in the following Attachments:

- Attachment 1 -** Beaver Valley Unit #1 1R14 S/G Examination Results  
1RC-E-1A Tubes with Indications
- Attachment 1A -** Beaver Valley Unit #1 1R14 S/G Examination Results  
1RC-E-1A Tubes Repaired Via Plugging
- Attachment 2 -** Beaver Valley Unit #1 1R14 S/G Examination Results  
1RC-E-1B Tubes with Indications
- Attachment 2A -** Beaver Valley Unit #1 1R14 S/G Examination Results  
1RC-E-1B Tubes Repaired Via Plugging
- Attachment 3 -** Beaver Valley Unit #1 1R14 S/G Examination Results  
1RC-E-1C Tubes with Indications
- Attachment 3A -** Beaver Valley Unit #1 1R14 S/G Examination Results  
1RC-E-1C Tubes Repaired Via Plugging

# **ENCLOSURE 2**

## **BEAVER VALLEY POWER STATION UNIT NO. 2**

### **9<sup>TH</sup> REFUELING OUTAGE**

## **ENCLOSURE 2**

### **Beaver Valley Power Station Unit No. 2**

#### **9th Refueling Outage**

(Attachments 4 through 6A)

#### **Procedures and Personnel**

The examinations and the analysis performed during the 9th refueling outage were in compliance with the Beaver Valley Power Station Unit # 2 Technical Specifications, NRC Regulatory Guide 1.83, the EPRI Steam Generator Examination Guidelines, Volume 1 (Rev. 5) and FENOC Procedure ISIE1-8 (Rev. 7), "Unit #2 Steam Generator Examination Guidelines". Personnel evaluating data were Qualified Data Analysts (QDA) in accordance with Appendix "G" of the EPRI Steam Generator Guidelines. All analysts were required to pass a site specific performance demonstration prior to analyzing the eddy current data from the current outage. All data underwent an independent second party review prior to final acceptance.

#### **Eddy Current Examination**

One hundred percent of the in-service tubes in Rows 3 through 46 from Steam Generators 2RCS-SG21A, 2RCS-SG21B and 2RCS-SG21C were examined full length with bobbin coil probes. In-service tubes in Rows 1 and 2 were examined with bobbin coil probes to the upper most tube support plate in each leg. The U-bend regions of the tubes in Rows 1 and 2 were examined with single coil Plus Point probes.

The following additional Plus Point examinations were performed:

- (a) One hundred percent of the hot leg top-of-tubesheet region in each steam generator,
- (b) One hundred percent of distorted tube support plate indications (DSI's),
- (c) One hundred percent of the dents  $\geq 5.00$  volts, located at hot leg tube support plate intersections,
- (d) Twenty percent of dents & free-span dings  $\geq 2.00$  volts but  $< 5.00$  volts located between the top of the hot leg tubesheet and the third hot leg support plate,
- (e) Twenty percent of hot leg Alloy 690 rolled plugs,
- (f) Twenty percent of bobbin Anti-Vibration Bar (AVB) wear indications,
- (g) High frequency (single coil) Plus Point examination of four Row 1 U-bends with excessive noise levels.

Circumferential indications located at the top of the hot leg tubesheet were stabilized prior to removing the tube from service.

#### **Plug Retainers**

Eighteen Westinghouse Plug-in-Plug (PIP) retainers were visually examined during 2R09. No indications were observed.

## **ENCLOSURE 2** (Cont.)

### **Beaver Valley Power Station Unit No. 2** **9th Refueling Outage** (Attachments 4 through 6A)

#### New Degradation Mechanisms

During the 2R09 examination, three degradation mechanisms were observed that are considered first time occurrences at BVPS Unit #2. The mechanisms are:

Axial Primary Water Stress Corrosion Cracking (PWSCC) at the hot leg top-of-tubesheet in the expansion transition (1 tube)

Axial Primary Water Stress Corrosion Cracking (PWSCC) at dented hot leg tube support plate intersections (2 tubes)

Axial Outside Diameter Stress Corrosion Cracking (ODSCC) at hot leg free-span dings (1 tube)

These tubes were removed from service via plugging prior to returning the steam generators to service.

#### Tube Sleeves

There are no tube sleeves installed at Unit 2.

#### Examination Summary

The following table summarizes the number of tubes examined and number of tubes removed from service:

|                            | <b>2RCS-SG21A</b> | <b>2RCS-SG21B</b> | <b>2RCS-SG21C</b> |
|----------------------------|-------------------|-------------------|-------------------|
| TUBES EXAMINED (BOBBIN)    | 3270              | 3275              | 3279              |
|                            |                   |                   |                   |
| TUBES REMOVED FROM SERVICE | 18                | 12                | 5                 |

## **ENCLOSURE 2** (Cont.)

### **Beaver Valley Power Station Unit No. 2**

#### **9th Refueling Outage**

(Attachments 4 through 6A)

The results of the Unit 2 steam generator eddy current examinations are provided in the following Attachments:

- Attachment 4 -** Beaver Valley Unit #2 2R09 S/G Examination Results  
2RCS-SG21A Tubes with Indications
- Attachment 4A -** Beaver Valley Unit #2 2R09 S/G Examination Results  
2RCS-SG21A Tubes Repaired Via Plugging
- Attachment 5 -** Beaver Valley Unit #2 2R09 S/G Examination Results  
2RCS-SG21B Tubes with Indications
- Attachment 5A -** Beaver Valley Unit #2 2R09 S/G Examination Results  
2RCS-SG21B Tubes Repaired Via Plugging
- Attachment 6 -** Beaver Valley Unit #2 2R09 S/G Examination Results  
2RCS-SG21C Tubes with Indications
- Attachment 6A -** Beaver Valley Unit #2 2R09 S/G Examination Results  
2RCS-SG21C Tubes Repaired Via Plugging

# **ENCLOSURE 3**

## **DEFINITIONS**



## **ENCLOSURE 3**

### **Definition of Report Headings**

| <b>Term</b> | <b>Definition</b>                                     |
|-------------|---|
| Row/Col     | Row & Column of tube location                         |
| Volts       | Voltage amplitude of an indication                    |
| Phase       | Angular rotation of indication                        |
| Ind         | Type of indication (See data analysis acronyms below) |
| %TW         | Percentage through wall of indication                 |
| Chan        | Frequency channel from which indication was recorded  |
| Loc         | Location of nearest support structure                 |
| Inch 1      | Indication distance from nearest support structure    |
| Cr-Length   | Field measured crack length                           |
| Cr-Angle    | Field measured crack angle                            |
| From        | Starting point of examination                         |
| To          | End point of examination                              |

### **Definition of Data Analysis (Indication) Acronyms**

| <b>Term</b> | <b>Definition</b>                                       |
|-------------|---|
| CSI         | Confirmed Tube Support Plate Indication                 |
| DSI         | Distorted Support Plate Signal with Possible Indication |
| FSI         | Free Span Indication                                    |
| MAI         | Multiple Axial Indication                               |
| MBI         | Manufacturer's Burnish Mark with Possible Indication    |
| NQI         | Non-Quantifiable Indication                             |
| PCT         | Percent Through Wall                                    |
| PSI         | Possible Tube Support Plate Indication                  |
| SAI         | Single Axial Indication                                 |
| SCI         | Single Circumferential Indication                       |
| SVI         | Single Volumetric Indication                            |
| VOL         | Volumetric Indication                                   |
| WAR         | Wear  |

### **Definition of Examination Extents (From – To)**

| <b>Term</b> | <b>Definition</b>   |
|-------------|---|
| TSH         | Hot Leg Tubesheet   |
| TSC         | Cold Leg Tubesheet  |
| 01H         | 1 <sup>st</sup> Tube Support Plate on Hot Leg Side                |
| 01C         | 1 <sup>st</sup> Tube Support Plate on Cold Leg Side               |
| AVB1        | 1 <sup>st</sup> Anti-Vibration Bar (Numbered hot leg to cold leg) |
| STH         | Hot Leg Tubesheet Sleeve  |
| 1SH         | 1 <sup>st</sup> Hot Leg Tube Support Plate Sleeve                 |
| 2SH         | 2 <sup>nd</sup> Hot Leg Tube Support Plate Sleeve                 |

# **ATTACHMENT 1**

BEAVER VALLEY UNIT #1  
1R14 S/G EXAMINATION RESULTS

**1RC-E-1A**

TUBES WITH INDICATIONS

BEAVER VALLEY UNIT #1  
1R14 S/G EXAMINATION RESULTS

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**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 1   | 1   | 0.41  | 61    | DSI |     | P1   | 04H | -0.03  |           |          | 07H  | TEH |
| 1   | 5   | 0.69  | 56    | DSI |     | P1   | 01H | -0.09  |           |          | 06H  | TEH |
| 1   | 5   | 0.72  | 54    | DSI |     | P1   | 01H | -0.09  |           |          | 07H  | TEH |
| 1   | 7   | 0.62  | 48    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 1   | 7   | 0.53  | 72    | DSI |     | P1   | 02H | 0.03   |           |          | 07H  | TEH |
| 1   | 16  | 0.48  | 48    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 1   | 18  | 0.54  | 109   | DSI |     | P1   | 01H | -0.09  |           |          | 07H  | TEH |
| 1   | 18  | 1.13  | 56    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 1   | 18  | 1.01  | 116   | DSI |     | P1   | 03H | -0.09  |           |          | 07H  | TEH |
| 1   | 19  | 0.72  | 59    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 1   | 21  | 0.07  | 94    | SAI |     | 3    | TSH | 0.48   | 0.15      |          | TSH  | TSH |
| 1   | 22  | 0.90  | 110   | DSI |     | P1   | 01H | -0.06  |           |          | 06H  | TEH |
| 1   | 22  | 0.54  | 57    | DSI |     | P1   | 02H | 0.03   |           |          | 06H  | TEH |
| 1   | 22  | 0.84  | 114   | DSI |     | P1   | 03H | -0.09  |           |          | 06H  | TEH |
| 1   | 22  | 0.95  | 112   | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 1   | 22  | 0.60  | 136   | DSI |     | P1   | 02H | -0.15  |           |          | 07H  | TEH |
| 1   | 22  | 0.25  | 119   | DSI |     | P1   | 03H | -0.06  |           |          | 07H  | TEH |
| 1   | 22  | 0.09  | 104   | SAI |     | 3    | TSH | 0.31   | 0.15      |          | TSH  | TSH |
| 1   | 23  | 4.21  | 47    | SCI |     | P2   | 07H | 9.53   |           | 68       | 07C  | 07H |
| 1   | 23  | 5.95  | 26    | SCI |     | P2   | 07H | 9.24   |           | 50       | 07C  | 07H |
| 1   | 26  | 1.18  | 88    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 1   | 26  | 0.52  | 89    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 1   | 30  | 1.39  | 71    | DSI |     | P1   | 01H | -0.15  |           |          | 07H  | TEH |
| 1   | 30  | 0.20  | 134   | SAI |     | 3    | 01H | -0.03  | 0.18      |          | 01H  | 01H |
| 1   | 41  | 0.45  | 114   | DSI |     | P1   | 01H | -0.12  |           |          | 06H  | TEH |
| 1   | 41  | 0.64  | 122   | DSI |     | P1   | 01H | -0.12  |           |          | 07H  | TEH |
| 1   | 45  | 1.13  | 108   | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 1   | 45  | 0.36  | 120   | DSI |     | P1   | 03H | 0.18   |           |          | 07H  | TEH |
| 1   | 49  | 0.41  | 60    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 1   | 53  | 0.36  | 74    | DSI |     | P1   | 01H | -0.03  |           |          | 06H  | TEH |
| 1   | 53  | 0.33  | 78    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 1   | 59  | 0.40  | 67    | DSI |     | P1   | 01H | 0.06   |           |          | 06H  | TEH |
| 1   | 59  | 0.51  | 79    | DSI |     | P1   | 02H | -0.12  |           |          | 06H  | TEH |
| 1   | 59  | 0.28  | 54    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 1   | 59  | 0.30  | 78    | DSI |     | P1   | 02H | -0.09  |           |          | 07H  | TEH |
| 1   | 60  | 0.63  | 120   | DSI |     | P1   | 01H | -0.17  |           |          | 07H  | TEH |
| 1   | 60  | 0.55  | 42    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 1   | 61  | 0.70  | 98    | DSI |     | P1   | 01H | -0.06  |           |          | 06H  | TEH |
| 1   | 61  | 0.22  | 63    | DSI |     | P1   | 02H | -0.09  |           |          | 06H  | TEH |
| 1   | 61  | 0.42  | 60    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 1   | 61  | 0.25  | 84    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 1   | 84  | 1.16  | 50    | DSI |     | P1   | 03H | 0.00   |           |          | 06H  | TEH |
| 1   | 84  | 0.98  | 44    | DSI |     | P1   | 03H | 0.00   |           |          | 07H  | TEH |
| 1   | 84  | 0.23  | 293   | MAI |     | 3    | 03H | 0.01   | 0.55      |          | 03H  | 03H |
| 1   | 86  | 0.49  | 72    | WAR |     | 5    | TSC | 21.97  |           |          | 07C  | TEC |
| 2   | 3   | 0.54  | 58    | DSI |     | P1   | 01H | -0.03  |           |          | 06H  | TEH |
| 2   | 3   | 0.34  | 39    | DSI |     | P1   | 02H | 0.00   |           |          | 06H  | TEH |
| 2   | 3   | 0.47  | 53    | DSI |     | P1   | 01H | -0.06  |           |          | 06H  | TEH |
| 2   | 3   | 0.28  | 35    | DSI |     | P1   | 02H | 0.00   |           |          | 06H  | TEH |
| 2   | 3   | 0.46  | 51    | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 2   | 3   | 0.30  | 36    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |

BEAVER VALLEY UNIT #1  
1R14 S/G EXAMINATION RESULTS

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**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 2   | 7   | 1.05  | 125   | DSI |     | P1   | 02H | -0.06  |           |          | 07H  | TEH |
| 2   | 10  | 1.56  | 172   | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 2   | 10  | 1.47  | 126   | DSI |     | P1   | 02H | -0.15  |           |          | 07H  | TEH |
| 2   | 10  | 0.21  | 116   | SAI |     | 3    | 01H | 0.05   | 0.13      |          | 01H  | 01H |
| 2   | 10  | 0.45  | 114   | MAI |     | 3    | 02H | -0.12  | 0.34      |          | 02H  | 02H |
| 2   | 11  | 0.40  | 85    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 2   | 11  | 1.89  | 74    | DSI |     | P1   | 02H | -0.06  |           |          | 07H  | TEH |
| 2   | 11  | 0.22  | 83    | DSI |     | P1   | 06H | 0.03   |           |          | 07H  | TEH |
| 2   | 11  | 0.20  | 110   | MAI |     | 3    | 02H | -0.09  | 0.29      |          | 02H  | 02H |
| 2   | 14  | 0.53  | 48    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 2   | 16  | 0.64  | 54    | DSI |     | P1   | 01H | 0.03   |           |          | 07C  | TEH |
| 2   | 20  | 0.79  | 16    | DSI |     | P1   | 02H | -0.03  |           |          | 06H  | TEH |
| 2   | 20  | 1.02  | 11    | DSI |     | P1   | 02H | 0.03   |           |          | 07H  | TEH |
| 2   | 20  | 1.64  | 12    | SAI |     | 3    | TSH | -1.29  | 0.18      |          | TSH  | TSH |
| 2   | 20  | 0.14  | 129   | SAI |     | 3    | 02H | -0.21  | 0.10      |          | 02H  | 02H |
| 2   | 24  | 1.71  | 81    | DSI |     | P1   | 01H | -0.15  |           |          | 07H  | TEH |
| 2   | 24  | 0.51  | 73    | DSI |     | P1   | 02H | 0.03   |           |          | 07H  | TEH |
| 2   | 24  | 0.27  | 110   | SAI |     | 3    | 01H | 0.18   | 0.23      |          | 01H  | 01H |
| 2   | 27  | 1.13  | 31    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 2   | 27  | 0.21  | 118   | SAI |     | 3    | 01H | 0.01   | 0.23      |          | 01H  | 01H |
| 2   | 28  | 0.53  | 54    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 2   | 28  | 0.87  | 9     | SAI |     | 3    | TSH | -1.70  | 0.18      |          | TSH  | TSH |
| 2   | 30  | 1.12  | 101   | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 2   | 30  | 0.27  | 38    | DSI |     | P1   | 03H | 0.06   |           |          | 07H  | TEH |
| 2   | 33  | 0.40  | 87    | DSI |     | P1   | 03H | 0.09   |           |          | 07H  | TEH |
| 2   | 35  | 0.51  | 136   | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 2   | 36  | 0.54  | 87    | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 2   | 37  | 1.22  | 94    | DSI |     | P1   | 01H | -0.15  |           |          | 07H  | TEH |
| 2   | 38  | 0.73  | 82    | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 2   | 40  | 1.18  | 90    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 2   | 44  | 1.18  | 61    | DSI |     | P1   | 01H | -0.09  |           |          | 07H  | TEH |
| 2   | 44  | 0.18  | 146   | DSI |     | P1   | 03H | 0.12   |           |          | 07H  | TEH |
| 2   | 44  | 0.55  | 144   | DSI |     | P1   | 04H | -0.15  |           |          | 07H  | TEH |
| 2   | 48  | 1.23  | 107   | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 2   | 48  | 1.76  | 113   | DSI |     | P1   | 03H | 0.00   |           |          | 07H  | TEH |
| 2   | 51  | 1.62  | 31    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 2   | 53  | 0.79  | 100   | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 2   | 53  | 0.35  | 65    | DSI |     | P1   | 02H | -0.06  |           |          | 07H  | TEH |
| 2   | 55  | 0.83  | 36    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 2   | 57  | 1.21  | 136   | DSI |     | P1   | 01H | 0.08   |           |          | 07H  | TEH |
| 2   | 57  | 1.21  | 126   | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 2   | 60  | 0.42  | 66    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 2   | 65  | 0.50  | 99    | DSI |     | P1   | 01H | -0.17  |           |          | 07H  | TEH |
| 2   | 65  | 0.30  | 67    | DSI |     | P1   | 02H | -0.06  |           |          | 07H  | TEH |
| 2   | 68  | 0.51  | 47    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 2   | 69  | 0.49  | 88    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 2   | 70  | 0.99  | 74    | DSI |     | P1   | 02H | -0.09  |           |          | 07H  | TEH |
| 2   | 74  | 0.39  | 91    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 2   | 80  | 0.83  | 134   | DSI |     | P1   | 01H | 0.11   |           |          | 07H  | TEH |
| 2   | 80  | 0.75  | 108   | DSI |     | P1   | 02H | 0.12   |           |          | 07H  | TEH |
| 2   | 84  | 0.38  | 87    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |

BEAVER VALLEY UNIT #1  
1R14 S/G EXAMINATION RESULTS

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**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 2   | 84  | 0.31  | 62    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 2   | 85  | 0.64  | 73    | DSI |     | P1   | 03H | -0.03  |           |          | 07H  | TEH |
| 2   | 86  | 0.80  | 107   | DSI |     | P1   | 02H | 0.06   |           |          | 06H  | TEH |
| 2   | 86  | 0.74  | 111   | DSI |     | P1   | 02H | 0.12   |           |          | 07H  | TEH |
| 2   | 87  | 0.60  | 68    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 2   | 92  | 0.61  | 83    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 2   | 93  | 1.36  | 127   | PCT | 24  | P1   | 01C | -0.11  |           |          | 07C  | TEC |
| 2   | 93  | 0.39  | 133   | PCT | 14  | P1   | 02C | -0.06  |           |          | 07C  | TEC |
| 3   | 3   | 0.51  | 100   | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 3   | 3   | 0.79  | 106   | DSI |     | P1   | 02H | 0.09   |           |          | 07H  | TEH |
| 3   | 7   | 0.81  | 85    | DSI |     | P1   | 01H | -0.06  |           |          | 06H  | TEH |
| 3   | 7   | 0.76  | 83    | DSI |     | P1   | 01H | -0.15  |           |          | 07H  | TEH |
| 3   | 9   | 0.42  | 80    | DSI |     | P1   | 01H | -0.12  |           |          | 06H  | TEH |
| 3   | 9   | 0.36  | 61    | DSI |     | P1   | 02H | 0.06   |           |          | 06H  | TEH |
| 3   | 9   | 0.42  | 102   | DSI |     | P1   | 01H | -0.12  |           |          | 07H  | TEH |
| 3   | 9   | 0.36  | 61    | DSI |     | P1   | 02H | 0.06   |           |          | 07H  | TEH |
| 3   | 10  | 1.24  | 122   | DSI |     | P1   | 01H | 0.18   |           |          | 06H  | TEH |
| 3   | 10  | 1.16  | 132   | DSI |     | P1   | 01H | 0.18   |           |          | 07H  | TEH |
| 3   | 11  | 0.64  | 86    | DSI |     | P1   | 01H | 0.03   |           |          | 06H  | TEH |
| 3   | 11  | 1.16  | 103   | DSI |     | P1   | 02H | -0.12  |           |          | 06H  | TEH |
| 3   | 11  | 0.73  | 87    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 3   | 11  | 0.86  | 93    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 3   | 13  | 0.66  | 113   | DSI |     | P1   | 01H | -0.21  |           |          | 06H  | TEH |
| 3   | 13  | 0.57  | 132   | DSI |     | P1   | 01H | -0.21  |           |          | 07H  | TEH |
| 3   | 14  | 0.33  | 99    | DSI |     | P1   | 01H | -0.03  |           |          | 06H  | TEH |
| 3   | 14  | 0.38  | 99    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 3   | 15  | 0.42  | 109   | DSI |     | P1   | 01H | 0.06   |           |          | 07H  | TEH |
| 3   | 15  | 0.96  | 69    | DSI |     | P1   | 03H | 0.00   |           |          | 07H  | TEH |
| 3   | 16  | 0.41  | 94    | DSI |     | P1   | 03H | 0.00   |           |          | 06H  | TEH |
| 3   | 16  | 0.38  | 95    | DSI |     | P1   | 03H | 0.00   |           |          | 07H  | TEH |
| 3   | 19  | 0.85  | 93    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 3   | 20  | 0.84  | 83    | DSI |     | P1   | 03H | -0.18  |           |          | 07H  | TEH |
| 3   | 21  | 2.34  | 96    | DSI |     | P1   | 02H | -0.07  |           |          | 07H  | TEH |
| 3   | 25  | 0.46  | 54    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 3   | 25  | 0.27  | 130   | DSI |     | P1   | 02H | -0.09  |           |          | 07H  | TEH |
| 3   | 26  | 1.84  | 101   | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 3   | 26  | 0.54  | 113   | MAI |     | 3    | 01H | 0.04   | 0.29      |          | 01H  | 01H |
| 3   | 29  | 0.80  | 49    | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 3   | 32  | 0.85  | 94    | DSI |     | P1   | 01H | 0.03   |           |          | 06H  | TEH |
| 3   | 32  | 0.58  | 88    | DSI |     | P1   | 02H | 0.03   |           |          | 06H  | TEH |
| 3   | 32  | 0.65  | 121   | DSI |     | P1   | 03H | 0.12   |           |          | 06H  | TEH |
| 3   | 32  | 0.49  | 90    | DSI |     | P1   | 04H | 0.06   |           |          | 06H  | TEH |
| 3   | 32  | 0.47  | 119   | DSI |     | P1   | 05H | -0.09  |           |          | 06H  | TEH |
| 3   | 32  | 0.74  | 90    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 3   | 32  | 0.67  | 89    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 3   | 32  | 0.91  | 133   | DSI |     | P1   | 03H | 0.12   |           |          | 07H  | TEH |
| 3   | 32  | 0.57  | 95    | DSI |     | P1   | 04H | 0.00   |           |          | 07H  | TEH |
| 3   | 32  | 0.76  | 128   | DSI |     | P1   | 05H | -0.15  |           |          | 07H  | TEH |
| 3   | 33  | 0.37  | 75    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 3   | 35  | 0.33  | 80    | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 3   | 36  | 0.92  | 76    | DSI |     | P1   | 01H | -0.15  |           |          | 07H  | TEH |

**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 3   | 36  | 0.79  | 21    | DSI |     | P1   | 03H | 0.06   |           |          | 07H  | TEH |
| 3   | 36  | 0.22  | 102   | DSI |     | P1   | 06H | 0.00   |           |          | 07H  | TEH |
| 3   | 45  | 0.33  | 102   | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 3   | 47  | 0.62  | 90    | DSI |     | P1   | 01H | 0.09   |           |          | 07H  | TEH |
| 3   | 47  | 0.65  | 66    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 3   | 47  | 0.63  | 129   | DSI |     | P1   | 03H | 0.15   |           |          | 07H  | TEH |
| 3   | 48  | 0.39  | 105   | DSI |     | P1   | 01H | 0.11   |           |          | 07H  | TEH |
| 3   | 48  | 0.33  | 86    | DSI |     | P1   | 03H | 0.09   |           |          | 07H  | TEH |
| 3   | 50  | 0.87  | 58    | DSI |     | P1   | 02H | -0.05  |           |          | 07H  | TEH |
| 3   | 51  | 0.44  | 70    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 3   | 51  | 0.38  | 97    | DSI |     | P1   | 03H | 0.03   |           |          | 07H  | TEH |
| 3   | 51  | 0.47  | 46    | DSI |     | P1   | 06H | -0.06  |           |          | 07H  | TEH |
| 3   | 55  | 1.01  | 122   | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 3   | 55  | 0.89  | 57    | DSI |     | P1   | 02H | -0.09  |           |          | 07H  | TEH |
| 3   | 56  | 2.49  | 122   | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 3   | 56  | 1.34  | 115   | DSI |     | P1   | 04H | -0.08  |           |          | 07H  | TEH |
| 3   | 58  | 0.90  | 90    | DSI |     | P1   | 01H | -0.14  |           |          | 07H  | TEH |
| 3   | 58  | 0.93  | 74    | DSI |     | P1   | 02H | 0.03   |           |          | 07H  | TEH |
| 3   | 58  | 0.51  | 99    | DSI |     | P1   | 04H | -0.14  |           |          | 07H  | TEH |
| 3   | 63  | 0.77  | 77    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 3   | 63  | 0.77  | 132   | DSI |     | P1   | 02H | -0.20  |           |          | 07H  | TEH |
| 3   | 63  | 0.29  | 115   | DSI |     | P1   | 07H | 0.00   |           |          | 07H  | TEH |
| 3   | 64  | 0.48  | 55    | DSI |     | P1   | 02H | -0.06  |           |          | 07H  | TEH |
| 3   | 67  | 0.37  | 73    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 3   | 67  | 0.62  | 112   | DSI |     | P1   | 02H | 0.11   |           |          | 07H  | TEH |
| 3   | 70  | 0.62  | 109   | DSI |     | P1   | 02H | 0.11   |           |          | 07H  | TEH |
| 3   | 73  | 0.29  | 77    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 3   | 77  | 0.60  | 154   | DSI |     | P1   | 02H | 0.11   |           |          | 06H  | TEH |
| 3   | 77  | 0.61  | 154   | DSI |     | P1   | 02H | 0.12   |           |          | 07H  | TEH |
| 3   | 80  | 0.86  | 114   | DSI |     | P1   | 02H | 0.11   |           |          | 07H  | TEH |
| 3   | 85  | 0.64  | 73    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 3   | 85  | 0.39  | 112   | DSI |     | P1   | 02H | 0.09   |           |          | 07H  | TEH |
| 3   | 93  | 0.50  | 139   | PCT | 4   | P1   | 01C | -0.11  |           |          | 07C  | TEC |
| 3   | 94  | 0.44  | 60    | DSI |     | P1   | 02H | -0.09  |           |          | 07H  | TEH |
| 4   | 1   | 0.42  | 97    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 4   | 3   | 0.74  | 123   | DSI |     | P1   | 01H | 0.09   |           |          | 07H  | TEH |
| 4   | 5   | 1.11  | 46    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 4   | 5   | 0.35  | 88    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 4   | 7   | 0.87  | 52    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 4   | 7   | 0.72  | 45    | DSI |     | P1   | 04H | 0.00   |           |          | 07H  | TEH |
| 4   | 7   | 0.14  | 59    | DSI |     | P1   | 05H | 0.00   |           |          | 07H  | TEH |
| 4   | 9   | 0.76  | 50    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 4   | 9   | 0.56  | 77    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 4   | 10  | 0.72  | 91    | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 4   | 10  | 0.92  | 75    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 4   | 11  | 0.53  | 37    | DSI |     | P1   | 02H | 0.06   |           |          | 07H  | TEH |
| 4   | 14  | 0.47  | 108   | DSI |     | P1   | 01H | 0.06   |           |          | 07H  | TEH |
| 4   | 14  | 0.67  | 55    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 4   | 17  | 0.46  | 71    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 4   | 17  | 0.61  | 83    | DSI |     | P1   | 02H | 0.03   |           |          | 07H  | TEH |
| 4   | 18  | 0.42  | 112   | DSI |     | P1   | 05H | 0.00   |           |          | 2SH  | TEC |

BEAVER VALLEY UNIT #1  
1R14 S/G EXAMINATION RESULTS

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**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 4   | 18  | 0.95  | 73    | DSI |     | P1   | 06H | -0.03  |           |          | 2SH  | TEC |
| 4   | 21  | 0.06  | 97    | SAI |     | 3    | TSH | 0.48   | 0.23      |          | TSH  | TSH |
| 4   | 22  | 0.20  | 107   | SAI |     | 3    | TSH | 0.29   | 0.20      |          | TSH  | TSH |
| 4   | 24  | 0.08  | 126   | SAI |     | 3    | TSH | 0.22   | 0.15      |          | TSH  | TSH |
| 4   | 25  | 0.47  | 94    | DSI |     | P1   | 06H | -0.14  |           |          | 2SH  | TEC |
| 4   | 25  | 0.15  | 119   | SAI |     | 3    | TSH | 0.26   | 0.26      |          | TSH  | TSH |
| 4   | 28  | 0.66  | 69    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 4   | 33  | 1.28  | 80    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 4   | 33  | 0.99  | 112   | DSI |     | P1   | 02H | -0.15  |           |          | 07H  | TEH |
| 4   | 33  | 1.16  | 110   | DSI |     | P1   | 03H | -0.15  |           |          | 07H  | TEH |
| 4   | 33  | 0.62  | 105   | MAI |     | 3    | 01H | -0.11  | 0.62      |          | 01H  | 01H |
| 4   | 45  | 0.89  | 70    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 4   | 47  | 0.48  | 47    | DSI |     | P1   | 01H | 0.09   |           |          | 07H  | TEH |
| 4   | 47  | 0.52  | 35    | DSI |     | P1   | 02H | 0.09   |           |          | 07H  | TEH |
| 4   | 50  | 0.42  | 45    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 4   | 50  | 0.32  | 32    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 4   | 51  | 0.78  | 103   | DSI |     | P1   | 01H | 0.06   |           |          | 07H  | TEH |
| 4   | 51  | 0.28  | 29    | SAI |     | 3    | TSH | -0.19  | 0.19      |          | TSH  | TSH |
| 4   | 53  | 1.04  | 67    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 4   | 54  | 0.76  | 68    | DSI |     | P1   | 01H | -0.09  |           |          | 07H  | TEH |
| 4   | 56  | 0.48  | 74    | DSI |     | P1   | 02H | -0.09  |           |          | 07H  | TEH |
| 4   | 57  | 0.44  | 59    | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 4   | 57  | 0.22  | 87    | DSI |     | P1   | 03H | -0.09  |           |          | 07H  | TEH |
| 4   | 59  | 0.39  | 58    | DSI |     | P1   | 01H | 0.06   |           |          | 07H  | TEH |
| 4   | 59  | 0.35  | 101   | DSI |     | P1   | 02H | -0.11  |           |          | 07H  | TEH |
| 4   | 60  | 0.42  | 88    | DSI |     | P1   | 01H | -0.09  |           |          | 07H  | TEH |
| 4   | 60  | 0.75  | 78    | DSI |     | P1   | 02H | -0.09  |           |          | 07H  | TEH |
| 4   | 60  | 0.29  | 54    | DSI |     | P1   | 05H | 0.00   |           |          | 07H  | TEH |
| 4   | 63  | 0.76  | 55    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 4   | 63  | 0.41  | 102   | DSI |     | P1   | 03H | -0.03  |           |          | 07H  | TEH |
| 4   | 64  | 1.10  | 100   | DSI |     | P1   | 05H | 0.00   |           |          | 2SH  | TEC |
| 4   | 65  | 0.55  | 71    | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 4   | 66  | 0.31  | 68    | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 4   | 68  | 0.43  | 108   | DSI |     | P1   | 01H | -0.11  |           |          | 07H  | TEH |
| 4   | 68  | 0.61  | 135   | DSI |     | P1   | 02H | -0.11  |           |          | 07H  | TEH |
| 4   | 70  | 0.42  | 68    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 4   | 70  | 0.57  | 30    | DSI |     | P1   | 04H | -0.06  |           |          | 07H  | TEH |
| 4   | 72  | 0.44  | 63    | DSI |     | P1   | 01H | -0.09  |           |          | 07H  | TEH |
| 4   | 74  | 0.36  | 71    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 4   | 75  | 0.53  | 43    | DSI |     | P1   | 01H | -0.09  |           |          | 07H  | TEH |
| 4   | 77  | 0.24  | 71    | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 4   | 85  | 0.75  | 135   | DSI |     | P1   | 03H | 0.09   |           |          | 07H  | TEH |
| 4   | 86  | 1.60  | 90    | DSI |     | P1   | 02H | 0.14   |           |          | 07H  | TEH |
| 4   | 86  | 0.24  | 119   | MAI |     | 3    | 02H | 0.18   | 0.45      |          | 02H  | 02H |
| 5   | 1   | 1.33  | 100   | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 5   | 1   | 0.44  | 133   | PCT | 11  | P1   | 02C | -0.03  |           |          | TEH  | TEC |
| 5   | 1   | 0.99  | 66    | DSI |     | P1   | 03H | 0.11   |           |          | TEH  | TEC |
| 5   | 1   | 0.56  | 54    | DSI |     | P1   | 04H | 0.11   |           |          | TEH  | TEC |
| 5   | 1   | 0.50  | 113   | MAI |     | 3    | 01H | 0.13   | 0.31      |          | 01H  | 01H |
| 5   | 4   | 0.72  | 29    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 5   | 5   | 0.74  | 52    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |

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**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 5   | 8   | 0.55  | 49    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 5   | 8   | 0.68  | 75    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 5   | 11  | 0.39  | 31    | DSI |     | P1   | 01H | 0.37   |           |          | TEH  | TEC |
| 5   | 11  | 0.71  | 39    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 5   | 13  | 0.57  | 42    | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 5   | 14  | 0.53  | 97    | DSI |     | P1   | 01H | 0.19   |           |          | TEH  | TEC |
| 5   | 14  | 0.49  | 63    | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 5   | 15  | 0.88  | 6     | SAI |     | 3    | TSH | -2.00  | 0.21      |          | TSH  | TSH |
| 5   | 16  | 1.11  | 72    | DSI |     | P1   | 01H | 0.19   |           |          | TEH  | TEC |
| 5   | 18  | 0.12  | 73    | SAI |     | 3    | TSH | 0.20   | 0.46      |          | TSH  | TSH |
| 5   | 19  | 1.56  | 98    | DSI |     | P1   | 01H | -0.05  |           |          | STH  | TEC |
| 5   | 19  | 1.13  | 123   | DSI |     | P1   | 02H | -0.16  |           |          | STH  | TEC |
| 5   | 19  | 0.45  | 61    | DSI |     | P1   | 07C | 0.00   |           |          | STH  | TEC |
| 5   | 20  | 0.17  | 122   | SAI |     | 3    | TSH | 0.38   | 0.30      |          | TSH  | TSH |
| 5   | 20  | 0.26  | 97    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 5   | 20  | 0.45  | 120   | DSI |     | P1   | 03H | 0.30   |           |          | TEH  | TEC |
| 5   | 20  | 0.10  | 132   | SAI |     | 3    | 03H | -0.01  | 0.54      |          | 03H  | 03H |
| 5   | 22  | 0.07  | 114   | SAI |     | 3    | TSH | 0.38   | 0.15      |          | TSH  | TSH |
| 5   | 22  | 0.74  | 56    | DSI |     | P1   | 01H | -0.11  |           |          | TEH  | TEC |
| 5   | 23  | 0.86  | 76    | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 5   | 25  | 0.42  | 59    | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 5   | 25  | 0.55  | 106   | DSI |     | P1   | 02H | -0.11  |           |          | STH  | TEC |
| 5   | 32  | 1.07  | 99    | DSI |     | P1   | 01H | -0.11  |           |          | TEH  | TEC |
| 5   | 34  | 1.08  | 114   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 5   | 40  | 1.23  | 83    | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 5   | 43  | 0.36  | 91    | DSI |     | P1   | 01H | 0.12   |           |          | 07H  | TEH |
| 5   | 43  | 0.74  | 68    | DSI |     | P1   | 02H | 0.03   |           |          | 07H  | TEH |
| 5   | 44  | 0.56  | 86    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 5   | 45  | 0.71  | 86    | DSI |     | P1   | 02H | -0.03  |           |          | 1SH  | TEC |
| 5   | 45  | 0.13  | 131   | SAI |     | 3    | TSH | 0.09   | 0.22      |          | TSH  | TSH |
| 5   | 47  | 0.42  | 79    | DSI |     | P1   | 01H | 0.14   |           |          | 07H  | TEH |
| 5   | 49  | 0.57  | 56    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 5   | 51  | 1.36  | 92    | DSI |     | P1   | 01H | -0.14  |           |          | 07H  | TEH |
| 5   | 55  | 2.01  | 11    | SAI |     | 3    | TSH | -2.35  | 0.19      |          | TSH  | TSH |
| 5   | 58  | 1.28  | 155   | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 5   | 58  | 0.35  | 137   | MAI |     | 3    | 02H | 0.00   | 0.71      |          | 02H  | 02H |
| 5   | 59  | 0.35  | 88    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 5   | 59  | 0.53  | 112   | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 5   | 60  | 0.36  | 105   | DSI |     | P1   | 01H | 0.19   |           |          | TEH  | TEC |
| 5   | 60  | 0.17  | 119   | SAI |     | 3    | 01H | 0.17   | 0.16      |          | 01H  | 01H |
| 5   | 61  | 0.87  | 117   | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 5   | 62  | 0.77  | 88    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 5   | 62  | 1.85  | 73    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 5   | 62  | 0.46  | 116   | MAI |     | 3    | 02H | 0.01   | 0.66      |          | 02H  | 02H |
| 5   | 66  | 0.53  | 90    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 5   | 69  | 0.42  | 72    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 5   | 71  | 0.30  | 61    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 5   | 72  | 0.70  | 59    | DSI |     | P1   | 01H | -0.13  |           |          | TEH  | TEC |
| 5   | 73  | 1.45  | 119   | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 5   | 73  | 0.80  | 101   | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 5   | 73  | 0.61  | 129   | MAI |     | 3    | 01H | -0.01  | 0.73      |          | 01H  | 01H |



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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 5   | 74  | 0.57  | 107   | DSI |     | P1   | 01H | 0.09   |           |          | STH  | TEC |
| 5   | 74  | 1.06  | 117   | DSI |     | P1   | 02H | -0.09  |           |          | STH  | TEC |
| 5   | 76  | 0.56  | 91    | DSI |     | P1   | 01H | 0.03   |           |          | STH  | TEC |
| 5   | 76  | 0.44  | 70    | DSI |     | P1   | 02H | 0.06   |           |          | STH  | TEC |
| 5   | 79  | 1.51  | 78    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 5   | 79  | 0.28  | 118   | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 5   | 79  | 0.27  | 111   | MAI |     | 3    | 01H | 0.00   | 0.58      |          | 01H  | 01H |
| 5   | 80  | 0.93  | 92    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 5   | 82  | 0.34  | 95    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 5   | 86  | 0.47  | 105   | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 5   | 86  | 1.18  | 93    | DSI |     | P1   | 02H | 0.14   |           |          | TEH  | TEC |
| 5   | 87  | 0.44  | 46    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 5   | 90  | 0.59  | 69    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 5   | 91  | 0.68  | 54    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 5   | 91  | 0.68  | 46    | DSI |     | P1   | 04H | 0.00   |           |          | TEH  | TEC |
| 5   | 92  | 0.67  | 88    | DSI |     | P1   | 04H | -0.03  |           |          | TEH  | TEC |
| 5   | 94  | 0.27  | 129   | PCT | 15  | P1   | 01C | -0.11  |           |          | TEH  | TEC |
| 5   | 94  | 0.09  | 120   | VOL |     | 3    | 01C | -0.13  |           |          | 01C  | 01C |
| 6   | 1   | 0.92  | 98    | DSI |     | P1   | 01H | 0.19   |           |          | TEH  | TEC |
| 6   | 1   | 0.84  | 141   | PCT | 0   | P1   | 02C | 0.00   |           |          | TEH  | TEC |
| 6   | 1   | 0.60  | 114   | PCT | 38  | P1   | 03C | 0.19   |           |          | TEH  | TEC |
| 6   | 2   | 0.36  | 63    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 6   | 2   | 0.45  | 73    | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 6   | 5   | 1.14  | 57    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 6   | 5   | 0.84  | 40    | DSI |     | P1   | 02H | -0.06  |           |          | TEH  | TEC |
| 6   | 6   | 0.60  | 54    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 6   | 9   | 0.63  | 89    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 6   | 9   | 0.95  | 124   | DSI |     | P1   | 02H | 0.14   |           |          | TEH  | TEC |
| 6   | 9   | 0.81  | 132   | DSI |     | P1   | 03H | -0.11  |           |          | TEH  | TEC |
| 6   | 11  | 1.78  | 13    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 6   | 12  | 1.83  | 73    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 6   | 12  | 1.71  | 111   | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 6   | 12  | 0.86  | 92    | DSI |     | P1   | 03H | -0.11  |           |          | TEH  | TEC |
| 6   | 12  | 0.86  | 108   | MAI |     | 3    | 01H | -0.03  | 0.44      |          | 01H  | 01H |
| 6   | 12  | 0.42  | 110   | MAI |     | 3    | 02H | 0.05   | 0.31      |          | 02H  | 02H |
| 6   | 15  | 1.07  | 73    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 6   | 15  | 1.45  | 103   | DSI |     | P1   | 02H | -0.17  |           |          | TEH  | TEC |
| 6   | 15  | 0.55  | 106   | SAI |     | 3    | 02H | -0.07  | 0.37      |          | 02H  | 02H |
| 6   | 17  | 0.56  | 55    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 6   | 18  | 0.14  | 121   | SAI |     | 3    | TSH | 0.17   | 0.13      |          | TSH  | TSH |
| 6   | 18  | 1.84  | 105   | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 6   | 18  | 0.60  | 119   | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 6   | 18  | 1.03  | 110   | DSI |     | P1   | 03H | -0.08  |           |          | TEH  | TEC |
| 6   | 18  | 0.40  | 121   | MAI |     | 3    | 01H | -0.22  | 0.26      |          | 01H  | 01H |
| 6   | 19  | 1.27  | 29    | NQI |     | 3    | TSH | 0.27   |           |          | TSH  | TSH |
| 6   | 20  | 0.41  | 90    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 6   | 22  | 0.92  | 42    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 6   | 22  | 0.75  | 97    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 6   | 23  | 0.57  | 62    | DSI |     | P1   | 01H | 0.20   |           |          | TEH  | TEC |
| 6   | 23  | 0.83  | 110   | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 6   | 24  | 0.64  | 59    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |

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**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 6   | 29  | 1.04  | 83    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 6   | 35  | 1.24  | 107   | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 6   | 44  | 0.68  | 95    | DSI |     | P1   | 01H | 0.09   |           |          | 07H  | TEH |
| 6   | 44  | 0.86  | 56    | DSI |     | P1   | 02H | 0.03   |           |          | 07H  | TEH |
| 6   | 50  | 0.95  | 115   | DSI |     | P1   | 01H | -0.09  |           |          | 07H  | TEH |
| 6   | 50  | 0.36  | 81    | DSI |     | P1   | 02H | -0.06  |           |          | 07H  | TEH |
| 6   | 54  | 0.68  | 111   | DSI |     | P1   | 01H | -0.14  |           |          | 07H  | TEH |
| 6   | 54  | 0.46  | 129   | DSI |     | P1   | 02H | -0.14  |           |          | 07H  | TEH |
| 6   | 57  | 1.20  | 23    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 6   | 57  | 0.19  | 124   | MAI |     | 3    | 01H | 0.00   | 0.34      |          | 01H  | 01H |
| 6   | 58  | 0.21  | 73    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 6   | 58  | 0.56  | 107   | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 6   | 58  | 0.17  | 122   | MAI |     | 3    | 02H | -0.07  | 0.45      |          | 02H  | 02H |
| 6   | 59  | 0.39  | 96    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 6   | 59  | 0.79  | 63    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 6   | 65  | 0.58  | 101   | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 6   | 65  | 0.54  | 124   | DSI |     | P1   | 02H | 0.25   |           |          | TEH  | TEC |
| 6   | 65  | 0.19  | 123   | MAI |     | 3    | 02H | -0.06  | 0.18      |          | 02H  | 02H |
| 6   | 69  | 0.79  | 59    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 6   | 69  | 0.43  | 82    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 6   | 70  | 1.74  | 147   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 6   | 70  | 1.82  | 130   | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 6   | 70  | 0.87  | 113   | MAI |     | 3    | 01H | -0.11  |           |          | 01H  | 01H |
| 6   | 70  | 0.46  | 124   | SAI |     | 3    | 02H | 0.03   | 0.73      |          | 02H  | 02H |
| 6   | 71  | 0.92  | 51    | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 6   | 76  | 1.08  | 79    | DSI |     | P1   | 02H | 0.00   |           |          | STH  | TEC |
| 6   | 77  | 0.14  | 91    | SAI |     | 3    | TSH | 0.07   | 0.10      |          | TSH  | TSH |
| 6   | 92  | 0.37  | 70    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 6   | 94  | 0.65  | 146   | DSI |     | P1   | 01H | 0.20   |           |          | TEH  | TEC |
| 7   | 1   | 0.55  | 130   | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 7   | 2   | 0.50  | 94    | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 7   | 2   | 0.57  | 43    | DSI |     | P1   | 04H | 0.09   |           |          | TEH  | TEC |
| 7   | 3   | 0.86  | 44    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 7   | 3   | 0.59  | 33    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 7   | 4   | 0.89  | 51    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 7   | 4   | 0.77  | 107   | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 7   | 5   | 0.46  | 119   | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 7   | 5   | 0.76  | 107   | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 7   | 7   | 0.33  | 82    | DSI |     | P1   | 02H | -0.09  |           |          | TEH  | TEC |
| 7   | 7   | 0.30  | 113   | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 7   | 10  | 0.71  | 51    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 7   | 10  | 1.20  | 86    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 7   | 10  | 1.20  | 87    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 7   | 11  | 1.22  | 65    | DSI |     | P1   | 01H | 0.00   |           |          | TSH  | TEC |
| 7   | 11  | 0.43  | 46    | DSI |     | P1   | 07H | 0.35   |           |          | TSH  | TEC |
| 7   | 11  | 1.15  | 70    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 7   | 11  | 0.41  | 74    | DSI |     | P1   | 07H | 0.06   |           |          | TEH  | TEC |
| 7   | 16  | 1.02  | 57    | DSI |     | P1   | 01H | 0.16   |           |          | TEH  | TEC |
| 7   | 16  | 0.69  | 68    | DSI |     | P1   | 02H | -0.11  |           |          | TEH  | TEC |
| 7   | 18  | 1.38  | 71    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 7   | 18  | 1.80  | 51    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |

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**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 7   | 18  | 0.45  | 118   | MAI |     | 3    | 01H | -0.10  | 0.31      |          | 01H  | 01H |
| 7   | 18  | 0.79  | 113   | MAI |     | 3    | 02H | -0.06  | 0.39      |          | 02H  | 02H |
| 7   | 22  | 0.89  | 63    | DSI |     | P1   | 02H | 0.06   |           |          | STH  | TEC |
| 7   | 23  | 0.51  | 103   | DSI |     | P1   | 01H | 0.31   |           |          | TSH  | TEC |
| 7   | 23  | 0.50  | 107   | DSI |     | P1   | 01H | 0.19   |           |          | TEH  | TEC |
| 7   | 24  | 0.89  | 102   | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 7   | 27  | 0.75  | 53    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 7   | 27  | 0.22  | 143   | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 7   | 28  | 0.89  | 75    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 7   | 33  | 1.09  | 77    | DSI |     | P1   | 01H | -0.03  |           |          | STH  | TEC |
| 7   | 33  | 0.81  | 70    | DSI |     | P1   | 02H | 0.09   |           |          | STH  | TEC |
| 7   | 36  | 0.63  | 146   | DSI |     | P1   | 03H | 0.08   |           |          | STH  | TEC |
| 7   | 41  | 0.37  | 75    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 7   | 53  | 0.43  | 87    | DSI |     | P1   | 01H | -0.12  |           |          | 07H  | TEH |
| 7   | 53  | 0.40  | 64    | DSI |     | P1   | 02H | 0.03   |           |          | 07H  | TEH |
| 7   | 54  | 1.36  | 124   | DSI |     | P1   | 01H | -0.17  |           |          | 07H  | TEH |
| 7   | 54  | 0.58  | 103   | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 7   | 54  | 0.22  | 86    | DSI |     | P1   | 03H | -0.06  |           |          | 07H  | TEH |
| 7   | 58  | 0.35  | 129   | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 7   | 59  | 1.98  | 12    | SAI |     | 3    | TSH | -1.86  | 0.20      |          | TSH  | TSH |
| 7   | 60  | 0.79  | 106   | DSI |     | P1   | 03H | -0.06  |           |          | 1SH  | TEC |
| 7   | 65  | 0.67  | 95    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 7   | 65  | 0.33  | 63    | DSI |     | P1   | 03H | 0.08   |           |          | TEH  | TEC |
| 7   | 67  | 0.71  | 106   | DSI |     | P1   | 01H | 0.25   |           |          | TEH  | TEC |
| 7   | 67  | 0.21  | 137   | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 7   | 67  | 0.31  | 167   | DSI |     | P1   | 03H | -0.06  |           |          | TEH  | TEC |
| 7   | 67  | 0.21  | 127   | SAI |     | 3    | 03H | -0.27  | 0.21      |          | 03H  | 03H |
| 7   | 68  | 0.85  | 94    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 7   | 68  | 0.84  | 94    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 7   | 69  | 0.93  | 102   | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 7   | 69  | 0.70  | 155   | DSI |     | P1   | 03H | -0.06  |           |          | TEH  | TEC |
| 7   | 69  | 0.24  | 115   | SAI |     | 3    | TSH | 0.06   | 0.17      |          | TSH  | TSH |
| 7   | 71  | 0.71  | 113   | DSI |     | P1   | 04H | -0.11  |           |          | TEH  | TEC |
| 7   | 71  | 0.48  | 43    | DSI |     | P1   | 05H | 0.09   |           |          | TEH  | TEC |
| 7   | 73  | 0.83  | 50    | DSI |     | P1   | 01H | 0.17   |           |          | TEH  | TEC |
| 7   | 74  | 0.40  | 51    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 7   | 76  | 0.84  | 50    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 7   | 77  | 0.72  | 83    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 7   | 80  | 1.74  | 87    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 7   | 80  | 0.62  | 138   | DSI |     | P1   | 02H | -0.11  |           |          | TEH  | TEC |
| 7   | 80  | 0.50  | 111   | MAI |     | 3    | 01H | -0.01  | 0.71      |          | 01H  | 01H |
| 7   | 81  | 0.52  | 141   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 7   | 82  | 0.96  | 73    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 7   | 84  | 0.59  | 70    | DSI |     | P1   | 02H | 0.16   |           |          | TEH  | TEC |
| 7   | 86  | 0.64  | 59    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 7   | 87  | 0.73  | 44    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 7   | 88  | 0.71  | 45    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 7   | 90  | 0.67  | 76    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 7   | 94  | 0.82  | 142   | PCT | 0   | P1   | 01C | -0.28  |           |          | TEH  | TEC |
| 8   | 4   | 0.68  | 111   | DSI |     | P1   | 01H | 0.22   |           |          | TEH  | TEC |
| 8   | 4   | 0.89  | 53    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |

**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 8   | 4   | 0.56  | 131   | DSI |     | P1   | 04H | 0.06   |           |          | TEH  | TEC |
| 8   | 4   | 0.31  | 155   | DSI |     | P1   | 05H | 0.08   |           |          | TEH  | TEC |
| 8   | 5   | 0.57  | 59    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 8   | 5   | 0.66  | 90    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 8   | 5   | 1.03  | 98    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 8   | 5   | 0.63  | 57    | DSI |     | P1   | 04H | 0.00   |           |          | TEH  | TEC |
| 8   | 5   | 0.63  | 81    | DSI |     | P1   | 05H | 0.00   |           |          | TEH  | TEC |
| 8   | 6   | 0.89  | 49    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 8   | 6   | 1.13  | 63    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 8   | 6   | 0.40  | 65    | DSI |     | P1   | 04H | 0.06   |           |          | TEH  | TEC |
| 8   | 10  | 0.61  | 75    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 8   | 11  | 0.68  | 57    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 8   | 11  | 0.82  | 56    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 8   | 11  | 0.97  | 41    | DSI |     | P1   | 03H | -0.06  |           |          | TEH  | TEC |
| 8   | 11  | 0.54  | 41    | DSI |     | P1   | 03H | -0.03  |           |          | TEH  | TEC |
| 8   | 13  | 0.46  | 52    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 8   | 13  | 1.25  | 22    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 8   | 13  | 0.23  | 114   | SAI |     | 3    | 02H | -0.10  | 0.13      |          | 02H  | 02H |
| 8   | 14  | 0.40  | 140   | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 8   | 15  | 0.62  | 48    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 8   | 15  | 0.99  | 11    | DSI |     | P1   | 03H | 0.09   |           |          | TEH  | TEC |
| 8   | 15  | 0.08  | 121   | SAI |     | 3    | 03H | -0.03  | 0.51      |          | 03H  | 03H |
| 8   | 16  | 0.58  | 80    | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 8   | 22  | 0.49  | 102   | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 8   | 25  | 0.76  | 90    | DSI |     | P1   | 04H | -0.09  |           |          | TEH  | TEC |
| 8   | 26  | 0.82  | 76    | DSI |     | P1   | 04H | -0.08  |           |          | 2SH  | TEC |
| 8   | 28  | 0.41  | 56    | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 8   | 48  | 0.34  | 82    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 8   | 51  | 0.50  | 119   | DSI |     | P1   | 01H | 0.06   |           |          | 07H  | TEH |
| 8   | 51  | 0.80  | 55    | DSI |     | P1   | 02H | -0.06  |           |          | 07H  | TEH |
| 8   | 51  | 0.14  | 76    | SAI |     | 3    | TSH | -0.39  | 0.12      |          | TSH  | TSH |
| 8   | 52  | 1.12  | 142   | DSI |     | P1   | 01H | -0.20  |           |          | 07H  | TEH |
| 8   | 52  | 0.84  | 102   | DSI |     | P1   | 02H | -0.17  |           |          | 07H  | TEH |
| 8   | 53  | 0.41  | 93    | DSI |     | P1   | 01H | -0.12  |           |          | 07H  | TEH |
| 8   | 54  | 1.36  | 113   | DSI |     | P1   | 01H | -0.09  |           |          | 07H  | TEH |
| 8   | 54  | 0.89  | 135   | DSI |     | P1   | 02H | -0.11  |           |          | 07H  | TEH |
| 8   | 54  | 0.14  | 126   | SAI |     | 3    | TSH | 0.04   | 0.16      |          | TSH  | TSH |
| 8   | 54  | 0.19  | 120   | MAI |     | 3    | 01H | -0.14  | 0.17      |          | 01H  | 01H |
| 8   | 55  | 1.02  | 124   | DSI |     | P1   | 01H | -0.17  |           |          | 07H  | TEH |
| 8   | 55  | 0.58  | 93    | DSI |     | P1   | 02H | -0.14  |           |          | 07H  | TEH |
| 8   | 59  | 0.22  | 47    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 8   | 60  | 0.92  | 43    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 8   | 65  | 1.13  | 39    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 8   | 65  | 0.22  | 103   | MAI |     | 3    | 02H | 0.05   | 0.54      |          | 02H  | 02H |
| 8   | 66  | 0.27  | 134   | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 8   | 68  | 1.03  | 120   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 8   | 68  | 0.55  | 103   | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 8   | 72  | 0.59  | 84    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 8   | 72  | 0.61  | 70    | DSI |     | P1   | 05H | 0.11   |           |          | TEH  | TEC |
| 8   | 75  | 0.85  | 135   | DSI |     | P1   | 01H | -0.14  |           |          | TEH  | TEC |
| 8   | 75  | 0.73  | 60    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |

**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 8   | 76  | 1.85  | 87    | DSI |     | P1   | 01H | 0.17   |           |          | TEH  | TEC |
| 8   | 76  | 0.35  | 106   | MAI |     | 3    | 01H | 0.03   | 0.68      |          | 01H  | 01H |
| 8   | 77  | 0.82  | 136   | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 8   | 80  | 1.29  | 72    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 8   | 80  | 0.26  | 126   | MAI |     | 3    | 01H | 0.00   | 0.73      |          | 01H  | 01H |
| 8   | 84  | 0.63  | 82    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 8   | 90  | 0.41  | 88    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 8   | 90  | 0.29  | 93    | DSI |     | P1   | 03H | -0.11  |           |          | TEH  | TEC |
| 8   | 93  | 0.33  | 104   | DSI |     | P1   | 01H | 0.31   |           |          | TEH  | TEC |
| 9   | 2   | 5.04  | 0     | PCT | 33  | 2    | 02C | 0.00   |           |          | 02C  | 02C |
| 9   | 2   | 0.46  | 76    | VOL |     | 3    | 02C | 0.00   |           |          | 02C  | 02C |
| 9   | 2   | 0.42  | 0     | PCT | 26  | 3    | 02C | -0.03  |           |          | 02C  | 02C |
| 9   | 2   | 0.44  | 67    | VOL |     | 3    | 02C | -0.03  |           |          | 02C  | 02C |
| 9   | 4   | 0.77  | 44    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 9   | 7   | 0.50  | 66    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 9   | 7   | 0.85  | 58    | DSI |     | P1   | 02H | -0.11  |           |          | TEH  | TEC |
| 9   | 8   | 0.88  | 106   | DSI |     | P1   | 02H | 0.17   |           |          | TEH  | TEC |
| 9   | 10  | 0.77  | 44    | DSI |     | P1   | 03H | -0.03  |           |          | TEH  | TEC |
| 9   | 11  | 0.30  | 99    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 9   | 11  | 0.38  | 108   | DSI |     | P1   | 03H | 0.08   |           |          | TEH  | TEC |
| 9   | 14  | 0.65  | 49    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 9   | 14  | 0.44  | 36    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 9   | 15  | 1.33  | 53    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 9   | 15  | 0.44  | 103   | SAI |     | 3    | 01H | 0.11   | 0.32      |          | 01H  | 01H |
| 9   | 16  | 1.95  | 97    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 9   | 16  | 0.98  | 126   | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 9   | 16  | 0.62  | 109   | SAI |     | 3    | 01H | 0.12   | 0.37      |          | 01H  | 01H |
| 9   | 17  | 0.90  | 75    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 9   | 18  | 0.40  | 73    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 9   | 18  | 0.62  | 31    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 9   | 18  | 0.17  | 110   | SAI |     | 3    | 02H | 0.22   | 0.29      |          | 02H  | 02H |
| 9   | 21  | 0.93  | 76    | DSI |     | P1   | 01H | -0.23  |           |          | TEH  | TEC |
| 9   | 21  | 0.89  | 91    | DSI |     | P1   | 03H | 0.23   |           |          | TEH  | TEC |
| 9   | 23  | 0.20  | 97    | SAI |     | 3    | TSH | 0.11   | 0.18      |          | TSH  | TSH |
| 9   | 23  | 0.86  | 78    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 9   | 23  | 0.76  | 90    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 9   | 32  | 0.56  | 58    | DSI |     | P1   | 02H | 0.11   |           |          | 1SH  | TEC |
| 9   | 33  | 1.21  | 101   | DSI |     | P1   | 01H | -0.06  |           |          | STH  | TEC |
| 9   | 38  | 0.88  | 96    | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 9   | 44  | 0.50  | 147   | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 9   | 46  | 0.52  | 130   | DSI |     | P1   | 01H | 0.03   |           |          | STH  | TEC |
| 9   | 48  | 0.43  | 83    | DSI |     | P1   | 01H | 0.09   |           |          | 07H  | TEH |
| 9   | 48  | 0.11  | 136   | SAI |     | 3    | TSH | 0.62   | 0.20      |          | TSH  | TSH |
| 9   | 49  | 0.42  | 107   | DSI |     | P1   | 01H | 0.14   |           |          | 07H  | TEH |
| 9   | 51  | 0.47  | 95    | DSI |     | P1   | 01H | -0.11  |           |          | 07H  | TEH |
| 9   | 54  | 0.24  | 69    | DSI |     | P1   | 02H | 0.06   |           |          | 07H  | TEH |
| 9   | 55  | 0.72  | 87    | DSI |     | P1   | 01H | -0.17  |           |          | 07H  | TEH |
| 9   | 56  | 0.46  | 61    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 9   | 57  | 0.61  | 111   | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 9   | 57  | 0.73  | 73    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 9   | 62  | 0.94  | 55    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |

**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 9   | 65  | 0.77  | 58    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 9   | 68  | 0.54  | 119   | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 9   | 68  | 0.58  | 105   | DSI |     | P1   | 02H | 0.14   |           |          | TEH  | TEC |
| 9   | 69  | 0.52  | 100   | DSI |     | P1   | 01H | 0.17   |           |          | TSH  | TEC |
| 9   | 69  | 0.52  | 89    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 9   | 73  | 0.35  | 100   | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 9   | 75  | 0.84  | 41    | DSI |     | P1   | 01H | 0.16   |           |          | TEH  | TEC |
| 9   | 75  | 0.64  | 41    | DSI |     | P1   | 04H | -0.08  |           |          | TEH  | TEC |
| 9   | 76  | 0.25  | 42    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 9   | 76  | 0.53  | 75    | DSI |     | P1   | 03H | -0.11  |           |          | TEH  | TEC |
| 9   | 78  | 0.39  | 104   | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 9   | 82  | 0.82  | 139   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 9   | 83  | 0.65  | 83    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 9   | 84  | 0.90  | 112   | DSI |     | P1   | 03H | -0.05  |           |          | TEH  | TEC |
| 9   | 85  | 0.67  | 91    | DSI |     | P1   | 04H | 0.06   |           |          | TEH  | TEC |
| 9   | 86  | 0.55  | 123   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 9   | 86  | 0.97  | 85    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 9   | 86  | 1.92  | 121   | DSI |     | P1   | 04H | -0.05  |           |          | TEH  | TEC |
| 9   | 86  | 0.42  | 152   | DSI |     | P1   | 05H | -0.14  |           |          | TEH  | TEC |
| 9   | 86  | 0.53  | 86    | DSI |     | P1   | 07C | 0.09   |           |          | TEH  | TEC |
| 9   | 86  | 0.44  | 114   | MAI |     | 3    | 04H | 0.00   | 0.73      |          | 04H  | 04H |
| 9   | 88  | 1.32  | 82    | DSI |     | P1   | 02H | 0.16   |           |          | TEH  | TEC |
| 9   | 88  | 0.66  | 85    | DSI |     | P1   | 05H | -0.05  |           |          | TEH  | TEC |
| 9   | 88  | 0.30  | 104   | MAI |     | 3    | 02H | 0.14   | 0.55      |          | 02H  | 02H |
| 9   | 90  | 0.51  | 85    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 9   | 92  | 0.75  | 127   | DSI |     | P1   | 02H | 0.27   |           |          | TEH  | TEC |
| 10  | 3   | 1.11  | 91    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 10  | 3   | 0.48  | 141   | PCT | 0   | P1   | 02C | -0.03  |           |          | TEH  | TEC |
| 10  | 4   | 0.90  | 71    | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 10  | 4   | 0.91  | 41    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 10  | 6   | 0.35  | 93    | DSI |     | P1   | 04H | 0.00   |           |          | TEH  | TEC |
| 10  | 6   | 0.34  | 75    | DSI |     | P1   | 05H | 0.12   |           |          | TEH  | TEC |
| 10  | 7   | 1.19  | 95    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 10  | 7   | 1.08  | 88    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 10  | 7   | 0.56  | 75    | DSI |     | P1   | 04H | 0.09   |           |          | TEH  | TEC |
| 10  | 8   | 0.55  | 67    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 10  | 8   | 0.34  | 69    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 10  | 9   | 0.52  | 92    | DSI |     | P1   | 01H | 0.09   |           |          | TEH  | TEC |
| 10  | 10  | 1.05  | 63    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 10  | 10  | 0.53  | 77    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 10  | 11  | 1.14  | 89    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 10  | 11  | 0.98  | 70    | DSI |     | P1   | 02H | -0.11  |           |          | TEH  | TEC |
| 10  | 12  | 0.44  | 29    | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 10  | 13  | 0.61  | 39    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 10  | 15  | 0.98  | 56    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 10  | 15  | 0.84  | 113   | DSI |     | P1   | 02H | -0.14  |           |          | TEH  | TEC |
| 10  | 16  | 1.10  | 80    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 10  | 16  | 1.31  | 38    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 10  | 16  | 1.21  | 64    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 10  | 17  | 1.58  | 94    | DSI |     | P1   | 02H | -0.06  |           |          | 1SH  | TEC |
| 10  | 17  | 0.79  | 130   | DSI |     | P1   | 04H | 0.00   |           |          | 1SH  | TEC |

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**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 10  | 17  | 0.47  | 108   | DSI |     | P1   | 06H | 0.00   |           |          | 1SH  | TEC |
| 10  | 18  | 1.96  | 71    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 10  | 18  | 0.75  | 53    | DSI |     | P1   | 02H | -0.11  |           |          | TEH  | TEC |
| 10  | 18  | 0.32  | 120   | SAI |     | 3    | 01H | 0.13   | 0.29      |          | 01H  | 01H |
| 10  | 19  | 0.58  | 23    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 10  | 20  | 0.63  | 144   | DSI |     | P1   | 01H | -0.19  |           |          | TEH  | TEC |
| 10  | 21  | 0.58  | 90    | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 10  | 21  | 0.73  | 50    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 10  | 22  | 0.45  | 74    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 10  | 23  | 1.55  | 82    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 10  | 23  | 0.35  | 120   | SAI |     | 3    | 01H | -0.06  | 0.21      |          | 01H  | 01H |
| 10  | 24  | 0.12  | 125   | SAI |     | 3    | TSH | 0.33   | 0.18      |          | TSH  | TSH |
| 10  | 38  | 0.70  | 99    | DSI |     | P1   | 01H | 0.03   |           |          | STH  | TEC |
| 10  | 40  | 1.75  | 103   | DSI |     | P1   | 01H | -0.03  |           |          | STH  | TEC |
| 10  | 40  | 0.50  | 93    | DSI |     | P1   | 07C | -0.03  |           |          | STH  | TEC |
| 10  | 41  | 0.37  | 76    | DSI |     | P1   | 04H | 0.06   |           |          | 2SH  | TEC |
| 10  | 45  | 1.02  | 111   | DSI |     | P1   | 01H | -0.14  |           |          | STH  | TEC |
| 10  | 47  | 0.90  | 108   | DSI |     | P1   | 01H | -0.11  |           |          | STH  | TEC |
| 10  | 50  | 0.15  | 102   | SAI |     | 3    | TSH | 0.55   | 0.27      |          | TSH  | TSH |
| 10  | 52  | 1.50  | 99    | DSI |     | P1   | 02H | -0.08  |           |          | 1SH  | TEC |
| 10  | 53  | 0.69  | 107   | DSI |     | P1   | 01H | -0.20  |           |          | 07H  | TEH |
| 10  | 53  | 0.99  | 101   | DSI |     | P1   | 02H | -0.06  |           |          | 07H  | TEH |
| 10  | 53  | 0.51  | 30    | SAI |     | 3    | TSH | -0.35  | 0.19      |          | TSH  | TSH |
| 10  | 54  | 0.56  | 93    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 10  | 54  | 0.99  | 76    | DSI |     | P1   | 02H | -0.17  |           |          | 07H  | TEH |
| 10  | 54  | 0.16  | 88    | SAI |     | 3    | TSH | 0.09   | 0.16      |          | TSH  | TSH |
| 10  | 55  | 0.66  | 98    | DSI |     | P1   | 01H | -0.23  |           |          | 07H  | TEH |
| 10  | 55  | 0.63  | 70    | DSI |     | P1   | 02H | -0.11  |           |          | 07H  | TEH |
| 10  | 57  | 1.59  | 62    | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 10  | 57  | 0.20  | 96    | MAI |     | 3    | 01H | 0.01   | 0.63      |          | 01H  | 01H |
| 10  | 63  | 0.91  | 76    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 10  | 66  | 1.22  | 10    | DSI |     | P1   | 01H | -0.12  |           |          | TEH  | TEC |
| 10  | 66  | 0.98  | 113   | DSI |     | P1   | 02H | -0.12  |           |          | TEH  | TEC |
| 10  | 66  | 1.71  | 38    | MAI |     | 3    | 01H | -0.04  | 0.73      |          | 01H  | 01H |
| 10  | 68  | 0.83  | 34    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 10  | 68  | 0.53  | 35    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 10  | 69  | 0.57  | 138   | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 10  | 69  | 0.44  | 97    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 10  | 72  | 0.65  | 40    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 10  | 72  | 0.33  | 50    | DSI |     | P1   | 05H | 0.03   |           |          | TEH  | TEC |
| 10  | 73  | 0.98  | 44    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 10  | 73  | 0.21  | 135   | MAI |     | 3    | 01H | 0.00   | 0.63      |          | 01H  | 01H |
| 10  | 74  | 0.28  | 51    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 10  | 75  | 0.38  | 47    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 10  | 76  | 1.00  | 44    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 10  | 76  | 0.15  | 128   | MAI |     | 3    | 01H | -0.06  | 0.26      |          | 01H  | 01H |
| 10  | 80  | 0.49  | 68    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 10  | 81  | 0.35  | 74    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 10  | 90  | 0.73  | 43    | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 10  | 92  | 0.47  | 141   | PCT | 0   | P1   | 01C | -0.11  |           |          | TEH  | TEC |
| 11  | 4   | 0.46  | 56    | VOL |     | 3    | 01C | -0.14  |           |          | 01C  | 01C |

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 11  | 4   | 2.99  | 0     | PCT | 25  | 2    | 01C | 0.00   |           |          | 01C  | 01C |
| 11  | 4   | 0.66  | 82    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 11  | 4   | 0.57  | 72    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 11  | 4   | 0.42  | 53    | VOL |     | 3    | 01C | 0.15   |           |          | 01C  | 01C |
| 11  | 4   | 0.36  | 0     | PCT | 22  | 3    | 01C | 0.15   |           |          | 01C  | 01C |
| 11  | 6   | 0.43  | 150   | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 11  | 8   | 0.34  | 120   | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 11  | 10  | 0.41  | 82    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 11  | 11  | 0.61  | 40    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 11  | 13  | 0.92  | 40    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 11  | 14  | 0.73  | 121   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 11  | 16  | 0.74  | 109   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 11  | 16  | 0.52  | 54    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 11  | 18  | 0.56  | 49    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 11  | 21  | 1.13  | 95    | DSI |     | P1   | 01H | -0.17  |           |          | TEH  | TEC |
| 11  | 21  | 0.89  | 45    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 11  | 23  | 0.63  | 87    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 11  | 24  | 0.67  | 37    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 11  | 26  | 0.91  | 158   | DSI |     | P1   | 02H | 0.23   |           |          | 1SH  | TEC |
| 11  | 26  | 0.38  | 87    | DSI |     | P1   | 05H | 0.03   |           |          | 1SH  | TEC |
| 11  | 28  | 0.53  | 50    | DSI |     | P1   | 02H | 0.00   |           |          | 1SH  | TEC |
| 11  | 33  | 0.37  | 93    | DSI |     | P1   | 02H | 0.14   |           |          | 1SH  | TEC |
| 11  | 39  | 0.65  | 91    | DSI |     | P1   | 01H | -0.03  |           |          | STH  | TEC |
| 11  | 40  | 0.47  | 82    | DSI |     | P1   | 01H | 0.08   |           |          | STH  | TEC |
| 11  | 42  | 0.68  | 111   | DSI |     | P1   | 02H | -0.08  |           |          | 1SH  | TEC |
| 11  | 44  | 0.74  | 109   | DSI |     | P1   | 01H | -0.08  |           |          | STH  | TEC |
| 11  | 44  | 0.41  | 106   | DSI |     | P1   | 02H | -0.03  |           |          | STH  | TEC |
| 11  | 47  | 1.01  | 105   | DSI |     | P1   | 01H | -0.05  |           |          | STH  | TEC |
| 11  | 51  | 0.03  | 132   | SAI |     | 3    | TSH | 0.82   | 0.18      |          | TSH  | TSH |
| 11  | 53  | 0.64  | 93    | DSI |     | P1   | 01H | -0.09  |           |          | STH  | TEC |
| 11  | 57  | 0.99  | 35    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 11  | 57  | 0.09  | 108   | SAI |     | 3    | 01H | 0.14   | 0.23      |          | 01H  | 01H |
| 11  | 59  | 1.18  | 73    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 11  | 59  | 0.86  | 53    | DSI |     | P1   | 02H | 0.17   |           |          | TEH  | TEC |
| 11  | 63  | 0.71  | 81    | DSI |     | P1   | 01H | 0.22   |           |          | 01H  | TEC |
| 11  | 63  | 0.77  | 83    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 11  | 66  | 1.00  | 61    | DSI |     | P1   | 01H | -0.09  |           |          | TEH  | TEC |
| 11  | 67  | 0.42  | 44    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 11  | 67  | 0.62  | 60    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 11  | 72  | 0.94  | 34    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 11  | 72  | 0.18  | 108   | MAI |     | 3    | 01H | 0.02   | 0.51      |          | 01H  | 01H |
| 11  | 74  | 0.66  | 51    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 11  | 76  | 0.41  | 43    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 11  | 77  | 1.32  | 73    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 11  | 77  | 0.63  | 67    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 11  | 77  | 0.61  | 94    | MAI |     | 3    | 01H | -0.02  | 0.68      |          | 01H  | 01H |
| 11  | 88  | 0.58  | 43    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 11  | 93  | 0.38  | 137   | PCT | 4   | P1   | 03C | -0.14  |           |          | TEH  | TEC |
| 12  | 2   | 0.48  | 31    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 12  | 4   | 0.43  | 63    | VOL |     | 3    | 02C | 0.20   |           |          | 02C  | 02C |
| 12  | 4   | 1.65  | 0     | PCT | 17  | 2    | 02C | 0.00   |           |          | 02C  | 02C |



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**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 12  | 4   | 0.45  | 61    | VOL |     | 3    | 02C | -0.25  |           |          | 02C  | 02C |
| 12  | 4   | 0.39  | 0     | PCT | 25  | 3    | 02C | -0.25  |           |          | 02C  | 02C |
| 12  | 5   | 0.54  | 95    | DSI |     | P1   | 01H | 0.19   |           |          | TEH  | TEC |
| 12  | 6   | 0.48  | 85    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 12  | 7   | 0.51  | 48    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 12  | 8   | 0.84  | 112   | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 12  | 8   | 1.27  | 78    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 12  | 8   | 1.06  | 123   | DSI |     | P1   | 03H | 0.19   |           |          | TEH  | TEC |
| 12  | 8   | 0.43  | 94    | DSI |     | P1   | 04H | 0.00   |           |          | TEH  | TEC |
| 12  | 8   | 0.51  | 102   | MAI |     | 3    | 02H | -0.12  | 0.26      |          | 02H  | 02H |
| 12  | 9   | 1.20  | 23    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 12  | 9   | 0.29  | 121   | SAI |     | 3    | 01H | -0.09  | 0.29      |          | 01H  | 01H |
| 12  | 10  | 1.00  | 35    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 12  | 10  | 0.13  | 105   | SAI |     | 3    | 02H | 0.08   | 0.16      |          | 02H  | 02H |
| 12  | 14  | 0.66  | 45    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 12  | 15  | 2.13  | 72    | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 12  | 15  | 0.53  | 71    | DSI |     | P1   | 02H | -0.06  |           |          | TEH  | TEC |
| 12  | 15  | 0.37  | 104   | MAI |     | 3    | 01H | 0.03   | 0.72      |          | 01H  | 01H |
| 12  | 18  | 0.73  | 53    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 12  | 18  | 0.87  | 50    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 12  | 19  | 0.59  | 57    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 12  | 21  | 1.04  | 93    | DSI |     | P1   | 01H | -0.14  |           |          | TEH  | TEC |
| 12  | 21  | 0.96  | 105   | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 12  | 22  | 0.23  | 87    | SAI |     | 3    | TSH | 0.10   | 0.20      |          | TSH  | TSH |
| 12  | 22  | 0.96  | 73    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 12  | 22  | 0.98  | 99    | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 12  | 23  | 0.70  | 66    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 12  | 24  | 0.59  | 35    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 12  | 24  | 0.88  | 46    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 12  | 26  | 0.06  | 99    | SAI |     | 3    | TSH | 0.80   | 0.21      |          | TSH  | TSH |
| 12  | 26  | 0.10  | 108   | SAI |     | 3    | TSH | 0.34   | 0.10      |          | TSH  | TSH |
| 12  | 26  | 1.18  | 72    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 12  | 33  | 0.23  | 104   | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 12  | 37  | 0.42  | 43    | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 12  | 40  | 1.19  | 96    | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 12  | 43  | 0.82  | 76    | DSI |     | P1   | 02H | 0.00   |           |          | 1SH  | TEC |
| 12  | 43  | 0.09  | 112   | SAI |     | 3    | TSH | 2.26   | 0.15      |          | TSH  | TSH |
| 12  | 47  | 0.63  | 104   | DSI |     | P1   | 01H | -0.08  |           |          | STH  | TEC |
| 12  | 48  | 0.62  | 126   | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 12  | 49  | 0.84  | 97    | DSI |     | P1   | 01H | -0.08  |           |          | STH  | TEC |
| 12  | 50  | 1.46  | 93    | DSI |     | P1   | 01H | -0.14  |           |          | 07H  | TEH |
| 12  | 50  | 0.19  | 115   | MAI |     | 3    | 01H | -0.09  | 0.34      |          | 01H  | 01H |
| 12  | 54  | 1.61  | 86    | DSI |     | P1   | 01H | -0.09  |           |          | 07H  | TEH |
| 12  | 54  | 0.30  | 78    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 12  | 54  | 0.18  | 129   | MAI |     | 3    | 01H | -0.14  | 0.46      |          | 01H  | 01H |
| 12  | 55  | 0.86  | 81    | DSI |     | P1   | 01H | -0.09  |           |          | 07H  | TEH |
| 12  | 56  | 0.67  | 61    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 12  | 56  | 0.48  | 69    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 12  | 57  | 0.51  | 130   | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 12  | 57  | 0.45  | 40    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 12  | 59  | 0.83  | 87    | DSI |     | P1   | 01H | 0.20   |           |          | TEH  | TEC |

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**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 12  | 59  | 0.45  | 138   | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 12  | 60  | 0.44  | 52    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 12  | 61  | 0.60  | 112   | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 12  | 62  | 1.23  | 45    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 12  | 62  | 0.81  | 48    | DSI |     | P1   | 02H | 0.19   |           |          | TEH  | TEC |
| 12  | 62  | 0.31  | 126   | MAI |     | 3    | 01H | 0.00   | 0.42      |          | 01H  | 01H |
| 12  | 70  | 1.07  | 39    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 12  | 70  | 0.32  | 121   | MAI |     | 3    | 02H | -0.01  | 0.68      |          | 02H  | 02H |
| 12  | 73  | 0.45  | 61    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 12  | 76  | 0.76  | 34    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 12  | 78  | 0.47  | 67    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 12  | 78  | 0.76  | 72    | DSI |     | P1   | 02H | -0.06  |           |          | TEH  | TEC |
| 12  | 84  | 0.90  | 153   | DSI |     | P1   | 01H | -0.09  |           |          | TEH  | TEC |
| 12  | 92  | 0.99  | 123   | PCT | 26  | P1   | 01C | -0.14  |           |          | TEH  | TEC |
| 12  | 92  | 0.39  | 114   | VOL |     | 3    | 01C | -0.07  |           |          | 01C  | 01C |
| 12  | 93  | 0.56  | 118   | DSI |     | P1   | 02H | 0.22   |           |          | TEH  | TEC |
| 13  | 3   | 1.18  | 102   | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 13  | 4   | 0.79  | 41    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 13  | 4   | 0.33  | 39    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 13  | 6   | 0.54  | 38    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 13  | 7   | 0.62  | 71    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 13  | 9   | 1.08  | 56    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 13  | 9   | 0.53  | 56    | DSI |     | P1   | 05H | 0.06   |           |          | TEH  | TEC |
| 13  | 10  | 0.86  | 30    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 13  | 10  | 0.29  | 137   | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 13  | 11  | 0.37  | 41    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 13  | 11  | 0.37  | 93    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 13  | 12  | 0.57  | 58    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 13  | 12  | 0.84  | 51    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 13  | 13  | 0.48  | 72    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 13  | 15  | 0.60  | 93    | DSI |     | P1   | 01H | -0.14  |           |          | TEH  | TEC |
| 13  | 15  | 0.41  | 38    | DSI |     | P1   | 02H | -0.06  |           |          | TEH  | TEC |
| 13  | 17  | 0.86  | 48    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 13  | 19  | 0.95  | 93    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 13  | 19  | 0.38  | 62    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 13  | 21  | 0.50  | 63    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 13  | 21  | 0.62  | 71    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 13  | 22  | 0.99  | 81    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 13  | 26  | 0.55  | 33    | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 13  | 26  | 0.33  | 28    | DSI |     | P1   | 02H | 0.03   |           |          | STH  | TEC |
| 13  | 27  | 1.25  | 27    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 13  | 27  | 0.21  | 109   | SAI |     | 3    | 01H | 0.03   | 0.24      |          | 01H  | 01H |
| 13  | 30  | 0.94  | 65    | DSI |     | P1   | 01H | -0.03  |           |          | STH  | TEC |
| 13  | 32  | 1.00  | 83    | DSI |     | P1   | 01H | -0.03  |           |          | STH  | TEC |
| 13  | 36  | 0.82  | 99    | DSI |     | P1   | 01H | 0.03   |           |          | STH  | TEC |
| 13  | 38  | 0.88  | 72    | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 13  | 39  | 0.15  | 100   | MAI |     | 3    | TSH | 1.96   | 0.89      |          | TSH  | TSH |
| 13  | 39  | 0.31  | 131   | NQI |     | P1   | TSH | 2.37   |           |          | TEH  | TEC |
| 13  | 43  | 0.84  | 98    | DSI |     | P1   | 01H | 0.09   |           |          | STH  | TEC |
| 13  | 44  | 0.10  | 125   | SAI |     | 3    | TSH | 2.31   | 0.72      |          | TSH  | TSH |
| 13  | 47  | 1.40  | 116   | DSI |     | P1   | 01H | 0.14   |           |          | STH  | TEC |

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**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 13  | 48  | 0.14  | 128   | SAI |     | 3    | TSH | 0.90   | 0.20      |          | TSH  | TSH |
| 13  | 49  | 0.59  | 115   | DSI |     | P1   | 01H | 0.03   |           |          | STH  | TEC |
| 13  | 51  | 0.33  | 59    | NQI |     | P1   | TSH | 0.55   |           |          | TEH  | TEC |
| 13  | 52  | 0.10  | 112   | SAI |     | 3    | TSH | 0.30   | 0.19      |          | TSH  | TSH |
| 13  | 56  | 0.52  | 84    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 13  | 62  | 1.07  | 34    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 13  | 62  | 0.18  | 121   | MAI |     | 3    | 01H | -0.03  | 0.60      |          | 01H  | 01H |
| 13  | 63  | 0.50  | 72    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 13  | 66  | 0.26  | 52    | DSI |     | P1   | 01H | -0.09  |           |          | TEH  | TEC |
| 13  | 67  | 0.82  | 45    | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 13  | 68  | 0.43  | 47    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 13  | 72  | 0.58  | 34    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 13  | 72  | 0.38  | 37    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 13  | 78  | 0.48  | 81    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 13  | 85  | 0.76  | 56    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 13  | 92  | 0.45  | 133   | PCT | 8   | P1   | 01C | -0.20  |           |          | TEH  | TEC |
| 14  | 3   | 0.68  | 127   | PCT | 24  | P1   | 01C | -0.09  |           |          | TEH  | TEC |
| 14  | 3   | 0.56  | 141   | PCT | 0   | P1   | 02C | -0.11  |           |          | TEH  | TEC |
| 14  | 3   | 0.36  | 135   | VOL |     | P1   | 01C | -0.01  |           |          | 01C  | 01C |
| 14  | 5   | 0.87  | 65    | VOL |     | 3    | 01C | -0.06  |           |          | 01C  | 01C |
| 14  | 6   | 1.82  | 94    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 14  | 6   | 0.79  | 68    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 14  | 6   | 0.63  | 114   | MAI |     | 3    | 01H | -0.03  | 0.27      |          | 01H  | 01H |
| 14  | 7   | 0.38  | 122   | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 14  | 8   | 0.43  | 46    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 14  | 9   | 0.76  | 78    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 14  | 12  | 0.72  | 66    | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 14  | 13  | 0.86  | 108   | DSI |     | P1   | 01H | -0.14  |           |          | TEH  | TEC |
| 14  | 15  | 0.91  | 57    | DSI |     | P1   | 01H | -0.14  |           |          | TEH  | TEC |
| 14  | 18  | 0.62  | 64    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 14  | 18  | 0.50  | 34    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 14  | 19  | 0.45  | 56    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 14  | 20  | 0.43  | 51    | DSI |     | P1   | 01H | 0.27   |           |          | TEH  | TEC |
| 14  | 21  | 1.30  | 68    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 14  | 21  | 0.30  | 95    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 14  | 21  | 0.75  | 107   | MAI |     | 3    | 01H | -0.09  | 0.40      |          | 01H  | 01H |
| 14  | 22  | 0.64  | 36    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 14  | 29  | 0.49  | 56    | DSI |     | P1   | 01H | 0.11   |           |          | STH  | TEC |
| 14  | 31  | 0.41  | 84    | DSI |     | P1   | 01H | -0.03  |           |          | STH  | TEC |
| 14  | 34  | 1.41  | 64    | DSI |     | P1   | 03H | 0.00   |           |          | 2SH  | TEC |
| 14  | 37  | 1.21  | 79    | DSI |     | P1   | 02H | -0.06  |           |          | 1SH  | TEC |
| 14  | 38  | 1.05  | 101   | DSI |     | P1   | 02H | -0.17  |           |          | 1SH  | TEC |
| 14  | 40  | 0.86  | 85    | DSI |     | P1   | 01H | 0.17   |           |          | STH  | TEC |
| 14  | 44  | 0.13  | 124   | SAI |     | 3    | TSH | 0.66   | 0.15      |          | TSH  | TSH |
| 14  | 47  | 0.87  | 108   | DSI |     | P1   | 01H | 0.03   |           |          | STH  | TEC |
| 14  | 47  | 0.97  | 130   | DSI |     | P1   | 02H | -0.14  |           |          | STH  | TEC |
| 14  | 49  | 0.85  | 58    | DSI |     | P1   | 01H | 0.03   |           |          | STH  | TEC |
| 14  | 54  | 0.29  | 65    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 14  | 54  | 0.11  | 90    | SAI |     | 3    | TSH | 0.42   | 0.16      |          | TSH  | TSH |
| 14  | 56  | 1.56  | 80    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 14  | 56  | 0.33  | 105   | MAI |     | 3    | 01H | -0.01  | 0.66      |          | 01H  | 01H |

**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 14  | 59  | 1.04  | 94    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 14  | 59  | 0.96  | 61    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 14  | 63  | 0.81  | 59    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 14  | 63  | 0.95  | 111   | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 14  | 64  | 0.61  | 81    | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 14  | 67  | 0.65  | 60    | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 14  | 67  | 0.43  | 109   | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 14  | 69  | 0.50  | 39    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 14  | 74  | 1.18  | 90    | DSI |     | P1   | 01H | 0.12   |           |          | TEH  | TEC |
| 14  | 75  | 0.38  | 32    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 14  | 79  | 0.68  | 26    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 14  | 84  | 0.75  | 49    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 14  | 87  | 0.85  | 73    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 14  | 92  | 0.58  | 61    | VOL |     | 3    | 01C | 0.00   |           |          | 01C  | 01C |
| 14  | 92  | 0.51  | 0     | PCT | 31  | 3    | 01C | -0.01  |           |          | 01C  | 01C |
| 15  | 3   | 1.29  | 44    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 15  | 3   | 0.26  | 117   | SAI |     | 3    | 01H | 0.18   | 0.19      |          | 01H  | 01H |
| 15  | 8   | 0.60  | 62    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 15  | 9   | 0.71  | 115   | DSI |     | P1   | 01H | -0.20  |           |          | TEH  | TEC |
| 15  | 9   | 0.65  | 103   | DSI |     | P1   | 02H | -0.14  |           |          | TEH  | TEC |
| 15  | 13  | 0.59  | 43    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 15  | 24  | 0.67  | 109   | DSI |     | P1   | 01H | 0.08   |           |          | STH  | TEC |
| 15  | 27  | 0.33  | 34    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 15  | 28  | 1.12  | 42    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 15  | 28  | 0.41  | 95    | SAI |     | 3    | 01H | -0.03  | 0.40      |          | 01H  | 01H |
| 15  | 29  | 0.88  | 40    | DSI |     | P1   | 01H | 0.03   |           |          | STH  | TEC |
| 15  | 30  | 1.00  | 93    | DSI |     | P1   | 01H | 0.14   |           |          | STH  | TEC |
| 15  | 42  | 1.18  | 79    | DSI |     | P1   | 03H | -0.08  |           |          | STH  | TEC |
| 15  | 43  | 0.62  | 88    | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 15  | 46  | 0.56  | 64    | DSI |     | P1   | 01H | 0.17   |           |          | STH  | TEC |
| 15  | 52  | 0.68  | 94    | DSI |     | P1   | 01H | 0.20   |           |          | TEH  | TEC |
| 15  | 54  | 0.48  | 39    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 15  | 58  | 0.43  | 63    | DSI |     | P1   | 01H | 0.17   |           |          | TEH  | TEC |
| 15  | 59  | 1.67  | 61    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 15  | 59  | 0.47  | 110   | MAI |     | 3    | 01H | 0.02   | 0.39      |          | 01H  | 01H |
| 15  | 60  | 0.87  | 58    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 15  | 61  | 1.26  | 27    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 15  | 61  | 0.13  | 109   | MAI |     | 3    | 01H | -0.01  | 0.50      |          | 01H  | 01H |
| 15  | 62  | 0.84  | 45    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 15  | 64  | 1.09  | 95    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 15  | 65  | 0.82  | 75    | DSI |     | P1   | 01H | 0.12   |           |          | TEH  | TEC |
| 15  | 66  | 0.66  | 94    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 15  | 66  | 0.48  | 116   | DSI |     | P1   | 02H | 0.18   |           |          | TEH  | TEC |
| 15  | 67  | 0.33  | 23    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 15  | 68  | 0.34  | 88    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 15  | 70  | 0.50  | 97    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 15  | 70  | 0.71  | 51    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 15  | 72  | 0.45  | 39    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 15  | 73  | 0.74  | 36    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 15  | 74  | 1.50  | 53    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 15  | 74  | 1.31  | 76    | DSI |     | P1   | 02H | 0.26   |           |          | TEH  | TEC |

BEAVER VALLEY UNIT #1  
1R14 S/G EXAMINATION RESULTS

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**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 15  | 74  | 0.70  | 89    | MAI |     | 3    | 01H | 0.00   |           |          | 01H  | 01H |
| 15  | 74  | 0.16  | 87    | MAI |     | 3    | 02H | 0.02   | 0.37      |          | 02H  | 02H |
| 15  | 78  | 0.78  | 94    | DSI |     | P1   | 01H | 0.12   |           |          | TEH  | TEC |
| 15  | 81  | 0.77  | 56    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 15  | 81  | 1.05  | 58    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 15  | 90  | 0.70  | 129   | PCT | 15  | P1   | 01C | -0.14  |           |          | TEH  | TEC |
| 15  | 90  | 0.31  | 132   | VOL |     | 3    | 01C | -0.04  |           |          | 01C  | 01C |
| 15  | 92  | 0.47  | 138   | PCT | 2   | P1   | 02C | -0.19  |           |          | TEH  | TEC |
| 16  | 4   | 1.04  | 139   | PCT | 4   | P1   | 01C | 0.06   |           |          | TEH  | TEC |
| 16  | 5   | 0.57  | 139   | PCT | 1   | P1   | 01C | -0.17  |           |          | TEH  | TEC |
| 16  | 5   | 1.01  | 97    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 16  | 5   | 0.21  | 134   | VOL |     | P1   | 01C | -0.08  |           |          | 01C  | 01C |
| 16  | 7   | 0.44  | 106   | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 16  | 7   | 0.13  | 123   | SVI |     | 3    | TSC | 0.05   | 0.35      | 73       | TSC  | TSC |
| 16  | 8   | 0.50  | 45    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 16  | 8   | 0.23  | 50    | DSI |     | P1   | 05H | 0.06   |           |          | TEH  | TEC |
| 16  | 8   | 0.24  | 137   | SVI |     | 3    | TSC | 0.04   | 0.28      | 59       | TSC  | TSC |
| 16  | 9   | 0.37  | 74    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 16  | 9   | 0.38  | 109   | SVI |     | 3    | TSC | 0.11   | 0.34      | 90       | TSC  | TSC |
| 16  | 10  | 0.71  | 59    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 16  | 11  | 0.63  | 54    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 16  | 12  | 1.47  | 81    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 16  | 12  | 1.08  | 81    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 16  | 12  | 1.45  | 100   | DSI |     | P1   | 03H | -0.14  |           |          | TEH  | TEC |
| 16  | 12  | 0.79  | 103   | MAI |     | 3    | 01H | -0.11  | 0.48      |          | 01H  | 01H |
| 16  | 12  | 0.23  | 107   | MAI |     | 3    | 03H | -0.20  | 0.21      |          | 03H  | 03H |
| 16  | 13  | 0.66  | 88    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 16  | 13  | 1.54  | 109   | DSI |     | P1   | 02H | 0.14   |           |          | TEH  | TEC |
| 16  | 13  | 1.28  | 72    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 16  | 13  | 0.99  | 101   | DSI |     | P1   | 04H | 0.03   |           |          | TEH  | TEC |
| 16  | 13  | 0.43  | 111   | MAI |     | 3    | 02H | 0.23   | 0.21      |          | 02H  | 02H |
| 16  | 13  | 0.30  | 106   | MAI |     | 3    | 03H | 0.13   | 0.13      |          | 03H  | 03H |
| 16  | 14  | 0.34  | 48    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 16  | 17  | 0.28  | 104   | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 16  | 18  | 0.72  | 56    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 16  | 21  | 0.77  | 53    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 16  | 22  | 0.89  | 74    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 16  | 22  | 0.67  | 64    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 16  | 23  | 1.33  | 88    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 16  | 23  | 0.37  | 106   | SAI |     | 3    | 01H | -0.14  | 0.34      |          | 01H  | 01H |
| 16  | 25  | 1.26  | 47    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 16  | 25  | 0.99  | 68    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 16  | 28  | 0.48  | 78    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 16  | 29  | 0.64  | 57    | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 16  | 30  | 0.17  | 117   | SAI |     | 3    | TSH | 0.36   | 0.23      |          | TSH  | TSH |
| 16  | 30  | 0.30  | 58    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 16  | 33  | 0.68  | 41    | DSI |     | P1   | 01H | 0.06   |           |          | STH  | TEC |
| 16  | 35  | 0.74  | 87    | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 16  | 35  | 0.68  | 116   | DSI |     | P1   | 02H | -0.09  |           |          | STH  | TEC |
| 16  | 36  | 0.93  | 110   | DSI |     | P1   | 01H | -0.06  |           |          | STH  | TEC |
| 16  | 37  | 1.07  | 111   | DSI |     | P1   | 01H | 0.20   |           |          | STH  | TEC |

**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 16  | 37  | 0.74  | 73    | DSI |     | P1   | 02H | 0.00   |           |          | STH  | TEC |
| 16  | 39  | 0.84  | 54    | DSI |     | P1   | 01H | 0.06   |           |          | STH  | TEC |
| 16  | 44  | 0.94  | 91    | DSI |     | P1   | 01H | 0.11   |           |          | STH  | TEC |
| 16  | 46  | 0.56  | 105   | DSI |     | P1   | 01H | -0.09  |           |          | STH  | TEC |
| 16  | 49  | 0.61  | 102   | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 16  | 54  | 0.43  | 81    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 16  | 58  | 0.88  | 78    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 16  | 59  | 1.12  | 100   | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 16  | 59  | 1.16  | 90    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 16  | 61  | 0.58  | 124   | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 16  | 61  | 0.50  | 56    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 16  | 62  | 0.35  | 84    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 16  | 63  | 0.84  | 100   | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 16  | 63  | 0.43  | 49    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 16  | 64  | 1.46  | 88    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 16  | 64  | 0.62  | 107   | MAI |     | 3    | 01H | 0.01   | 0.68      |          | 01H  | 01H |
| 16  | 67  | 1.12  | 87    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 16  | 67  | 0.64  | 55    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 16  | 67  | 0.59  | 39    | DSI |     | P1   | 05H | 0.00   |           |          | TEH  | TEC |
| 16  | 70  | 0.54  | 14    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 16  | 73  | 0.56  | 43    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 16  | 85  | 0.71  | 58    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 16  | 85  | 1.04  | 102   | DSI |     | P1   | 03H | -0.06  |           |          | TEH  | TEC |
| 16  | 86  | 1.18  | 73    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 16  | 86  | 0.43  | 75    | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 17  | 4   | 0.61  | 133   | PCT | 14  | P1   | 01C | -0.17  |           |          | TEH  | TEC |
| 17  | 4   | 0.24  | 136   | SVI |     | 3    | TSC | 0.05   | 0.27      | 54       | TSC  | TSC |
| 17  | 5   | 2.06  | 114   | PCT | 38  | P1   | 01C | -0.19  |           |          | TEH  | TEC |
| 17  | 5   | 0.71  | 135   | PCT | 8   | P1   | 02C | 0.06   |           |          | TEH  | TEC |
| 17  | 5   | 0.37  | 136   | VOL |     | P1   | 02C | 0.13   |           |          | 02C  | 02C |
| 17  | 7   | 0.39  | 60    | DSI |     | P1   | 03H | -0.06  |           |          | TEH  | TEC |
| 17  | 12  | 0.41  | 83    | DSI |     | P1   | 01H | -0.14  |           |          | TEH  | TEC |
| 17  | 13  | 0.71  | 34    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 17  | 13  | 1.32  | 59    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 17  | 13  | 0.26  | 123   | MAI |     | 3    | 02H | -0.07  | 0.27      |          | 02H  | 02H |
| 17  | 14  | 0.94  | 29    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 17  | 14  | 0.24  | 109   | SAI |     | 3    | 01H | 0.10   | 0.59      |          | 01H  | 01H |
| 17  | 16  | 0.85  | 97    | DSI |     | P1   | 02H | -0.11  |           |          | TEH  | TEC |
| 17  | 19  | 1.72  | 11    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 17  | 19  | 0.39  | 115   | SAI |     | 3    | 02H | 0.01   | 0.32      |          | 02H  | 02H |
| 17  | 21  | 0.46  | 128   | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 17  | 24  | 0.92  | 77    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 17  | 24  | 0.29  | 60    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 17  | 33  | 0.69  | 61    | DSI |     | P1   | 01H | 0.06   |           |          | STH  | TEC |
| 17  | 35  | 0.49  | 86    | DSI |     | P1   | 01H | 0.20   |           |          | STH  | TEC |
| 17  | 36  | 0.45  | 162   | DSI |     | P1   | 02H | 0.06   |           |          | STH  | TEC |
| 17  | 37  | 0.72  | 98    | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 17  | 37  | 1.12  | 107   | DSI |     | P1   | 02H | -0.14  |           |          | STH  | TEC |
| 17  | 41  | 0.76  | 97    | DSI |     | P1   | 01H | -0.11  |           |          | STH  | TEC |
| 17  | 42  | 0.48  | 137   | DSI |     | P1   | 01H | -0.14  |           |          | STH  | TEC |
| 17  | 43  | 1.28  | 82    | DSI |     | P1   | 01H | 0.03   |           |          | STH  | TEC |

**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 17  | 44  | 0.91  | 68    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 17  | 46  | 0.51  | 107   | DSI |     | P1   | 01H | 0.03   |           |          | STH  | TEC |
| 17  | 54  | 0.93  | 62    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 17  | 55  | 0.77  | 115   | DSI |     | P1   | 01H | -0.14  |           |          | TEH  | TEC |
| 17  | 55  | 0.82  | 60    | DSI |     | P1   | 02H | 0.24   |           |          | TEH  | TEC |
| 17  | 56  | 0.86  | 78    | DSI |     | P1   | 01H | -0.11  |           |          | TEH  | TEC |
| 17  | 59  | 1.04  | 96    | DSI |     | P1   | 03H | -0.20  |           |          | 2SH  | TEC |
| 17  | 60  | 0.90  | 69    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 17  | 60  | 0.42  | 77    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 17  | 64  | 0.91  | 73    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 17  | 64  | 0.85  | 68    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 17  | 64  | 0.19  | 113   | SAI |     | 3    | 02H | 0.17   | 0.58      |          | 02H  | 02H |
| 17  | 66  | 0.71  | 78    | DSI |     | P1   | 01H | 0.15   |           |          | TEH  | TEC |
| 17  | 66  | 0.64  | 90    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 17  | 68  | 0.49  | 78    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 17  | 77  | 0.92  | 53    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 17  | 83  | 0.61  | 30    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 17  | 90  | 0.56  | 0     | PCT | 33  | 3    | 01C | 0.09   |           |          | 01C  | 01C |
| 17  | 90  | 0.56  | 72    | VOL |     | 3    | 01C | 0.09   |           |          | 01C  | 01C |
| 18  | 16  | 0.38  | 65    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 18  | 18  | 0.94  | 106   | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 18  | 20  | 0.70  | 124   | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 18  | 21  | 1.13  | 35    | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 18  | 21  | 0.82  | 107   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 18  | 21  | 0.37  | 127   | SAI |     | 3    | 01H | 0.03   | 0.52      |          | 01H  | 01H |
| 18  | 23  | 0.89  | 89    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 18  | 23  | 2.45  | 5     | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 18  | 23  | 0.17  | 110   | SAI |     | 3    | 03H | 0.05   | 0.28      |          | 03H  | 03H |
| 18  | 24  | 0.52  | 41    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 18  | 25  | 0.50  | 70    | DSI |     | P1   | 01H | -0.11  |           |          | TEH  | TEC |
| 18  | 30  | 0.57  | 46    | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 18  | 30  | 0.88  | 47    | DSI |     | P1   | 02H | 0.03   |           |          | STH  | TEC |
| 18  | 33  | 0.34  | 72    | DSI |     | P1   | 01H | 0.06   |           |          | STH  | TEC |
| 18  | 42  | 0.95  | 34    | DSI |     | P1   | 01H | 0.06   |           |          | STH  | TEC |
| 18  | 51  | 0.77  | 81    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 18  | 56  | 0.90  | 98    | DSI |     | P1   | 01H | -0.11  |           |          | TEH  | TEC |
| 18  | 57  | 0.54  | 76    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 18  | 59  | 0.56  | 81    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 18  | 61  | 0.56  | 21    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 18  | 64  | 0.56  | 17    | DSI |     | P1   | 06H | 0.03   |           |          | TEH  | TEC |
| 18  | 69  | 0.36  | 127   | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 18  | 69  | 0.56  | 102   | DSI |     | P1   | 02H | -0.09  |           |          | TEH  | TEC |
| 18  | 75  | 0.65  | 102   | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 18  | 77  | 1.55  | 124   | DSI |     | P1   | 02H | -0.28  |           |          | TEH  | TEC |
| 18  | 77  | 0.25  | 83    | SAI |     | 3    | 02H | 0.00   | 0.60      |          | 02H  | 02H |
| 18  | 78  | 1.34  | 32    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 18  | 78  | 0.47  | 130   | MAI |     | 3    | 01H | 0.02   | 0.60      |          | 01H  | 01H |
| 18  | 89  | 1.12  | 137   | PCT | 7   | P1   | 01C | -0.20  |           |          | TEH  | TEC |
| 18  | 89  | 0.27  | 136   | VOL |     | 3    | 01C | -0.10  |           |          | 01C  | 01C |
| 19  | 6   | 1.36  | 124   | PCT | 28  | P1   | 01C | -0.17  |           |          | TEH  | TEC |
| 19  | 6   | 0.43  | 123   | PCT | 29  | P1   | 02C | 0.14   |           |          | TEH  | TEC |

BEAVER VALLEY UNIT #1  
1R14 S/G EXAMINATION RESULTS

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**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 19  | 6   | 0.87  | 115   | DSI |     | P1   | 04H | 0.23   |           |          | TEH  | TEC |
| 19  | 9   | 0.44  | 129   | DSI |     | P1   | 02H | -0.09  |           |          | TEH  | TEC |
| 19  | 9   | 0.68  | 95    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 19  | 11  | 0.56  | 17    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 19  | 16  | 0.55  | 49    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 19  | 16  | 0.14  | 90    | SAI |     | 3    | 02H | -0.10  | 0.44      |          | 02H  | 02H |
| 19  | 22  | 0.56  | 72    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 19  | 25  | 0.85  | 110   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 19  | 25  | 0.52  | 105   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 19  | 26  | 0.59  | 80    | DSI |     | P1   | 01H | 0.16   |           |          | TEH  | TEC |
| 19  | 27  | 0.65  | 105   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 19  | 30  | 0.53  | 101   | DSI |     | P1   | 02H | -0.14  |           |          | 1SH  | TEC |
| 19  | 31  | 0.34  | 116   | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 19  | 34  | 0.35  | 58    | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 19  | 34  | 0.10  | 114   | MAI |     | 3    | 01H | 0.01   | 0.56      |          | 01H  | 01H |
| 19  | 38  | 1.55  | 98    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 19  | 38  | 0.69  | 110   | MAI |     | 3    | 01H | -0.06  | 0.56      |          | 01H  | 01H |
| 19  | 45  | 0.45  | 131   | DSI |     | P1   | 01H | 0.16   |           |          | TSH  | TEC |
| 19  | 45  | 0.43  | 122   | DSI |     | P1   | 01H | 0.06   |           |          | TSH  | TEC |
| 19  | 45  | 0.54  | 136   | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 19  | 46  | 0.76  | 111   | DSI |     | P1   | 01H | -0.14  |           |          | TEH  | TEC |
| 19  | 51  | 0.72  | 94    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 19  | 51  | 0.51  | 67    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 19  | 53  | 0.33  | 58    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 19  | 53  | 0.49  | 128   | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 19  | 54  | 1.13  | 123   | DSI |     | P1   | 01H | -0.11  |           |          | TEH  | TEC |
| 19  | 58  | 1.58  | 98    | DSI |     | P1   | 01H | -0.06  |           |          | STH  | TEC |
| 19  | 59  | 0.18  | 79    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 19  | 60  | 0.75  | 55    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 19  | 63  | 1.10  | 90    | DSI |     | P1   | 02H | 0.26   |           |          | 1SH  | TEC |
| 19  | 67  | 0.56  | 56    | DSI |     | P1   | 02H | -0.06  |           |          | TEH  | TEC |
| 19  | 71  | 0.99  | 60    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 19  | 73  | 0.45  | 74    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 19  | 81  | 0.67  | 42    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 19  | 81  | 0.27  | 81    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 19  | 82  | 0.58  | 41    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 19  | 88  | 0.30  | 124   | PCT | 28  | P1   | 03C | -0.23  |           |          | TEH  | TEC |
| 19  | 89  | 0.18  | 132   | PCT | 13  | P1   | 01C | -0.25  |           |          | TEH  | TEC |
| 19  | 89  | 0.17  | 138   | VOL |     | 3    | 01C | -0.10  |           |          | 01C  | 01C |
| 20  | 8   | 0.48  | 124   | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 20  | 8   | 0.95  | 144   | PCT | 0   | P1   | 02C | -0.08  |           |          | TEH  | TEC |
| 20  | 8   | 0.56  | 59    | DSI |     | P1   | 05H | 0.00   |           |          | TEH  | TEC |
| 20  | 9   | 0.58  | 49    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 20  | 9   | 0.49  | 40    | DSI |     | P1   | 04H | 0.00   |           |          | TEH  | TEC |
| 20  | 11  | 0.74  | 45    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 20  | 11  | 0.62  | 17    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 20  | 12  | 0.78  | 56    | DSI |     | P1   | 02H | -0.06  |           |          | TEH  | TEC |
| 20  | 12  | 1.34  | 123   | DSI |     | P1   | 03H | -0.06  |           |          | TEH  | TEC |
| 20  | 12  | 0.31  | 100   | MAI |     | 3    | 03H | 0.05   | 0.27      |          | 03H  | 03H |
| 20  | 13  | 0.40  | 115   | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 20  | 14  | 0.60  | 59    | DSI |     | P1   | 02H | -0.06  |           |          | TEH  | TEC |



BEAVER VALLEY UNIT #1  
1R14 S/G EXAMINATION RESULTS

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**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 20  | 15  | 0.46  | 83    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 20  | 16  | 0.50  | 75    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 20  | 19  | 1.17  | 91    | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 20  | 19  | 0.90  | 84    | DSI |     | P1   | 02H | -0.06  |           |          | TEH  | TEC |
| 20  | 19  | 1.21  | 47    | DSI |     | P1   | 03H | -0.06  |           |          | TEH  | TEC |
| 20  | 20  | 1.26  | 68    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 20  | 20  | 0.92  | 47    | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 20  | 21  | 1.57  | 89    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 20  | 21  | 0.69  | 76    | DSI |     | P1   | 04H | 0.40   |           |          | TEH  | TEC |
| 20  | 21  | 0.27  | 92    | MAI |     | 3    | 04H | 0.33   | 0.71      |          | 04H  | 04H |
| 20  | 21  | 0.41  | 116   | SAI |     | 3    | 01H | 0.08   | 0.40      |          | 01H  | 01H |
| 20  | 22  | 0.54  | 90    | DSI |     | P1   | 02H | -0.11  |           |          | TEH  | TEC |
| 20  | 22  | 0.18  | 109   | MAI |     | 3    | 02H | -0.24  | 0.55      |          | 02H  | 02H |
| 20  | 23  | 1.05  | 63    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 20  | 28  | 0.65  | 134   | DSI |     | P1   | 01C | 0.11   |           |          | 1SH  | TEC |
| 20  | 28  | 0.43  | 87    | DSI |     | P1   | 06H | 0.09   |           |          | 1SH  | TEC |
| 20  | 30  | 0.33  | 56    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 20  | 36  | 1.46  | 37    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 20  | 36  | 0.25  | 87    | MAI |     | 3    | 01H | -0.04  | 0.60      |          | 01H  | 01H |
| 20  | 37  | 0.46  | 125   | DSI |     | P1   | 01H | 0.17   |           |          | TEH  | TEC |
| 20  | 40  | 1.41  | 116   | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 20  | 40  | 0.75  | 98    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 20  | 40  | 0.40  | 121   | MAI |     | 3    | 01H | 0.14   | 0.56      |          | 01H  | 01H |
| 20  | 43  | 0.16  | 110   | SAI |     | 3    | TSH | 0.19   | 0.14      |          | TSH  | TSH |
| 20  | 43  | 1.21  | 42    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 20  | 43  | 0.38  | 110   | MAI |     | 3    | 01H | 0.01   | 0.64      |          | 01H  | 01H |
| 20  | 45  | 0.89  | 28    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 20  | 49  | 1.02  | 60    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 20  | 52  | 2.03  | 116   | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 20  | 52  | 0.84  | 152   | DSI |     | P1   | 02H | 0.28   |           |          | TEH  | TEC |
| 20  | 52  | 0.59  | 120   | MAI |     | 3    | 01H | 0.00   | 0.72      |          | 01H  | 01H |
| 20  | 52  | 0.21  | 117   | SAI |     | 3    | 02H | 0.12   | 0.49      |          | 02H  | 02H |
| 20  | 53  | 0.60  | 84    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 20  | 54  | 1.31  | 84    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 20  | 54  | 0.54  | 114   | MAI |     | 3    | 01H | 0.07   | 0.42      |          | 01H  | 01H |
| 20  | 56  | 0.49  | 71    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 20  | 57  | 0.56  | 34    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 20  | 60  | 1.58  | 95    | DSI |     | P1   | 02H | -0.14  |           |          | 1SH  | TEC |
| 20  | 61  | 0.91  | 78    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 20  | 61  | 0.86  | 124   | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 20  | 65  | 0.96  | 75    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 20  | 65  | 0.41  | 87    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 20  | 66  | 1.31  | 56    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 20  | 66  | 0.31  | 123   | MAI |     | 3    | 01H | 0.00   | 0.58      |          | 01H  | 01H |
| 20  | 67  | 0.24  | 107   | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 20  | 69  | 0.59  | 63    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 20  | 70  | 0.28  | 82    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 20  | 70  | 0.65  | 91    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 20  | 71  | 0.28  | 42    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 20  | 72  | 0.66  | 37    | DSI |     | P1   | 01H | 0.09   |           |          | TEH  | TEC |
| 20  | 74  | 0.85  | 112   | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |

**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 20  | 75  | 0.90  | 47    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 20  | 80  | 0.62  | 72    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 20  | 85  | 0.94  | 85    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 20  | 88  | 0.47  | 58    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 21  | 11  | 0.73  | 68    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 21  | 13  | 0.42  | 104   | DSI |     | P1   | 01H | 0.16   |           |          | TEH  | TEC |
| 21  | 18  | 0.60  | 140   | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 21  | 21  | 0.95  | 63    | DSI |     | P1   | 01H | -0.14  |           |          | TEH  | TEC |
| 21  | 21  | 0.89  | 22    | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 21  | 21  | 0.13  | 120   | SAI |     | 3    | 03H | 0.11   | 0.42      |          | 03H  | 03H |
| 21  | 22  | 0.66  | 68    | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 21  | 28  | 0.68  | 70    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 21  | 32  | 0.86  | 55    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 21  | 33  | 1.60  | 47    | DSI |     | P1   | 01H | -0.11  |           |          | TEH  | TEC |
| 21  | 33  | 0.76  | 97    | DSI |     | P1   | 02H | -0.19  |           |          | TEH  | TEC |
| 21  | 33  | 0.29  | 122   | MAI |     | 3    | 01H | -0.11  | 0.23      |          | 01H  | 01H |
| 21  | 34  | 1.03  | 91    | DSI |     | P1   | 01H | 0.22   |           |          | TEH  | TEC |
| 21  | 35  | 0.47  | 76    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 21  | 37  | 1.15  | 83    | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 21  | 38  | 0.68  | 21    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 21  | 39  | 0.73  | 141   | DSI |     | P1   | 01H | 0.16   |           |          | TEH  | TEC |
| 21  | 40  | 0.66  | 77    | DSI |     | P1   | 01H | 0.30   |           |          | TEH  | TEC |
| 21  | 42  | 1.08  | 74    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 21  | 44  | 1.28  | 35    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 21  | 44  | 0.12  | 121   | MAI |     | 3    | 01H | -0.08  | 0.36      |          | 01H  | 01H |
| 21  | 45  | 1.21  | 49    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 21  | 46  | 0.78  | 72    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 21  | 48  | 1.00  | 48    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 21  | 50  | 0.56  | 48    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 21  | 51  | 0.80  | 34    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 21  | 52  | 0.51  | 66    | DSI |     | P1   | 01H | 0.19   |           |          | TEH  | TEC |
| 21  | 52  | 0.78  | 78    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 21  | 53  | 0.82  | 43    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 21  | 54  | 1.39  | 68    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 21  | 54  | 0.24  | 128   | MAI |     | 3    | 01H | 0.04   | 0.60      |          | 01H  | 01H |
| 21  | 55  | 0.62  | 83    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 21  | 57  | 0.97  | 61    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 21  | 58  | 0.42  | 63    | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 21  | 59  | 1.22  | 56    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 21  | 59  | 0.21  | 22    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 21  | 61  | 0.84  | 98    | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 21  | 62  | 0.79  | 92    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 21  | 62  | 0.53  | 107   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 21  | 63  | 0.67  | 84    | DSI |     | P1   | 01H | -0.11  |           |          | TEH  | TEC |
| 21  | 64  | 0.56  | 35    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 21  | 64  | 0.41  | 69    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 21  | 66  | 0.66  | 93    | DSI |     | P1   | 01H | -0.17  |           |          | TEH  | TEC |
| 21  | 66  | 0.63  | 40    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 21  | 70  | 0.92  | 90    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 21  | 71  | 0.58  | 81    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 21  | 72  | 0.64  | 89    | DSI |     | P1   | 02H | -0.11  |           |          | TEH  | TEC |

**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 21  | 72  | 0.23  | 121   | MAI |     | 3    | 02H | -0.05  | 0.45      |          | 02H  | 02H |
| 21  | 74  | 1.30  | 0     | PCT | 19  | P2   | AV3 | 0.06   |           |          | TEH  | TEC |
| 21  | 74  | 1.19  | 0     | PCT | 18  | P2   | AV4 | -0.53  |           |          | TEH  | TEC |
| 21  | 75  | 0.58  | 71    | DSI |     | P1   | 02H | 0.17   |           |          | TEH  | TEC |
| 21  | 77  | 0.36  | 84    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 21  | 78  | 0.87  | 52    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 21  | 78  | 1.27  | 58    | DSI |     | P1   | 02H | 0.14   |           |          | TEH  | TEC |
| 21  | 78  | 0.54  | 109   | MAI |     | 3    | 02H | 0.05   | 0.60      |          | 02H  | 02H |
| 21  | 80  | 0.77  | 56    | DSI |     | P1   | 01H | 0.09   |           |          | TEH  | TEC |
| 21  | 80  | 1.56  | 84    | DSI |     | P1   | 02H | 0.17   |           |          | TEH  | TEC |
| 21  | 80  | 0.49  | 49    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 21  | 80  | 0.65  | 107   | MAI |     | 3    | 02H | 0.00   | 0.68      |          | 02H  | 02H |
| 21  | 83  | 1.16  | 82    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 21  | 88  | 0.39  | 57    | VOL |     | 3    | 01C | 0.08   |           |          | 01C  | 01C |
| 21  | 88  | 0.34  | 0     | PCT | 21  | 3    | 01C | 0.08   |           |          | 01C  | 01C |
| 21  | 88  | 0.18  | 0     | PCT | 3   | 3    | 02C | -0.06  |           |          | 02C  | 02C |
| 21  | 88  | 0.20  | 64    | VOL |     | 3    | 02C | -0.06  |           |          | 02C  | 02C |
| 22  | 8   | 0.53  | 81    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 22  | 8   | 0.31  | 59    | VOL |     | 3    | 01C | -0.12  |           |          | 01C  | 01C |
| 22  | 8   | 0.29  | 0     | PCT | 17  | 3    | 01C | -0.12  |           |          | 01C  | 01C |
| 22  | 9   | 1.52  | 117   | PCT | 37  | P1   | 01C | 0.14   |           |          | TEH  | TEC |
| 22  | 15  | 1.15  | 60    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 22  | 18  | 0.96  | 59    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 22  | 20  | 0.35  | 81    | DSI |     | P1   | 01H | 0.19   |           |          | TEH  | TEC |
| 22  | 20  | 0.61  | 55    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 22  | 21  | 1.67  | 81    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 22  | 21  | 1.14  | 101   | MAI |     | 3    | 01H | 0.00   | 0.42      |          | 01H  | 01H |
| 22  | 23  | 1.16  | 26    | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 22  | 23  | 0.76  | 52    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 22  | 23  | 0.28  | 106   | SAI |     | 3    | 01H | -0.04  | 0.32      |          | 01H  | 01H |
| 22  | 25  | 0.82  | 36    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 22  | 28  | 0.46  | 58    | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 22  | 30  | 0.61  | 65    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 22  | 31  | 1.81  | 0     | PCT | 22  | P2   | AV2 | 0.49   |           |          | 1SH  | TEC |
| 22  | 31  | 1.33  | 0     | PCT | 18  | P2   | AV3 | 0.37   |           |          | 1SH  | TEC |
| 22  | 36  | 1.32  | 62    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 22  | 36  | 0.77  | 103   | MAI |     | 3    | 01H | 0.00   | 0.58      |          | 01H  | 01H |
| 22  | 39  | 0.42  | 42    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 22  | 40  | 1.54  | 109   | DSI |     | P1   | 01H | -0.11  |           |          | TEH  | TEC |
| 22  | 40  | 0.57  | 120   | MAI |     | 3    | 01H | -0.01  | 0.62      |          | 01H  | 01H |
| 22  | 43  | 0.75  | 87    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 22  | 44  | 1.04  | 46    | DSI |     | P1   | 01H | -0.11  |           |          | TEH  | TEC |
| 22  | 45  | 1.29  | 106   | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 22  | 45  | 0.63  | 117   | MAI |     | 3    | 01H | -0.04  | 0.58      |          | 01H  | 01H |
| 22  | 47  | 0.56  | 121   | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 22  | 47  | 0.32  | 41    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 22  | 48  | 0.77  | 144   | DSI |     | P1   | 01H | -0.17  |           |          | TEH  | TEC |
| 22  | 48  | 0.21  | 103   | SAI |     | 3    | 01H | -0.08  | 0.26      |          | 01H  | 01H |
| 22  | 49  | 0.41  | 56    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 22  | 58  | 0.74  | 101   | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 22  | 63  | 0.78  | 52    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |

**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 22  | 69  | 0.83  | 74    | DSI |     | P1   | 02H | -0.09  |           |          | 1SH  | TEC |
| 22  | 73  | 0.54  | 88    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 22  | 74  | 1.34  | 100   | DSI |     | P1   | 02H | 0.17   |           |          | 1SH  | TEC |
| 22  | 78  | 0.29  | 53    | DSI |     | P1   | 01H | 0.09   |           |          | TEH  | TEC |
| 22  | 81  | 0.81  | 31    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 22  | 82  | 0.37  | 87    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 22  | 85  | 0.51  | 43    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 22  | 87  | 0.47  | 68    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 23  | 8   | 0.41  | 0     | PCT | 26  | 3    | 01C | -0.06  |           |          | 01C  | 01C |
| 23  | 8   | 0.45  | 64    | VOL |     | 3    | 01C | -0.06  |           |          | 01C  | 01C |
| 23  | 9   | 1.18  | 81    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 23  | 9   | 0.66  | 41    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 23  | 13  | 0.63  | 35    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 23  | 13  | 0.70  | 51    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 23  | 20  | 0.74  | 101   | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 23  | 22  | 0.68  | 46    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 23  | 23  | 1.15  | 105   | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 23  | 24  | 0.58  | 105   | DSI |     | P1   | 02H | -0.22  |           |          | TEH  | TEC |
| 23  | 25  | 0.60  | 36    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 23  | 29  | 0.70  | 80    | DSI |     | P1   | 01H | 0.03   |           |          | 2SH  | TEH |
| 23  | 29  | 0.93  | 95    | DSI |     | P1   | 03H | -0.18  |           |          | 2SH  | TEC |
| 23  | 34  | 0.57  | 61    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 23  | 34  | 0.50  | 84    | DSI |     | P1   | 02H | 0.23   |           |          | TEH  | TEC |
| 23  | 36  | 0.22  | 83    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 23  | 36  | 0.21  | 91    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 23  | 38  | 0.33  | 47    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 23  | 42  | 1.83  | 98    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 23  | 42  | 0.71  | 107   | MAI |     | 3    | 01H | -0.06  | 0.67      |          | 01H  | 01H |
| 23  | 43  | 0.38  | 113   | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 23  | 47  | 0.87  | 132   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 23  | 56  | 1.04  | 95    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 23  | 57  | 0.52  | 71    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 23  | 62  | 0.83  | 49    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 23  | 65  | 0.54  | 134   | DSI |     | P1   | 01H | 0.23   |           |          | TEH  | TEC |
| 23  | 65  | 0.23  | 62    | DSI |     | P1   | 03H | 0.09   |           |          | TEH  | TEC |
| 23  | 66  | 0.75  | 69    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 23  | 67  | 0.68  | 59    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 23  | 67  | 0.71  | 45    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 23  | 71  | 1.06  | 79    | DSI |     | P1   | 01H | 0.19   |           |          | TEH  | TEC |
| 23  | 78  | 0.50  | 36    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 23  | 78  | 0.63  | 45    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 24  | 8   | 0.36  | 0     | PCT | 22  | 3    | 01C | 0.00   |           |          | 01C  | 01C |
| 24  | 8   | 0.37  | 57    | VOL |     | 3    | 01C | 0.00   |           |          | 01C  | 01C |
| 24  | 8   | 0.52  | 0     | PCT | 32  | 3    | 02C | -0.09  |           |          | 02C  | 02C |
| 24  | 8   | 0.57  | 66    | VOL |     | 3    | 02C | -0.09  |           |          | 02C  | 02C |
| 24  | 11  | 0.77  | 35    | DSI |     | P1   | 05H | 0.00   |           |          | TEH  | TEC |
| 24  | 12  | 0.43  | 32    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 24  | 16  | 0.43  | 43    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 24  | 17  | 0.39  | 33    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 24  | 18  | 0.32  | 77    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 24  | 21  | 0.60  | 43    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 24  | 22  | 0.33  | 52    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 24  | 27  | 0.49  | 89    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 24  | 31  | 1.58  | 86    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 24  | 31  | 0.47  | 110   | MAI |     | 3    | 01H | -0.05  | 0.37      |          | 01H  | 01H |
| 24  | 38  | 0.34  | 61    | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 24  | 40  | 0.69  | 115   | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 24  | 40  | 1.25  | 84    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 24  | 40  | 0.37  | 67    | DSI |     | P1   | 04H | 0.03   |           |          | TEH  | TEC |
| 24  | 40  | 0.08  | 74    | SAI |     | 3    | 01H | -0.23  | 0.16      |          | 01H  | 01H |
| 24  | 40  | 0.34  | 111   | MAI |     | 3    | 02H | -0.01  | 0.70      |          | 02H  | 02H |
| 24  | 41  | 0.87  | 54    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 24  | 45  | 1.30  | 22    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 24  | 45  | 0.55  | 28    | DSI |     | P1   | 03H | 0.14   |           |          | TEH  | TEC |
| 24  | 45  | 0.35  | 111   | MAI |     | 3    | 02H | 0.02   | 0.56      |          | 02H  | 02H |
| 24  | 51  | 1.45  | 124   | PCT | 22  | P2   | AV1 | -0.52  |           |          | TEH  | TEC |
| 24  | 51  | 1.59  | 78    | PCT | 23  | P2   | AV2 | -0.25  |           |          | TEH  | TEC |
| 24  | 51  | 0.73  | 69    | PCT | 13  | P2   | AV3 | 0.00   |           |          | TEH  | TEC |
| 24  | 51  | 2.05  | 64    | PCT | 27  | P2   | AV4 | -0.05  |           |          | TEH  | TEC |
| 24  | 52  | 0.51  | 52    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 24  | 53  | 0.74  | 120   | DSI |     | P1   | 02H | -0.19  |           |          | TEH  | TEC |
| 24  | 54  | 0.93  | 56    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 24  | 54  | 0.55  | 107   | DSI |     | P1   | 02H | -0.22  |           |          | TEH  | TEC |
| 24  | 55  | 0.42  | 70    | DSI |     | P1   | 01H | 0.03   |           |          | STH  | TEC |
| 24  | 58  | 0.60  | 86    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 24  | 60  | 1.13  | 83    | DSI |     | P1   | 01H | 0.16   |           |          | TEH  | TEC |
| 24  | 60  | 0.51  | 117   | DSI |     | P1   | 02H | -0.11  |           |          | TEH  | TEC |
| 24  | 64  | 0.18  | 104   | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 24  | 66  | 0.65  | 105   | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 24  | 66  | 0.24  | 85    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 24  | 68  | 1.23  | 0     | PCT | 19  | P2   | AV2 | -0.19  |           |          | TEH  | TEC |
| 24  | 70  | 0.63  | 50    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 24  | 73  | 0.90  | 40    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 24  | 74  | 0.23  | 69    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 24  | 74  | 0.64  | 91    | DSI |     | P1   | 02H | -0.06  |           |          | TEH  | TEC |
| 24  | 79  | 1.59  | 44    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 24  | 79  | 0.34  | 110   | MAI |     | 3    | 02H | 0.00   | 0.73      |          | 02H  | 02H |
| 25  | 11  | 0.61  | 0     | PCT | 35  | 3    | 01C | 0.01   |           |          | 01C  | 01C |
| 25  | 11  | 0.76  | 49    | VOL |     | 3    | 01C | 0.01   |           |          | 01C  | 01C |
| 25  | 12  | 0.64  | 35    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 25  | 12  | 0.49  | 50    | DSI |     | P1   | 05H | -0.03  |           |          | TEH  | TEC |
| 25  | 14  | 0.87  | 40    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 25  | 14  | 1.14  | 74    | DSI |     | P1   | 02H | 0.14   |           |          | TEH  | TEC |
| 25  | 14  | 0.91  | 53    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 25  | 19  | 0.49  | 102   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 25  | 19  | 1.42  | 46    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 25  | 19  | 0.14  | 111   | SAI |     | 3    | 03H | 0.09   | 0.24      |          | 03H  | 03H |
| 25  | 20  | 0.78  | 31    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 25  | 21  | 0.63  | 99    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 25  | 22  | 0.70  | 61    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 25  | 32  | 0.93  | 41    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 25  | 36  | 0.90  | 52    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |

BEAVER VALLEY UNIT #1  
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**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 25  | 36  | 0.34  | 89    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 25  | 38  | 0.41  | 44    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 25  | 39  | 0.89  | 0     | PCT | 15  | P2   | AV4 | -0.11  |           |          | TEH  | TEC |
| 25  | 41  | 0.77  | 57    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 25  | 42  | 0.45  | 106   | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 25  | 42  | 0.42  | 63    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 25  | 43  | 0.52  | 79    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 25  | 43  | 1.13  | 0     | PCT | 18  | P2   | AV2 | 0.00   |           |          | TEH  | TEC |
| 25  | 43  | 1.02  | 0     | PCT | 17  | P2   | AV3 | 0.00   |           |          | TEH  | TEC |
| 25  | 45  | 0.73  | 44    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 25  | 46  | 0.66  | 93    | DSI |     | P1   | 01H | 0.19   |           |          | TEH  | TEC |
| 25  | 48  | 1.15  | 78    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 25  | 48  | 0.50  | 79    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 25  | 50  | 0.60  | 136   | DSI |     | P1   | 01H | -0.22  |           |          | TEH  | TEC |
| 25  | 50  | 0.11  | 131   | SAI |     | 3    | 01H | 0.11   | 0.50      |          | 01H  | 01H |
| 25  | 51  | 1.53  | 102   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 25  | 51  | 0.46  | 107   | MAI |     | 3    | 01H | -0.04  | 0.58      |          | 01H  | 01H |
| 25  | 53  | 0.45  | 86    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 25  | 55  | 0.26  | 60    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 25  | 55  | 0.35  | 61    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 25  | 59  | 0.72  | 57    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 25  | 59  | 0.39  | 67    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 25  | 61  | 1.45  | 91    | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 25  | 61  | 0.28  | 127   | MAI |     | 3    | 01H | 0.00   | 0.42      |          | 01H  | 01H |
| 25  | 64  | 0.61  | 69    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 25  | 65  | 3.21  | 0     | PCT | 34  | P2   | AV3 | 0.26   |           |          | TEH  | TEC |
| 25  | 65  | 2.66  | 0     | PCT | 31  | P2   | AV4 | 0.00   |           |          | TEH  | TEC |
| 25  | 66  | 0.80  | 58    | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 25  | 71  | 0.71  | 35    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 25  | 78  | 0.96  | 46    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 25  | 78  | 1.19  | 46    | DSI |     | P1   | 04H | 0.09   |           |          | TEH  | TEC |
| 25  | 79  | 1.40  | 74    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 25  | 79  | 0.68  | 32    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 25  | 79  | 0.44  | 117   | MAI |     | 3    | 01H | 0.00   | 0.55      |          | 01H  | 01H |
| 25  | 81  | 1.19  | 44    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 25  | 81  | 0.17  | 116   | SAI |     | 3    | 01H | -0.18  | 0.66      |          | 01H  | 01H |
| 25  | 86  | 0.76  | 117   | DSI |     | P1   | 02H | 0.14   |           |          | TEH  | TEC |
| 26  | 11  | 1.76  | 76    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 26  | 11  | 1.06  | 48    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 26  | 11  | 0.48  | 108   | MAI |     | 3    | 01H | -0.03  | 0.27      |          | 01H  | 01H |
| 26  | 13  | 0.51  | 150   | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 26  | 18  | 0.33  | 56    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 26  | 23  | 0.83  | 37    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 26  | 26  | 0.95  | 65    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 26  | 29  | 0.63  | 66    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 26  | 30  | 1.00  | 77    | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 26  | 30  | 0.25  | 86    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 26  | 30  | 0.13  | 118   | SAI |     | 3    | 02H | 0.04   | 0.48      |          | 02H  | 02H |
| 26  | 32  | 1.35  | 108   | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 26  | 32  | 0.86  | 148   | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 26  | 32  | 0.55  | 108   | SAI |     | 3    | 01H | 0.13   | 0.45      |          | 01H  | 01H |

**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 26  | 33  | 0.35  | 39    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 26  | 34  | 0.56  | 0     | PCT | 12  | P2   | AV1 | -0.14  |           |          | TEH  | TEC |
| 26  | 34  | 1.30  | 0     | PCT | 22  | P2   | AV2 | 0.00   |           |          | TEH  | TEC |
| 26  | 34  | 1.22  | 0     | PCT | 21  | P2   | AV3 | -0.03  |           |          | TEH  | TEC |
| 26  | 34  | 1.67  | 0     | PCT | 25  | P2   | AV4 | 1.93   |           |          | TEH  | TEC |
| 26  | 34  | 2.61  | 0     | PCT | 32  | P2   | AV4 | -1.99  |           |          | TEH  | TEC |
| 26  | 36  | 0.61  | 59    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 26  | 50  | 0.57  | 46    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 26  | 51  | 1.99  | 110   | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 26  | 51  | 0.80  | 105   | SAI |     | 3    | 01H | 0.10   | 0.39      |          | 01H  | 01H |
| 26  | 55  | 0.99  | 46    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 26  | 62  | 0.84  | 90    | DSI |     | P1   | 02H | -0.09  |           |          | 1SH  | TEC |
| 26  | 65  | 0.46  | 86    | DSI |     | P1   | 02H | 0.17   |           |          | TEH  | TEC |
| 26  | 67  | 0.83  | 66    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 26  | 67  | 1.25  | 55    | DSI |     | P1   | 02H | 0.14   |           |          | TEH  | TEC |
| 26  | 70  | 0.74  | 39    | DSI |     | P1   | 01H | 0.17   |           |          | TEH  | TEC |
| 26  | 82  | 0.59  | 38    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 27  | 10  | 0.31  | 40    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 27  | 15  | 0.70  | 41    | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 27  | 19  | 0.74  | 48    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 27  | 19  | 0.58  | 60    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 27  | 21  | 1.03  | 136   | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 27  | 21  | 0.64  | 50    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 27  | 26  | 0.78  | 65    | DSI |     | P1   | 03H | -0.16  |           |          | TEH  | TEC |
| 27  | 27  | 0.90  | 41    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 27  | 27  | 0.90  | 30    | DSI |     | P1   | 03H | -0.06  |           |          | TEH  | TEC |
| 27  | 31  | 0.70  | 68    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 27  | 32  | 0.89  | 69    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 27  | 33  | 0.42  | 72    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 27  | 37  | 0.87  | 40    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 27  | 38  | 0.57  | 48    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 27  | 40  | 0.95  | 117   | DSI |     | P1   | 01H | 0.14   |           |          | STH  | TEC |
| 27  | 40  | 0.77  | 102   | DSI |     | P1   | 02H | -0.06  |           |          | STH  | TEC |
| 27  | 44  | 1.01  | 110   | DSI |     | P1   | 01H | 0.16   |           |          | TEH  | TEC |
| 27  | 45  | 0.85  | 18    | DSI |     | P1   | 01H | 0.16   |           |          | TEH  | TEC |
| 27  | 53  | 0.84  | 123   | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 27  | 54  | 1.20  | 49    | DSI |     | P1   | 01H | 0.24   |           |          | TEH  | TEC |
| 27  | 59  | 0.87  | 40    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 27  | 59  | 0.90  | 55    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 27  | 63  | 0.92  | 46    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 27  | 66  | 1.02  | 51    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 27  | 66  | 0.09  | 28    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 27  | 67  | 0.44  | 150   | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 27  | 73  | 0.51  | 31    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 27  | 73  | 0.16  | 122   | SAI |     | 3    | 02H | 0.06   | 0.24      |          | 02H  | 02H |
| 27  | 75  | 0.71  | 125   | DSI |     | P1   | 04H | -0.08  |           |          | TEH  | TEC |
| 27  | 79  | 0.35  | 89    | DSI |     | P1   | 02H | -0.06  |           |          | TEH  | TEC |
| 27  | 85  | 1.02  | 45    | VOL |     | 3    | 02C | 0.07   |           |          | 02C  | 02C |
| 27  | 85  | 0.73  | 0     | PCT | 39  | 3    | 02C | 0.07   |           |          | 02C  | 02C |
| 28  | 12  | 0.46  | 133   | PCT | 11  | P1   | 03C | 0.06   |           |          | TEH  | TEC |
| 28  | 12  | 0.13  | 96    | VOL |     | 3    | 03C | 0.13   |           |          | 03C  | 03C |

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 28  | 13  | 0.91  | 135   | PCT | 11  | P1   | 02C | -0.09  |           |          | TEH  | TEC |
| 28  | 14  | 0.70  | 121   | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 28  | 15  | 0.53  | 41    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 28  | 17  | 0.86  | 49    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 28  | 17  | 0.56  | 34    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 28  | 21  | 1.17  | 89    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 28  | 21  | 1.34  | 93    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 28  | 21  | 1.12  | 118   | DSI |     | P1   | 03H | -0.06  |           |          | TEH  | TEC |
| 28  | 21  | 0.41  | 119   | SAI |     | 3    | 02H | 0.14   | 0.28      |          | 02H  | 02H |
| 28  | 27  | 0.71  | 58    | DSI |     | P1   | 01H | -0.11  |           |          | TEH  | TEC |
| 28  | 28  | 0.59  | 139   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 28  | 32  | 0.84  | 40    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 28  | 32  | 0.57  | 123   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 28  | 34  | 0.25  | 54    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 28  | 36  | 0.50  | 78    | DSI |     | P1   | 01H | -0.06  |           |          | STH  | TEC |
| 28  | 36  | 0.80  | 114   | DSI |     | P1   | 02H | 0.00   |           |          | STH  | TEC |
| 28  | 40  | 0.45  | 75    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 28  | 41  | 1.03  | 95    | DSI |     | P1   | 01H | 0.16   |           |          | TEH  | TEC |
| 28  | 41  | 1.25  | 108   | DSI |     | P1   | 02H | -0.24  |           |          | TEH  | TEC |
| 28  | 43  | 0.86  | 66    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 28  | 44  | 0.37  | 91    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 28  | 45  | 0.79  | 59    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 28  | 45  | 0.36  | 126   | SAI |     | 3    | 01H | 0.09   | 0.58      |          | 01H  | 01H |
| 28  | 46  | 1.03  | 119   | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 28  | 46  | 0.74  | 96    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 28  | 48  | 1.04  | 44    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 28  | 48  | 0.27  | 114   | MAI |     | 3    | 01H | 0.17   | 0.60      |          | 01H  | 01H |
| 28  | 54  | 0.43  | 95    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 28  | 56  | 0.54  | 102   | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 28  | 57  | 1.06  | 42    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 28  | 57  | 0.13  | 138   | MAI |     | 3    | 02H | 0.00   | 0.31      |          | 02H  | 02H |
| 28  | 59  | 2.06  | 107   | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 28  | 59  | 0.65  | 108   | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 28  | 59  | 0.52  | 121   | MAI |     | 3    | 01H | 0.09   | 0.55      |          | 01H  | 01H |
| 28  | 60  | 0.45  | 61    | DSI |     | P1   | 03H | 0.03   |           |          | 1SH  | TEC |
| 28  | 61  | 0.56  | 37    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 28  | 62  | 0.21  | 73    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 28  | 63  | 0.98  | 84    | DSI |     | P1   | 01H | 0.09   |           |          | TEH  | TEC |
| 28  | 63  | 0.39  | 107   | DSI |     | P1   | 02H | -0.09  |           |          | TEH  | TEC |
| 28  | 67  | 0.50  | 50    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 28  | 68  | 0.72  | 45    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 28  | 69  | 0.75  | 57    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 28  | 70  | 1.56  | 102   | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 28  | 70  | 2.71  | 112   | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 28  | 70  | 0.80  | 110   | DSI |     | P1   | 03H | 0.19   |           |          | TEH  | TEC |
| 28  | 70  | 0.42  | 92    | MAI |     | 3    | 02H | 0.02   | 0.74      |          | 02H  | 02H |
| 28  | 70  | 0.45  | 121   | MAI |     | 3    | 01H | 0.00   | 0.60      |          | 01H  | 01H |
| 28  | 71  | 0.53  | 95    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 28  | 71  | 0.91  | 42    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 28  | 71  | 0.69  | 61    | DSI |     | P1   | 03H | 0.05   |           |          | TEH  | TEC |
| 28  | 72  | 0.72  | 52    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |



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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 28  | 75  | 0.69  | 22    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 28  | 78  | 0.25  | 62    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 28  | 79  | 0.68  | 104   | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 28  | 83  | 0.45  | 78    | DSI |     | P1   | 04H | -0.03  |           |          | TEH  | TEC |
| 28  | 84  | 0.43  | 128   | PCT | 19  | P1   | 01C | -0.19  |           |          | TEH  | TEC |
| 28  | 84  | 0.07  | 92    | VOL |     | 3    | 01C | -0.18  |           |          | 01C  | 01C |
| 28  | 85  | 0.28  | 0     | PCT | 15  | 3    | 01C | 0.08   |           |          | 01C  | 01C |
| 28  | 85  | 0.33  | 58    | VOL |     | 3    | 01C | 0.08   |           |          | 01C  | 01C |
| 29  | 14  | 0.75  | 125   | PCT | 23  | P1   | 01C | -0.30  |           |          | TEH  | TEC |
| 29  | 15  | 1.14  | 123   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 29  | 15  | 0.32  | 49    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 29  | 21  | 1.10  | 67    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TSC |
| 29  | 21  | 1.13  | 69    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TSC |
| 29  | 21  | 0.70  | 61    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TSC |
| 29  | 21  | 1.00  | 71    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 29  | 21  | 0.96  | 70    | DSI |     | P1   | 02H | 0.14   |           |          | TEH  | TEC |
| 29  | 21  | 0.62  | 63    | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 29  | 23  | 1.01  | 61    | DSI |     | P1   | 01H | 0.09   |           |          | TEH  | TEC |
| 29  | 23  | 1.03  | 77    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 29  | 28  | 0.51  | 22    | DSI |     | P1   | 02H | 0.14   |           |          | TEH  | TEC |
| 29  | 28  | 0.98  | 43    | DSI |     | P1   | 03H | -0.06  |           |          | TEH  | TEC |
| 29  | 28  | 0.16  | 108   | SAI |     | 3    | 02H | 0.11   | 0.10      |          | 02H  | 02H |
| 29  | 28  | 0.22  | 117   | SAI |     | 3    | 02H | 0.00   | 0.48      |          | 02H  | 02H |
| 29  | 28  | 0.38  | 107   | SAI |     | 3    | 03H | -0.17  | 0.29      |          | 03H  | 03H |
| 29  | 34  | 2.03  | 52    | PCT | 26  | P2   | AV4 | 0.09   |           |          | TEH  | TEC |
| 29  | 36  | 0.73  | 48    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 29  | 36  | 1.58  | 26    | DSI |     | P1   | 02H | -0.06  |           |          | TEH  | TEC |
| 29  | 36  | 0.14  | 123   | SAI |     | 3    | 02H | -0.05  | 0.39      |          | 02H  | 02H |
| 29  | 40  | 0.12  | 124   | SAI |     | 3    | TSH | 0.23   | 0.11      |          | TSH  | TSH |
| 29  | 41  | 1.19  | 34    | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 29  | 43  | 1.27  | 49    | PCT | 20  | P2   | AV4 | 0.28   |           |          | TEH  | TEC |
| 29  | 44  | 1.37  | 79    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 29  | 44  | 0.54  | 116   | MAI |     | 3    | 01H | -0.02  | 0.48      |          | 01H  | 01H |
| 29  | 46  | 0.99  | 41    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 29  | 46  | 0.34  | 118   | MAI |     | 3    | 01H | 0.00   | 0.45      |          | 01H  | 01H |
| 29  | 47  | 0.74  | 41    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 29  | 47  | 0.55  | 11    | DSI |     | P1   | 04H | 0.03   |           |          | TEH  | TEC |
| 29  | 50  | 0.65  | 54    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 29  | 51  | 0.81  | 64    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 29  | 52  | 0.61  | 61    | DSI |     | P1   | 02H | -0.11  |           |          | TSH  | TEC |
| 29  | 52  | 0.55  | 87    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 29  | 54  | 0.45  | 32    | DSI |     | P1   | 01H | -0.05  |           |          | TSH  | TEC |
| 29  | 54  | 0.42  | 67    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 29  | 59  | 1.60  | 101   | DSI |     | P1   | 01H | 0.20   |           |          | TEH  | TEC |
| 29  | 59  | 1.27  | 98    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 29  | 59  | 0.51  | 111   | SAI |     | 3    | 01H | 0.03   |           |          | 01H  | 01H |
| 29  | 59  | 0.44  | 113   | MAI |     | 3    | 02H | 0.07   | 0.60      |          | 02H  | 02H |
| 29  | 60  | 0.99  | 61    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 29  | 60  | 2.62  | 0     | PCT | 33  | P2   | AV2 | 0.00   |           |          | TEH  | TEC |
| 29  | 60  | 3.29  | 0     | PCT | 36  | P2   | AV3 | 0.00   |           |          | TEH  | TEC |
| 29  | 60  | 1.35  | 0     | PCT | 24  | P2   | AV4 | 0.00   |           |          | TEH  | TEC |

**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 29  | 61  | 0.88  | 70    | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 29  | 61  | 0.44  | 92    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 29  | 62  | 0.34  | 111   | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 29  | 62  | 0.47  | 145   | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 29  | 63  | 0.82  | 85    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 29  | 63  | 1.50  | 87    | DSI |     | P1   | 02H | -0.14  |           |          | TEH  | TEC |
| 29  | 63  | 0.41  | 122   | MAI |     | 3    | 02H | -0.01  | 0.68      |          | 02H  | 02H |
| 29  | 64  | 0.78  | 51    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 29  | 67  | 0.73  | 51    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 29  | 69  | 0.43  | 121   | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 29  | 84  | 0.67  | 136   | PCT | 9   | P1   | 03C | -0.09  |           |          | TEH  | TEC |
| 30  | 13  | 0.57  | 0     | PCT | 34  | 3    | 02C | 0.00   |           |          | 02C  | 02C |
| 30  | 13  | 0.60  | 69    | VOL |     | 3    | 02C | 0.00   |           |          | 02C  | 02C |
| 30  | 14  | 1.12  | 121   | PCT | 29  | P1   | 01C | -0.28  |           |          | TEH  | TEC |
| 30  | 14  | 0.44  | 124   | VOL |     | P1   | 01C | -0.18  |           |          | 01C  | 01C |
| 30  | 15  | 0.89  | 130   | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 30  | 15  | 15.70 | 332   | PSI |     | 8    | 07C | 0.00   |           |          | TEH  | TEC |
| 30  | 15  | 0.82  | 155   | CSI |     | 9    | 07C | 0.00   |           | 90       | 07C  | 07C |
| 30  | 16  | 0.91  | 36    | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 30  | 16  | 0.64  | 0     | PCT | 36  | 3    | 01C | 0.09   |           |          | 01C  | 01C |
| 30  | 16  | 0.93  | 43    | VOL |     | 3    | 01C | 0.09   |           |          | 01C  | 01C |
| 30  | 19  | 0.94  | 35    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 30  | 19  | 0.11  | 132   | MAI |     | 3    | 01H | 0.02   | 0.45      |          | 01H  | 01H |
| 30  | 22  | 0.60  | 120   | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 30  | 24  | 0.47  | 84    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 30  | 24  | 1.17  | 67    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 30  | 29  | 1.00  | 61    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 30  | 29  | 0.64  | 157   | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 30  | 29  | 0.22  | 143   | SAI |     | 3    | 03H | -0.07  | 0.35      |          | 03H  | 03H |
| 30  | 32  | 0.59  | 76    | DSI |     | P1   | 02H | 0.34   |           |          | TEH  | TEC |
| 30  | 33  | 0.92  | 61    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 30  | 34  | 0.46  | 30    | FSI |     | 1    | 05H | 14.01  |           |          | TEH  | TEC |
| 30  | 35  | 0.71  | 140   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 30  | 37  | 0.25  | 40    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 30  | 38  | 0.38  | 75    | DSI |     | P1   | 02H | 0.23   |           |          | TEH  | TEC |
| 30  | 42  | 0.92  | 51    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 30  | 45  | 1.06  | 85    | DSI |     | P1   | 02H | 0.22   |           |          | TEH  | TEC |
| 30  | 48  | 0.54  | 75    | DSI |     | P1   | 01H | 0.17   |           |          | TEH  | TEC |
| 30  | 51  | 0.82  | 39    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 30  | 53  | 1.17  | 0     | PCT | 18  | P2   | AV1 | 0.00   |           |          | TEH  | TEC |
| 30  | 53  | 2.19  | 0     | PCT | 27  | P2   | AV2 | 0.00   |           |          | TEH  | TEC |
| 30  | 55  | 1.00  | 70    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 30  | 61  | 0.65  | 41    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 30  | 70  | 0.27  | 94    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 30  | 74  | 0.64  | 59    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 30  | 75  | 0.95  | 63    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 30  | 75  | 0.44  | 50    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 30  | 81  | 0.66  | 140   | PCT | 0   | P1   | 03C | -0.11  |           |          | TEH  | TEC |
| 31  | 20  | 1.17  | 46    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 31  | 22  | 0.45  | 49    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 31  | 30  | 0.62  | 62    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |

**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 31  | 32  | 0.54  | 96    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 31  | 35  | 1.03  | 0     | PCT | 16  | P2   | AV2 | 0.32   |           |          | TEH  | TEC |
| 31  | 35  | 1.09  | 0     | PCT | 17  | P2   | AV4 | -0.08  |           |          | TEH  | TEC |
| 31  | 36  | 0.67  | 84    | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 31  | 38  | 0.26  | 89    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 31  | 38  | 0.18  | 113   | SAI |     | 3    | 01H | -0.05  | 0.42      |          | 01H  | 01H |
| 31  | 39  | 1.27  | 77    | DSI |     | P1   | 02H | 0.08   |           |          | TSH  | TEC |
| 31  | 39  | 1.32  | 86    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 31  | 39  | 0.52  | 113   | MAI |     | 3    | 02H | -0.16  | 0.61      |          | 02H  | 02H |
| 31  | 41  | 0.62  | 21    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 31  | 41  | 0.56  | 60    | DSI |     | P1   | 02H | -0.11  |           |          | TEH  | TEC |
| 31  | 42  | 1.50  | 91    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 31  | 42  | 0.74  | 83    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 31  | 42  | 0.41  | 108   | MAI |     | 3    | 01H | 0.00   | 0.57      |          | 01H  | 01H |
| 31  | 44  | 0.43  | 72    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 31  | 50  | 0.53  | 42    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 31  | 52  | 0.40  | 116   | DSI |     | P1   | 01H | 0.19   |           |          | TSH  | TEC |
| 31  | 52  | 0.79  | 60    | DSI |     | P1   | 02H | -0.08  |           |          | TSH  | TEC |
| 31  | 52  | 0.46  | 124   | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 31  | 52  | 0.71  | 70    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 31  | 54  | 0.39  | 101   | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 31  | 54  | 0.24  | 55    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 31  | 56  | 0.72  | 53    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 31  | 59  | 0.55  | 93    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 31  | 60  | 0.87  | 125   | DSI |     | P1   | 02H | -0.11  |           |          | TEH  | TEC |
| 31  | 60  | 0.19  | 47    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 31  | 62  | 1.78  | 97    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 31  | 62  | 1.40  | 102   | MAI |     | 3    | 01H | -0.01  | 0.73      |          | 01H  | 01H |
| 31  | 68  | 0.76  | 72    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 31  | 68  | 1.67  | 91    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 31  | 68  | 0.79  | 104   | MAI |     | 3    | 02H | -0.01  | 0.66      |          | 02H  | 02H |
| 31  | 69  | 1.35  | 0     | PCT | 20  | P2   | AV1 | 0.00   |           |          | TEH  | TEC |
| 31  | 70  | 0.75  | 60    | DSI |     | P1   | 01H | 0.33   |           |          | TEH  | TEC |
| 31  | 70  | 0.25  | 31    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 31  | 70  | 0.20  | 132   | MAI |     | 3    | 02H | -0.09  | 0.39      |          | 02H  | 02H |
| 31  | 70  | 0.14  | 121   | SVI |     | 3    | 01H | 0.27   | 0.27      | 83       | 01H  | 01H |
| 31  | 71  | 0.29  | 104   | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 31  | 72  | 0.79  | 104   | DSI |     | P1   | 01H | 0.17   |           |          | TEH  | TEC |
| 31  | 74  | 0.35  | 43    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 32  | 16  | 1.62  | 47    | VOL |     | 3    | 01C | 0.06   |           |          | 01C  | 01C |
| 32  | 22  | 0.74  | 90    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 32  | 24  | 0.40  | 69    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 32  | 24  | 0.50  | 51    | DSI |     | P1   | 02H | 0.17   |           |          | TEH  | TEC |
| 32  | 34  | 1.15  | 54    | DSI |     | P1   | 01H | 0.20   |           |          | TEH  | TEC |
| 32  | 34  | 0.35  | 75    | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 32  | 35  | 0.46  | 52    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 32  | 38  | 0.63  | 68    | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 32  | 38  | 0.57  | 38    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 32  | 40  | 0.70  | 30    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 32  | 45  | 0.96  | 76    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 32  | 46  | 0.32  | 5     | DSI |     | P1   | 02H | 0.16   |           |          | TEH  | TEC |

BEAVER VALLEY UNIT #1  
1R14 S/G EXAMINATION RESULTS

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 32  | 49  | 0.34  | 70    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 32  | 51  | 1.04  | 101   | DSI |     | P1   | 01H | -0.17  |           |          | TEH  | TEC |
| 32  | 52  | 0.45  | 93    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 32  | 54  | 1.13  | 88    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 32  | 61  | 0.52  | 38    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 32  | 62  | 0.36  | 82    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 32  | 62  | 0.57  | 42    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 32  | 65  | 0.30  | 62    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 33  | 17  | 0.55  | 141   | PCT | 0   | P1   | 03C | -0.06  |           |          | TEH  | TEC |
| 33  | 23  | 0.85  | 34    | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 33  | 27  | 0.61  | 51    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 33  | 28  | 0.26  | 119   | DSI |     | P1   | 01H | 0.17   |           |          | TEH  | TEC |
| 33  | 33  | 1.34  | 92    | DSI |     | P1   | 01H | 0.40   |           |          | TEH  | TEC |
| 33  | 33  | 0.77  | 20    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 33  | 33  | 0.21  | 128   | MAI |     | 3    | 02H | 0.06   | 0.47      |          | 02H  | 02H |
| 33  | 33  | 0.50  | 112   | MAI |     | 3    | 01H | 0.19   | 0.54      |          | 01H  | 01H |
| 33  | 36  | 0.31  | 66    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 33  | 37  | 0.43  | 69    | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 33  | 38  | 0.75  | 44    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 33  | 40  | 0.47  | 66    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 33  | 40  | 0.63  | 62    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 33  | 40  | 0.45  | 58    | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 33  | 43  | 15.30 | 162   | PSI |     | 8    | 01H | 0.00   |           |          | TEH  | TEC |
| 33  | 43  | 0.67  | 71    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 33  | 43  | 1.62  | 56    | PCT | 24  | P2   | AV1 | 0.00   |           |          | TEH  | TEC |
| 33  | 43  | 0.68  | 136   | PCT | 13  | P2   | AV2 | -0.08  |           |          | TEH  | TEC |
| 33  | 43  | 2.12  | 78    | PCT | 28  | P2   | AV3 | 0.03   |           |          | TEH  | TEC |
| 33  | 43  | 1.33  | 44    | PCT | 21  | P2   | AV4 | 0.06   |           |          | TEH  | TEC |
| 33  | 43  | 1.46  | 0     | PCT | 23  | P2   | AV1 | 0.00   |           |          | 07H  | TEC |
| 33  | 43  | 1.25  | 0     | PCT | 21  | P2   | AV2 | -0.13  |           |          | 07H  | TEC |
| 33  | 43  | 2.61  | 0     | PCT | 30  | P2   | AV3 | 0.00   |           |          | 07H  | TEC |
| 33  | 43  | 1.70  | 0     | PCT | 25  | P2   | AV4 | 0.00   |           |          | 07H  | TEC |
| 33  | 43  | 0.25  | 114   | SAI |     | 3    | 01H | -0.14  | 0.45      |          | 01H  | 01H |
| 33  | 43  | 0.71  | 80    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 33  | 43  | 1.31  | 0     | PCT | 24  | P2   | AV1 | 0.00   |           |          | TEH  | TEC |
| 33  | 43  | 1.06  | 0     | PCT | 22  | P2   | AV2 | 0.00   |           |          | TEH  | TEC |
| 33  | 43  | 2.34  | 0     | PCT | 31  | P2   | AV3 | 0.00   |           |          | TEH  | TEC |
| 33  | 43  | 1.20  | 0     | PCT | 23  | P2   | AV4 | 0.00   |           |          | TEH  | TEC |
| 33  | 50  | 0.48  | 133   | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 33  | 52  | 1.13  | 0     | PCT | 21  | P2   | AV4 | 0.00   |           |          | 07H  | TEC |
| 33  | 52  | 1.17  | 0     | PCT | 22  | P2   | AV4 | 0.00   |           |          | TEH  | TEC |
| 33  | 53  | 0.43  | 71    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 33  | 62  | 0.50  | 44    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 33  | 66  | 0.69  | 21    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 33  | 67  | 0.24  | 90    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 34  | 17  | 0.65  | 57    | VOL |     | 3    | 01C | 0.04   |           |          | 01C  | 01C |
| 34  | 17  | 0.55  | 0     | PCT | 33  | 3    | 01C | 0.04   |           |          | 01C  | 01C |
| 34  | 17  | 0.27  | 60    | VOL |     | 3    | 02C | 0.12   |           |          | 02C  | 02C |
| 34  | 17  | 0.23  | 0     | PCT | 10  | 3    | 02C | 0.12   |           |          | 02C  | 02C |
| 34  | 19  | 0.49  | 134   | PCT | 12  | P1   | 02C | -0.29  |           |          | TEH  | TEC |
| 34  | 20  | 0.66  | 87    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |

**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 34  | 20  | 0.47  | 77    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 34  | 26  | 0.20  | 33    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 34  | 26  | 0.93  | 55    | DSI |     | P1   | 02H | 0.20   |           |          | TEH  | TEC |
| 34  | 26  | 0.18  | 129   | SAI |     | 3    | 01H | 0.14   | 0.50      |          | 01H  | 01H |
| 34  | 27  | 0.81  | 54    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 34  | 27  | 1.03  | 53    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 34  | 28  | 0.52  | 83    | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 34  | 28  | 0.47  | 79    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 34  | 29  | 0.72  | 62    | DSI |     | P1   | 01H | 0.19   |           |          | TEH  | TEC |
| 34  | 29  | 1.13  | 48    | DSI |     | P1   | 02H | -0.13  |           |          | TEH  | TEC |
| 34  | 30  | 1.11  | 50    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 34  | 31  | 0.67  | 95    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 34  | 31  | 0.62  | 128   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 34  | 31  | 0.53  | 18    | DSI |     | P1   | 04H | -0.03  |           |          | TEH  | TEC |
| 34  | 31  | 0.09  | 141   | SAI |     | 3    | 04H | 0.02   | 0.25      |          | 04H  | 04H |
| 34  | 32  | 1.48  | 75    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 34  | 32  | 0.53  | 70    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 34  | 32  | 0.50  | 96    | MAI |     | 3    | 01H | 0.06   | 0.24      |          | 01H  | 01H |
| 34  | 33  | 1.02  | 40    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 34  | 33  | 0.29  | 116   | MAI |     | 3    | 01H | 0.00   | 0.56      |          | 01H  | 01H |
| 34  | 38  | 0.57  | 73    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 34  | 38  | 0.51  | 52    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 34  | 40  | 0.69  | 84    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 34  | 42  | 0.43  | 47    | DSI |     | P1   | 01H | -0.11  |           |          | TEH  | TEC |
| 34  | 42  | 0.33  | 42    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 34  | 44  | 0.25  | 107   | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 34  | 44  | 0.28  | 101   | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 34  | 46  | 0.33  | 87    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 34  | 50  | 0.69  | 84    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 34  | 51  | 0.47  | 73    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 34  | 53  | 0.71  | 77    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 34  | 58  | 1.18  | 66    | DSI |     | P1   | 02H | -0.11  |           |          | TEH  | TEC |
| 34  | 60  | 1.28  | 97    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 34  | 60  | 2.03  | 92    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 34  | 60  | 0.41  | 106   | DSI |     | P1   | 03H | 0.17   |           |          | TEH  | TEC |
| 34  | 60  | 0.59  | 120   | MAI |     | 3    | 02H | 0.03   | 0.71      |          | 02H  | 02H |
| 34  | 60  | 0.58  | 105   | MAI |     | 3    | 01H | -0.10  | 0.30      |          | 01H  | 01H |
| 34  | 61  | 0.58  | 34    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 34  | 61  | 0.88  | 83    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 34  | 63  | 0.79  | 125   | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 34  | 64  | 0.41  | 124   | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 34  | 64  | 1.08  | 39    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 34  | 64  | 0.09  | 139   | SAI |     | 3    | 02H | 0.12   | 0.27      |          | 02H  | 02H |
| 34  | 73  | 0.57  | 46    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 34  | 79  | 0.60  | 144   | PCT | 0   | P1   | 06C | 0.00   |           |          | TEH  | TEC |
| 35  | 17  | 1.12  | 126   | PCT | 25  | P1   | 02C | -0.17  |           |          | TEH  | TEC |
| 35  | 18  | 0.58  | 147   | PCT | 0   | P1   | 03C | -0.14  |           |          | TEH  | TEC |
| 35  | 18  | 0.35  | 0     | PCT | 22  | 3    | 02C | 0.18   |           |          | 02C  | 02C |
| 35  | 18  | 0.45  | 54    | VOL |     | 3    | 02C | -0.19  |           |          | 02C  | 02C |
| 35  | 18  | 0.44  | 54    | VOL |     | 3    | 02C | 0.18   |           |          | 02C  | 02C |
| 35  | 18  | 0.37  | 0     | PCT | 23  | 3    | 02C | -0.19  |           |          | 02C  | 02C |

**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 35  | 23  | 0.34  | 78    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 35  | 23  | 0.32  | 137   | SAI |     | 3    | 03H | 0.01   | 0.38      |          | 03H  | 03H |
| 35  | 24  | 0.58  | 72    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 35  | 24  | 0.47  | 89    | DSI |     | P1   | 02H | -0.11  |           |          | TEH  | TEC |
| 35  | 28  | 0.79  | 85    | DSI |     | P1   | 01H | -0.11  |           |          | TEH  | TEC |
| 35  | 28  | 0.48  | 124   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 35  | 28  | 1.36  | 72    | DSI |     | P1   | 03H | 0.17   |           |          | TEH  | TEC |
| 35  | 28  | 0.35  | 109   | SAI |     | 3    | 02H | 0.04   | 0.21      |          | 02H  | 02H |
| 35  | 28  | 0.19  | 97    | MAI |     | 3    | 03H | -0.15  | 0.60      |          | 03H  | 03H |
| 35  | 32  | 0.66  | 33    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 35  | 33  | 0.84  | 55    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 35  | 35  | 1.58  | 83    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 35  | 35  | 1.79  | 83    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 35  | 35  | 0.28  | 115   | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 35  | 35  | 1.23  | 87    | MAI |     | 3    | 01H | -0.22  | 0.71      |          | 01H  | 01H |
| 35  | 35  | 0.65  | 109   | MAI |     | 3    | 02H | 0.00   | 0.64      |          | 02H  | 02H |
| 35  | 53  | 0.32  | 51    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 35  | 54  | 0.27  | 60    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 35  | 62  | 0.46  | 56    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 35  | 66  | 0.31  | 125   | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 35  | 66  | 0.17  | 95    | SAI |     | 3    | 02H | 0.17   | 0.15      |          | 02H  | 02H |
| 35  | 68  | 1.07  | 34    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 35  | 68  | 0.15  | 85    | SVI |     | 3    | TSH | 0.05   | 0.12      | 47       | TSH  | TSH |
| 35  | 68  | 0.26  | 129   | MAI |     | 3    | 02H | 0.01   | 0.66      |          | 02H  | 02H |
| 35  | 70  | 0.63  | 90    | DSI |     | P1   | 01H | 0.25   |           |          | TEH  | TEC |
| 35  | 70  | 1.29  | 80    | DSI |     | P1   | 02H | 0.16   |           |          | TEH  | TEC |
| 35  | 70  | 1.14  | 89    | DSI |     | P1   | 03H | 0.08   |           |          | TEH  | TEC |
| 35  | 70  | 0.21  | 132   | MAI |     | 3    | 02H | -0.02  | 0.45      |          | 02H  | 02H |
| 35  | 71  | 1.05  | 87    | DSI |     | P1   | 02H | 0.17   |           |          | TEH  | TEC |
| 35  | 71  | 0.47  | 114   | DSI |     | P1   | 03H | 0.17   |           |          | TEH  | TEC |
| 35  | 72  | 1.32  | 29    | DSI |     | P1   | 03H | 0.09   |           |          | TEH  | TEC |
| 35  | 72  | 0.20  | 129   | MAI |     | 3    | 03H | 0.01   | 0.50      |          | 03H  | 03H |
| 35  | 77  | 0.66  | 142   | PCT | 0   | P1   | 01C | -0.08  |           |          | TEH  | TEC |
| 35  | 77  | 0.29  | 141   | PCT | 0   | P1   | 03C | 0.00   |           |          | TEH  | TEC |
| 35  | 77  | 0.43  | 146   | PCT | 0   | P1   | 04C | -0.05  |           |          | TEH  | TEC |
| 36  | 20  | 0.34  | 0     | PCT | 21  | 3    | 01C | 0.18   |           |          | 01C  | 01C |
| 36  | 20  | 0.35  | 79    | VOL |     | 3    | 01C | 0.18   |           |          | 01C  | 01C |
| 36  | 20  | 0.11  | 0     | PCT | 0   | 3    | 02C | -0.14  |           |          | 02C  | 02C |
| 36  | 20  | 0.12  | 66    | VOL |     | 3    | 02C | -0.14  |           |          | 02C  | 02C |
| 36  | 22  | 0.80  | 36    | VOL |     | 3    | 01C | -0.02  |           |          | 01C  | 01C |
| 36  | 22  | 0.52  | 0     | PCT | 31  | 3    | 01C | -0.02  |           |          | 01C  | 01C |
| 36  | 24  | 0.74  | 88    | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 36  | 24  | 1.39  | 45    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 36  | 24  | 0.82  | 42    | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 36  | 24  | 0.31  | 134   | DSI |     | P1   | 05H | 0.03   |           |          | TEH  | TEC |
| 36  | 24  | 0.41  | 118   | MAI |     | 3    | 02H | 0.03   | 0.27      |          | 02H  | 02H |
| 36  | 24  | 0.38  | 123   | MAI |     | 3    | 02H | 0.02   | 0.60      |          | 02H  | 02H |
| 36  | 30  | 0.64  | 44    | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 36  | 32  | 0.48  | 50    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 36  | 32  | 0.76  | 37    | DSI |     | P1   | 02H | 0.14   |           |          | TEH  | TEC |
| 36  | 34  | 0.35  | 62    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |

**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 36  | 35  | 0.80  | 94    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 36  | 36  | 0.61  | 91    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 36  | 36  | 1.25  | 110   | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 36  | 36  | 0.54  | 65    | DSI |     | P1   | 03H | -0.03  |           |          | TEH  | TEC |
| 36  | 39  | 0.96  | 35    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 36  | 39  | 0.16  | 101   | MAI |     | 3    | 03H | -0.08  | 0.44      |          | 03H  | 03H |
| 36  | 40  | 1.06  | 73    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 36  | 40  | 0.55  | 47    | DSI |     | P1   | 03H | -0.06  |           |          | TEH  | TEC |
| 36  | 41  | 0.36  | 98    | DSI |     | P1   | 02H | -0.11  |           |          | TEH  | TEC |
| 36  | 41  | 0.54  | 91    | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 36  | 42  | 0.30  | 84    | DSI |     | P1   | 02H | 0.25   |           |          | TEH  | TEC |
| 36  | 42  | 0.29  | 90    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 36  | 47  | 0.56  | 82    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 36  | 48  | 0.74  | 80    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 36  | 51  | 0.62  | 81    | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 36  | 51  | 0.34  | 123   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 36  | 52  | 0.62  | 76    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 36  | 52  | 0.96  | 73    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 36  | 53  | 0.75  | 69    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 36  | 53  | 0.56  | 90    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 36  | 54  | 0.60  | 101   | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 36  | 54  | 0.65  | 61    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 36  | 58  | 0.63  | 52    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 36  | 58  | 1.07  | 0     | PCT | 21  | P2   | AV4 | 0.00   |           |          | TEH  | TEC |
| 36  | 66  | 1.57  | 34    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 36  | 66  | 0.98  | 66    | DSI |     | P1   | 02H | 0.27   |           |          | TEH  | TEC |
| 36  | 66  | 0.99  | 65    | SAI |     | 3    | 01H | -0.07  | 0.65      |          | 01H  | 01H |
| 36  | 68  | 1.18  | 38    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 36  | 70  | 0.61  | 40    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 36  | 75  | 0.43  | 0     | PCT | 27  | 3    | 01C | -0.13  |           |          | 01C  | 01C |
| 36  | 75  | 0.49  | 60    | VOL |     | 3    | 01C | -0.13  |           |          | 01C  | 01C |
| 36  | 77  | 0.30  | 125   | PCT | 23  | P1   | 03C | -0.22  |           |          | TEH  | TEC |
| 37  | 19  | 1.06  | 123   | PCT | 26  | P1   | 02C | -0.25  |           |          | TEH  | TEC |
| 37  | 19  | 0.54  | 128   | PCT | 19  | P1   | 03C | 0.00   |           |          | TEH  | TEC |
| 37  | 22  | 0.79  | 89    | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 37  | 22  | 0.75  | 88    | DSI |     | P1   | 04H | 0.03   |           |          | TEH  | TEC |
| 37  | 22  | 0.08  | 122   | SAI |     | 3    | 03H | -0.20  | 0.23      |          | 03H  | 03H |
| 37  | 26  | 0.94  | 146   | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 37  | 26  | 0.80  | 102   | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 37  | 30  | 0.77  | 69    | DSI |     | P1   | 02H | 0.14   |           |          | TEH  | TEC |
| 37  | 31  | 0.68  | 56    | DSI |     | P1   | 01H | 0.16   |           |          | TEH  | TEC |
| 37  | 31  | 0.75  | 64    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 37  | 37  | 0.74  | 69    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 37  | 50  | 0.45  | 78    | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 37  | 57  | 0.42  | 43    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 37  | 63  | 1.70  | 103   | DSI |     | P1   | 02H | 0.17   |           |          | TEH  | TEC |
| 37  | 63  | 0.88  | 50    | DSI |     | P1   | 03H | -0.06  |           |          | TEH  | TEC |
| 37  | 63  | 0.82  | 105   | MAI |     | 3    | 02H | 0.08   | 0.59      |          | 02H  | 02H |
| 37  | 67  | 1.28  | 59    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 37  | 67  | 0.61  | 109   | MAI |     | 3    | 02H | 0.05   | 0.58      |          | 02H  | 02H |
| 37  | 69  | 0.36  | 60    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 37  | 69  | 0.71  | 64    | DSI |     | P1   | 02H | -0.06  |           |          | TEH  | TEC |
| 37  | 72  | 0.99  | 81    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 38  | 21  | 0.21  | 50    | VOL |     | 3    | 01C | 0.02   |           |          | 01C  | 01C |
| 38  | 21  | 0.18  | 0     | PCT | 4   | 3    | 01C | 0.02   |           |          | 01C  | 01C |
| 38  | 21  | 0.29  | 0     | PCT | 17  | 3    | 02C | -0.01  |           |          | 02C  | 02C |
| 38  | 21  | 0.37  | 52    | VOL |     | 3    | 02C | -0.01  |           |          | 02C  | 02C |
| 38  | 22  | 0.66  | 127   | PCT | 17  | P1   | 03C | -0.08  |           |          | TEH  | TEC |
| 38  | 23  | 0.57  | 142   | PCT | 0   | P1   | 01C | 0.03   |           |          | TEH  | TEC |
| 38  | 24  | 0.84  | 133   | PCT | 0   | P1   | 01C | -0.40  |           |          | TEH  | TEC |
| 38  | 25  | 0.47  | 124   | PCT | 28  | P1   | 01C | -0.06  |           |          | TEH  | TEC |
| 38  | 25  | 0.20  | 128   | VOL |     | P1   | 01C | 0.01   |           |          | 01C  | 01C |
| 38  | 30  | 0.82  | 75    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 38  | 38  | 0.63  | 56    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 38  | 40  | 0.98  | 68    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 38  | 50  | 0.58  | 98    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 38  | 50  | 0.83  | 123   | DSI |     | P1   | 02H | -0.14  |           |          | TEH  | TEC |
| 38  | 51  | 0.24  | 91    | DSI |     | P1   | 02H | -0.06  |           |          | TEH  | TEC |
| 38  | 53  | 1.63  | 101   | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 38  | 53  | 0.45  | 119   | MAI |     | 3    | 02H | 0.02   | 0.56      |          | 02H  | 02H |
| 38  | 55  | 0.38  | 129   | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 38  | 55  | 0.69  | 100   | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 38  | 55  | 0.22  | 105   | DSI |     | P1   | 03H | -0.08  |           |          | TEH  | TEC |
| 38  | 62  | 0.71  | 41    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 38  | 65  | 0.42  | 60    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 38  | 69  | 0.83  | 37    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 38  | 69  | 1.18  | 66    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 38  | 69  | 0.39  | 40    | DSI |     | P1   | 03H | 0.12   |           |          | TEH  | TEC |
| 38  | 70  | 0.59  | 68    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 38  | 70  | 0.89  | 97    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 38  | 74  | 1.35  | 75    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 38  | 74  | 0.48  | 119   | MAI |     | 3    | 01H | 0.00   | 0.47      |          | 01H  | 01H |
| 39  | 24  | 0.76  | 112   | PCT | 30  | P1   | 01C | -0.31  |           |          | TEH  | TEC |
| 39  | 24  | 1.55  | 118   | PCT | 20  | P1   | 02C | -0.11  |           |          | TEH  | TEC |
| 39  | 24  | 0.47  | 131   | VOL |     | P1   | 01C | -0.11  |           |          | 01C  | 01C |
| 39  | 24  | 0.69  | 117   | VOL |     | P1   | 02C | -0.05  |           |          | 02C  | 02C |
| 39  | 26  | 0.18  | 0     | PCT | 4   | 3    | 01C | -0.02  |           |          | 01C  | 01C |
| 39  | 26  | 0.29  | 37    | VOL |     | 3    | 01C | -0.02  |           |          | 01C  | 01C |
| 39  | 26  | 0.17  | 0     | PCT | 3   | 3    | 02C | 0.16   |           |          | 02C  | 02C |
| 39  | 26  | 0.24  | 43    | VOL |     | 3    | 02C | 0.16   |           |          | 02C  | 02C |
| 39  | 27  | 0.53  | 144   | PCT | 0   | P1   | 01C | -0.17  |           |          | TEH  | TEC |
| 39  | 27  | 0.35  | 60    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 39  | 27  | 17.50 | 325   | PSI |     | 8    | 07H | 0.00   |           |          | TEH  | TEC |
| 39  | 27  | 0.28  | 77    | CSI |     | 11   | 07H | 0.00   |           | 38       | 07H  | 07H |
| 39  | 28  | 0.40  | 77    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 39  | 28  | 1.39  | 63    | DSI |     | P1   | 03H | -0.17  |           |          | TEH  | TEC |
| 39  | 28  | 0.24  | 120   | MAI |     | 3    | 03H | -0.09  | 0.62      |          | 03H  | 03H |
| 39  | 30  | 0.60  | 52    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 39  | 30  | 0.53  | 62    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 39  | 33  | 0.68  | 99    | DSI |     | P1   | 03H | -0.08  |           |          | TEH  | TEC |
| 39  | 33  | 0.56  | 55    | DSI |     | P1   | 04H | 0.00   |           |          | TEH  | TEC |
| 39  | 38  | 1.00  | 74    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |



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**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 39  | 38  | 0.31  | 119   | DSI |     | P1   | 03H | 0.08   |           |          | TEH  | TEC |
| 39  | 39  | 1.15  | 40    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 39  | 39  | 0.24  | 136   | MAI |     | 3    | 02H | 0.07   | 0.57      |          | 02H  | 02H |
| 39  | 45  | 1.35  | 88    | DSI |     | P1   | 02H | 0.28   |           |          | TEH  | TEC |
| 39  | 45  | 0.10  | 102   | SAI |     | 3    | 02H | 0.00   | 0.25      |          | 02H  | 02H |
| 39  | 47  | 0.45  | 85    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 39  | 47  | 0.61  | 47    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 39  | 47  | 0.33  | 98    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 39  | 47  | 0.65  | 49    | DSI |     | P1   | 03H | -0.06  |           |          | TEH  | TEC |
| 39  | 50  | 1.03  | 66    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 39  | 51  | 0.60  | 77    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 39  | 51  | 1.49  | 90    | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 39  | 51  | 0.78  | 31    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 39  | 51  | 0.23  | 129   | MAI |     | 3    | 02H | -0.05  | 0.54      |          | 02H  | 02H |
| 39  | 55  | 21.35 | 131   | PSI |     | 8    | 06H | 0.00   |           |          | TEH  | TEC |
| 39  | 55  | 1.14  | 160   | CSI |     | 9    | 06H | 0.00   |           | 30       | 06H  | 06H |
| 39  | 57  | 0.78  | 46    | DSI |     | P1   | 02H | 0.14   |           |          | TEH  | TEC |
| 39  | 58  | 0.84  | 84    | DSI |     | P1   | 02H | -0.06  |           |          | TEH  | TEC |
| 39  | 59  | 0.33  | 64    | DSI |     | P1   | 01H | 0.17   |           |          | TEH  | TEC |
| 39  | 59  | 0.68  | 84    | DSI |     | P1   | 02H | -0.06  |           |          | TEH  | TEC |
| 39  | 59  | 0.37  | 42    | DSI |     | P1   | 03H | 0.09   |           |          | TEH  | TEC |
| 39  | 73  | 0.84  | 130   | PCT | 19  | P1   | 01C | -0.23  |           |          | TEH  | TEC |
| 40  | 24  | 0.70  | 132   | PCT | 0   | P1   | 01C | -0.26  |           |          | TEH  | TEC |
| 40  | 25  | 1.05  | 127   | PCT | 24  | P1   | 01C | -0.03  |           |          | TEH  | TEC |
| 40  | 25  | 0.70  | 126   | PCT | 25  | P1   | 02C | 0.06   |           |          | TEH  | TEC |
| 40  | 25  | 0.50  | 141   | PCT | 0   | P1   | 03C | 0.00   |           |          | TEH  | TEC |
| 40  | 27  | 1.72  | 125   | PCT | 27  | P1   | 02C | -0.14  |           |          | TEH  | TEC |
| 40  | 27  | 17.15 | 327   | PSI |     | 8    | 07H | 0.00   |           |          | TEH  | TEC |
| 40  | 27  | 0.27  | 72    | CSI |     | 11   | 07H | 0.00   |           | 38       | 07H  | 07H |
| 40  | 28  | 1.20  | 51    | VOL |     | 3    | 02C | -0.02  |           |          | 02C  | 02C |
| 40  | 54  | 0.74  | 38    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 40  | 56  | 0.40  | 60    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 40  | 56  | 16.87 | 148   | PSI |     | 8    | 06H | 0.00   |           |          | TEH  | TEC |
| 40  | 56  | 1.12  | 164   | CSI |     | 9    | 06H | 0.01   |           | 30       | 06H  | 06H |
| 40  | 58  | 0.72  | 40    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 40  | 60  | 0.15  | 62    | SVI |     | P1   | TSH | 0.06   | 0.20      | 25       | TSH  | TSH |
| 40  | 65  | 0.51  | 138   | PCT | 5   | P1   | 03C | -0.31  |           |          | TEH  | TEC |
| 40  | 65  | 0.26  | 126   | VOL |     | 3    | 03C | -0.19  |           |          | 03C  | 03C |
| 40  | 69  | 0.24  | 120   | PCT | 33  | P1   | 03C | -0.03  |           |          | TEH  | TEC |
| 40  | 69  | 0.10  | 130   | VOL |     | 3    | 03C | 0.12   |           |          | 03C  | 03C |
| 40  | 71  | 0.58  | 139   | PCT | 4   | P1   | 04C | -0.14  |           |          | TEH  | TEC |
| 41  | 27  | 0.57  | 131   | PCT | 17  | P1   | 01C | -0.06  |           |          | TEH  | TEC |
| 41  | 27  | 19.24 | 327   | PSI |     | 8    | 06H | 0.00   |           |          | TEH  | TEC |
| 41  | 27  | 18.41 | 144   | PSI |     | 8    | 07H | 0.00   |           |          | TEH  | TEC |
| 41  | 27  | 0.25  | 73    | CSI |     | 11   | 06H | 0.03   |           | 61       | 06H  | 06H |
| 41  | 27  | 0.30  | 78    | CSI |     | 11   | 07H | 0.03   |           | 46       | 07H  | 07H |
| 41  | 27  | 0.48  | 125   | VOL |     | P1   | 01C | 0.08   |           |          | 01C  | 01C |
| 41  | 29  | 0.40  | 124   | PCT | 28  | P1   | 03C | 0.00   |           |          | TEH  | TEC |
| 41  | 29  | 17.90 | 325   | PSI |     | 8    | 06H | 0.00   |           |          | TEH  | TEC |
| 41  | 29  | 0.21  | 71    | CSI |     | 11   | 06H | 0.01   |           | 38       | 06H  | 06H |
| 41  | 29  | 0.24  | 143   | VOL |     | P1   | 03C | 0.05   |           |          | 03C  | 03C |

**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 41  | 30  | 0.32  | 0     | PCT | 19  | 3    | 01C | -0.03  |           |          | 01C  | 01C |
| 41  | 30  | 0.34  | 67    | VOL |     | 3    | 01C | -0.03  |           |          | 01C  | 01C |
| 41  | 32  | 0.48  | 126   | PCT | 22  | P1   | 02C | -0.30  |           |          | TEH  | TEC |
| 41  | 37  | 16.97 | 346   | PSI |     | 8    | 07H | 0.00   |           |          | TEH  | TEC |
| 41  | 37  | 0.18  | 245   | CSI |     | 11   | 07H | 0.04   |           | 37       | 07H  | 07H |
| 41  | 39  | 18.60 | 142   | PSI |     | 8    | 07H | 0.00   |           |          | TEH  | TEC |
| 41  | 39  | 0.34  | 74    | CSI |     | 11   | 07H | 0.00   |           | 33       | 07H  | 07H |
| 41  | 40  | 15.01 | 164   | PSI |     | 8    | 01H | 0.00   |           |          | TEH  | TEC |
| 41  | 40  | 18.03 | 153   | PSI |     | 8    | 07H | 0.00   |           |          | TEH  | TEC |
| 41  | 40  | 0.26  | 77    | CSI |     | 11   | 07H | 0.00   |           | 33       | 07H  | 07H |
| 41  | 43  | 15.28 | 303   | PSI |     | 8    | 05H | 0.00   |           |          | TEH  | TEC |
| 41  | 54  | 16.30 | 161   | PSI |     | 8    | 07C | 0.00   |           |          | 07H  | TEC |
| 41  | 54  | 16.60 | 163   | PSI |     | 8    | 07C | 0.00   |           |          | TEH  | TEC |
| 41  | 55  | 17.48 | 159   | PSI |     | 8    | 05C | 0.00   |           |          | 07H  | TEC |
| 41  | 55  | 17.02 | 163   | PSI |     | 8    | 05C | 0.00   |           |          | TEH  | TEC |
| 41  | 58  | 0.78  | 56    | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 41  | 58  | 0.56  | 65    | DSI |     | P1   | 04H | 0.06   |           |          | TEH  | TEC |
| 41  | 58  | 17.95 | 326   | PSI |     | 8    | 06H | 0.00   |           |          | TEH  | TEC |
| 41  | 58  | 0.37  | 71    | CSI |     | 11   | 06H | -0.07  |           | 38       | 06H  | 06H |
| 41  | 65  | 0.87  | 137   | PCT | 7   | P1   | 01C | -0.28  |           |          | TEH  | TEC |
| 42  | 28  | 0.41  | 96    | VOL |     | 3    | 02C | 0.24   |           |          | 02C  | 02C |
| 42  | 28  | 0.40  | 0     | PCT | 25  | 3    | 02C | 0.24   |           |          | 02C  | 02C |
| 42  | 29  | 1.62  | 124   | PCT | 28  | P1   | 01C | 0.06   |           |          | TEH  | TEC |
| 42  | 29  | 3.08  | 114   | PCT | 41  | P1   | 02C | -0.23  |           |          | TEH  | TEC |
| 42  | 29  | 0.59  | 139   | PCT | 4   | P1   | 03C | -0.14  |           |          | TEH  | TEC |
| 42  | 29  | 0.58  | 103   | VOL |     | 3    | 02C | -0.19  |           |          | 02C  | 02C |
| 42  | 32  | 0.47  | 128   | PCT | 19  | P1   | 03C | -0.19  |           |          | TEH  | TEC |
| 42  | 32  | 0.65  | 78    | VOL |     | 3    | 02C | 0.10   |           |          | 02C  | 02C |
| 42  | 32  | 0.64  | 0     | PCT | 36  | 3    | 02C | 0.10   |           |          | 02C  | 02C |
| 42  | 32  | 0.21  | 149   | VOL |     | P1   | 03C | -0.09  |           |          | 03C  | 03C |
| 42  | 33  | 0.46  | 127   | PCT | 24  | P1   | 02C | 0.03   |           |          | TSH  | TEC |
| 42  | 33  | 0.43  | 123   | PCT | 24  | P1   | 02C | 0.03   |           |          | TEH  | TEC |
| 42  | 34  | 1.06  | 0     | PCT | 19  | P2   | AV3 | 0.03   |           |          | TEH  | TEC |
| 42  | 34  | 0.35  | 0     | PCT | 22  | 3    | 01C | -0.01  |           |          | 01C  | 01C |
| 42  | 34  | 0.40  | 60    | VOL |     | 3    | 01C | -0.01  |           |          | 01C  | 01C |
| 42  | 35  | 0.37  | 124   | PCT | 25  | P1   | 01C | -0.16  |           |          | TEH  | TEC |
| 42  | 35  | 0.17  | 131   | VOL |     | P1   | 01C | -0.09  |           |          | 01C  | 01C |
| 42  | 38  | 17.15 | 336   | PSI |     | 8    | 06H | 0.00   |           |          | TEH  | TEC |
| 42  | 38  | 0.25  | 72    | CSI |     | 11   | 06H | 0.01   |           | 37       | 06H  | 06H |
| 42  | 40  | 0.49  | 40    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 42  | 40  | 22.86 | 307   | PSI |     | 8    | 07H | 0.00   |           |          | TEH  | TEC |
| 42  | 40  | 0.33  | 250   | CSI |     | 11   | 07H | 0.00   |           | 37       | 07H  | 07H |
| 42  | 54  | 16.48 | 339   | PSI |     | 8    | 06H | 0.00   |           |          | TEH  | TEC |
| 42  | 54  | 0.84  | 164   | CSI |     | 9    | 06H | -0.08  |           | 30       | 06H  | 06H |
| 42  | 55  | 16.20 | 164   | PSI |     | 8    | 07C | 0.00   |           |          | TEH  | TEC |
| 42  | 57  | 0.57  | 135   | PCT | 11  | P1   | 01C | -0.20  |           |          | TEH  | TEC |
| 42  | 67  | 1.16  | 129   | PCT | 21  | P1   | 03C | -0.14  |           |          | TEH  | TEC |
| 43  | 30  | 1.11  | 130   | PCT | 16  | P1   | 03C | -0.14  |           |          | TEH  | TEC |
| 43  | 30  | 0.50  | 65    | DSI |     | P1   | 04H | 0.05   |           |          | TEH  | TEC |
| 43  | 30  | 0.23  | 114   | VOL |     | 3    | 01C | -0.08  |           |          | 01C  | 01C |
| 43  | 30  | 0.70  | 53    | VOL |     | 3    | 01C | -0.33  |           |          | 01C  | 01C |

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1R14 S/G EXAMINATION RESULTS

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 43  | 30  | 0.61  | 0     | PCT | 35  | 3    | 01C | -0.33  |           |          | 01C  | 01C |
| 43  | 30  | 0.23  | 0     | PCT | 10  | 3    | 01C | -0.08  |           |          | 01C  | 01C |
| 43  | 30  | 0.92  | 43    | VOL |     | 3    | 02C | 0.02   |           |          | 02C  | 02C |
| 43  | 30  | 0.63  | 0     | PCT | 36  | 3    | 02C | 0.02   |           |          | 02C  | 02C |
| 43  | 31  | 1.28  | 133   | PCT | 11  | P1   | 03C | -0.22  |           |          | TEH  | TEC |
| 43  | 31  | 0.21  | 0     | PCT | 9   | 3    | 02C | 0.11   |           |          | 02C  | 02C |
| 43  | 31  | 0.22  | 76    | PCT | 9   | 3    | 02C | 0.11   |           |          | 02C  | 02C |
| 43  | 33  | 1.29  | 124   | PCT | 28  | P1   | 02C | -0.28  |           |          | TEH  | TEC |
| 43  | 34  | 1.05  | 129   | PCT | 17  | P1   | 01C | 0.00   |           |          | TEH  | TEC |
| 43  | 34  | 0.55  | 133   | PCT | 11  | P1   | 03C | -0.03  |           |          | TEH  | TEC |
| 43  | 39  | 0.23  | 121   | PCT | 7   | P1   | 01C | -0.03  |           |          | TEH  | TEC |
| 43  | 39  | 0.61  | 126   | PCT | 0   | P1   | 02C | 0.16   |           |          | TEH  | TEC |
| 43  | 39  | 0.20  | 127   | VOL |     | P1   | 01C | 0.02   |           |          | 01C  | 01C |
| 43  | 45  | 0.52  | 143   | PCT | 0   | P1   | 02C | -0.11  |           |          | 07H  | TEC |
| 43  | 45  | 0.53  | 149   | PCT | 0   | P1   | 02C | -0.03  |           |          | TEH  | TEC |
| 43  | 47  | 0.18  | 150   | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 43  | 54  | 0.54  | 94    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 43  | 57  | 0.57  | 43    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 43  | 59  | 0.40  | 135   | PCT | 11  | P1   | 03C | -0.11  |           |          | TEH  | TEC |
| 44  | 33  | 2.10  | 114   | PCT | 38  | P1   | 01C | -0.11  |           |          | TEH  | TEC |
| 44  | 33  | 0.34  | 135   | PCT | 8   | P1   | 02C | 0.00   |           |          | TEH  | TEC |
| 44  | 33  | 1.17  | 127   | PCT | 20  | P1   | 03C | -0.19  |           |          | TEH  | TEC |
| 44  | 33  | 0.17  | 142   | VOL |     | P1   | 02C | 0.08   |           |          | 02C  | 02C |
| 44  | 37  | 0.95  | 139   | PCT | 4   | P1   | 02C | -0.09  |           |          | TEH  | TEC |
| 44  | 37  | 0.89  | 124   | PCT | 28  | P1   | 03C | -0.23  |           |          | TEH  | TEC |
| 44  | 37  | 0.36  | 151   | VOL |     | P1   | 02C | 0.00   |           |          | 02C  | 02C |
| 44  | 38  | 1.19  | 118   | PCT | 16  | P1   | 01C | -0.14  |           |          | TEH  | TEC |
| 44  | 38  | 0.41  | 122   | VOL |     | P1   | 01C | -0.17  |           |          | 01C  | 01C |
| 44  | 40  | 0.69  | 132   | PCT | 0   | P1   | 03C | -0.31  |           |          | TEH  | TEC |
| 44  | 40  | 0.35  | 32    | DSI |     | P1   | 05H | 0.03   |           |          | TEH  | TEC |
| 44  | 45  | 0.37  | 148   | PCT | 0   | P1   | 01C | 0.11   |           |          | 07H  | TEC |
| 44  | 50  | 0.87  | 141   | PCT | 0   | P1   | 06C | 0.16   |           |          | 07H  | TEC |
| 44  | 50  | 0.89  | 147   | PCT | 0   | P1   | 06C | 0.23   |           |          | TEH  | TEC |
| 44  | 53  | 0.50  | 120   | PCT | 30  | P1   | 01C | -0.22  |           |          | 07H  | TEC |
| 44  | 53  | 0.60  | 127   | PCT | 24  | P1   | 01C | -0.18  |           |          | TEH  | TEC |
| 44  | 59  | 0.62  | 120   | PCT | 30  | P1   | 03C | 0.11   |           |          | TEH  | TEC |
| 45  | 37  | 0.73  | 141   | PCT | 0   | P1   | 02C | -0.17  |           |          | TEH  | TEC |
| 45  | 37  | 0.81  | 133   | DSI |     | P1   | 02H | 0.25   |           |          | TEH  | TEC |
| 45  | 38  | 1.89  | 103   | PCT | 40  | P1   | 01C | 0.03   |           |          | TEH  | TEC |
| 45  | 38  | 1.02  | 129   | PCT | 0   | P1   | 03C | -0.26  |           |          | TEH  | TEC |
| 45  | 38  | 1.44  | 100   | VOL |     | P1   | 01C | 0.07   |           |          | 01C  | 01C |
| 45  | 39  | 0.68  | 121   | DSI |     | P1   | 01H | 0.31   |           |          | TEH  | TEC |
| 45  | 39  | 1.28  | 114   | PCT | 23  | P1   | 04C | 0.00   |           |          | TEH  | TEC |
| 45  | 39  | 0.26  | 55    | PCT | 14  | 3    | 01C | 0.13   |           |          | 01C  | 01C |
| 45  | 39  | 0.22  | 0     | PCT | 8   | 3    | 01C | 0.13   |           |          | 01C  | 01C |
| 45  | 39  | 0.48  | 125   | VOL |     | P1   | 04C | 0.05   |           |          | 04C  | 04C |
| 45  | 39  | 0.11  | 108   | SVI |     | 3    | 01H | 0.26   | 0.29      | 94       | 01H  | 01H |
| 45  | 40  | 0.50  | 132   | PCT | 0   | P1   | 01C | 0.28   |           |          | TSH  | TEC |
| 45  | 40  | 0.72  | 114   | DSI |     | P1   | 01H | 0.31   |           |          | TSH  | TEC |
| 45  | 40  | 0.65  | 113   | DSI |     | P1   | 01H | 0.27   |           |          | TEH  | TEC |
| 45  | 40  | 0.14  | 119   | SVI |     | 3    | 01H | 0.19   | 0.34      | 45       | 01H  | 01H |

**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 45  | 41  | 0.87  | 117   | PCT | 18  | P1   | 02C | -0.11  |           |          | TEH  | TEC |
| 45  | 41  | 0.31  | 137   | PCT | 0   | P1   | 03C | -0.28  |           |          | TEH  | TEC |
| 45  | 41  | 20.63 | 126   | PSI |     | 8    | 07H | 0.00   |           |          | TEH  | TEC |
| 45  | 41  | 1.66  | 0     | PCT | 23  | P2   | AV1 | 0.14   |           |          | TEH  | TEC |
| 45  | 41  | 0.84  | 128   | PCT | 19  | P1   | 02C | -0.11  |           |          | TEH  | TEC |
| 45  | 41  | 0.27  | 155   | PCT | 0   | P1   | 03C | -0.22  |           |          | TEH  | TEC |
| 45  | 41  | 21.32 | 126   | PSI |     | 8    | 07H | 0.00   |           |          | TEH  | TEC |
| 45  | 41  | 1.65  | 0     | PCT | 27  | P2   | AV1 | 0.00   |           |          | TEH  | TEC |
| 45  | 41  | 0.35  | 83    | CSI |     | 11   | 07H | 0.00   |           | 46       | 07H  | 07H |
| 45  | 42  | 20.56 | 128   | PSI |     | 8    | 07H | 0.00   |           |          | TEH  | TEC |
| 45  | 42  | 21.33 | 308   | PSI |     | 8    | 07H | 0.00   |           |          | TEH  | TEC |
| 45  | 42  | 0.30  | 253   | CSI |     | 11   | 07H | 0.00   |           | 83       | 07H  | 07H |
| 45  | 44  | 0.85  | 129   | PCT | 0   | P1   | 01C | 0.14   |           |          | TEH  | TEC |
| 45  | 44  | 0.75  | 134   | PCT | 1   | P1   | 01C | 0.19   |           |          | 07H  | TEC |
| 45  | 44  | 0.82  | 138   | PCT | 2   | P1   | 01C | 0.22   |           |          | TEH  | TEC |
| 45  | 45  | 0.13  | 74    | VOL |     | 3    | 01C | 0.01   |           |          | 01C  | 01C |
| 45  | 45  | 0.13  | 0     | PCT | 0   | 3    | 01C | 0.01   |           |          | 01C  | 01C |
| 45  | 45  | 0.51  | 0     | PCT | 31  | 3    | 02C | 0.09   |           |          | 02C  | 02C |
| 45  | 45  | 0.46  | 74    | VOL |     | 3    | 02C | 0.09   |           |          | 02C  | 02C |
| 45  | 48  | 0.55  | 140   | PCT | 0   | P1   | 03C | 0.00   |           |          | 07H  | TEC |
| 45  | 48  | 0.43  | 137   | PCT | 7   | P1   | 03C | 0.00   |           |          | TEH  | TEC |
| 45  | 50  | 0.34  | 122   | PCT | 22  | P1   | 01C | 0.11   |           |          | 07H  | TEC |
| 45  | 50  | 0.64  | 139   | PCT | 0   | P1   | 02C | -0.19  |           |          | 07H  | TEC |
| 45  | 50  | 0.45  | 126   | PCT | 21  | P1   | 01C | 0.11   |           |          | 05H  | TEC |
| 45  | 50  | 0.51  | 137   | PCT | 2   | P1   | 02C | -0.25  |           |          | 05H  | TEC |
| 45  | 50  | 0.49  | 131   | PCT | 14  | P1   | 01C | 0.11   |           |          | TEH  | TEC |
| 45  | 50  | 0.64  | 140   | PCT | 0   | P1   | 02C | -0.22  |           |          | TEH  | TEC |
| 45  | 50  | 0.29  | 139   | VOL |     | P1   | 01C | 0.15   |           |          | 01C  | 01C |
| 45  | 50  | 0.34  | 126   | VOL |     | P1   | 02C | -0.14  |           |          | 02C  | 02C |
| 45  | 52  | 0.87  | 144   | PCT | 0   | P1   | 03C | 0.08   |           |          | 07H  | TEC |
| 45  | 52  | 0.83  | 140   | PCT | 2   | P1   | 03C | 0.11   |           |          | TEH  | TEC |
| 45  | 52  | 0.61  | 139   | DSI |     | P1   | 03H | 0.14   |           |          | TEH  | TEC |
| 45  | 53  | 0.62  | 147   | PCT | 0   | P1   | 01C | -0.17  |           |          | 07H  | TEC |
| 45  | 53  | 0.50  | 144   | PCT | 0   | P1   | 01C | -0.14  |           |          | TEH  | TEC |
| 45  | 53  | 16.94 | 328   | PSI |     | 8    | 06H | 0.00   |           |          | TEH  | TEC |
| 45  | 53  | 0.56  | 144   | CSI |     | 9    | 06H | -0.01  |           | 121      | 06H  | 06H |
| 45  | 54  | 0.46  | 138   | DSI |     | P1   | 06H | 0.06   |           |          | TEH  | TEC |
| 46  | 41  | 0.42  | 109   | PCT | 32  | P1   | 02C | -0.14  |           |          | TSH  | TEC |
| 46  | 41  | 15.73 | 153   | PSI |     | 8    | 04C | 0.00   |           |          | TSH  | TEC |
| 46  | 41  | 17.33 | 152   | PSI |     | 8    | 05C | 0.00   |           |          | TSH  | TEC |
| 46  | 41  | 21.42 | 129   | PSI |     | 8    | 07H | 0.00   |           |          | TSH  | TEC |
| 46  | 41  | 0.55  | 120   | PCT | 32  | P1   | 02C | -0.14  |           |          | 04C  | TEC |
| 46  | 41  | 0.36  | 120   | PCT | 33  | P1   | 02C | -0.11  |           |          | TEH  | TEC |
| 46  | 41  | 16.87 | 152   | PSI |     | 8    | 04C | 0.00   |           |          | TEH  | TEC |
| 46  | 41  | 18.62 | 152   | PSI |     | 8    | 05C | 0.00   |           |          | TEH  | TEC |
| 46  | 41  | 22.16 | 309   | PSI |     | 8    | 07H | 0.00   |           |          | TEH  | TEC |
| 46  | 41  | 1.21  | 154   | CSI |     | 9    | 04C | 0.00   |           | 90       | 04C  | 04C |
| 46  | 41  | 1.07  | 160   | CSI |     | 9    | 05C | 0.00   |           | 90       | 05C  | 05C |
| 46  | 41  | 0.84  | 156   | CSI |     | 9    | 07H | 0.23   |           | 46       | 07H  | 07H |
| 46  | 42  | 3.54  | 109   | PCT | 32  | P1   | 02C | -0.20  |           |          | TEH  | TEC |
| 46  | 42  | 21.50 | 129   | PSI |     | 8    | 07H | 0.00   |           |          | TEH  | TEC |

BEAVER VALLEY UNIT #1  
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**1RC-E-1A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 46  | 42  | 3.65  | 118   | PCT | 36  | P1   | 02C | -0.17  |           |          | TEH  | TEC |
| 46  | 42  | 22.30 | 129   | PSI |     | 8    | 07H | 0.00   |           |          | TEH  | TEC |
| 46  | 42  | 1.32  | 149   | CSI |     | 9    | 07H | -0.02  |           | 109      | 07H  | 07H |
| 46  | 42  | 0.96  | 114   | VOL |     | P1   | 02C | -0.07  |           |          | 02C  | 02C |
| 46  | 50  | 0.52  | 120   | PCT | 25  | P1   | 03C | -0.20  |           |          | 07H  | TEC |
| 46  | 50  | 0.49  | 124   | PCT | 28  | P1   | 03C | -0.08  |           |          | TEH  | TEC |
| 46  | 54  | 16.64 | 165   | PSI |     | 8    | 02C | 0.00   |           |          | TEH  | TEC |

# **ATTACHMENT 1A**

BEAVER VALLEY UNIT #1  
1R14 S/G EXAMINATION RESULTS  
**1RC-E-1A**  
TUBES REPAIRED VIA PLUGGING

BEAVER VALLEY UNIT #1  
1R14 S/G EXAMINATION RESULTS

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**1RC-E-1A**

(TUBES REPAIRED VIA PLUGGING)

| Row  | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|--|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 1  | 21  | 0.07  | 94    | SAI |     | 3    | TSH | 0.48   | 0.15      |          | TSH  | TSH |
| 1  | 22  | 0.09  | 104   | SAI |     | 3    | TSH | 0.31   | 0.15      |          | TSH  | TSH |
| 1  | 23  | 5.95  | 26    | SCI |     | P2   | 07H | 9.24   |           | 50       | 07C  | 07H |
| 1  | 23  | 4.21  | 47    | SCI |     | P2   | 07H | 9.53   |           | 68       | 07C  | 07H |
| 1  | 86  | 0.49  | 72    | WAR |     | 5    | TSC | 21.97  |           |          | 07C  | TEC |
| 2  | 20  | 1.64  | 12    | SAI |     | 3    | TSH | -1.29  | 0.18      |          | TSH  | TSH |
| 2  | 28  | 0.87  | 9     | SAI |     | 3    | TSH | -1.70  | 0.18      |          | TSH  | TSH |
| 2  | 48  | }     |       |     |     |      |     |        |           |          |      |     |
| 2  | 57  |       |       |     |     |      |     |        |           |          |      |     |
| 3  | 20  |       |       |     |     |      |     |        |           |          |      |     |
| 3  | 21  |       |       |     |     |      |     |        |           |          |      |     |
| 3  | 50  |       |       |     |     |      |     |        |           |          |      |     |
| 3  | 56  |       |       |     |     |      |     |        |           |          |      |     |
| THESE SIX TUBES WERE ADMINISTRATIVELY PLUGGED.<br>THEY CONTAINED TSP'S THAT REQUIRED RPC TESTING<br>BUT THE RPC PROBE COULD NOT GET PAST<br>THE TUBESHEET SLEEVES. |     |       |       |     |     |      |     |        |           |          |      |     |
| 4  | 21  | 0.06  | 97    | SAI |     | 3    | TSH | 0.48   | 0.23      |          | TSH  | TSH |
| 4  | 22  | 0.20  | 107   | SAI |     | 3    | TSH | 0.29   | 0.20      |          | TSH  | TSH |
| 4  | 24  | 0.08  | 126   | SAI |     | 3    | TSH | 0.22   | 0.15      |          | TSH  | TSH |
| 4  | 25  | 0.15  | 119   | SAI |     | 3    | TSH | 0.26   | 0.26      |          | TSH  | TSH |
| 4  | 51  | 0.28  | 29    | SAI |     | 3    | TSH | -0.19  | 0.19      |          | TSH  | TSH |
| 5  | 15  | 0.88  | 6     | SAI |     | 3    | TSH | -2.00  | 0.21      |          | TSH  | TSH |
| 5  | 18  | 0.12  | 73    | SAI |     | 3    | TSH | 0.20   | 0.46      |          | TSH  | TSH |
| 5  | 20  | 0.17  | 122   | SAI |     | 3    | TSH | 0.38   | 0.30      |          | TSH  | TSH |
| 5  | 22  | 0.07  | 114   | SAI |     | 3    | TSH | 0.38   | 0.15      |          | TSH  | TSH |
| 5  | 45  | 0.13  | 131   | SAI |     | 3    | TSH | 0.09   | 0.22      |          | TSH  | TSH |
| 5  | 55  | 2.01  | 11    | SAI |     | 3    | TSH | -2.35  | 0.19      |          | TSH  | TSH |
| 6  | 18  | 0.14  | 121   | SAI |     | 3    | TSH | 0.17   | 0.13      |          | TSH  | TSH |
| 6  | 19  | 1.27  | 29    | NQI |     | 3    | TSH | 0.27   |           |          | TSH  | TSH |
| 6  | 77  | 0.14  | 91    | SAI |     | 3    | TSH | 0.07   | 0.10      |          | TSH  | TSH |
| 7  | 59  | 1.98  | 12    | SAI |     | 3    | TSH | -1.86  | 0.20      |          | TSH  | TSH |
| 7  | 69  | 0.24  | 115   | SAI |     | 3    | TSH | 0.06   | 0.17      |          | TSH  | TSH |
| 8  | 51  | 0.14  | 76    | SAI |     | 3    | TSH | -0.39  | 0.12      |          | TSH  | TSH |
| 8  | 54  | 0.14  | 126   | SAI |     | 3    | TSH | 0.04   | 0.16      |          | TSH  | TSH |
| 9  | 23  | 0.20  | 97    | SAI |     | 3    | TSH | 0.11   | 0.18      |          | TSH  | TSH |
| 9  | 48  | 0.11  | 136   | SAI |     | 3    | TSH | 0.62   | 0.20      |          | TSH  | TSH |
| 10   | 24  | 0.12  | 125   | SAI |     | 3    | TSH | 0.33   | 0.18      |          | TSH  | TSH |
| 10   | 50  | 0.15  | 102   | SAI |     | 3    | TSH | 0.55   | 0.27      |          | TSH  | TSH |
| 10   | 53  | 0.51  | 30    | SAI |     | 3    | TSH | -0.35  | 0.19      |          | TSH  | TSH |
| 10   | 54  | 0.16  | 88    | SAI |     | 3    | TSH | 0.09   | 0.16      |          | TSH  | TSH |
| 11   | 51  | 0.03  | 132   | SAI |     | 3    | TSH | 0.82   | 0.18      |          | TSH  | TSH |
| 12   | 15  | 2.13  | 72    | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 12   | 15  | 0.37  | 104   | MAI |     | 3    | 01H | 0.03   | 0.72      |          | 01H  | 01H |
| 12   | 22  | 0.23  | 87    | SAI |     | 3    | TSH | 0.10   | 0.20      |          | TSH  | TSH |
| 12   | 26  | 0.10  | 108   | SAI |     | 3    | TSH | 0.34   | 0.10      |          | TSH  | TSH |
| 12   | 26  | 0.06  | 99    | SAI |     | 3    | TSH | 0.80   | 0.21      |          | TSH  | TSH |
| 12   | 43  | 0.09  | 112   | SAI |     | 3    | TSH | 2.26   | 0.15      |          | TSH  | TSH |
| 13   | 39  | 0.15  | 100   | MAI |     | 3    | TSH | 1.96   | 0.89      |          | TSH  | TSH |
| 13   | 44  | 0.10  | 125   | SAI |     | 3    | TSH | 2.31   | 0.72      |          | TSH  | TSH |
| 13   | 48  | 0.14  | 128   | SAI |     | 3    | TSH | 0.90   | 0.20      |          | TSH  | TSH |
| 13   | 51  | 0.33  | 59    | NQI |     | P1   | TSH | 0.55   |           |          | TEH  | TEC |
| 13   | 52  | 0.10  | 112   | SAI |     | 3    | TSH | 0.30   | 0.19      |          | TSH  | TSH |
| 14   | 5   | 0.87  | 65    | VOL |     | 3    | 01C | -0.06  |           |          | 01C  | 01C |
| 14   | 44  | 0.13  | 124   | SAI |     | 3    | TSH | 0.66   | 0.15      |          | TSH  | TSH |

BEAVER VALLEY UNIT #1  
1R14 S/G EXAMINATION RESULTS

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**1RC-E-1A**

(TUBES REPAIRED VIA PLUGGING)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 14  | 54  | 0.11  | 90    | SAI |     | 3    | TSH | 0.42   | 0.16      |          | TSH  | TSH |
| 16  | 7   | 0.13  | 123   | SVI |     | 3    | TSC | 0.05   | 0.35      | 73       | TSC  | TSC |
| 16  | 8   | 0.24  | 137   | SVI |     | 3    | TSC | 0.04   | 0.28      | 59       | TSC  | TSC |
| 16  | 9   | 0.38  | 109   | SVI |     | 3    | TSC | 0.11   | 0.34      | 90       | TSC  | TSC |
| 16  | 30  | 0.17  | 117   | SAI |     | 3    | TSH | 0.36   | 0.23      |          | TSH  | TSH |
| 17  | 4   | 0.24  | 136   | SVI |     | 3    | TSC | 0.05   | 0.27      | 54       | TSC  | TSC |
| 18  | 23  | 2.45  | 5     | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 18  | 23  | 0.17  | 110   | SAI |     | 3    | 03H | 0.05   | 0.28      |          | 03H  | 03H |
| 20  | 43  | 0.16  | 110   | SAI |     | 3    | TSH | 0.19   | 0.14      |          | TSH  | TSH |
| 20  | 52  | 2.03  | 116   | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 20  | 52  | 0.59  | 120   | MAI |     | 3    | 01H | 0.00   | 0.72      |          | 01H  | 01H |
| 28  | 59  | 2.06  | 107   | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 28  | 59  | 0.52  | 121   | MAI |     | 3    | 01H | 0.09   | 0.55      |          | 01H  | 01H |
| 28  | 70  | 2.71  | 112   | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 28  | 70  | 0.42  | 92    | MAI |     | 3    | 02H | 0.02   | 0.74      |          | 02H  | 02H |
| 29  | 40  | 0.12  | 124   | SAI |     | 3    | TSH | 0.23   | 0.11      |          | TSH  | TSH |
| 31  | 70  | 0.14  | 121   | SVI |     | 3    | 01H | 0.27   | 0.27      | 83       | 01H  | 01H |
| 32  | 16  | 1.62  | 47    | VOL |     | 3    | 01C | 0.06   |           |          | 01C  | 01C |
| 34  | 60  | 2.03  | 92    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 34  | 60  | 0.59  | 120   | MAI |     | 3    | 02H | 0.03   | 0.71      |          | 02H  | 02H |
| 35  | 68  | 0.15  | 85    | SVI |     | 3    | TSH | 0.05   | 0.12      | 47       | TSH  | TSH |
| 40  | 28  | 1.20  | 51    | VOL |     | 3    | 02C | -0.02  |           |          | 02C  | 02C |
| 40  | 60  | 0.15  | 62    | SVI |     | P1   | TSH | 0.06   | 0.20      | 25       | TSH  | TSH |
| 42  | 29  | 3.08  | 114   | PCT | 41  | P1   | 02C | -0.23  |           |          | TEH  | TEC |
| 45  | 38  | 1.89  | 103   | PCT | 40  | P1   | 01C | 0.03   |           |          | TEH  | TEC |
| 45  | 39  | 0.11  | 108   | SVI |     | 3    | 01H | 0.26   | 0.29      | 94       | 01H  | 01H |
| 45  | 40  | 0.14  | 119   | SVI |     | 3    | 01H | 0.19   | 0.34      | 45       | 01H  | 01H |



# ATTACHMENT 2

BEAVER VALLEY UNIT #1  
1R14 S/G EXAMINATION RESULTS  
**1RC-E-1B**  
TUBES WITH INDICATIONS

BEAVER VALLEY UNIT #1  
1R14 S/G EXAMINATION RESULTS

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**1RC-E-1B**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 1   | 4   | 0.68  | 103   | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 1   | 4   | 0.84  | 73    | DSI |     | P1   | 02H | 0.03   |           |          | 07H  | TEH |
| 1   | 5   | 0.95  | 75    | DSI |     | P1   | 01H | 0.09   |           |          | 07H  | TEH |
| 1   | 6   | 0.32  | 103   | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 1   | 6   | 0.38  | 45    | DSI |     | P1   | 02H | 0.03   |           |          | 07H  | TEH |
| 1   | 10  | 0.70  | 63    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 1   | 10  | 0.29  | 89    | DSI |     | P1   | 06H | -0.06  |           |          | 07H  | TEH |
| 1   | 13  | 0.74  | 88    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 1   | 13  | 0.46  | 109   | DSI |     | P1   | 02H | -0.12  |           |          | 07H  | TEH |
| 1   | 14  | 0.69  | 83    | DSI |     | P1   | 02H | -0.06  |           |          | 07H  | TEH |
| 1   | 14  | 0.37  | 117   | DSI |     | P1   | 04H | 0.00   |           |          | 07H  | TEH |
| 1   | 14  | 0.30  | 73    | DSI |     | P1   | 05H | 0.09   |           |          | 07H  | TEH |
| 1   | 24  | 0.90  | 25    | SAI |     | 2    | 07H | 10.46  | 0.20      |          | 07H  | 07C |
| 1   | 24  | 0.94  | 15    | SAI |     | 2    | 07H | 10.35  | 0.21      |          | 07C  | 07H |
| 1   | 24  | 0.29  | 81    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 1   | 27  | 0.54  | 97    | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 1   | 28  | 0.97  | 96    | WAR |     | 5    | TSH | 23.36  |           |          | 07H  | TEH |
| 1   | 33  | 0.52  | 90    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 1   | 33  | 0.43  | 47    | DSI |     | P1   | 02H | 0.03   |           |          | 07H  | TEH |
| 1   | 48  | 0.92  | 82    | DSI |     | P1   | 01H | 0.06   |           |          | 07H  | TEH |
| 1   | 49  | 0.85  | 77    | DSI |     | P1   | 02H | 0.06   |           |          | 07H  | TEH |
| 1   | 54  | 0.37  | 48    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 1   | 55  | 0.37  | 42    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 1   | 55  | 0.15  | 67    | DSI |     | P1   | 03H | 0.08   |           |          | 07H  | TEH |
| 1   | 60  | 0.50  | 56    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 1   | 62  | 0.44  | 119   | DSI |     | P1   | 01H | 0.09   |           |          | 07H  | TEH |
| 1   | 66  | 0.76  | 59    | DSI |     | P1   | 02H | -0.06  |           |          | 07H  | TEH |
| 1   | 67  | 0.40  | 48    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 1   | 67  | 3.26  | 76    | MBI |     | 6    | TSH | 23.14  |           |          | 07H  | TEH |
| 1   | 67  | 0.72  | 119   | SVI |     | 3    | TSH | 22.99  | 1.30      | 61       | TSH  | 01H |
| 1   | 68  | 0.99  | 67    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 1   | 68  | 0.63  | 60    | DSI |     | P1   | 03H | 0.00   |           |          | 07H  | TEH |
| 1   | 70  | 0.81  | 67    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 1   | 86  | 0.09  | 53    | FSI |     | 1    | TSH | 23.05  |           |          | 07H  | TEH |
| 1   | 86  | 0.17  | 39    | FSI |     | 1    | TSH | 23.00  |           |          | 07H  | TEH |
| 1   | 86  | 0.23  | 127   | SVI |     | 3    | TSH | 23.00  | 0.94      | 43       | TSH  | 01H |
| 1   | 92  | 0.63  | 23    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 1   | 92  | 0.53  | 16    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 2   | 5   | 0.43  | 48    | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 2   | 5   | 0.68  | 54    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 2   | 7   | 0.82  | 79    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 2   | 7   | 0.84  | 65    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 2   | 9   | 1.01  | 82    | DSI |     | P1   | 01H | -0.09  |           |          | 07H  | TEH |
| 2   | 9   | 1.21  | 81    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 2   | 9   | 1.21  | 54    | DSI |     | P1   | 04H | -0.03  |           |          | 07H  | TEH |
| 2   | 9   | 0.45  | 75    | DSI |     | P1   | 05H | -0.06  |           |          | 07H  | TEH |
| 2   | 9   | 0.33  | 102   | SAI |     | 3    | 02H | -0.03  | 0.28      |          | 02H  | 02H |
| 2   | 9   | 0.23  | 116   | SAI |     | 3    | 04H | -0.08  | 0.20      |          | 04H  | 04H |
| 2   | 11  | 0.72  | 67    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 2   | 11  | 1.18  | 87    | DSI |     | P1   | 02H | -0.12  |           |          | 07H  | TEH |
| 2   | 11  | 0.34  | 122   | SAI |     | 3    | 02H | -0.12  | 0.17      |          | 02H  | 02H |

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**1RC-E-1B**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 2   | 12  | 1.22  | 53    | DSI |     | P1   | 01H | -0.09  |           |          | 07H  | TEH |
| 2   | 12  | 0.15  | 132   | SAI |     | 3    | 01H | 0.02   | 0.17      |          | 01H  | 01H |
| 2   | 13  | 0.80  | 82    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 2   | 13  | 0.29  | 56    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 2   | 13  | 0.51  | 59    | DSI |     | P1   | 03H | 0.03   |           |          | 07H  | TEH |
| 2   | 17  | 0.45  | 109   | DSI |     | P1   | 01H | 0.06   |           |          | 07H  | TEH |
| 2   | 19  | 1.14  | 106   | DSI |     | P1   | 01H | -0.09  |           |          | 07H  | TEH |
| 2   | 24  | 0.58  | 69    | DSI |     | P1   | 01H | 0.06   |           |          | 07H  | TEH |
| 2   | 24  | 0.61  | 72    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 2   | 24  | 0.17  | 104   | DSI |     | P1   | 03H | -0.06  |           |          | 07H  | TEH |
| 2   | 25  | 1.15  | 44    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 2   | 25  | 0.56  | 112   | MAI |     | 3    | 01H | 0.00   | 0.56      |          | 01H  | 01H |
| 2   | 26  | 0.44  | 71    | DSI |     | P1   | 01H | -0.12  |           |          | 07H  | TEH |
| 2   | 28  | 0.87  | 33    | DSI |     | P1   | 01H | -0.09  |           |          | 07H  | TEH |
| 2   | 28  | 0.69  | 60    | DSI |     | P1   | 02H | -0.09  |           |          | 07H  | TEH |
| 2   | 30  | 1.16  | 110   | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 2   | 30  | 0.40  | 52    | DSI |     | P1   | 02H | -0.06  |           |          | 07H  | TEH |
| 2   | 31  | 0.74  | 81    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 2   | 35  | 0.55  | 63    | DSI |     | P1   | 02H | -0.06  |           |          | 07H  | TEH |
| 2   | 36  | 0.55  | 68    | DSI |     | P1   | 02H | 0.03   |           |          | 07H  | TEH |
| 2   | 39  | 0.65  | 125   | DSI |     | P1   | 01H | -0.15  |           |          | 07H  | TEH |
| 2   | 40  | 1.34  | 88    | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 2   | 40  | 0.22  | 119   | MAI |     | 3    | 01H | 0.04   | 0.67      |          | 01H  | 01H |
| 2   | 41  | 0.60  | 109   | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 2   | 43  | 0.28  | 110   | DSI |     | P1   | 01H | 0.06   |           |          | 07H  | TEH |
| 2   | 46  | 1.14  | 73    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 2   | 47  | 0.47  | 85    | DSI |     | P1   | 02H | 0.08   |           |          | 07H  | TEH |
| 2   | 49  | 0.69  | 101   | DSI |     | P1   | 01H | 0.17   |           |          | 07H  | TEH |
| 2   | 52  | 0.79  | 37    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 2   | 52  | 0.28  | 132   | DSI |     | P1   | 03H | 0.06   |           |          | 07H  | TEH |
| 2   | 52  | 0.26  | 115   | SAI |     | 3    | 01H | 0.05   | 0.42      |          | 01H  | 01H |
| 2   | 57  | 0.45  | 40    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 2   | 60  | 1.03  | 70    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 2   | 65  | 0.59  | 60    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 2   | 66  | 0.43  | 79    | DSI |     | P1   | 02H | 0.03   |           |          | 07H  | TEH |
| 2   | 69  | 1.30  | 80    | DSI |     | P1   | 02H | -0.09  |           |          | 07H  | TEH |
| 2   | 69  | 1.28  | 68    | DSI |     | P1   | 03H | -0.06  |           |          | 07H  | TEH |
| 2   | 69  | 0.25  | 117   | MAI |     | 3    | 02H | -0.11  | 0.63      |          | 02H  | 02H |
| 2   | 69  | 0.27  | 119   | MAI |     | 3    | 03H | -0.13  | 0.53      |          | 03H  | 03H |
| 2   | 72  | 0.41  | 101   | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 2   | 72  | 0.63  | 43    | DSI |     | P1   | 02H | 0.06   |           |          | 07H  | TEH |
| 2   | 72  | 0.92  | 47    | DSI |     | P1   | 03H | 0.00   |           |          | 07H  | TEH |
| 2   | 73  | 0.69  | 67    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 2   | 73  | 0.84  | 55    | DSI |     | P1   | 02H | 0.03   |           |          | 07H  | TEH |
| 2   | 74  | 0.98  | 143   | DSI |     | P1   | 01H | 0.18   |           |          | 07H  | TEH |
| 2   | 74  | 0.79  | 61    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 2   | 74  | 0.55  | 54    | DSI |     | P1   | 03H | -0.03  |           |          | 07H  | TEH |
| 2   | 79  | 0.74  | 63    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 2   | 79  | 0.61  | 109   | DSI |     | P1   | 04H | 0.00   |           |          | 07H  | TEH |
| 2   | 81  | 0.53  | 73    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 2   | 83  | 0.58  | 65    | DSI |     | P1   | 03H | 0.00   |           |          | 07H  | TEH |

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**1RC-E-1B**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 2   | 85  | 0.39  | 62    | DSI |     | P1   | 02H | 0.03   |           |          | 07H  | TEH |
| 2   | 85  | 0.36  | 103   | DSI |     | P1   | 03H | 0.09   |           |          | 07H  | TEH |
| 2   | 85  | 0.79  | 46    | DSI |     | P1   | 04H | -0.03  |           |          | 07H  | TEH |
| 2   | 86  | 0.65  | 63    | DSI |     | P1   | 03H | 0.03   |           |          | 07H  | TEH |
| 2   | 86  | 1.13  | 86    | DSI |     | P1   | 04H | 0.00   |           |          | 07H  | TEH |
| 2   | 88  | 0.61  | 97    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 2   | 88  | 0.39  | 33    | DSI |     | P1   | 04H | 0.06   |           |          | 07H  | TEH |
| 2   | 90  | 0.64  | 117   | DSI |     | P1   | 04H | 0.09   |           |          | 07H  | TEH |
| 2   | 90  | 0.51  | 58    | DSI |     | P1   | 05H | 0.09   |           |          | 07H  | TEH |
| 2   | 93  | 0.57  | 42    | DSI |     | P1   | 02H | 0.03   |           |          | 07H  | TEH |
| 2   | 94  | 0.95  | 135   | PCT | 0   | P1   | 01C | 0.11   |           |          | 07C  | TEC |
| 3   | 1   | 0.83  | 60    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 3   | 5   | 0.36  | 86    | DSI |     | P1   | 02H | 0.03   |           |          | 07H  | TEH |
| 3   | 6   | 0.35  | 88    | DSI |     | P1   | 01H | -0.09  |           |          | 07H  | TEH |
| 3   | 6   | 0.71  | 60    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 3   | 6   | 0.44  | 72    | DSI |     | P1   | 05H | 0.00   |           |          | 07H  | TEH |
| 3   | 8   | 1.31  | 48    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 3   | 8   | 1.26  | 76    | DSI |     | P1   | 02H | -0.06  |           |          | 07H  | TEH |
| 3   | 8   | 1.25  | 58    | DSI |     | P1   | 03H | -0.16  |           |          | 07H  | TEH |
| 3   | 8   | 0.71  | 77    | DSI |     | P1   | 04H | -0.06  |           |          | 07H  | TEH |
| 3   | 8   | 0.37  | 78    | DSI |     | P1   | 05H | -0.06  |           |          | 07H  | TEH |
| 3   | 8   | 0.18  | 105   | SAI |     | 3    | 01H | -0.05  | 0.44      |          | 01H  | 01H |
| 3   | 8   | 0.16  | 121   | SAI |     | 3    | 02H | 0.01   | 0.33      |          | 02H  | 02H |
| 3   | 8   | 0.18  | 104   | SAI |     | 3    | 03H | -0.04  | 0.47      |          | 03H  | 03H |
| 3   | 9   | 0.84  | 61    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 3   | 9   | 0.42  | 114   | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 3   | 16  | 0.54  | 93    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 3   | 18  | 0.97  | 51    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 3   | 18  | 0.66  | 87    | DSI |     | P1   | 02H | -0.12  |           |          | 07H  | TEH |
| 3   | 27  | 1.00  | 90    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 3   | 27  | 0.56  | 128   | DSI |     | P1   | 02H | -0.09  |           |          | 07H  | TEH |
| 3   | 27  | 0.44  | 119   | DSI |     | P1   | 03H | -0.03  |           |          | 07H  | TEH |
| 3   | 27  | 0.34  | 75    | DSI |     | P1   | 04H | 0.03   |           |          | 07H  | TEH |
| 3   | 27  | 0.17  | 126   | DSI |     | P1   | 05H | 0.06   |           |          | 07H  | TEH |
| 3   | 31  | 0.55  | 38    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 3   | 35  | 0.59  | 49    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 3   | 43  | 0.57  | 41    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 3   | 49  | 0.83  | 88    | DSI |     | P1   | 01H | 0.20   |           |          | 07H  | TEH |
| 3   | 49  | 0.63  | 71    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 3   | 53  | 0.70  | 120   | DSI |     | P1   | 01H | 0.14   |           |          | 07H  | TEH |
| 3   | 53  | 0.30  | 115   | DSI |     | P1   | 04H | 0.08   |           |          | 07H  | TEH |
| 3   | 55  | 0.82  | 123   | DSI |     | P1   | 01H | -0.08  |           |          | 07H  | TEH |
| 3   | 58  | 0.83  | 57    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 3   | 62  | 0.65  | 21    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 3   | 63  | 0.58  | 71    | DSI |     | P1   | 03H | 0.09   |           |          | 07H  | TEH |
| 3   | 64  | 1.09  | 70    | DSI |     | P1   | 03H | 0.03   |           |          | 07H  | TEH |
| 3   | 66  | 0.54  | 53    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 3   | 66  | 0.81  | 41    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 3   | 66  | 0.63  | 62    | DSI |     | P1   | 03H | 0.12   |           |          | 07H  | TEH |
| 3   | 66  | 0.16  | 111   | MAI |     | 3    | 02H | -0.06  | 0.53      |          | 02H  | 02H |
| 3   | 67  | 0.47  | 39    | DSI |     | P1   | 03H | 0.03   |           |          | 07H  | TEH |

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**1RC-E-1B**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 3   | 68  | 0.95  | 138   | DSI |     | P1   | 01H | 0.18   |           |          | 07H  | TEH |
| 3   | 68  | 0.96  | 56    | DSI |     | P1   | 03H | -0.06  |           |          | 07H  | TEH |
| 3   | 68  | 0.83  | 79    | DSI |     | P1   | 04H | 0.03   |           |          | 07H  | TEH |
| 3   | 70  | 0.88  | 140   | DSI |     | P1   | 01H | 0.18   |           |          | 07H  | TEH |
| 3   | 71  | 1.29  | 66    | DSI |     | P1   | 01H | 0.06   |           |          | 07H  | TEH |
| 3   | 71  | 0.50  | 65    | DSI |     | P1   | 02H | 0.03   |           |          | 07H  | TEH |
| 3   | 71  | 0.13  | 117   | SAI |     | 3    | TSH | 0.21   | 0.11      |          | TSH  | TSH |
| 3   | 71  | 1.52  | 94    | SAI |     | 3    | 01H | 0.00   | 0.64      |          | 01H  | 01H |
| 3   | 73  | 1.46  | 83    | DSI |     | P1   | 03H | 0.15   |           |          | 07H  | TEH |
| 3   | 73  | 0.50  | 106   | MAI |     | 3    | 03H | 0.13   | 0.51      |          | 03H  | 03H |
| 3   | 74  | 0.33  | 104   | DSI |     | P1   | 04H | 0.06   |           |          | 07H  | TEH |
| 3   | 78  | 0.73  | 50    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 3   | 78  | 0.45  | 76    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 3   | 78  | 1.38  | 88    | DSI |     | P1   | 03H | 0.00   |           |          | 07H  | TEH |
| 3   | 78  | 0.09  | 68    | SAI |     | 3    | TSH | 0.14   | 0.13      |          | TSH  | TSH |
| 3   | 78  | 0.13  | 88    | SAI |     | 3    | TSH | 0.40   | 0.26      |          | TSH  | TSH |
| 3   | 78  | 0.39  | 111   | MAI |     | 3    | 03H | -0.02  | 0.58      |          | 03H  | 03H |
| 3   | 79  | 0.95  | 67    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 3   | 79  | 0.87  | 88    | DSI |     | P1   | 03H | 0.06   |           |          | 07H  | TEH |
| 3   | 79  | 0.80  | 107   | DSI |     | P1   | 04H | -0.09  |           |          | 07H  | TEH |
| 3   | 79  | 0.32  | 86    | DSI |     | P1   | 05H | -0.06  |           |          | 07H  | TEH |
| 3   | 85  | 0.62  | 42    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 3   | 89  | 0.39  | 105   | DSI |     | P1   | 04H | 0.06   |           |          | 07H  | TEH |
| 3   | 92  | 1.13  | 77    | DSI |     | P1   | 02H | 0.15   |           |          | 07H  | TEH |
| 4   | 3   | 0.83  | 78    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 4   | 3   | 0.42  | 53    | DSI |     | P1   | 04H | 0.15   |           |          | 07H  | TEH |
| 4   | 5   | 0.93  | 98    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 4   | 8   | 0.46  | 55    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 4   | 8   | 1.16  | 68    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 4   | 8   | 0.89  | 62    | DSI |     | P1   | 03H | -0.06  |           |          | 07H  | TEH |
| 4   | 10  | 1.16  | 107   | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 4   | 12  | 0.87  | 44    | DSI |     | P1   | 01H | -0.13  |           |          | 07H  | TEH |
| 4   | 12  | 0.09  | 127   | SAI |     | 3    | 01H | 0.01   | 0.58      |          | 01H  | 01H |
| 4   | 13  | 1.73  | 86    | DSI |     | P1   | 01H | 0.06   |           |          | 07H  | TEH |
| 4   | 13  | 0.96  | 93    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 4   | 13  | 0.54  | 113   | MAI |     | 3    | 01H | 0.00   | 0.42      |          | 01H  | 01H |
| 4   | 15  | 0.76  | 80    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 4   | 16  | 0.92  | 56    | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 4   | 23  | 0.88  | 94    | DSI |     | P1   | 01H | -0.03  |           |          | STH  | TEC |
| 4   | 23  | 0.38  | 124   | DSI |     | P1   | 02H | -0.11  |           |          | STH  | TEC |
| 4   | 24  | 1.14  | 83    | DSI |     | P1   | 01H | 0.03   |           |          | STH  | TEC |
| 4   | 25  | 0.71  | 102   | DSI |     | P1   | 01H | 0.06   |           |          | STH  | TEC |
| 4   | 25  | 0.50  | 110   | DSI |     | P1   | 02H | -0.03  |           |          | STH  | TEC |
| 4   | 27  | 0.52  | 118   | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 4   | 29  | 1.88  | 105   | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 4   | 29  | 0.39  | 144   | DSI |     | P1   | 02H | 0.06   |           |          | 07H  | TEH |
| 4   | 29  | 0.25  | 97    | DSI |     | P1   | 04H | 0.06   |           |          | 07H  | TEH |
| 4   | 29  | 0.44  | 106   | MAI |     | 3    | 01H | -0.15  | 0.59      |          | 01H  | 01H |
| 4   | 31  | 1.45  | 69    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 4   | 31  | 0.68  | 110   | MAI |     | 3    | 01H | 0.07   | 0.56      |          | 01H  | 01H |
| 4   | 34  | 0.84  | 120   | DSI |     | P1   | 03H | -0.06  |           |          | 07H  | TEH |

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**1RC-E-1B**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 4   | 35  | 0.64  | 100   | DSI |     | P1   | 01H | 0.06   |           |          | 07H  | TEH |
| 4   | 35  | 0.74  | 78    | DSI |     | P1   | 02H | -0.06  |           |          | 07H  | TEH |
| 4   | 36  | 1.01  | 101   | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 4   | 36  | 0.82  | 82    | DSI |     | P1   | 03H | 0.15   |           |          | 07H  | TEH |
| 4   | 36  | 0.87  | 62    | DSI |     | P1   | 04H | 0.00   |           |          | 07H  | TEH |
| 4   | 38  | 0.52  | 97    | DSI |     | P1   | 02H | 0.24   |           |          | STH  | TEC |
| 4   | 39  | 0.44  | 32    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 4   | 39  | 0.36  | 129   | DSI |     | P1   | 02H | -0.15  |           |          | 07H  | TEH |
| 4   | 44  | 0.57  | 80    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 4   | 49  | 0.49  | 44    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 4   | 49  | 0.13  | 78    | DSI |     | P1   | 04H | -0.08  |           |          | 07H  | TEH |
| 4   | 50  | 0.44  | 32    | DSI |     | P1   | 01H | 0.06   |           |          | 07H  | TEH |
| 4   | 52  | 0.53  | 131   | DSI |     | P1   | 01H | 0.14   |           |          | 07H  | TEH |
| 4   | 57  | 0.99  | 96    | DSI |     | P1   | 01H | -0.08  |           |          | 07H  | TEH |
| 4   | 57  | 0.58  | 88    | DSI |     | P1   | 02H | 0.14   |           |          | 07H  | TEH |
| 4   | 57  | 0.49  | 33    | DSI |     | P1   | 03H | 0.11   |           |          | 07H  | TEH |
| 4   | 57  | 0.43  | 114   | DSI |     | P1   | 04H | 0.03   |           |          | 07H  | TEH |
| 4   | 58  | 1.32  | 69    | DSI |     | P1   | 01H | 0.06   |           |          | 07H  | TEH |
| 4   | 58  | 0.85  | 104   | MAI |     | 3    | 01H | 0.04   | 0.53      |          | 01H  | 01H |
| 4   | 60  | 0.91  | 90    | DSI |     | P1   | 01H | 0.06   |           |          | 07H  | TEH |
| 4   | 60  | 0.32  | 91    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 4   | 65  | 0.44  | 85    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 4   | 65  | 0.64  | 74    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 4   | 70  | 0.81  | 97    | DSI |     | P1   | 01H | -0.12  |           |          | 07H  | TEH |
| 4   | 70  | 0.45  | 44    | DSI |     | P1   | 03H | 0.03   |           |          | 07H  | TEH |
| 4   | 72  | 0.48  | 69    | DSI |     | P1   | 03H | 0.00   |           |          | 07H  | TEH |
| 4   | 74  | 0.39  | 123   | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 4   | 75  | 0.42  | 93    | DSI |     | P1   | 04H | 0.00   |           |          | 07H  | TEH |
| 4   | 76  | 1.14  | 77    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 4   | 82  | 0.54  | 55    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 4   | 85  | 0.65  | 40    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 4   | 85  | 1.35  | 75    | DSI |     | P1   | 04H | 0.00   |           |          | 07H  | TEH |
| 4   | 85  | 0.35  | 119   | MAI |     | 3    | 04H | 0.08   | 0.47      |          | 04H  | 04H |
| 4   | 86  | 0.72  | 87    | DSI |     | P1   | 01H | 0.09   |           |          | 07H  | TEH |
| 4   | 93  | 0.32  | 150   | PCT | 0   | P1   | 02C | -0.11  |           |          | 07C  | TEC |
| 4   | 94  | 0.90  | 120   | PCT | 4   | P1   | 01C | -0.11  |           |          | 07C  | TEC |
| 5   | 3   | 0.55  | 30    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 5   | 3   | 0.62  | 102   | DSI |     | P1   | 04H | 0.11   |           |          | TEH  | TEC |
| 5   | 4   | 1.08  | 94    | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 5   | 4   | 0.48  | 94    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 5   | 5   | 0.17  | 71    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 5   | 6   | 1.44  | 86    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 5   | 10  | 0.97  | 59    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 5   | 13  | 0.52  | 94    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 5   | 13  | 1.51  | 75    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 5   | 13  | 0.68  | 93    | DSI |     | P1   | 04H | -0.11  |           |          | TEH  | TEC |
| 5   | 14  | 0.68  | 98    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 5   | 14  | 0.39  | 29    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 5   | 15  | 0.42  | 78    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 5   | 20  | 0.57  | 66    | DSI |     | P1   | 01H | 0.09   |           |          | STH  | TEC |
| 5   | 20  | 0.70  | 100   | DSI |     | P1   | 02H | -0.09  |           |          | STH  | TEC |

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**1RC-E-1B**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 5   | 21  | 0.41  | 118   | DSI |     | P1   | 02H | -0.10  |           |          | TEH  | TEC |
| 5   | 22  | 0.68  | 88    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 5   | 26  | 0.43  | 56    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 5   | 28  | 0.67  | 95    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 5   | 29  | 0.41  | 109   | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 5   | 31  | 0.35  | 67    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 5   | 38  | 0.49  | 46    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 5   | 39  | 0.55  | 44    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 5   | 40  | 1.58  | 90    | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 5   | 40  | 0.30  | 63    | MAI |     | 3    | 01H | -0.07  | 0.59      |          | 01H  | 01H |
| 5   | 41  | 1.49  | 79    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 5   | 41  | 0.24  | 69    | DSI |     | P1   | 02H | 0.03   |           |          | 07H  | TEH |
| 5   | 41  | 0.45  | 114   | MAI |     | 3    | 01H | -0.09  | 0.69      |          | 01H  | 01H |
| 5   | 42  | 0.83  | 96    | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 5   | 46  | 0.79  | 122   | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 5   | 54  | 0.53  | 52    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 5   | 54  | 0.97  | 75    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 5   | 54  | 0.60  | 49    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 5   | 54  | 0.88  | 72    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 5   | 57  | 0.64  | 73    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 5   | 57  | 0.46  | 52    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 5   | 59  | 1.28  | 105   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 5   | 59  | 0.61  | 113   | MAI |     | 3    | 01H | 0.12   | 0.69      |          | 01H  | 01H |
| 5   | 60  | 0.81  | 80    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 5   | 64  | 0.56  | 88    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 5   | 65  | 0.58  | 105   | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 5   | 67  | 0.92  | 56    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 5   | 68  | 0.54  | 56    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 5   | 78  | 0.44  | 68    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 5   | 78  | 0.32  | 61    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 5   | 79  | 1.42  | 71    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 5   | 79  | 0.60  | 117   | SAI |     | 3    | 02H | -0.05  | 0.69      |          | 02H  | 02H |
| 5   | 88  | 0.31  | 66    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 5   | 88  | 0.51  | 57    | DSI |     | P1   | 04H | 0.08   |           |          | TEH  | TEC |
| 5   | 93  | 1.01  | 134   | PCT | 0   | P1   | 01C | 0.00   |           |          | TEH  | TEC |
| 5   | 93  | 0.55  | 49    | DSI |     | P1   | 04H | 0.05   |           |          | TEH  | TEC |
| 5   | 94  | 0.67  | 129   | PCT | 0   | P1   | 01C | 0.03   |           |          | TEH  | TEC |
| 5   | 94  | 1.18  | 127   | PCT | 0   | P1   | 02C | -0.11  |           |          | TEH  | TEC |
| 6   | 1   | 0.59  | 74    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 6   | 3   | 0.60  | 88    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 6   | 4   | 0.38  | 157   | DSI |     | P1   | 03H | 0.08   |           |          | TEH  | TEC |
| 6   | 4   | 17.70 | 150   | PSI |     | 8    | 07H | 0.00   |           |          | TEH  | TEC |
| 6   | 4   | 0.23  | 88    | CSI |     | 11   | 07H | 0.03   |           | 42       | 07H  | 07H |
| 6   | 5   | 1.29  | 71    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 6   | 5   | 0.79  | 90    | DSI |     | P1   | 03H | 0.11   |           |          | TEH  | TEC |
| 6   | 5   | 0.32  | 129   | DSI |     | P1   | 05H | 0.11   |           |          | TEH  | TEC |
| 6   | 5   | 0.71  | 108   | SAI |     | 3    | 01H | -0.11  | 0.34      |          | 01H  | 01H |
| 6   | 6   | 0.51  | 60    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 6   | 7   | 0.51  | 81    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 6   | 7   | 0.51  | 129   | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 6   | 9   | 1.17  | 95    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 6   | 9   | 0.80  | 72    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 6   | 13  | 0.90  | 66    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 6   | 14  | 0.99  | 77    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 6   | 16  | 0.27  | 45    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 6   | 17  | 1.22  | 71    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 6   | 17  | 1.13  | 91    | MAI |     | 3    | 01H | 0.09   | 0.58      |          | 01H  | 01H |
| 6   | 19  | 1.46  | 82    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 6   | 19  | 0.20  | 112   | MAI |     | 3    | 01H | -0.01  | 0.53      |          | 01H  | 01H |
| 6   | 21  | 0.85  | 54    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 6   | 22  | 0.84  | 42    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 6   | 22  | 0.16  | 122   | SAI |     | 3    | 01H | 0.18   | 0.30      |          | 01H  | 01H |
| 6   | 26  | 1.36  | 48    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 6   | 26  | 0.17  | 99    | MAI |     | 3    | 01H | 0.00   | 0.54      |          | 01H  | 01H |
| 6   | 30  | 0.81  | 105   | DSI |     | P1   | 01H | -0.23  |           |          | STH  | TEC |
| 6   | 30  | 0.82  | 108   | DSI |     | P1   | 02H | -0.09  |           |          | STH  | TEC |
| 6   | 31  | 0.10  | 102   | MAI |     | 3    | TSH | 0.17   | 0.11      |          | TSH  | TSH |
| 6   | 31  | 0.13  | 110   | MAI |     | 3    | TSH | 0.17   | 0.17      |          | TSH  | TSH |
| 6   | 31  | 0.67  | 83    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 6   | 32  | 0.10  | 101   | SAI |     | 3    | TSH | 0.15   | 0.19      |          | TSH  | TSH |
| 6   | 35  | 0.57  | 54    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 6   | 38  | 0.76  | 97    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 6   | 40  | 0.42  | 70    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 6   | 40  | 0.65  | 76    | DSI |     | P1   | 04H | 0.03   |           |          | TEH  | TEC |
| 6   | 41  | 0.94  | 126   | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 6   | 44  | 0.60  | 119   | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 6   | 46  | 1.02  | 88    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 6   | 48  | 0.56  | 76    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 6   | 50  | 1.08  | 74    | DSI |     | P1   | 01H | -0.08  |           |          | 07H  | TEH |
| 6   | 56  | 0.39  | 80    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 6   | 61  | 0.69  | 64    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 6   | 65  | 0.55  | 38    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 6   | 78  | 0.77  | 124   | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 6   | 78  | 0.40  | 69    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 6   | 83  | 0.68  | 105   | DSI |     | P1   | 01H | 0.16   |           |          | TEH  | TEC |
| 6   | 86  | 0.44  | 29    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 6   | 87  | 0.49  | 63    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 6   | 87  | 0.51  | 108   | DSI |     | P1   | 04H | 0.08   |           |          | TEH  | TEC |
| 6   | 90  | 0.81  | 19    | DSI |     | P1   | 05H | 0.00   |           |          | TEH  | TEC |
| 6   | 90  | 0.10  | 104   | SAI |     | 3    | 05H | 0.02   | 0.24      |          | 05H  | 05H |
| 7   | 1   | 0.70  | 117   | PCT | 12  | P1   | 02C | 0.03   |           |          | TEH  | TEC |
| 7   | 1   | 0.46  | 127   | VOL |     | P1   | 02C | 0.05   |           |          | 02C  | 02C |
| 7   | 5   | 0.37  | 114   | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 7   | 6   | 0.71  | 98    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 7   | 9   | 1.52  | 86    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 7   | 9   | 0.76  | 108   | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 7   | 9   | 0.48  | 113   | DSI |     | P1   | 03H | -0.03  |           |          | TEH  | TEC |
| 7   | 9   | 0.66  | 41    | DSI |     | P1   | 04H | 0.00   |           |          | TEH  | TEC |
| 7   | 10  | 1.27  | 60    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 7   | 10  | 0.75  | 34    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 7   | 10  | 0.49  | 118   | MAI |     | 3    | 01H | -0.12  | 0.33      |          | 01H  | 01H |
| 7   | 12  | 0.80  | 71    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |



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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 7   | 12  | 1.34  | 69    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 7   | 12  | 0.31  | 37    | DSI |     | P1   | 03H | 0.08   |           |          | TEH  | TEC |
| 7   | 12  | 0.64  | 112   | MAI |     | 3    | 02H | -0.04  | 0.27      |          | 02H  | 02H |
| 7   | 13  | 1.49  | 133   | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 7   | 14  | 0.60  | 105   | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 7   | 14  | 1.62  | 110   | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 7   | 17  | 0.72  | 42    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 7   | 18  | 1.49  | 97    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 7   | 21  | 0.68  | 62    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 7   | 23  | 1.04  | 99    | DSI |     | P1   | 01H | -0.17  |           |          | STH  | TEC |
| 7   | 23  | 0.90  | 40    | DSI |     | P1   | 02H | 0.03   |           |          | STH  | TEC |
| 7   | 25  | 0.59  | 61    | DSI |     | P1   | 01H | -0.03  |           |          | STH  | TEC |
| 7   | 28  | 0.27  | 79    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 7   | 30  | 0.20  | 109   | SAI |     | 3    | TSH | 0.49   | 0.63      |          | TSH  | TSH |
| 7   | 31  | 0.41  | 52    | DSI |     | P1   | 02H | 0.03   |           |          | STH  | TEC |
| 7   | 36  | 0.44  | 62    | DSI |     | P1   | 02H | -0.06  |           |          | STH  | TEC |
| 7   | 38  | 0.85  | 90    | DSI |     | P1   | 01H | 0.09   |           |          | STH  | TEC |
| 7   | 44  | 0.93  | 86    | DSI |     | P1   | 01H | -0.11  |           |          | 07H  | TEH |
| 7   | 45  | 0.58  | 107   | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 7   | 51  | 0.79  | 84    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 7   | 56  | 0.72  | 75    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 7   | 57  | 0.80  | 54    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 7   | 58  | 1.38  | 110   | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 7   | 58  | 0.73  | 111   | MAI |     | 3    | 01H | 0.07   | 0.70      |          | 01H  | 01H |
| 7   | 60  | 2.12  | 110   | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 7   | 60  | 0.65  | 116   | MAI |     | 3    | 01H | -0.03  | 0.53      |          | 01H  | 01H |
| 7   | 63  | 0.53  | 42    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 7   | 65  | 0.51  | 51    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 7   | 72  | 1.02  | 58    | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 7   | 73  | 0.60  | 32    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 7   | 74  | 1.89  | 131   | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 7   | 74  | 0.40  | 111   | DSI |     | P1   | 07H | 0.08   |           |          | TEH  | TEC |
| 7   | 74  | 0.31  | 109   | MAI |     | 3    | 01H | 0.07   | 0.45      |          | 01H  | 01H |
| 7   | 81  | 1.66  | 146   | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 7   | 81  | 0.09  | 121   | SAI |     | 3    | 01H | 0.03   | 0.32      |          | 01H  | 01H |
| 7   | 88  | 0.58  | 55    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 7   | 88  | 0.32  | 47    | DSI |     | P1   | 04H | 0.05   |           |          | TEH  | TEC |
| 7   | 89  | 0.43  | 44    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 7   | 91  | 0.40  | 124   | PCT | 8   | P1   | 02C | 0.18   |           |          | TEH  | TEC |
| 7   | 92  | 1.25  | 125   | PCT | 6   | P1   | 01C | -0.03  |           |          | TEH  | TEC |
| 7   | 93  | 0.61  | 150   | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 7   | 94  | 0.42  | 138   | PCT | 0   | P1   | 01C | 0.05   |           |          | TEH  | TEC |
| 8   | 2   | 0.74  | 137   | PCT | 0   | P1   | 02C | 0.03   |           |          | TEH  | TEC |
| 8   | 5   | 0.42  | 84    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 8   | 6   | 0.99  | 105   | DSI |     | P1   | 01H | 0.21   |           |          | TEH  | TEC |
| 8   | 8   | 0.39  | 85    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 8   | 13  | 1.50  | 56    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 8   | 13  | 0.52  | 143   | DSI |     | P1   | 06H | -0.05  |           |          | TEH  | TEC |
| 8   | 13  | 0.24  | 99    | SAI |     | 3    | 01H | -0.01  | 0.17      |          | 01H  | 01H |
| 8   | 17  | 0.43  | 71    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 8   | 18  | 0.65  | 81    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 8   | 20  | 0.57  | 107   | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 8   | 21  | 0.46  | 86    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 8   | 28  | 0.58  | 114   | DSI |     | P1   | 01H | -0.09  |           |          | STH  | TEC |
| 8   | 30  | 0.26  | 106   | SAI |     | 3    | TSH | 0.28   | 0.17      |          | TSH  | TSH |
| 8   | 30  | 0.12  | 125   | NQI |     | P1   | TSH | 1.14   |           |          | TEH  | TEC |
| 8   | 31  | 0.46  | 93    | DSI |     | P1   | 02H | 0.09   |           |          | STH  | TEC |
| 8   | 34  | 0.94  | 105   | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 8   | 39  | 1.17  | 73    | DSI |     | P1   | 01H | 0.03   |           |          | STH  | TEC |
| 8   | 44  | 0.67  | 34    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 8   | 45  | 1.11  | 79    | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 8   | 47  | 1.28  | 105   | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 8   | 47  | 0.39  | 110   | SAI |     | 3    | 01H | -0.05  | 0.48      |          | 01H  | 01H |
| 8   | 50  | 0.97  | 102   | DSI |     | P1   | 01H | -0.08  |           |          | 07H  | TEH |
| 8   | 58  | 0.41  | 39    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 8   | 64  | 0.85  | 52    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 8   | 74  | 1.35  | 96    | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 8   | 74  | 0.67  | 118   | MAI |     | 3    | 01H | -0.02  | 0.43      |          | 01H  | 01H |
| 8   | 82  | 0.41  | 87    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 8   | 82  | 0.88  | 80    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 8   | 88  | 0.19  | 60    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 9   | 3   | 0.20  | 145   | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 9   | 5   | 0.75  | 52    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 9   | 8   | 0.64  | 56    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 9   | 8   | 0.68  | 48    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 9   | 8   | 0.49  | 37    | DSI |     | P1   | 04H | 0.05   |           |          | TEH  | TEC |
| 9   | 9   | 1.33  | 63    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 9   | 10  | 0.55  | 82    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 9   | 10  | 0.20  | 86    | DSI |     | P1   | 05H | 0.05   |           |          | TEH  | TEC |
| 9   | 12  | 0.41  | 40    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 9   | 15  | 1.15  | 60    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 9   | 15  | 0.59  | 80    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 9   | 19  | 0.87  | 88    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 9   | 22  | 1.15  | 99    | DSI |     | P1   | 01H | -0.09  |           |          | STH  | TEC |
| 9   | 24  | 0.48  | 56    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 9   | 25  | 1.08  | 73    | DSI |     | P1   | 01H | -0.06  |           |          | STH  | TEC |
| 9   | 26  | 0.28  | 116   | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 9   | 28  | 1.11  | 93    | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 9   | 29  | 0.36  | 106   | DSI |     | P1   | 01H | 0.03   |           |          | STH  | TEC |
| 9   | 32  | 0.78  | 123   | DSI |     | P1   | 01H | -0.17  |           |          | STH  | TEC |
| 9   | 37  | 0.53  | 84    | DSI |     | P1   | 01H | 0.03   |           |          | STH  | TEC |
| 9   | 39  | 0.40  | 71    | DSI |     | P1   | 01H | -0.09  |           |          | STH  | TEC |
| 9   | 46  | 0.40  | 34    | DSI |     | P1   | 01H | 0.06   |           |          | 07H  | TEH |
| 9   | 48  | 1.45  | 92    | DSI |     | P1   | 01H | -0.11  |           |          | 07H  | TEH |
| 9   | 48  | 0.56  | 96    | DSI |     | P1   | 02H | 0.08   |           |          | 07H  | TEH |
| 9   | 48  | 0.31  | 122   | MAI |     | 3    | 01H | -0.13  | 0.50      |          | 01H  | 01H |
| 9   | 59  | 1.79  | 77    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 9   | 59  | 0.49  | 114   | MAI |     | 3    | 01H | 0.04   | 0.59      |          | 01H  | 01H |
| 9   | 67  | 0.89  | 54    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 9   | 70  | 0.75  | 63    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 9   | 70  | 0.48  | 65    | DSI |     | P1   | 03H | 0.08   |           |          | TEH  | TEC |
| 9   | 72  | 1.05  | 71    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 9   | 72  | 0.81  | 58    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 9   | 73  | 0.43  | 70    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 9   | 74  | 0.65  | 44    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 9   | 75  | 1.78  | 96    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 9   | 75  | 0.70  | 102   | DSI |     | P1   | 02H | -0.13  |           |          | TEH  | TEC |
| 9   | 75  | 0.78  | 114   | MAI |     | 3    | 01H | 0.05   | 0.45      |          | 01H  | 01H |
| 9   | 79  | 0.61  | 96    | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 9   | 79  | 0.48  | 44    | DSI |     | P1   | 03H | 0.13   |           |          | TEH  | TEC |
| 9   | 79  | 0.71  | 72    | DSI |     | P1   | 04H | -0.03  |           |          | TEH  | TEC |
| 9   | 81  | 1.11  | 87    | DSI |     | P1   | 04H | -0.13  |           |          | TEH  | TEC |
| 9   | 82  | 1.02  | 59    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 9   | 82  | 0.83  | 65    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 9   | 83  | 0.72  | 64    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 9   | 83  | 1.15  | 70    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 9   | 84  | 0.78  | 45    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 9   | 84  | 0.18  | 119   | SAI |     | 3    | 02H | -0.07  | 0.29      |          | 02H  | 02H |
| 9   | 86  | 0.66  | 47    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 9   | 91  | 0.42  | 45    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 9   | 91  | 0.61  | 76    | DSI |     | P1   | 04H | 0.03   |           |          | TEH  | TEC |
| 9   | 91  | 0.98  | 69    | DSI |     | P1   | 05H | 0.03   |           |          | TEH  | TEC |
| 9   | 93  | 1.30  | 117   | PCT | 19  | P1   | 02C | 0.05   |           |          | TEH  | TEC |
| 10  | 2   | 0.98  | 132   | PCT | 4   | P1   | 02C | -0.16  |           |          | TEH  | TEC |
| 10  | 3   | 0.40  | 146   | PCT | 0   | P1   | 03C | 0.03   |           |          | TEH  | TEC |
| 10  | 4   | 0.77  | 73    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 10  | 8   | 0.78  | 48    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 10  | 9   | 0.54  | 60    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 10  | 10  | 0.74  | 89    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 10  | 11  | 1.34  | 105   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 10  | 11  | 0.93  | 103   | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 10  | 11  | 0.54  | 117   | MAI |     | 3    | 01H | -0.03  | 0.23      |          | 01H  | 01H |
| 10  | 12  | 0.52  | 65    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 10  | 13  | 1.66  | 96    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 10  | 13  | 0.84  | 104   | SAI |     | 3    | 01H | -0.01  | 0.58      |          | 01H  | 01H |
| 10  | 14  | 0.40  | 78    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 10  | 14  | 0.43  | 89    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 10  | 15  | 1.17  | 56    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 10  | 15  | 0.56  | 69    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 10  | 16  | 1.96  | 84    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 10  | 17  | 0.53  | 81    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 10  | 17  | 0.40  | 39    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 10  | 20  | 1.35  | 105   | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 10  | 20  | 0.42  | 110   | MAI |     | 3    | 01H | -0.08  | 0.65      |          | 01H  | 01H |
| 10  | 21  | 0.45  | 79    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 10  | 25  | 0.83  | 106   | DSI |     | P1   | 01H | -0.09  |           |          | STH  | TEC |
| 10  | 26  | 0.30  | 115   | DSI |     | P1   | 01H | -0.03  |           |          | STH  | TEC |
| 10  | 31  | 0.27  | 107   | DSI |     | P1   | 01H | 0.03   |           |          | STH  | TEC |
| 10  | 33  | 1.06  | 86    | DSI |     | P1   | 01H | -0.14  |           |          | STH  | TEC |
| 10  | 39  | 0.71  | 85    | DSI |     | P1   | 01H | 0.03   |           |          | STH  | TEC |
| 10  | 53  | 0.32  | 96    | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 10  | 53  | 0.69  | 30    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 10  | 56  | 0.33  | 89    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |

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**1RC-E-1B**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 10  | 63  | 0.67  | 41    | DSI |     | P1   | 01H | 0.29   |           |          | TEH  | TEC |
| 10  | 65  | 1.03  | 63    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 10  | 66  | 1.59  | 101   | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 10  | 66  | 1.90  | 109   | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 10  | 66  | 0.69  | 108   | MAI |     | 3    | 01H | -0.07  | 0.40      |          | 01H  | 01H |
| 10  | 66  | 0.61  | 112   | MAI |     | 3    | 02H | 0.02   | 0.59      |          | 02H  | 02H |
| 10  | 72  | 1.05  | 147   | DSI |     | P1   | 01H | 0.19   |           |          | TEH  | TEC |
| 10  | 82  | 0.56  | 42    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 10  | 92  | 1.54  | 117   | PCT | 19  | P1   | 01C | -0.16  |           |          | TEH  | TEC |
| 11  | 3   | 0.48  | 149   | PCT | 0   | P1   | 01C | -0.16  |           |          | TEH  | TEC |
| 11  | 4   | 0.29  | 136   | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 11  | 7   | 0.45  | 61    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 11  | 9   | 0.92  | 77    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 11  | 12  | 0.66  | 81    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 11  | 14  | 0.67  | 89    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 11  | 19  | 0.61  | 86    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 11  | 20  | 1.81  | 95    | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 11  | 20  | 0.66  | 115   | MAI |     | 3    | 01H | -0.03  | 0.55      |          | 01H  | 01H |
| 11  | 22  | 0.83  | 66    | DSI |     | P1   | 03H | -0.03  |           |          | 1SH  | TEC |
| 11  | 24  | 0.66  | 51    | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 11  | 28  | 0.98  | 105   | DSI |     | P1   | 01H | 0.09   |           |          | STH  | TEC |
| 11  | 28  | 0.77  | 106   | DSI |     | P1   | 02H | 0.03   |           |          | STH  | TEC |
| 11  | 29  | 0.33  | 96    | DSI |     | P1   | 02H | 0.03   |           |          | 1SH  | TEC |
| 11  | 29  | 0.27  | 103   | DSI |     | P1   | 03H | 0.00   |           |          | 1SH  | TEC |
| 11  | 31  | 0.42  | 79    | DSI |     | P1   | 02H | 0.00   |           |          | STH  | TEC |
| 11  | 38  | 1.03  | 129   | DSI |     | P1   | 02H | -0.06  |           |          | STH  | TEC |
| 11  | 41  | 0.59  | 90    | DSI |     | P1   | 01H | -0.06  |           |          | STH  | TEC |
| 11  | 50  | 0.95  | 94    | DSI |     | P1   | 01H | -0.09  |           |          | STH  | TEC |
| 11  | 53  | 0.61  | 68    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 11  | 58  | 0.25  | 108   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 11  | 60  | 0.74  | 82    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 11  | 61  | 0.31  | 54    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 11  | 69  | 0.87  | 49    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 11  | 72  | 0.50  | 26    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 11  | 82  | 1.03  | 22    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 11  | 82  | 0.14  | 139   | SAI |     | 3    | 01H | -0.04  | 0.29      |          | 01H  | 01H |
| 11  | 91  | 0.65  | 141   | PCT | 0   | P1   | 02C | 0.16   |           |          | TEH  | TEC |
| 12  | 3   | 1.47  | 106   | DSI |     | P1   | 01H | 0.18   |           |          | TEH  | TEC |
| 12  | 3   | 0.25  | 104   | MAI |     | 3    | 01H | 0.28   | 0.28      |          | 01H  | 01H |
| 12  | 4   | 0.35  | 51    | DSI |     | P1   | 03H | 0.08   |           |          | TEH  | TEC |
| 12  | 8   | 1.05  | 93    | DSI |     | P1   | 02H | -0.12  |           |          | 1SH  | TEC |
| 12  | 8   | 0.55  | 81    | DSI |     | P1   | 03H | -0.09  |           |          | 1SH  | TEC |
| 12  | 8   | 0.63  | 66    | DSI |     | P1   | 04H | 0.00   |           |          | 1SH  | TEC |
| 12  | 9   | 0.38  | 84    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 12  | 11  | 1.38  | 85    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 12  | 11  | 0.16  | 78    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 12  | 11  | 0.39  | 121   | MAI |     | 3    | 01H | -0.12  | 0.34      |          | 01H  | 01H |
| 12  | 19  | 1.13  | 78    | DSI |     | P1   | 02H | 0.18   |           |          | TEH  | TEC |
| 12  | 20  | 0.65  | 36    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 12  | 20  | 0.75  | 50    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 12  | 24  | 0.27  | 119   | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |

**1RC-E-1B**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 12  | 28  | 0.82  | 61    | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 12  | 28  | 0.82  | 103   | DSI |     | P1   | 02H | -0.03  |           |          | STH  | TEC |
| 12  | 30  | 0.12  | 121   | SAI |     | 3    | TSH | 1.03   | 0.28      |          | TSH  | TSH |
| 12  | 30  | 0.14  | 115   | SAI |     | 3    | TSH | 1.46   | 0.79      |          | TSH  | TSH |
| 12  | 30  | 0.13  | 107   | SAI |     | 3    | TSH | 1.31   | 1.23      |          | TSH  | TSH |
| 12  | 30  | 0.16  | 95    | NQI |     | P1   | TSH | 1.34   |           |          | TEH  | TEC |
| 12  | 30  | 0.12  | 88    | NQI |     | P1   | TSH | 1.05   |           |          | TEH  | TEC |
| 12  | 30  | 0.10  | 139   | NQI |     | P1   | TSH | 1.68   |           |          | TEH  | TEC |
| 12  | 30  | 0.11  | 114   | NQI |     | P1   | TSH | 2.00   |           |          | TEH  | TEC |
| 12  | 31  | 1.04  | 97    | DSI |     | P1   | 01H | -0.09  |           |          | STH  | TEC |
| 12  | 34  | 1.18  | 121   | DSI |     | P1   | 01H | 0.20   |           |          | STH  | TEC |
| 12  | 37  | 0.56  | 93    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 12  | 37  | 0.61  | 114   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 12  | 43  | 0.58  | 103   | DSI |     | P1   | 01H | 0.06   |           |          | STH  | TEC |
| 12  | 44  | 0.41  | 94    | DSI |     | P1   | 02H | 0.00   |           |          | STH  | TEC |
| 12  | 47  | 0.40  | 48    | DSI |     | P1   | 02H | -0.03  |           |          | STH  | TEC |
| 12  | 51  | 0.58  | 107   | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 12  | 54  | 0.55  | 104   | DSI |     | P1   | 01H | 0.09   |           |          | STH  | TEC |
| 12  | 54  | 0.75  | 52    | DSI |     | P1   | 02H | 0.06   |           |          | STH  | TEC |
| 12  | 55  | 0.27  | 83    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 12  | 55  | 0.27  | 75    | DSI |     | P1   | 01H | 0.06   |           |          | 07H  | TEH |
| 12  | 58  | 0.53  | 42    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 12  | 60  | 0.84  | 37    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 12  | 60  | 0.37  | 123   | MAI |     | 3    | 01H | 0.13   | 0.43      |          | 01H  | 01H |
| 12  | 64  | 1.20  | 84    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 12  | 64  | 0.73  | 101   | SAI |     | 3    | 02H | -0.11  | 0.67      |          | 02H  | 02H |
| 12  | 65  | 0.85  | 51    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 12  | 70  | 0.43  | 70    | DSI |     | P1   | 04H | 0.05   |           |          | TEH  | TEC |
| 12  | 75  | 0.84  | 95    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 12  | 77  | 0.81  | 129   | DSI |     | P1   | 01H | 0.18   |           |          | TEH  | TEC |
| 12  | 80  | 0.44  | 46    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 12  | 87  | 0.61  | 77    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 12  | 87  | 0.55  | 69    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 12  | 90  | 0.27  | 70    | DSI |     | P1   | 04H | 0.13   |           |          | TEH  | TEC |
| 12  | 91  | 0.34  | 138   | PCT | 0   | P1   | 02C | -0.03  |           |          | TEH  | TEC |
| 12  | 92  | 1.51  | 122   | PCT | 11  | P1   | 01C | -0.05  |           |          | TEH  | TEC |
| 12  | 93  | 0.48  | 140   | PCT | 0   | P1   | 05C | -0.21  |           |          | TEH  | TEC |
| 13  | 3   | 1.38  | 99    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 13  | 3   | 0.40  | 142   | DSI |     | P1   | 03H | 0.18   |           |          | TEH  | TEC |
| 13  | 3   | 0.60  | 116   | MAI |     | 3    | 01H | 0.02   | 0.32      |          | 01H  | 01H |
| 13  | 4   | 0.87  | 127   | PCT | 14  | P1   | 02C | 0.00   |           |          | TEH  | TEC |
| 13  | 7   | 0.34  | 108   | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 13  | 9   | 0.45  | 56    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 13  | 14  | 0.89  | 39    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 13  | 14  | 0.59  | 41    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 13  | 14  | 0.49  | 116   | SAI |     | 3    | 01H | -0.02  | 0.73      |          | 01H  | 01H |
| 13  | 15  | 0.67  | 84    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 13  | 18  | 0.50  | 85    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 13  | 20  | 0.37  | 61    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 13  | 20  | 0.35  | 80    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 13  | 22  | 1.18  | 115   | DSI |     | P1   | 01H | -0.10  |           |          | TEH  | TEC |

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 13  | 22  | 0.46  | 103   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 13  | 25  | 0.62  | 82    | DSI |     | P1   | 03H | -0.17  |           |          | 2SH  | TEC |
| 13  | 28  | 0.97  | 98    | DSI |     | P1   | 01H | -0.14  |           |          | STH  | TEC |
| 13  | 28  | 0.61  | 71    | DSI |     | P1   | 02H | 0.17   |           |          | STH  | TEC |
| 13  | 35  | 0.85  | 127   | DSI |     | P1   | 01H | 0.14   |           |          | STH  | TEC |
| 13  | 35  | 2.01  | 113   | DSI |     | P1   | 02H | 0.00   |           |          | STH  | TEC |
| 13  | 43  | 0.20  | 103   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 13  | 43  | 0.68  | 103   | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 13  | 44  | 0.74  | 88    | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 13  | 47  | 0.78  | 97    | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 13  | 48  | 0.82  | 113   | DSI |     | P1   | 01H | -0.03  |           |          | STH  | TEC |
| 13  | 50  | 0.72  | 63    | DSI |     | P1   | 01H | -0.09  |           |          | STH  | TEC |
| 13  | 50  | 0.81  | 31    | DSI |     | P1   | 02H | 0.03   |           |          | STH  | TEC |
| 13  | 52  | 0.59  | 76    | DSI |     | P1   | 03H | -0.09  |           |          | STH  | TEC |
| 13  | 53  | 1.94  | 115   | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 13  | 53  | 0.86  | 74    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 13  | 53  | 0.50  | 102   | DSI |     | P1   | 04H | -0.03  |           |          | TEH  | TEC |
| 13  | 53  | 0.80  | 108   | MAI |     | 3    | 01H | -0.03  | 0.56      |          | 01H  | 01H |
| 13  | 55  | 0.24  | 76    | DSI |     | P1   | 03H | 0.09   |           |          | STH  | TEC |
| 13  | 56  | 0.15  | 120   | SAI |     | 3    | TSH | 0.48   | 0.19      |          | TSH  | TSH |
| 13  | 56  | 0.09  | 93    | SAI |     | 3    | TSH | 0.68   | 0.24      |          | TSH  | TSH |
| 13  | 69  | 1.70  | 86    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 13  | 69  | 0.43  | 86    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 13  | 69  | 0.93  | 67    | DSI |     | P1   | 03H | -0.11  |           |          | TEH  | TEC |
| 13  | 69  | 0.58  | 105   | MAI |     | 3    | 01H | 0.04   | 0.59      |          | 01H  | 01H |
| 13  | 71  | 0.57  | 50    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 13  | 73  | 0.89  | 63    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 13  | 73  | 0.39  | 41    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 13  | 74  | 0.41  | 62    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 13  | 78  | 0.73  | 48    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 13  | 78  | 0.73  | 35    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 13  | 80  | 0.54  | 41    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 13  | 90  | 0.76  | 125   | PCT | 6   | P1   | 02C | 0.16   |           |          | TEH  | TEC |
| 13  | 91  | 0.74  | 121   | PCT | 2   | P1   | 01C | -0.08  |           |          | TEH  | TEC |
| 14  | 6   | 1.60  | 96    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 14  | 6   | 0.68  | 110   | SAI |     | 3    | 01H | 0.08   | 0.31      |          | 01H  | 01H |
| 14  | 8   | 0.60  | 84    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 14  | 11  | 0.57  | 54    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 14  | 13  | 1.05  | 104   | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 14  | 13  | 1.07  | 80    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 14  | 13  | 0.58  | 134   | DSI |     | P1   | 03H | 0.16   |           |          | TEH  | TEC |
| 14  | 15  | 0.66  | 98    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 14  | 20  | 0.50  | 83    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 14  | 23  | 0.85  | 57    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 14  | 26  | 0.57  | 100   | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 14  | 26  | 0.09  | 94    | MAI |     | 3    | TSH | 0.35   | 0.19      |          | TSH  | TSH |
| 14  | 33  | 0.57  | 87    | DSI |     | P1   | 01H | -0.06  |           |          | STH  | TEC |
| 14  | 35  | 0.94  | 109   | DSI |     | P1   | 01H | -0.12  |           |          | STH  | TEC |
| 14  | 35  | 0.69  | 81    | DSI |     | P1   | 02H | 0.00   |           |          | STH  | TEC |
| 14  | 37  | 0.15  | 21    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 14  | 46  | 0.96  | 69    | DSI |     | P1   | 01H | -0.06  |           |          | STH  | TEC |

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 14  | 46  | 0.63  | 87    | DSI |     | P1   | 02H | 0.09   |           |          | STH  | TEC |
| 14  | 50  | 0.42  | 31    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 14  | 51  | 0.47  | 116   | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 14  | 55  | 0.37  | 49    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 14  | 64  | 1.54  | 115   | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 14  | 64  | 0.36  | 117   | MAI |     | 3    | 01H | 0.00   | 0.72      |          | 01H  | 01H |
| 14  | 65  | 0.97  | 131   | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 14  | 65  | 0.79  | 128   | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 14  | 68  | 2.04  | 92    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 14  | 68  | 1.82  | 113   | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 14  | 68  | 0.47  | 70    | DSI |     | P1   | 03H | 0.08   |           |          | TEH  | TEC |
| 14  | 68  | 0.86  | 106   | MAI |     | 3    | 01H | 0.04   | 0.72      |          | 01H  | 01H |
| 14  | 68  | 0.39  | 114   | MAI |     | 3    | 02H | -0.12  | 0.72      |          | 02H  | 02H |
| 14  | 71  | 1.08  | 87    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 14  | 71  | 0.54  | 34    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 14  | 77  | 0.67  | 67    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 14  | 79  | 0.83  | 70    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 14  | 80  | 0.54  | 41    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 14  | 81  | 1.36  | 100   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 14  | 81  | 1.61  | 96    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 14  | 81  | 0.75  | 103   | MAI |     | 3    | 01H | 0.03   | 0.39      |          | 01H  | 01H |
| 14  | 81  | 0.51  | 102   | SAI |     | 3    | 02H | 0.05   | 0.43      |          | 02H  | 02H |
| 14  | 82  | 0.47  | 38    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 14  | 82  | 0.19  | 100   | DSI |     | P1   | 03H | 0.08   |           |          | TEH  | TEC |
| 14  | 84  | 0.80  | 91    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 14  | 87  | 0.25  | 33    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 14  | 87  | 0.43  | 117   | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 14  | 90  | 0.43  | 70    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 14  | 90  | 0.62  | 72    | DSI |     | P1   | 04H | 0.00   |           |          | TEH  | TEC |
| 14  | 90  | 0.16  | 123   | SAI |     | 3    | 04H | 0.09   | 0.32      |          | 04H  | 04H |
| 14  | 92  | 0.80  | 135   | PCT | 0   | P1   | 02C | -0.18  |           |          | TEH  | TEC |
| 15  | 3   | 1.17  | 121   | PCT | 21  | P1   | 01C | -0.11  |           |          | TEH  | TEC |
| 15  | 3   | 0.33  | 117   | VOL |     | P1   | 01C | 0.03   |           |          | 01C  | 01C |
| 15  | 5   | 0.54  | 77    | DSI |     | P1   | 01H | 0.03   |           |          | TSH  | TEC |
| 15  | 5   | 0.68  | 70    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 15  | 6   | 0.72  | 133   | PCT | 2   | P1   | 01C | 0.08   |           |          | TEH  | TEC |
| 15  | 6   | 0.50  | 119   | PCT | 24  | P1   | 01C | -0.11  |           |          | TEH  | TEC |
| 15  | 9   | 0.34  | 89    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 15  | 10  | 0.62  | 44    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 15  | 10  | 0.69  | 107   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 15  | 11  | 0.98  | 98    | DSI |     | P1   | 01H | -0.10  |           |          | TEH  | TEC |
| 15  | 11  | 0.50  | 81    | DSI |     | P1   | 02H | 0.16   |           |          | TEH  | TEC |
| 15  | 12  | 1.33  | 98    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 15  | 12  | 1.49  | 82    | DSI |     | P1   | 02H | -0.10  |           |          | TEH  | TEC |
| 15  | 12  | 0.88  | 97    | DSI |     | P1   | 03H | -0.08  |           |          | TEH  | TEC |
| 15  | 12  | 0.34  | 119   | MAI |     | 3    | 01H | 0.04   | 0.25      |          | 01H  | 01H |
| 15  | 12  | 0.26  | 132   | MAI |     | 3    | 02H | -0.11  | 0.14      |          | 02H  | 02H |
| 15  | 16  | 1.18  | 82    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 15  | 16  | 0.64  | 79    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 15  | 16  | 0.47  | 98    | MAI |     | 3    | 01H | 0.01   | 0.70      |          | 01H  | 01H |
| 15  | 17  | 0.38  | 54    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |

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**1RC-E-1B**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 15  | 25  | 0.87  | 39    | DSI |     | P1   | 01H | -0.06  |           |          | STH  | TEC |
| 15  | 25  | 1.14  | 28    | DSI |     | P1   | 02H | 0.00   |           |          | STH  | TEC |
| 15  | 26  | 1.65  | 107   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 15  | 26  | 0.54  | 132   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 15  | 26  | 0.12  | 121   | SAI |     | 3    | TSH | 0.51   | 0.19      |          | TSH  | TSH |
| 15  | 26  | 0.81  | 108   | SAI |     | 3    | 01H | -0.16  | 0.53      |          | 01H  | 01H |
| 15  | 29  | 1.01  | 86    | DSI |     | P1   | 02H | -0.12  |           |          | 1SH  | TEC |
| 15  | 31  | 0.45  | 109   | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 15  | 31  | 0.38  | 98    | DSI |     | P1   | 02H | 0.00   |           |          | STH  | TEC |
| 15  | 32  | 0.68  | 103   | DSI |     | P1   | 01H | 0.03   |           |          | STH  | TEC |
| 15  | 33  | 0.18  | 116   | SAI |     | 3    | TSH | 1.83   | 0.34      |          | TSH  | TSH |
| 15  | 33  | 0.20  | 103   | NQI |     | P1   | TSH | 1.66   |           |          | TEH  | TEC |
| 15  | 35  | 0.29  | 61    | DSI |     | P1   | 03H | 0.06   |           |          | 2SH  | TEC |
| 15  | 36  | 0.77  | 98    | DSI |     | P1   | 02H | -0.09  |           |          | 1SH  | TEC |
| 15  | 39  | 1.39  | 46    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 15  | 39  | 0.64  | 92    | SAI |     | 3    | 01H | 0.01   | 0.58      |          | 01H  | 01H |
| 15  | 47  | 0.42  | 99    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 15  | 49  | 1.18  | 86    | DSI |     | P1   | 01H | -0.06  |           |          | STH  | TEC |
| 15  | 49  | 1.48  | 71    | DSI |     | P1   | 02H | 0.03   |           |          | STH  | TEC |
| 15  | 49  | 0.79  | 55    | DSI |     | P1   | 03H | 0.00   |           |          | STH  | TEC |
| 15  | 51  | 0.51  | 67    | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 15  | 52  | 0.57  | 42    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 15  | 52  | 0.27  | 84    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 15  | 54  | 0.30  | 75    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 15  | 58  | 0.58  | 68    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 15  | 58  | 0.83  | 50    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 15  | 58  | 0.80  | 48    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 15  | 58  | 0.25  | 75    | DSI |     | P1   | 04H | -0.03  |           |          | TEH  | TEC |
| 15  | 60  | 0.16  | 79    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 15  | 61  | 1.07  | 78    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 15  | 63  | 0.71  | 83    | DSI |     | P1   | 01H | -0.10  |           |          | TEH  | TEC |
| 15  | 64  | 0.86  | 36    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 15  | 64  | 0.14  | 94    | MAI |     | 3    | 01H | 0.00   | 0.43      |          | 01H  | 01H |
| 15  | 70  | 0.62  | 28    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 15  | 72  | 0.59  | 53    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 15  | 78  | 0.60  | 90    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 15  | 79  | 0.55  | 29    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 15  | 79  | 0.95  | 9     | SAI |     | 3    | TSH | -8.30  | 0.20      |          | TSH  | TSH |
| 15  | 81  | 0.65  | 38    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 15  | 85  | 0.44  | 71    | DSI |     | P1   | 04H | 0.08   |           |          | TEH  | TEC |
| 15  | 91  | 1.32  | 120   | PCT | 14  | P1   | 01C | 0.08   |           |          | TEH  | TEC |
| 15  | 91  | 0.35  | 91    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 16  | 5   | 1.62  | 109   | PCT | 38  | P1   | 01C | -0.03  |           |          | TSH  | TEC |
| 16  | 5   | 1.45  | 112   | PCT | 32  | P1   | 01C | 0.00   |           |          | TEH  | TEC |
| 16  | 6   | 1.04  | 110   | PCT | 36  | P1   | 01C | 0.00   |           |          | TEH  | TEC |
| 16  | 6   | 0.62  | 122   | VOL |     | P1   | 01C | 0.00   |           |          | 01C  | 01C |
| 16  | 7   | 0.91  | 74    | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 16  | 8   | 0.40  | 21    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 16  | 11  | 0.48  | 80    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 16  | 17  | 0.73  | 70    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 16  | 19  | 1.92  | 107   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |



BEAVER VALLEY UNIT #1  
1R14 S/G EXAMINATION RESULTS

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**1RC-E-1B**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 16  | 19  | 1.05  | 103   | SAI |     | 3    | 01H | -0.12  | 0.69      |          | 01H  | 01H |
| 16  | 20  | 0.94  | 77    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 16  | 21  | 0.69  | 70    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 16  | 21  | 0.90  | 67    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 16  | 23  | 0.62  | 41    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 16  | 24  | 0.91  | 45    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 16  | 24  | 0.22  | 36    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 16  | 24  | 0.22  | 116   | MAI |     | 3    | 01H | 0.00   | 0.42      |          | 01H  | 01H |
| 16  | 28  | 0.85  | 61    | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 16  | 33  | 1.31  | 22    | DSI |     | P1   | 02H | 0.00   |           |          | STH  | TEC |
| 16  | 35  | 1.03  | 41    | DSI |     | P1   | 02H | 0.03   |           |          | 1SH  | TEC |
| 16  | 35  | 0.74  | 61    | DSI |     | P1   | 03H | 0.00   |           |          | 1SH  | TEC |
| 16  | 36  | 1.02  | 84    | DSI |     | P1   | 02H | -0.12  |           |          | STH  | TEC |
| 16  | 38  | 0.65  | 82    | DSI |     | P1   | 01H | -0.03  |           |          | STH  | TEC |
| 16  | 39  | 0.86  | 95    | DSI |     | P1   | 01H | -0.09  |           |          | STH  | TEC |
| 16  | 40  | 0.93  | 66    | DSI |     | P1   | 01H | -0.14  |           |          | STH  | TEC |
| 16  | 45  | 0.55  | 74    | DSI |     | P1   | 02H | 0.09   |           |          | STH  | TEC |
| 16  | 51  | 1.42  | 96    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 16  | 51  | 1.02  | 113   | DSI |     | P1   | 02H | 0.24   |           |          | TEH  | TEC |
| 16  | 51  | 1.27  | 101   | DSI |     | P1   | 04H | 0.11   |           |          | TEH  | TEC |
| 16  | 51  | 0.60  | 109   | SAI |     | 3    | 01H | 0.14   | 0.37      |          | 01H  | 01H |
| 16  | 51  | 0.44  | 117   | MAI |     | 3    | 04H | -0.04  | 0.64      |          | 04H  | 04H |
| 16  | 52  | 0.17  | 104   | SAI |     | 3    | TSH | 0.40   | 0.30      |          | TSH  | TSH |
| 16  | 53  | 0.11  | 62    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 16  | 56  | 0.62  | 90    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 16  | 56  | 0.55  | 89    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 16  | 56  | 0.61  | 48    | DSI |     | P1   | 03H | 0.11   |           |          | TEH  | TEC |
| 16  | 57  | 0.39  | 84    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 16  | 58  | 0.49  | 56    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 16  | 58  | 0.38  | 98    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 16  | 58  | 0.70  | 54    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 16  | 59  | 0.75  | 93    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 16  | 59  | 0.84  | 103   | DSI |     | P1   | 03H | -0.03  |           |          | TEH  | TEC |
| 16  | 60  | 0.93  | 66    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 16  | 66  | 0.86  | 88    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 16  | 67  | 0.68  | 30    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 16  | 67  | 0.55  | 60    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 16  | 69  | 0.34  | 46    | DSI |     | P1   | 04H | 0.03   |           |          | TEH  | TEC |
| 16  | 78  | 1.30  | 49    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 16  | 78  | 0.45  | 99    | SAI |     | 3    | 01H | 0.04   | 0.46      |          | 01H  | 01H |
| 16  | 79  | 0.98  | 161   | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 16  | 80  | 0.32  | 67    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 16  | 82  | 0.84  | 66    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 16  | 83  | 0.36  | 43    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 16  | 88  | 0.88  | 137   | PCT | 0   | P1   | 01C | -0.24  |           |          | TEH  | TEC |
| 16  | 88  | 0.90  | 40    | DSI |     | P1   | 03H | 0.05   |           |          | TEH  | TEC |
| 16  | 88  | 0.14  | 95    | MAI |     | 3    | 03H | 0.00   | 0.29      |          | 03H  | 03H |
| 16  | 89  | 0.38  | 134   | PCT | 6   | P1   | 02C | 0.16   |           |          | TEH  | TEC |
| 16  | 89  | 0.21  | 116   | VOL |     | P1   | 02C | 0.18   |           |          | 02C  | 02C |
| 16  | 90  | 0.40  | 112   | PCT | 22  | P1   | 02C | 0.19   |           |          | TEH  | TEC |
| 17  | 4   | 1.53  | 121   | PCT | 21  | P1   | 01C | -0.08  |           |          | TEH  | TEC |

**1RC-E-1B**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 17  | 6   | 0.63  | 68    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 17  | 7   | 0.58  | 112   | DSI |     | P1   | 02H | -0.13  |           |          | TEH  | TEC |
| 17  | 7   | 0.52  | 70    | DSI |     | P1   | 03H | 0.05   |           |          | TEH  | TEC |
| 17  | 10  | 0.71  | 58    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 17  | 10  | 0.66  | 32    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 17  | 13  | 0.99  | 69    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 17  | 14  | 1.36  | 53    | DSI |     | P1   | 02H | -0.12  |           |          | 1SH  | TEC |
| 17  | 16  | 1.68  | 96    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 17  | 16  | 0.61  | 57    | DSI |     | P1   | 05H | 0.00   |           |          | TEH  | TEC |
| 17  | 16  | 0.40  | 100   | DSI |     | P1   | 06H | 0.11   |           |          | TEH  | TEC |
| 17  | 16  | 0.31  | 108   | MAI |     | 3    | 02H | -0.07  | 0.61      |          | 02H  | 02H |
| 17  | 23  | 0.60  | 58    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 17  | 24  | 0.67  | 82    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 17  | 24  | 0.70  | 65    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 17  | 28  | 0.63  | 52    | DSI |     | P1   | 01H | -0.03  |           |          | STH  | TEC |
| 17  | 28  | 0.28  | 75    | DSI |     | P1   | 02H | -0.06  |           |          | STH  | TEC |
| 17  | 30  | 0.86  | 67    | DSI |     | P1   | 01H | 0.06   |           |          | STH  | TEC |
| 17  | 38  | 0.55  | 111   | DSI |     | P1   | 01H | 0.14   |           |          | STH  | TEC |
| 17  | 44  | 1.05  | 110   | DSI |     | P1   | 01H | 0.09   |           |          | STH  | TEC |
| 17  | 44  | 0.99  | 96    | DSI |     | P1   | 02H | 0.11   |           |          | STH  | TEC |
| 17  | 48  | 0.56  | 71    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 17  | 55  | 0.74  | 63    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 17  | 55  | 1.05  | 94    | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 17  | 56  | 0.77  | 109   | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 17  | 56  | 0.84  | 79    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 17  | 56  | 0.42  | 65    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 17  | 58  | 0.47  | 47    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 17  | 60  | 0.28  | 136   | DSI |     | P1   | 03H | 0.05   |           |          | TEH  | TEC |
| 17  | 64  | 0.53  | 60    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 17  | 66  | 1.20  | 117   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 17  | 66  | 0.72  | 113   | MAI |     | 3    | 01H | 0.15   | 0.70      |          | 01H  | 01H |
| 17  | 67  | 1.74  | 83    | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 17  | 67  | 0.49  | 116   | MAI |     | 3    | 02H | -0.06  | 0.56      |          | 02H  | 02H |
| 17  | 68  | 0.62  | 109   | DSI |     | P1   | 01H | 0.16   |           |          | TEH  | TEC |
| 17  | 70  | 0.33  | 115   | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 17  | 70  | 0.69  | 60    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 17  | 70  | 0.81  | 85    | DSI |     | P1   | 03H | -0.03  |           |          | TEH  | TEC |
| 17  | 71  | 0.73  | 33    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 17  | 73  | 1.12  | 55    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 17  | 74  | 1.92  | 109   | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 17  | 74  | 0.61  | 70    | DSI |     | P1   | 02H | -0.11  |           |          | TEH  | TEC |
| 17  | 74  | 0.65  | 111   | SAI |     | 3    | 01H | 0.13   | 0.62      |          | 01H  | 01H |
| 17  | 80  | 1.08  | 102   | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 17  | 80  | 0.57  | 100   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 17  | 82  | 0.30  | 89    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 17  | 84  | 0.51  | 54    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 18  | 5   | 0.48  | 154   | DSI |     | P1   | 01H | 0.10   |           |          | TSH  | TEC |
| 18  | 5   | 0.34  | 142   | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 18  | 5   | 0.13  | 134   | SAI |     | 3    | 01H | 0.01   | 0.15      |          | 01H  | 02H |
| 18  | 8   | 0.36  | 114   | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 18  | 10  | 0.39  | 86    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |

BEAVER VALLEY UNIT #1  
1R14 S/G EXAMINATION RESULTS

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**1RC-E-1B**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 18  | 10  | 0.63  | 53    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 18  | 11  | 0.65  | 66    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 18  | 12  | 1.16  | 94    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 18  | 12  | 0.92  | 86    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 18  | 20  | 0.56  | 108   | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 18  | 21  | 1.12  | 122   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 18  | 21  | 1.40  | 76    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 18  | 21  | 0.36  | 112   | MAI |     | 3    | 02H | 0.13   | 0.53      |          | 02H  | 02H |
| 18  | 23  | 0.64  | 104   | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 18  | 23  | 0.31  | 94    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 18  | 24  | 0.67  | 57    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 18  | 30  | 1.50  | 0     | PCT | 21  | P2   | AV1 | -0.08  |           |          | TEH  | TEC |
| 18  | 30  | 2.34  | 0     | PCT | 27  | P2   | AV2 | -0.11  |           |          | TEH  | TEC |
| 18  | 30  | 1.56  | 0     | PCT | 22  | P2   | AV3 | -0.27  |           |          | TEH  | TEC |
| 18  | 30  | 0.13  | 92    | SAI |     | 3    | TSH | 0.46   | 0.27      |          | TSH  | TSH |
| 18  | 31  | 0.09  | 119   | MAI |     | 3    | TSH | 0.27   | 0.13      |          | TSH  | TSH |
| 18  | 33  | 1.06  | 68    | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 18  | 35  | 0.77  | 39    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 18  | 35  | 0.13  | 113   | SAI |     | 3    | 02H | 0.09   | 0.48      |          | 02H  | 02H |
| 18  | 37  | 0.81  | 43    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 18  | 37  | 0.16  | 128   | SAI |     | 3    | 01H | -0.12  | 0.31      |          | 01H  | 01H |
| 18  | 40  | 0.93  | 94    | DSI |     | P1   | 02H | 0.00   |           |          | 1SH  | TEC |
| 18  | 41  | 0.45  | 68    | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 18  | 45  | 0.15  | 102   | SAI |     | 3    | TSH | 0.46   | 0.35      |          | TSH  | TSH |
| 18  | 48  | 1.61  | 88    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 18  | 48  | 1.40  | 111   | DSI |     | P1   | 02H | -0.19  |           |          | TEH  | TEC |
| 18  | 48  | 0.70  | 122   | MAI |     | 3    | 01H | 0.07   | 0.65      |          | 01H  | 01H |
| 18  | 48  | 0.49  | 114   | SAI |     | 3    | 02H | 0.01   | 0.71      |          | 02H  | 02H |
| 18  | 49  | 0.40  | 36    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 18  | 49  | 1.02  | 0     | PCT | 18  | P2   | AV2 | -0.24  |           |          | TEH  | TEC |
| 18  | 50  | 0.72  | 57    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 18  | 51  | 0.50  | 52    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 18  | 53  | 0.91  | 101   | DSI |     | P1   | 01H | 0.24   |           |          | TEH  | TEC |
| 18  | 53  | 0.95  | 97    | DSI |     | P1   | 04H | -0.05  |           |          | TEH  | TEC |
| 18  | 61  | 0.77  | 51    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 18  | 62  | 1.29  | 105   | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 18  | 62  | 0.40  | 102   | DSI |     | P1   | 03H | 0.05   |           |          | TEH  | TEC |
| 18  | 62  | 0.39  | 117   | MAI |     | 3    | 01H | 0.01   | 0.56      |          | 01H  | 01H |
| 18  | 63  | 1.45  | 93    | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 18  | 63  | 0.50  | 112   | MAI |     | 3    | 01H | 0.14   | 0.53      |          | 01H  | 01H |
| 18  | 65  | 1.07  | 56    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 18  | 65  | 1.03  | 40    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 18  | 65  | 1.72  | 0     | PCT | 22  | P2   | AV1 | 0.00   |           |          | TEH  | TEC |
| 18  | 65  | 0.26  | 123   | MAI |     | 3    | 01H | -0.03  | 0.43      |          | 01H  | 01H |
| 18  | 65  | 0.25  | 123   | MAI |     | 3    | 02H | -0.03  | 0.44      |          | 02H  | 02H |
| 18  | 70  | 0.67  | 90    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 18  | 71  | 0.33  | 79    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 18  | 74  | 0.49  | 78    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 18  | 75  | 0.36  | 35    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 18  | 79  | 0.56  | 50    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 18  | 83  | 0.37  | 88    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |

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**1RC-E-1B**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 18  | 85  | 0.58  | 40    | DSI |     | P1   | 04H | 0.03   |           |          | TEH  | TEC |
| 18  | 88  | 0.33  | 120   | PCT | 11  | P1   | 01C | -0.24  |           |          | TEH  | TEC |
| 18  | 89  | 0.57  | 107   | PCT | 31  | P1   | 02C | -0.11  |           |          | TEH  | TEC |
| 18  | 89  | 0.44  | 125   | VOL |     | P1   | 02C | -0.07  |           |          | 02C  | 02C |
| 19  | 10  | 0.51  | 150   | PCT | 0   | P1   | 01C | -0.16  |           |          | TEH  | TEC |
| 19  | 10  | 0.79  | 82    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 19  | 10  | 0.78  | 124   | DSI |     | P1   | 02H | -0.18  |           |          | TEH  | TEC |
| 19  | 10  | 0.63  | 136   | DSI |     | P1   | 04H | 0.08   |           |          | TEH  | TEC |
| 19  | 11  | 0.60  | 118   | DSI |     | P1   | 01H | -0.10  |           |          | TEH  | TEC |
| 19  | 15  | 0.62  | 46    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 19  | 19  | 0.96  | 78    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 19  | 20  | 0.37  | 45    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 19  | 24  | 0.48  | 98    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 19  | 28  | 1.71  | 0     | PCT | 23  | P2   | AV1 | 0.00   |           |          | STH  | TEC |
| 19  | 28  | 1.21  | 0     | PCT | 19  | P2   | AV3 | 0.00   |           |          | STH  | TEC |
| 19  | 29  | 0.57  | 54    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 19  | 30  | 0.29  | 69    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 19  | 30  | 0.11  | 118   | SAI |     | 3    | TSH | 0.50   | 0.26      |          | TSH  | TSH |
| 19  | 31  | 0.42  | 64    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 19  | 34  | 0.91  | 45    | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 19  | 38  | 0.58  | 92    | DSI |     | P1   | 01H | -0.06  |           |          | STH  | TEC |
| 19  | 42  | 0.36  | 82    | DSI |     | P1   | 01H | 0.00   |           |          | STH  | TEC |
| 19  | 47  | 0.92  | 94    | DSI |     | P1   | 02H | -0.16  |           |          | TEH  | TEC |
| 19  | 49  | 1.28  | 100   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 19  | 49  | 0.42  | 121   | MAI |     | 3    | 01H | -0.15  | 0.47      |          | 01H  | 01H |
| 19  | 53  | 0.53  | 39    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 19  | 56  | 1.51  | 86    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 19  | 56  | 1.08  | 71    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 19  | 56  | 0.72  | 65    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 19  | 56  | 0.40  | 112   | MAI |     | 3    | 01H | 0.05   | 0.55      |          | 01H  | 01H |
| 19  | 58  | 0.96  | 68    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 19  | 61  | 2.03  | 108   | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 19  | 61  | 2.07  | 99    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 19  | 61  | 0.48  | 73    | MAI |     | 3    | 01H | -0.04  | 0.61      |          | 01H  | 01H |
| 19  | 61  | 0.91  | 107   | SAI |     | 3    | 02H | -0.06  | 0.69      |          | 02H  | 02H |
| 19  | 62  | 0.80  | 86    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 19  | 64  | 0.72  | 58    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 19  | 69  | 0.21  | 69    | DSI |     | P1   | 04H | 0.03   |           |          | TEH  | TEC |
| 19  | 76  | 0.64  | 59    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 19  | 81  | 2.04  | 106   | DSI |     | P1   | 01H | 0.29   |           |          | TEH  | TEC |
| 19  | 81  | 0.86  | 135   | DSI |     | P1   | 02H | -0.16  |           |          | TEH  | TEC |
| 19  | 81  | 0.90  | 103   | MAI |     | 3    | 01H | 0.10   | 0.55      |          | 01H  | 01H |
| 19  | 81  | 0.19  | 117   | MAI |     | 3    | 02H | -0.19  | 0.36      |          | 02H  | 02H |
| 19  | 82  | 1.79  | 68    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 19  | 82  | 0.28  | 104   | MAI |     | 3    | 03H | -0.06  | 0.46      |          | 03H  | 03H |
| 19  | 85  | 0.65  | 67    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 19  | 86  | 0.56  | 114   | DSI |     | P1   | 04H | 0.16   |           |          | TEH  | TEC |
| 19  | 87  | 0.70  | 59    | DSI |     | P1   | 02H | 0.19   |           |          | TEH  | TEC |
| 19  | 90  | 0.38  | 141   | PCT | 0   | P1   | 02C | 0.13   |           |          | TEH  | TEC |
| 20  | 6   | 0.54  | 148   | PCT | 0   | P1   | 02C | 0.21   |           |          | TEH  | TEC |
| 20  | 7   | 1.04  | 112   | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 20  | 8   | 0.44  | 48    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 20  | 9   | 0.33  | 99    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 20  | 9   | 0.21  | 101   | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 20  | 11  | 1.72  | 97    | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 20  | 11  | 0.60  | 68    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 20  | 11  | 0.38  | 124   | MAI |     | 3    | 01H | 0.06   | 0.25      |          | 01H  | 01H |
| 20  | 15  | 0.54  | 68    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 20  | 15  | 0.63  | 94    | DSI |     | P1   | 02H | -0.10  |           |          | TEH  | TEC |
| 20  | 21  | 0.58  | 105   | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 20  | 23  | 0.44  | 98    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 20  | 25  | 1.59  | 84    | DSI |     | P1   | 01H | 0.15   |           |          | TEH  | TEC |
| 20  | 25  | 0.78  | 81    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 20  | 25  | 0.28  | 102   | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 20  | 25  | 0.67  | 113   | MAI |     | 3    | 01H | -0.17  | 0.39      |          | 01H  | 01H |
| 20  | 27  | 0.39  | 84    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 20  | 30  | 0.47  | 91    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 20  | 31  | 0.75  | 74    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 20  | 35  | 0.41  | 72    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 20  | 37  | 0.68  | 77    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 20  | 44  | 0.51  | 46    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 20  | 47  | 0.51  | 56    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 20  | 47  | 0.34  | 59    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 20  | 48  | 1.18  | 68    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 20  | 48  | 0.63  | 32    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 20  | 49  | 1.58  | 91    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 20  | 49  | 0.54  | 102   | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 20  | 49  | 0.37  | 113   | MAI |     | 3    | 01H | 0.00   | 0.61      |          | 01H  | 01H |
| 20  | 51  | 1.05  | 74    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 20  | 52  | 0.35  | 48    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 20  | 57  | 0.64  | 79    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 20  | 58  | 1.82  | 93    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 20  | 58  | 0.75  | 140   | DSI |     | P1   | 02H | 0.18   |           |          | TEH  | TEC |
| 20  | 58  | 0.51  | 94    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 20  | 58  | 0.61  | 118   | MAI |     | 3    | 01H | 0.13   | 0.56      |          | 01H  | 01H |
| 20  | 59  | 0.20  | 104   | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 20  | 69  | 1.02  | 80    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 20  | 69  | 0.60  | 128   | DSI |     | P1   | 05H | 0.00   |           |          | TEH  | TEC |
| 20  | 77  | 0.43  | 54    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 20  | 78  | 0.30  | 52    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 20  | 82  | 0.51  | 55    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 20  | 85  | 0.68  | 45    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 20  | 87  | 0.49  | 143   | PCT | 0   | P1   | 02C | -0.21  |           |          | TEH  | TEC |
| 20  | 87  | 0.37  | 87    | DSI |     | P1   | 02H | 0.13   |           |          | TEH  | TEC |
| 20  | 89  | 0.99  | 136   | PCT | 0   | P1   | 01C | -0.21  |           |          | TEH  | TEC |
| 21  | 6   | 1.14  | 137   | PCT | 0   | P1   | 01C | -0.19  |           |          | TEH  | TEC |
| 21  | 9   | 0.38  | 139   | PCT | 0   | P1   | 01C | -0.08  |           |          | TEH  | TEC |
| 21  | 9   | 0.28  | 89    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 21  | 12  | 0.52  | 79    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 21  | 13  | 0.73  | 86    | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 21  | 14  | 1.07  | 46    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 21  | 18  | 0.84  | 84    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |

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**1RC-E-1B**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 21  | 18  | 0.82  | 73    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 21  | 20  | 1.22  | 96    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 21  | 20  | 0.39  | 108   | MAI |     | 3    | 01H | -0.12  | 0.42      |          | 01H  | 01H |
| 21  | 22  | 1.07  | 29    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 21  | 22  | 0.16  | 113   | MAI |     | 3    | 02H | 0.08   | 0.45      |          | 02H  | 02H |
| 21  | 24  | 1.11  | 43    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 21  | 24  | 0.20  | 114   | SAI |     | 3    | 01H | -0.03  | 0.42      |          | 01H  | 01H |
| 21  | 25  | 1.06  | 72    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 21  | 25  | 0.66  | 55    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 21  | 25  | 0.18  | 97    | DSI |     | P1   | 05H | 0.03   |           |          | TEH  | TEC |
| 21  | 26  | 0.59  | 80    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 21  | 29  | 0.90  | 61    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 21  | 29  | 0.64  | 76    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 21  | 30  | 0.70  | 26    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 21  | 33  | 0.74  | 44    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 21  | 33  | 0.85  | 54    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 21  | 34  | 0.99  | 48    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 21  | 34  | 0.80  | 112   | DSI |     | P1   | 02H | 0.21   |           |          | TEH  | TEC |
| 21  | 39  | 1.24  | 90    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 21  | 39  | 0.38  | 115   | MAI |     | 3    | 01H | -0.02  | 0.59      |          | 01H  | 01H |
| 21  | 40  | 0.73  | 61    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 21  | 40  | 0.55  | 86    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 21  | 40  | 0.42  | 54    | DSI |     | P1   | 03H | 0.08   |           |          | TEH  | TEC |
| 21  | 42  | 0.43  | 38    | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 21  | 46  | 0.66  | 92    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 21  | 47  | 0.59  | 86    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 21  | 47  | 1.05  | 31    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 21  | 47  | 0.31  | 122   | MAI |     | 3    | 02H | -0.10  | 0.45      |          | 02H  | 02H |
| 21  | 49  | 1.15  | 57    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 21  | 49  | 0.61  | 60    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 21  | 51  | 0.43  | 31    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 21  | 51  | 0.56  | 63    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 21  | 51  | 0.91  | 51    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 21  | 53  | 0.50  | 66    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 21  | 53  | 0.95  | 64    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 21  | 53  | 0.23  | 81    | DSI |     | P1   | 03H | 0.05   |           |          | TEH  | TEC |
| 21  | 55  | 0.87  | 93    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 21  | 56  | 0.35  | 66    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 21  | 56  | 0.39  | 53    | DSI |     | P1   | 03H | 0.05   |           |          | TEH  | TEC |
| 21  | 57  | 0.55  | 48    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 21  | 57  | 0.83  | 45    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 21  | 57  | 0.33  | 81    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 21  | 57  | 0.62  | 123   | DSI |     | P1   | 04H | 0.00   |           |          | TEH  | TEC |
| 21  | 57  | 0.22  | 129   | SAI |     | 3    | 02H | 0.07   | 0.45      |          | 02H  | 02H |
| 21  | 58  | 0.85  | 63    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 21  | 58  | 1.13  | 37    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 21  | 58  | 0.32  | 130   | MAI |     | 3    | 02H | -0.11  | 0.46      |          | 02H  | 02H |
| 21  | 62  | 0.65  | 19    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 21  | 62  | 0.38  | 36    | DSI |     | P1   | 03H | 0.13   |           |          | TEH  | TEC |
| 21  | 67  | 0.46  | 38    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 21  | 80  | 0.27  | 121   | DSI |     | P1   | 01H | -0.16  |           |          | TEH  | TEC |

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**1RC-E-1B**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 21  | 83  | 0.87  | 50    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 21  | 83  | 0.90  | 48    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 21  | 83  | 0.66  | 54    | DSI |     | P1   | 03H | 0.08   |           |          | TEH  | TEC |
| 21  | 83  | 0.17  | 109   | MAI |     | 3    | 02H | -0.02  | 0.41      |          | 02H  | 02H |
| 21  | 83  | 0.14  | 130   | SAI |     | 3    | 03H | 0.11   | 0.27      |          | 03H  | 03H |
| 21  | 87  | 1.69  | 117   | PCT | 29  | P1   | 02C | -0.21  |           |          | TEH  | TEC |
| 22  | 10  | 0.58  | 77    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 22  | 11  | 0.58  | 87    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 22  | 12  | 0.66  | 61    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 22  | 15  | 1.86  | 80    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 22  | 15  | 0.40  | 120   | MAI |     | 3    | 01H | -0.04  | 0.51      |          | 01H  | 01H |
| 22  | 17  | 0.75  | 49    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 22  | 19  | 0.98  | 61    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 22  | 20  | 1.04  | 77    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 22  | 20  | 0.85  | 57    | DSI |     | P1   | 03H | 0.08   |           |          | TEH  | TEC |
| 22  | 22  | 0.94  | 96    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 22  | 22  | 0.80  | 62    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 22  | 23  | 1.39  | 70    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 22  | 23  | 0.57  | 62    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 22  | 23  | 0.30  | 121   | MAI |     | 3    | 01H | 0.06   | 0.44      |          | 01H  | 01H |
| 22  | 29  | 0.50  | 71    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 22  | 39  | 0.39  | 84    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 22  | 40  | 0.84  | 109   | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 22  | 41  | 0.64  | 75    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 22  | 42  | 1.16  | 69    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 22  | 47  | 0.85  | 43    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 22  | 47  | 0.57  | 113   | SAI |     | 3    | 01H | 0.14   | 0.73      |          | 01H  | 01H |
| 22  | 50  | 0.54  | 58    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 22  | 50  | 0.39  | 74    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 22  | 54  | 0.63  | 57    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 22  | 54  | 0.84  | 56    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 22  | 57  | 0.38  | 26    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 22  | 58  | 0.68  | 18    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 22  | 59  | 0.74  | 60    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 22  | 60  | 0.61  | 86    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 22  | 62  | 0.54  | 40    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 22  | 69  | 0.25  | 50    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 22  | 70  | 0.95  | 43    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 22  | 70  | 0.24  | 129   | SAI |     | 3    | 02H | -0.05  | 0.56      |          | 02H  | 02H |
| 22  | 75  | 1.21  | 83    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 22  | 75  | 1.16  | 90    | DSI |     | P1   | 02H | 0.13   |           |          | TEH  | TEC |
| 22  | 75  | 0.56  | 110   | SAI |     | 3    | 01H | 0.01   | 0.50      |          | 01H  | 01H |
| 22  | 84  | 0.33  | 74    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 22  | 85  | 0.64  | 134   | PCT | 6   | P1   | 01C | -0.16  |           |          | TEH  | TEC |
| 22  | 85  | 0.28  | 124   | VOL |     | P1   | 01C | -0.17  |           |          | 01C  | 01C |
| 22  | 86  | 0.72  | 130   | PCT | 0   | P1   | 02C | -0.03  |           |          | TEH  | TEC |
| 23  | 9   | 0.52  | 126   | PCT | 9   | P1   | 01C | -0.08  |           |          | TEH  | TEC |
| 23  | 24  | 0.30  | 153   | DSI |     | P1   | 03H | 0.05   |           |          | TEH  | TEC |
| 23  | 29  | 0.21  | 66    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 23  | 38  | 0.59  | 79    | DSI |     | P1   | 03H | 0.11   |           |          | TEH  | TEC |
| 23  | 42  | 0.55  | 36    | DSI |     | P1   | 03H | 0.08   |           |          | TEH  | TEC |

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 23  | 49  | 0.80  | 40    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 23  | 51  | 0.79  | 56    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 23  | 52  | 0.86  | 54    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 23  | 52  | 0.48  | 56    | DSI |     | P1   | 04H | 0.13   |           |          | TEH  | TEC |
| 23  | 55  | 0.94  | 0     | PCT | 17  | P2   | AV3 | 0.00   |           |          | TEH  | TEC |
| 23  | 55  | 1.32  | 0     | PCT | 21  | P2   | AV4 | 0.00   |           |          | TEH  | TEC |
| 23  | 64  | 1.05  | 44    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 23  | 66  | 0.33  | 107   | DSI |     | P1   | 07H | 0.08   |           |          | TEH  | TEC |
| 23  | 69  | 1.03  | 41    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 23  | 69  | 0.17  | 81    | SAI |     | 3    | 02H | -0.02  | 0.38      |          | 02H  | 02H |
| 23  | 73  | 1.50  | 30    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 23  | 73  | 0.18  | 115   | MAI |     | 3    | 02H | 0.01   | 0.45      |          | 02H  | 02H |
| 23  | 86  | 1.12  | 124   | PCT | 3   | P1   | 01C | -0.13  |           |          | TEH  | TEC |
| 23  | 86  | 0.78  | 125   | PCT | 0   | P1   | 02C | -0.16  |           |          | TEH  | TEC |
| 23  | 86  | 0.39  | 131   | VOL |     | P1   | 01C | -0.15  |           |          | 01C  | 01C |
| 23  | 88  | 1.65  | 117   | PCT | 11  | P1   | 01C | -0.13  |           |          | TEH  | TEC |
| 23  | 88  | 0.67  | 115   | VOL |     | P1   | 01C | -0.10  |           |          | 01C  | 01C |
| 24  | 11  | 0.80  | 42    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 24  | 14  | 0.63  | 104   | DSI |     | P1   | 01H | 0.19   |           |          | TEH  | TEC |
| 24  | 14  | 0.55  | 70    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 24  | 16  | 0.74  | 57    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 24  | 36  | 0.72  | 134   | DSI |     | P1   | 01H | 0.21   |           |          | TEH  | TEC |
| 24  | 38  | 0.64  | 54    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 24  | 41  | 0.83  | 49    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 24  | 43  | 0.84  | 94    | DSI |     | P1   | 01H | -0.10  |           |          | TEH  | TEC |
| 24  | 50  | 0.63  | 119   | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 24  | 52  | 0.44  | 43    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 24  | 55  | 0.54  | 121   | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 24  | 55  | 0.68  | 65    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 24  | 56  | 0.51  | 102   | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 24  | 56  | 0.73  | 55    | DSI |     | P1   | 02H | 0.13   |           |          | TEH  | TEC |
| 24  | 58  | 0.78  | 41    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 24  | 60  | 0.52  | 75    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 24  | 60  | 0.57  | 43    | DSI |     | P1   | 03H | 0.05   |           |          | TEH  | TEC |
| 24  | 84  | 0.48  | 42    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 24  | 86  | 1.29  | 114   | PCT | 22  | P1   | 01C | -0.11  |           |          | TEH  | TEC |
| 24  | 87  | 1.10  | 128   | PCT | 15  | P1   | 01C | 0.00   |           |          | TEH  | TEC |
| 24  | 87  | 0.28  | 129   | PCT | 13  | P1   | 02C | -0.18  |           |          | TEH  | TEC |
| 24  | 87  | 0.17  | 119   | VOL |     | P1   | 02C | -0.16  |           |          | 02C  | 02C |
| 25  | 10  | 0.66  | 133   | PCT | 2   | P1   | 01C | -0.13  |           |          | TEH  | TEC |
| 25  | 10  | 0.85  | 120   | PCT | 23  | P1   | 02C | 0.11   |           |          | TEH  | TEC |
| 25  | 16  | 0.51  | 64    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 25  | 18  | 0.69  | 61    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 25  | 20  | 0.96  | 47    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 25  | 21  | 1.34  | 61    | DSI |     | P1   | 01H | 0.08   |           |          | TSH  | TEC |
| 25  | 21  | 1.35  | 65    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 25  | 21  | 0.64  | 98    | MAI |     | 3    | 01H | 0.05   | 0.63      |          | 01H  | 01H |
| 25  | 22  | 1.53  | 57    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 25  | 22  | 0.50  | 117   | MAI |     | 3    | 01H | -0.05  | 0.64      |          | 01H  | 01H |
| 25  | 26  | 0.81  | 61    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 25  | 68  | 0.52  | 64    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |



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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 25  | 71  | 0.22  | 96    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 25  | 74  | 0.51  | 59    | DSI |     | P1   | 03H | 0.08   |           |          | TEH  | TEC |
| 25  | 74  | 0.42  | 72    | DSI |     | P1   | 04H | 0.03   |           |          | TEH  | TEC |
| 25  | 84  | 0.82  | 111   | PCT | 27  | P1   | 01C | -0.16  |           |          | TEH  | TEC |
| 26  | 51  | 0.19  | 116   | DSI |     | P1   | 03H | 0.05   |           |          | TEH  | TEC |
| 26  | 64  | 0.04  | 81    | SCI |     | P1   | TSH | 0.07   |           | 90       | TSH  | TSH |
| 26  | 64  | 0.15  | 150   | SCI |     | P1   | TSH | 0.18   |           | 90       | TSH  | TSH |
| 26  | 85  | 1.14  | 120   | PCT | 25  | P1   | 02C | -0.18  |           |          | TEH  | TEC |
| 27  | 13  | 0.50  | 119   | PCT | 25  | P1   | 01C | -0.11  |           |          | TEH  | TEC |
| 27  | 18  | 0.14  | 99    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 27  | 18  | 0.46  | 54    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 27  | 19  | 0.45  | 94    | DSI |     | P1   | 03H | 0.00   |           |          | TSH  | TEC |
| 27  | 19  | 0.47  | 94    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 27  | 47  | 0.51  | 36    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 27  | 47  | 0.68  | 34    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 27  | 48  | 0.43  | 39    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 27  | 58  | 0.68  | 57    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 27  | 62  | 0.56  | 39    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 27  | 64  | 0.09  | 111   | SCI |     | P1   | TSH | 0.02   |           | 90       | TSH  | TSH |
| 27  | 64  | 0.05  | 109   | SCI |     | P1   | TSH | 0.12   |           | 90       | TSH  | TSH |
| 27  | 75  | 0.44  | 41    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 27  | 80  | 0.36  | 81    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 27  | 80  | 0.58  | 91    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 27  | 84  | 1.14  | 127   | PCT | 0   | P1   | 01C | -0.16  |           |          | TEH  | TEC |
| 27  | 85  | 1.11  | 127   | PCT | 16  | P1   | 01C | -0.16  |           |          | TEH  | TEC |
| 28  | 11  | 0.28  | 109   | DSI |     | P1   | 02H | 0.29   |           |          | TEH  | TEC |
| 28  | 12  | 0.50  | 144   | DSI |     | P1   | 01H | 0.27   |           |          | TEH  | TEC |
| 28  | 26  | 0.39  | 47    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 28  | 56  | 0.27  | 128   | SCI |     | P1   | TSH | 0.33   |           | 57       | TSH  | TSH |
| 28  | 56  | 0.30  | 116   | SCI |     | P1   | TSH | 0.19   |           | 57       | TSH  | TSH |
| 28  | 56  | 0.45  | 82    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 28  | 60  | 0.27  | 129   | DSI |     | P1   | 07C | 0.03   |           |          | TEH  | TEC |
| 28  | 82  | 0.79  | 124   | PCT | 20  | P1   | 01C | 0.00   |           |          | TEH  | TEC |
| 28  | 84  | 0.81  | 133   | PCT | 0   | P1   | 02C | -0.19  |           |          | TEH  | TEC |
| 28  | 85  | 0.84  | 133   | PCT | 8   | P1   | 01C | -0.16  |           |          | TEH  | TEC |
| 28  | 85  | 0.15  | 117   | VOL |     | P1   | 01C | -0.12  |           |          | 01C  | 01C |
| 29  | 12  | 1.42  | 126   | PCT | 16  | P1   | 01C | -0.21  |           |          | TEH  | TEC |
| 29  | 12  | 0.68  | 133   | DSI |     | P1   | 01H | 0.24   |           |          | TEH  | TEC |
| 29  | 14  | 1.66  | 120   | PCT | 23  | P1   | 01C | -0.11  |           |          | TEH  | TEC |
| 29  | 14  | 0.49  | 99    | VOL |     | P1   | 01C | -0.11  |           |          | 01C  | 01C |
| 29  | 16  | 0.40  | 51    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 29  | 49  | 0.83  | 21    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 29  | 84  | 2.60  | 124   | PCT | 3   | P1   | 01C | -0.16  |           |          | TEH  | TEC |
| 29  | 84  | 0.56  | 129   | PCT | 0   | P1   | 02C | -0.08  |           |          | TEH  | TEC |
| 30  | 14  | 1.66  | 121   | PCT | 21  | P1   | 01C | -0.11  |           |          | TEH  | TEC |
| 30  | 16  | 0.40  | 123   | PCT | 19  | P1   | 01C | -0.13  |           |          | TEH  | TEC |
| 30  | 16  | 0.09  | 85    | VOL |     | P1   | 01C | -0.13  |           |          | 01C  | 01C |
| 30  | 17  | 0.85  | 144   | PCT | 0   | P1   | 01C | -0.18  |           |          | TEH  | TEC |
| 30  | 35  | 0.42  | 55    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 30  | 64  | 0.32  | 73    | DSI |     | P1   | 07H | 0.05   |           |          | TEH  | TEC |
| 30  | 74  | 0.32  | 77    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |

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**1RC-E-1B**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 30  | 74  | 0.25  | 119   | DSI |     | P1   | 04H | 0.03   |           |          | TEH  | TEC |
| 30  | 77  | 0.21  | 116   | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 30  | 79  | 0.74  | 132   | PCT | 0   | P1   | 02C | -0.11  |           |          | TEH  | TEC |
| 30  | 80  | 0.73  | 140   | PCT | 0   | P1   | 01C | -0.11  |           |          | TEH  | TEC |
| 30  | 81  | 1.99  | 104   | PCT | 38  | P1   | 01C | -0.05  |           |          | TEH  | TEC |
| 30  | 81  | 0.82  | 147   | PCT | 0   | P1   | 02C | -0.11  |           |          | TEH  | TEC |
| 30  | 82  | 1.37  | 131   | PCT | 11  | P1   | 01C | -0.08  |           |          | TEH  | TEC |
| 30  | 83  | 0.72  | 142   | PCT | 0   | P1   | 01C | -0.13  |           |          | TEH  | TEC |
| 31  | 13  | 0.38  | 71    | DSI |     | P1   | 01H | 0.31   |           |          | TEH  | TEC |
| 31  | 17  | 1.53  | 135   | PCT | 2   | P1   | 01C | -0.18  |           |          | TEH  | TEC |
| 31  | 22  | 0.67  | 62    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 31  | 24  | 0.66  | 49    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 31  | 24  | 0.50  | 18    | DSI |     | P1   | 03H | -0.03  |           |          | TEH  | TEC |
| 31  | 24  | 0.20  | 97    | DSI |     | P1   | 04H | 0.03   |           |          | TEH  | TEC |
| 31  | 34  | 1.74  | 113   | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 31  | 34  | 0.30  | 54    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 31  | 34  | 0.53  | 110   | SAI |     | 3    | 01H | 0.02   | 0.53      |          | 01H  | 01H |
| 31  | 36  | 0.83  | 80    | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 31  | 36  | 0.65  | 77    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 31  | 37  | 0.49  | 113   | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 31  | 37  | 0.40  | 148   | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 31  | 37  | 0.31  | 55    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 31  | 37  | 0.14  | 98    | SAI |     | 3    | 02H | -0.08  | 0.36      |          | 02H  | 02H |
| 31  | 38  | 1.09  | 103   | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 31  | 38  | 0.96  | 121   | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 31  | 40  | 0.40  | 117   | DSI |     | P1   | 02H | -0.10  |           |          | TEH  | TEC |
| 31  | 43  | 0.69  | 73    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 31  | 47  | 0.26  | 97    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 31  | 47  | 0.43  | 114   | DSI |     | P1   | 03H | 0.05   |           |          | TEH  | TEC |
| 31  | 49  | 0.76  | 43    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 31  | 53  | 1.09  | 0     | PCT | 19  | P2   | AV3 | -0.16  |           |          | TEH  | TEC |
| 31  | 62  | 0.59  | 42    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 31  | 62  | 0.43  | 65    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 31  | 64  | 0.59  | 42    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 31  | 65  | 0.78  | 30    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 31  | 65  | 0.25  | 51    | DSI |     | P1   | 03H | 0.05   |           |          | TEH  | TEC |
| 31  | 66  | 0.66  | 61    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 31  | 66  | 0.93  | 91    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 31  | 67  | 0.56  | 33    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 31  | 68  | 0.56  | 127   | DSI |     | P1   | 01H | 0.21   |           |          | TEH  | TEC |
| 31  | 68  | 0.55  | 87    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 31  | 69  | 0.38  | 83    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 31  | 69  | 0.38  | 135   | DSI |     | P1   | 06H | 0.00   |           |          | TEH  | TEC |
| 31  | 78  | 1.49  | 111   | PCT | 27  | P1   | 02C | -0.13  |           |          | TEH  | TEC |
| 31  | 78  | 0.23  | 95    | VOL |     | P1   | 02C | -0.10  |           |          | 02C  | 02C |
| 32  | 40  | 0.64  | 96    | DSI |     | P1   | 02H | -0.13  |           |          | TEH  | TEC |
| 32  | 46  | 5.35  | 0     | PCT | 38  | P2   | AV2 | 0.71   |           |          | TEH  | TEC |
| 32  | 46  | 6.09  | 0     | PCT | 39  | P2   | AV3 | 0.45   |           |          | TEH  | TEC |
| 32  | 46  | 1.74  | 0     | PCT | 23  | P2   | AV4 | 0.72   |           |          | TEH  | TEC |
| 32  | 71  | 0.44  | 82    | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 32  | 72  | 0.34  | 54    | DSI |     | P1   | 04H | 0.05   |           |          | TEH  | TEC |

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 32  | 75  | 0.84  | 65    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 32  | 76  | 0.46  | 141   | PCT | 0   | P1   | 02C | -0.11  |           |          | TEH  | TEC |
| 32  | 77  | 0.97  | 0     | PCT | 17  | P2   | AV2 | 0.00   |           |          | TEH  | TEC |
| 32  | 78  | 1.93  | 115   | PCT | 20  | P1   | 01C | -0.16  |           |          | TEH  | TEC |
| 32  | 78  | 1.23  | 128   | PCT | 0   | P1   | 02C | -0.08  |           |          | TEH  | TEC |
| 33  | 25  | 0.63  | 0     | PCT | 10  | P2   | AV4 | 0.00   |           |          | TEH  | TEC |
| 33  | 34  | 0.64  | 121   | DSI |     | P1   | 01H | 0.18   |           |          | TEH  | TEC |
| 33  | 34  | 0.65  | 77    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 33  | 34  | 0.46  | 16    | DSI |     | P1   | 03H | 0.05   |           |          | TEH  | TEC |
| 33  | 35  | 0.41  | 94    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 33  | 36  | 0.45  | 153   | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 33  | 38  | 0.31  | 47    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 33  | 39  | 1.24  | 86    | DSI |     | P1   | 01H | 0.05   |           |          | 01H  | TEC |
| 33  | 39  | 0.97  | 101   | DSI |     | P1   | 02H | -0.05  |           |          | 01H  | TEC |
| 33  | 39  | 0.45  | 80    | DSI |     | P1   | 03H | 0.03   |           |          | 01H  | TEC |
| 33  | 39  | 1.06  | 88    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 33  | 39  | 0.94  | 98    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 33  | 39  | 0.49  | 70    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 33  | 39  | 0.35  | 112   | MAI |     | 3    | 01H | 0.01   | 0.50      |          | 01H  | 01H |
| 33  | 40  | 0.88  | 87    | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 33  | 46  | 0.40  | 75    | DSI |     | P1   | 01H | 0.06   |           |          | 07H  | TEH |
| 33  | 46  | 0.29  | 39    | DSI |     | P1   | 07H | 0.12   |           |          | 07H  | TEH |
| 33  | 46  | 0.34  | 45    | DSI |     | P1   | 07H | 0.03   |           |          | 07H  | TEC |
| 33  | 47  | 0.23  | 43    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 33  | 48  | 0.47  | 78    | DSI |     | P1   | 01H | 0.09   |           |          | 07H  | TEH |
| 33  | 51  | 0.63  | 112   | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 33  | 51  | 1.30  | 80    | DSI |     | P1   | 02H | -0.06  |           |          | 07H  | TEH |
| 33  | 51  | 1.25  | 82    | DSI |     | P1   | 03H | -0.12  |           |          | 07H  | TEH |
| 33  | 51  | 0.67  | 89    | DSI |     | P1   | 04H | -0.06  |           |          | 07H  | TEH |
| 33  | 51  | 0.34  | 102   | MAI |     | 3    | 02H | -0.06  | 0.38      |          | 02H  | 02H |
| 33  | 51  | 0.36  | 108   | MAI |     | 3    | 03H | -0.03  | 0.62      |          | 03H  | 03H |
| 33  | 53  | 0.66  | 85    | DSI |     | P1   | 03H | -0.03  |           |          | 07H  | TEH |
| 33  | 53  | 0.33  | 46    | DSI |     | P1   | 04H | 0.06   |           |          | 07H  | TEH |
| 33  | 54  | 1.48  | 76    | DSI |     | P1   | 02H | 0.06   |           |          | 07H  | TEH |
| 33  | 54  | 0.32  | 120   | MAI |     | 3    | 02H | 0.07   | 0.41      |          | 02H  | 02H |
| 33  | 55  | 0.44  | 45    | DSI |     | P1   | 03H | 0.03   |           |          | 07H  | TEH |
| 33  | 57  | 0.41  | 51    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 33  | 58  | 0.53  | 80    | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 33  | 59  | 0.95  | 61    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 33  | 59  | 0.52  | 58    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 33  | 59  | 0.79  | 64    | DSI |     | P1   | 05H | 0.05   |           |          | TEH  | TEC |
| 33  | 61  | 0.75  | 62    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 33  | 70  | 1.19  | 0     | PCT | 18  | P2   | AV3 | 0.00   |           |          | TEH  | TEC |
| 33  | 72  | 0.78  | 49    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 33  | 75  | 0.38  | 96    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 33  | 75  | 0.45  | 123   | PCT | 0   | P1   | 02C | -0.03  |           |          | TEH  | TEC |
| 33  | 75  | 0.20  | 66    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 33  | 75  | 0.40  | 69    | DSI |     | P1   | 05H | 0.00   |           |          | TEH  | TEC |
| 33  | 76  | 0.71  | 66    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 34  | 18  | 0.96  | 138   | PCT | 0   | P1   | 01C | -0.21  |           |          | TEH  | TEC |
| 34  | 18  | 0.83  | 133   | PCT | 3   | P1   | 02C | 0.13   |           |          | TEH  | TEC |

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 34  | 18  | 0.31  | 133   | VOL |     | P1   | 02C | 0.13   |           |          | 02C  | 02C |
| 34  | 24  | 1.10  | 128   | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 34  | 26  | 0.82  | 78    | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 34  | 28  | 0.35  | 59    | DSI |     | P1   | 03H | 0.16   |           |          | TEH  | TEC |
| 34  | 29  | 0.63  | 82    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 34  | 29  | 0.92  | 129   | DSI |     | P1   | 03H | 0.16   |           |          | TEH  | TEC |
| 34  | 29  | 0.43  | 123   | DSI |     | P1   | 05H | 0.05   |           |          | TEH  | TEC |
| 34  | 29  | 0.11  | 119   | MAI |     | 3    | 03H | -0.01  | 0.20      |          | 03H  | 03H |
| 34  | 33  | 1.42  | 104   | DSI |     | P1   | 01H | 0.16   |           |          | TEH  | TEC |
| 34  | 33  | 0.28  | 128   | MAI |     | 3    | 01H | 0.14   | 0.28      |          | 01H  | 01H |
| 34  | 36  | 0.71  | 133   | DSI |     | P1   | 01H | 0.16   |           |          | TEH  | TEC |
| 34  | 36  | 0.44  | 104   | DSI |     | P1   | 03H | -0.03  |           |          | TEH  | TEC |
| 34  | 37  | 1.41  | 85    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 34  | 37  | 0.66  | 115   | DSI |     | P1   | 03H | 0.18   |           |          | TEH  | TEC |
| 34  | 37  | 0.64  | 101   | DSI |     | P1   | 04H | 0.00   |           |          | TEH  | TEC |
| 34  | 37  | 0.52  | 111   | MAI |     | 3    | 02H | 0.12   | 0.67      |          | 02H  | 02H |
| 34  | 41  | 0.88  | 124   | DSI |     | P1   | 02H | -0.06  |           |          | 07H  | TEH |
| 34  | 43  | 0.72  | 98    | DSI |     | P1   | 05H | 0.03   |           |          | 07H  | TEH |
| 34  | 44  | 0.77  | 133   | DSI |     | P1   | 01H | -0.09  |           |          | 07H  | TEH |
| 34  | 44  | 0.53  | 36    | DSI |     | P1   | 02H | 0.06   |           |          | 07H  | TEH |
| 34  | 50  | 0.53  | 97    | DSI |     | P1   | 04H | 0.03   |           |          | 07H  | TEH |
| 34  | 51  | 0.82  | 110   | DSI |     | P1   | 01H | 0.09   |           |          | 07H  | TEH |
| 34  | 56  | 0.62  | 76    | DSI |     | P1   | 02H | 0.06   |           |          | 07H  | TEH |
| 34  | 62  | 0.97  | 80    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 34  | 65  | 0.53  | 95    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 34  | 78  | 2.21  | 125   | PCT | 0   | P1   | 01C | -0.08  |           |          | TEH  | TEC |
| 34  | 79  | 1.35  | 142   | PCT | 0   | P1   | 01C | 0.00   |           |          | TEH  | TEC |
| 35  | 17  | 1.04  | 117   | PCT | 26  | P1   | 01C | -0.24  |           |          | TEH  | TEC |
| 35  | 18  | 0.74  | 140   | PCT | 0   | P1   | 02C | -0.24  |           |          | TEH  | TEC |
| 35  | 22  | 0.36  | 67    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 35  | 22  | 1.30  | 17    | SAI |     | 3    | TSH | -1.51  | 0.18      |          | TSH  | TSH |
| 35  | 26  | 1.31  | 104   | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 35  | 26  | 0.62  | 97    | MAI |     | 3    | 01H | 0.12   | 0.42      |          | 01H  | 01H |
| 35  | 27  | 1.00  | 96    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 35  | 28  | 0.66  | 44    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 35  | 34  | 0.56  | 136   | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 35  | 34  | 0.54  | 85    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 35  | 35  | 0.56  | 28    | DSI |     | P1   | 04H | 0.00   |           |          | TEH  | TEC |
| 35  | 36  | 0.48  | 89    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 35  | 37  | 0.60  | 73    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 35  | 41  | 0.74  | 83    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 35  | 44  | 0.47  | 127   | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 35  | 44  | 0.11  | 119   | SAI |     | 3    | 02H | 0.00   | 0.26      |          | 02H  | 02H |
| 35  | 58  | 0.31  | 48    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 35  | 67  | 0.47  | 62    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 35  | 72  | 1.02  | 13    | SAI |     | 3    | TSH | -8.41  | 0.21      |          | TSH  | TSH |
| 35  | 72  | 1.15  | 11    | SAI |     | 3    | TSH | -10.55 | 0.13      |          | TSH  | TSH |
| 35  | 73  | 0.43  | 147   | PCT | 0   | P1   | 01C | -0.18  |           |          | TEH  | TEC |
| 35  | 73  | 0.70  | 61    | DSI |     | P1   | 04H | 0.03   |           |          | TEH  | TEC |
| 35  | 75  | 2.80  | 108   | PCT | 34  | P1   | 02C | -0.11  |           |          | TEH  | TEC |
| 35  | 75  | 0.43  | 110   | VOL |     | P1   | 02C | -0.12  |           |          | 02C  | 02C |

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**1RC-E-1B**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 35  | 76  | 0.27  | 135   | PCT | 0   | P1   | 01C | -0.05  |           |          | TEH  | TEC |
| 35  | 78  | 2.51  | 145   | PCT | 0   | P1   | 01C | -0.03  |           |          | TEH  | TEC |
| 36  | 20  | 0.91  | 150   | PCT | 0   | P1   | 02C | -0.19  |           |          | TEH  | TEC |
| 36  | 23  | 0.38  | 115   | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 36  | 23  | 0.46  | 99    | DSI |     | P1   | 03H | 0.11   |           |          | TEH  | TEC |
| 36  | 26  | 2.68  | 0     | PCT | 30  | P2   | AV2 | -0.05  |           |          | TEH  | TEC |
| 36  | 26  | 5.38  | 0     | PCT | 38  | P2   | AV3 | 0.00   |           |          | TEH  | TEC |
| 36  | 26  | 1.82  | 0     | PCT | 25  | P2   | AV4 | 0.00   |           |          | TEH  | TEC |
| 36  | 27  | 0.71  | 107   | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 36  | 29  | 0.94  | 115   | DSI |     | P1   | 01H | 0.29   |           |          | TEH  | TEC |
| 36  | 30  | 0.57  | 130   | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 36  | 37  | 0.28  | 145   | FSI |     | 1    | 01H | 25.08  |           |          | TEH  | TEC |
| 36  | 39  | 0.82  | 153   | DSI |     | P1   | 01H | 0.16   |           |          | TEH  | TEC |
| 36  | 49  | 0.53  | 124   | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 36  | 49  | 0.34  | 82    | DSI |     | P1   | 04H | 0.03   |           |          | 07H  | TEH |
| 36  | 61  | 1.58  | 0     | PCT | 21  | P2   | AV3 | -0.32  |           |          | TEH  | TEC |
| 36  | 72  | 0.34  | 131   | PCT | 0   | P1   | 01C | -0.27  |           |          | TEH  | TEC |
| 36  | 73  | 1.75  | 105   | PCT | 39  | P1   | 01C | -0.21  |           |          | TEH  | TEC |
| 36  | 75  | 1.59  | 143   | PCT | 0   | P1   | 01C | 0.03   |           |          | TEH  | TEC |
| 36  | 76  | 0.90  | 148   | PCT | 0   | P1   | 01C | -0.08  |           |          | TEH  | TEC |
| 37  | 21  | 1.33  | 134   | PCT | 3   | P1   | 02C | -0.16  |           |          | TSH  | TEC |
| 37  | 21  | 1.19  | 133   | PCT | 0   | P1   | 02C | -0.21  |           |          | TEH  | TEC |
| 37  | 21  | 0.28  | 134   | VOL |     | P1   | 02C | -0.16  |           |          | 02C  | 02C |
| 37  | 22  | 0.51  | 141   | PCT | 0   | P1   | 01C | -0.21  |           |          | TEH  | TEC |
| 37  | 22  | 0.95  | 132   | PCT | 0   | P1   | 02C | -0.24  |           |          | TEH  | TEC |
| 37  | 31  | 1.47  | 96    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 37  | 31  | 0.53  | 31    | DSI |     | P1   | 03H | 0.16   |           |          | TEH  | TEC |
| 37  | 31  | 0.70  | 102   | MAI |     | 3    | 01H | 0.15   | 0.53      |          | 01H  | 01H |
| 37  | 31  | 0.39  | 114   | SAI |     | 3    | 03H | -0.09  | 0.61      |          | 03H  | 03H |
| 37  | 43  | 2.07  | 0     | PCT | 26  | P2   | AV2 | 0.00   |           |          | 07H  | TEC |
| 37  | 43  | 2.52  | 0     | PCT | 28  | P2   | AV3 | 0.00   |           |          | 07H  | TEC |
| 37  | 55  | 0.24  | 98    | DSI |     | P1   | 01H | 0.06   |           |          | 07H  | TEH |
| 37  | 57  | 0.97  | 78    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 37  | 65  | 0.51  | 85    | DSI |     | P1   | 03H | 0.05   |           |          | TEH  | TEC |
| 37  | 74  | 1.38  | 126   | PCT | 0   | P1   | 02C | 0.16   |           |          | TEH  | TEC |
| 37  | 75  | 0.89  | 146   | PCT | 0   | P1   | 01C | -0.05  |           |          | TEH  | TEC |
| 37  | 76  | 0.72  | 146   | PCT | 0   | P1   | 01C | -0.03  |           |          | TEH  | TEC |
| 37  | 76  | 0.75  | 144   | PCT | 0   | P1   | 02C | -0.11  |           |          | TEH  | TEC |
| 38  | 21  | 0.60  | 142   | PCT | 0   | P1   | 02C | -0.08  |           |          | TSH  | TEC |
| 38  | 21  | 0.54  | 143   | PCT | 0   | P1   | 02C | -0.11  |           |          | TEH  | TEC |
| 38  | 26  | 1.10  | 0     | PCT | 19  | P2   | AV2 | -0.08  |           |          | TEH  | TEC |
| 38  | 27  | 0.69  | 121   | PCT | 20  | P1   | 02C | -0.29  |           |          | TEH  | TEC |
| 38  | 31  | 0.47  | 151   | DSI |     | P1   | 06H | 0.11   |           |          | TEH  | TEC |
| 38  | 32  | 0.52  | 52    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 38  | 44  | 0.88  | 72    | DSI |     | P1   | 01H | 0.09   |           |          | 07H  | TEH |
| 38  | 62  | 0.34  | 107   | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 38  | 68  | 0.20  | 123   | PCT | 0   | P1   | 02C | 0.03   |           |          | TEH  | TEC |
| 38  | 69  | 0.31  | 136   | PCT | 0   | P1   | 02C | -0.08  |           |          | TEH  | TEC |
| 38  | 72  | 1.70  | 128   | PCT | 0   | P1   | 02C | 0.16   |           |          | TEH  | TEC |
| 39  | 22  | 2.34  | 0     | PCT | 28  | P2   | AV4 | 0.00   |           |          | TEH  | TEC |
| 39  | 23  | 1.27  | 128   | PCT | 5   | P1   | 02C | -0.21  |           |          | TEH  | TEC |

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| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 39  | 24  | 0.73  | 147   | PCT | 0   | P1   | 01C | -0.13  |           |          | TEH  | TEC |
| 39  | 24  | 1.28  | 142   | PCT | 0   | P1   | 02C | -0.21  |           |          | TEH  | TEC |
| 39  | 26  | 0.55  | 136   | PCT | 0   | P1   | 01C | -0.19  |           |          | TEH  | TEC |
| 39  | 26  | 0.59  | 133   | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 39  | 26  | 0.79  | 146   | PCT | 0   | P1   | 02C | -0.18  |           |          | TEH  | TEC |
| 39  | 26  | 0.47  | 123   | DSI |     | P1   | 02H | 0.24   |           |          | TEH  | TEC |
| 39  | 38  | 0.59  | 76    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 39  | 39  | 2.20  | 0     | PCT | 26  | P2   | AV3 | -0.63  |           |          | 07H  | TEC |
| 39  | 39  | 2.11  | 0     | PCT | 26  | P2   | AV4 | 0.16   |           |          | 07H  | TEC |
| 39  | 39  | 2.10  | 0     | PCT | 25  | P2   | AV3 | -0.16  |           |          | TEH  | TEC |
| 39  | 39  | 1.25  | 0     | PCT | 19  | P2   | AV4 | 0.16   |           |          | TEH  | TEC |
| 39  | 43  | 0.32  | 130   | DSI |     | P1   | 01H | 0.06   |           |          | 07H  | TEH |
| 39  | 44  | 0.65  | 103   | DSI |     | P1   | 02H | 0.06   |           |          | 07H  | TEH |
| 39  | 48  | 1.35  | 99    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 39  | 48  | 1.79  | 0     | PCT | 23  | P2   | AV3 | -0.16  |           |          | 07H  | TEC |
| 39  | 48  | 1.48  | 0     | PCT | 21  | P2   | AV4 | -0.08  |           |          | 07H  | TEC |
| 39  | 48  | 0.83  | 91    | SAI |     | 3    | 01H | 0.04   | 0.47      |          | 01H  | 01H |
| 39  | 51  | 0.88  | 0     | PCT | 15  | P2   | AV3 | 0.05   |           |          | 07H  | TEC |
| 39  | 52  | 0.98  | 105   | DSI |     | P1   | 01H | 0.12   |           |          | 07H  | TEH |
| 39  | 56  | 2.98  | 0     | PCT | 30  | P2   | AV3 | 0.00   |           |          | 07H  | TEC |
| 39  | 56  | 1.53  | 0     | PCT | 21  | P2   | AV4 | 0.00   |           |          | 07H  | TEC |
| 39  | 56  | 0.14  | 83    | WAR |     | 2    | AV4 | -0.31  |           |          | AV4  | 07C |
| 39  | 56  | 0.46  | 121   | WAR |     | 2    | AV4 | 0.46   |           |          | AV4  | 07C |
| 39  | 57  | 0.47  | 95    | DSI |     | P1   | 05H | -0.05  |           |          | TEH  | TEC |
| 39  | 57  | 4.26  | 0     | PCT | 35  | P2   | AV3 | 0.27   |           |          | TEH  | TEC |
| 39  | 57  | 1.43  | 0     | PCT | 21  | P2   | AV4 | -0.43  |           |          | TEH  | TEC |
| 39  | 57  | 0.42  | 130   | WAR |     | 2    | AV4 | 0.38   |           |          | AV4  | 07C |
| 39  | 57  | 0.37  | 125   | WAR |     | 2    | AV4 | -0.38  |           |          | AV4  | 07C |
| 39  | 58  | 2.56  | 0     | PCT | 27  | P2   | AV3 | 0.00   |           |          | TEH  | TEC |
| 39  | 60  | 2.10  | 0     | PCT | 25  | P2   | AV4 | -0.11  |           |          | TEH  | TEC |
| 39  | 60  | 0.39  | 129   | WAR |     | 2    | AV4 | -0.03  |           |          | AV4  | 07C |
| 39  | 61  | 5.10  | 0     | PCT | 37  | P2   | AV3 | 0.32   |           |          | TEH  | TEC |
| 39  | 71  | 0.54  | 177   | PCT | 0   | P1   | 01C | -0.05  |           |          | TEH  | TEC |
| 39  | 71  | 0.58  | 132   | PCT | 0   | P1   | 02C | -0.24  |           |          | TEH  | TEC |
| 39  | 71  | 1.09  | 0     | PCT | 17  | P2   | AV1 | -0.03  |           |          | TEH  | TEC |
| 39  | 72  | 1.65  | 114   | PCT | 20  | P1   | 02C | 0.19   |           |          | TEH  | TEC |
| 39  | 72  | 0.40  | 134   | VOL |     | P1   | 02C | 0.20   |           |          | 02C  | 02C |
| 39  | 72  | 0.27  | 112   | VOL |     | P1   | 02C | -0.18  |           |          | 02C  | 02C |
| 39  | 73  | 0.91  | 124   | PCT | 0   | P1   | 02C | 0.13   |           |          | TEH  | TEC |
| 40  | 24  | 0.43  | 130   | PCT | 4   | P1   | 01C | -0.19  |           |          | TEH  | TEC |
| 40  | 24  | 0.13  | 117   | VOL |     | P1   | 01C | -0.19  |           |          | 01C  | 01C |
| 40  | 27  | 0.43  | 127   | PCT | 10  | P1   | 01C | -0.24  |           |          | TEH  | TEC |
| 40  | 27  | 1.03  | 137   | PCT | 0   | P1   | 02C | -0.19  |           |          | TEH  | TEC |
| 40  | 27  | 0.09  | 97    | VOL |     | P1   | 01C | -0.14  |           |          | 01C  | 01C |
| 40  | 28  | 0.51  | 139   | PCT | 0   | P1   | 02C | -0.08  |           |          | TEH  | TEC |
| 40  | 53  | 0.82  | 0     | PCT | 14  | P2   | AV3 | 0.00   |           |          | 07H  | TEC |
| 40  | 53  | 1.04  | 0     | PCT | 16  | P2   | AV4 | 0.05   |           |          | 07H  | TEC |
| 40  | 53  | 0.10  | 122   | WAR |     | 2    | AV4 | 0.05   |           |          | AV4  | 07C |
| 40  | 66  | 0.79  | 133   | PCT | 2   | P1   | 02C | 0.16   |           |          | TEH  | TEC |
| 40  | 70  | 0.98  | 119   | PCT | 11  | P1   | 01C | -0.16  |           |          | TEH  | TEC |
| 40  | 70  | 1.14  | 123   | PCT | 0   | P1   | 02C | -0.21  |           |          | TEH  | TEC |

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| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 40  | 70  | 0.24  | 117   | VOL |     | P1   | 01C | -0.16  |           |          | 01C  | 01C |
| 40  | 71  | 0.32  | 96    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 40  | 71  | 1.21  | 50    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 40  | 71  | 0.18  | 116   | SAI |     | 3    | 02H | 0.07   | 0.19      |          | 02H  | 02H |
| 41  | 26  | 0.86  | 134   | PCT | 0   | P1   | 01C | -0.19  |           |          | TEH  | TEC |
| 41  | 26  | 2.01  | 115   | PCT | 27  | P1   | 02C | -0.18  |           |          | TEH  | TEC |
| 41  | 27  | 2.13  | 114   | PCT | 31  | P1   | 02C | -0.19  |           |          | TEH  | TEC |
| 41  | 41  | 1.02  | 0     | PCT | 17  | P2   | AV4 | 0.00   |           |          | 07H  | TEC |
| 41  | 43  | 1.36  | 0     | PCT | 20  | P2   | AV1 | 0.00   |           |          | 07H  | TEC |
| 41  | 43  | 4.24  | 0     | PCT | 35  | P2   | AV2 | 0.00   |           |          | 07H  | TEC |
| 41  | 43  | 4.72  | 0     | PCT | 36  | P2   | AV3 | 0.00   |           |          | 07H  | TEC |
| 41  | 43  | 1.90  | 0     | PCT | 25  | P2   | AV4 | 0.00   |           |          | 07H  | TEC |
| 41  | 46  | 1.31  | 101   | DSI |     | P1   | 01H | 0.09   |           |          | 07H  | TEH |
| 41  | 46  | 0.50  | 108   | MAI |     | 3    | 01H | 0.01   | 0.37      |          | 01H  | 01H |
| 41  | 51  | 1.12  | 0     | PCT | 17  | P2   | AV3 | 0.00   |           |          | 07H  | TEC |
| 41  | 51  | 1.13  | 0     | PCT | 17  | P2   | AV4 | 0.00   |           |          | 07H  | TEC |
| 41  | 53  | 0.75  | 52    | DSI |     | P1   | 02H | 0.06   |           |          | 07H  | TEH |
| 41  | 61  | 1.06  | 0     | PCT | 16  | P2   | AV1 | 0.00   |           |          | TEH  | TEC |
| 41  | 64  | 0.74  | 0     | PCT | 20  | P2   | AV3 | -0.11  |           |          | TEH  | TEC |
| 41  | 66  | 1.23  | 130   | PCT | 7   | P1   | 01C | -0.16  |           |          | TEH  | TEC |
| 41  | 69  | 0.57  | 141   | PCT | 0   | P1   | 02C | -0.16  |           |          | TEH  | TEC |
| 42  | 28  | 1.44  | 124   | PCT | 15  | P1   | 02C | 0.05   |           |          | TEH  | TEC |
| 42  | 28  | 0.25  | 121   | VOL |     | P1   | 02C | 0.05   |           |          | 02C  | 02C |
| 42  | 29  | 0.91  | 129   | PCT | 8   | P1   | 02C | 0.00   |           |          | TEH  | TEC |
| 42  | 29  | 0.38  | 129   | VOL |     | P1   | 02C | 0.00   |           |          | 02C  | 02C |
| 42  | 30  | 0.76  | 126   | PCT | 12  | P1   | 02C | -0.10  |           |          | TEH  | TEC |
| 42  | 33  | 1.95  | 117   | PCT | 25  | P1   | 02C | -0.16  |           |          | TEH  | TEC |
| 42  | 33  | 0.96  | 112   | VOL |     | P1   | 02C | -0.16  |           |          | 02C  | 02C |
| 42  | 34  | 1.38  | 104   | PCT | 42  | P1   | 01C | 0.00   |           |          | TEH  | TEC |
| 42  | 34  | 0.69  | 109   | VOL |     | P1   | 01C | 0.05   |           |          | 01C  | 01C |
| 42  | 35  | 0.39  | 147   | PCT | 0   | P1   | 02C | -0.19  |           |          | TEH  | TEC |
| 42  | 36  | 0.80  | 123   | PCT | 15  | P1   | 01C | -0.05  |           |          | TEH  | TEC |
| 42  | 51  | 1.19  | 97    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 42  | 51  | 0.74  | 113   | SAI |     | 3    | 01H | -0.02  | 0.38      |          | 01H  | 01H |
| 42  | 52  | 1.27  | 0     | PCT | 19  | P2   | AV1 | 0.08   |           |          | 07H  | TEC |
| 42  | 57  | 0.45  | 126   | PCT | 13  | P1   | 01C | -0.16  |           |          | TEH  | TEC |
| 42  | 59  | 0.42  | 130   | PCT | 7   | P1   | 02C | -0.05  |           |          | TEH  | TEC |
| 42  | 60  | 0.92  | 136   | PCT | 0   | P1   | 02C | -0.26  |           |          | TEH  | TEC |
| 42  | 62  | 0.49  | 133   | PCT | 2   | P1   | 01C | -0.11  |           |          | TEH  | TEC |
| 42  | 62  | 0.43  | 59    | DSI |     | P1   | 04H | 0.08   |           |          | TEH  | TEC |
| 42  | 62  | 0.40  | 119   | DSI |     | P1   | 05H | 0.11   |           |          | TEH  | TEC |
| 42  | 62  | 0.17  | 124   | VOL |     | P1   | 01C | -0.06  |           |          | 01C  | 01C |
| 42  | 67  | 0.16  | 139   | SVI |     | 3    | TSH | 0.72   | 0.31      | 45       | TSH  | TSH |
| 43  | 31  | 1.78  | 0     | PCT | 24  | P2   | AV4 | 0.11   |           |          | TEH  | TEC |
| 43  | 34  | 1.14  | 125   | PCT | 12  | P1   | 01C | -0.16  |           |          | TEH  | TEC |
| 43  | 34  | 0.89  | 126   | PCT | 10  | P1   | 02C | 0.03   |           |          | TEH  | TEC |
| 43  | 36  | 0.33  | 138   | PCT | 0   | P1   | 01C | 0.03   |           |          | TEH  | TEC |
| 43  | 36  | 0.77  | 133   | PCT | 0   | P1   | 02C | -0.21  |           |          | TEH  | TEC |
| 43  | 38  | 0.56  | 101   | DSI |     | P1   | 01H | 0.39   |           |          | TEH  | TEC |
| 43  | 41  | 0.16  | 113   | DSI |     | P1   | 05H | 0.03   |           |          | 07H  | TEH |
| 43  | 45  | 0.70  | 106   | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 43  | 48  | 0.90  | 122   | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 43  | 49  | 0.37  | 111   | DSI |     | P1   | 01H | 0.06   |           |          | 07H  | TEH |
| 43  | 50  | 0.43  | 134   | PCT | 0   | P1   | 01C | 0.13   |           |          | 07H  | TEC |
| 43  | 57  | 1.31  | 0     | PCT | 26  | P2   | AV1 | -0.13  |           |          | TEH  | TEC |
| 43  | 59  | 1.47  | 130   | PCT | 7   | P1   | 01C | -0.13  |           |          | TEH  | TEC |
| 43  | 59  | 1.49  | 0     | PCT | 28  | P2   | AV1 | 0.00   |           |          | TEH  | TEC |
| 43  | 59  | 0.42  | 120   | VOL |     | P1   | 01C | -0.12  |           |          | 01C  | 01C |
| 43  | 61  | 1.33  | 0     | PCT | 18  | P2   | AV1 | 0.00   |           |          | TEH  | TEC |
| 43  | 63  | 0.64  | 132   | PCT | 4   | P1   | 02C | -0.05  |           |          | TEH  | TEC |
| 43  | 64  | 0.57  | 137   | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 43  | 64  | 0.44  | 120   | PCT | 21  | P1   | 02C | -0.19  |           |          | TEH  | TEC |
| 43  | 64  | 0.16  | 135   | VOL |     | P1   | 02C | -0.19  |           |          | 02C  | 02C |
| 43  | 65  | 1.29  | 126   | PCT | 13  | P1   | 02C | 0.05   |           |          | TEH  | TEC |
| 44  | 36  | 0.49  | 147   | PCT | 0   | P1   | 01C | -0.05  |           |          | TEH  | TEC |
| 44  | 36  | 1.09  | 114   | PCT | 29  | P1   | 02C | 0.08   |           |          | TEH  | TEC |
| 44  | 37  | 0.68  | 131   | PCT | 2   | P1   | 01C | -0.03  |           |          | TEH  | TEC |
| 44  | 37  | 0.52  | 129   | PCT | 5   | P1   | 02C | -0.03  |           |          | TEH  | TEC |
| 44  | 37  | 0.28  | 140   | VOL |     | P1   | 02C | 0.07   |           |          | 02C  | 02C |
| 44  | 38  | 1.03  | 114   | PCT | 31  | P1   | 01C | -0.16  |           |          | 07H  | TEC |
| 44  | 38  | 1.74  | 125   | PCT | 13  | P1   | 02C | -0.19  |           |          | 07H  | TEC |
| 44  | 38  | 1.08  | 117   | PCT | 27  | P1   | 01C | -0.11  |           |          | TEH  | TEC |
| 44  | 38  | 1.76  | 126   | PCT | 14  | P1   | 02C | -0.16  |           |          | TEH  | TEC |
| 44  | 38  | 0.59  | 131   | VOL |     | P1   | 01C | -0.09  |           |          | 01C  | 01C |
| 44  | 38  | 0.31  | 126   | VOL |     | P1   | 02C | -0.15  |           |          | 02C  | 02C |
| 44  | 39  | 0.54  | 144   | PCT | 0   | P1   | 02C | 0.13   |           |          | 07H  | TEC |
| 44  | 39  | 0.56  | 144   | PCT | 0   | P1   | 02C | 0.08   |           |          | TEH  | TEC |
| 44  | 41  | 0.30  | 133   | PCT | 0   | P1   | 02C | 0.11   |           |          | 07H  | TEC |
| 44  | 41  | 1.13  | 0     | PCT | 18  | P2   | AV4 | 0.00   |           |          | 07H  | TEC |
| 44  | 43  | 0.83  | 128   | PCT | 8   | P1   | 02C | -0.21  |           |          | 07H  | TEC |
| 44  | 43  | 0.67  | 0     | PCT | 12  | P2   | AV1 | 0.00   |           |          | 07H  | TEC |
| 44  | 44  | 0.29  | 121   | PCT | 20  | P1   | 01C | -0.05  |           |          | 07H  | TEC |
| 44  | 50  | 0.25  | 131   | PCT | 4   | P1   | 01C | 0.00   |           |          | 07H  | TEC |
| 44  | 50  | 0.64  | 130   | PCT | 6   | P1   | 02C | -0.26  |           |          | 07H  | TEC |
| 44  | 50  | 1.22  | 0     | PCT | 18  | P2   | AV4 | -0.11  |           |          | 07H  | TEC |
| 44  | 51  | 0.43  | 142   | PCT | 0   | P1   | 01C | -0.27  |           |          | 07H  | TEC |
| 44  | 53  | 1.27  | 113   | PCT | 32  | P1   | 01C | -0.08  |           |          | 07H  | TEC |
| 44  | 53  | 0.68  | 110   | VOL |     | 3    | 01C | -0.08  |           |          | 01C  | 01C |
| 44  | 57  | 0.46  | 117   | PCT | 25  | P1   | 01C | -0.08  |           |          | TEH  | TEC |
| 44  | 57  | 0.75  | 126   | PCT | 13  | P1   | 02C | 0.03   |           |          | TEH  | TEC |
| 44  | 58  | 0.90  | 140   | PCT | 0   | P1   | 01C | -0.08  |           |          | TEH  | TEC |
| 44  | 59  | 0.71  | 134   | PCT | 1   | P1   | 01C | -0.13  |           |          | TEH  | TEC |
| 44  | 59  | 0.59  | 136   | PCT | 0   | P1   | 02C | -0.13  |           |          | TEH  | TEC |
| 44  | 62  | 0.59  | 142   | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 44  | 62  | 1.57  | 113   | PCT | 31  | P1   | 02C | -0.19  |           |          | TEH  | TEC |
| 45  | 36  | 0.59  | 137   | PCT | 0   | P1   | 01C | 0.11   |           |          | TEH  | TEC |
| 45  | 36  | 1.43  | 110   | PCT | 34  | P1   | 02C | 0.00   |           |          | TEH  | TEC |
| 45  | 36  | 0.83  | 131   | VOL |     | P1   | 02C | 0.00   |           |          | 02C  | 02C |
| 45  | 39  | 1.91  | 124   | PCT | 15  | P1   | 02C | -0.10  |           |          | 07H  | TEC |
| 45  | 39  | 0.66  | 129   | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 45  | 39  | 1.90  | 123   | PCT | 17  | P1   | 02C | -0.18  |           |          | TEH  | TEC |
| 45  | 39  | 0.30  | 141   | VOL |     | P1   | 02C | -0.19  |           |          | 02C  | 02C |



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**1RC-E-1B**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 45  | 40  | 0.46  | 125   | DSI |     | P1   | 03H | 0.27   |           |          | TEH  | TEC |
| 45  | 41  | 20.70 | 134   | PSI |     | 8    | 07H | 0.00   |           |          | 07H  | TEH |
| 45  | 41  | 22.35 | 132   | PSI |     | 8    | 07H | 0.00   |           |          | 07H  | TEC |
| 45  | 41  | 0.30  | 74    | CSI |     | 11   | 07H | 0.00   |           | 35       | 07H  | 07H |
| 45  | 42  | 0.57  | 129   | PCT | 8   | P1   | 01C | 0.21   |           |          | 07H  | TEC |
| 45  | 42  | 0.88  | 126   | PCT | 12  | P1   | 01C | -0.16  |           |          | 07H  | TEC |
| 45  | 42  | 1.77  | 125   | PCT | 14  | P1   | 02C | -0.18  |           |          | 07H  | TEC |
| 45  | 42  | 0.24  | 126   | VOL |     | P1   | 01C | -0.11  |           |          | 01C  | 01C |
| 45  | 43  | 0.70  | 127   | PCT | 10  | P1   | 01C | -0.03  |           |          | 07H  | TEC |
| 45  | 43  | 0.80  | 119   | PCT | 23  | P1   | 02C | -0.03  |           |          | 07H  | TEC |
| 45  | 43  | 0.40  | 124   | VOL |     | P1   | 02C | -0.06  |           |          | 02C  | 02C |
| 45  | 44  | 1.08  | 129   | PCT | 8   | P1   | 01C | -0.11  |           |          | 07H  | TEC |
| 45  | 44  | 0.65  | 127   | PCT | 11  | P1   | 02C | -0.05  |           |          | 07H  | TEC |
| 45  | 45  | 0.33  | 130   | PCT | 4   | P1   | 02C | -0.27  |           |          | 07H  | TEC |
| 45  | 46  | 0.38  | 135   | PCT | 0   | P1   | 01C | -0.18  |           |          | 07H  | TEC |
| 45  | 46  | 1.25  | 138   | PCT | 0   | P1   | 02C | -0.18  |           |          | 07H  | TEC |
| 45  | 47  | 0.65  | 121   | PCT | 20  | P1   | 01C | -0.22  |           |          | 07H  | TEC |
| 45  | 47  | 0.73  | 150   | PCT | 0   | P1   | 02C | -0.16  |           |          | 07H  | TEC |
| 45  | 47  | 0.10  | 114   | VOL |     | P1   | 01C | -0.21  |           |          | 01C  | 01C |
| 45  | 49  | 1.21  | 121   | PCT | 20  | P1   | 01C | -0.16  |           |          | 07H  | TEC |
| 45  | 53  | 1.38  | 111   | PCT | 34  | P1   | 01C | -0.11  |           |          | 07H  | TEC |
| 45  | 53  | 0.47  | 136   | PCT | 0   | P1   | 02C | -0.23  |           |          | 07H  | TEC |
| 45  | 56  | 0.82  | 128   | PCT | 9   | P1   | 02C | -0.13  |           |          | 07H  | TEC |
| 45  | 56  | 0.17  | 142   | VOL |     | P1   | 02C | 0.07   |           |          | 02C  | 02C |
| 45  | 57  | 0.89  | 133   | PCT | 2   | P1   | 01C | -0.08  |           |          | TEH  | TEC |
| 45  | 58  | 0.79  | 131   | PCT | 5   | P1   | 01C | -0.05  |           |          | TEH  | TEC |
| 45  | 58  | 0.36  | 128   | PCT | 10  | P1   | 02C | -0.24  |           |          | TEH  | TEC |
| 45  | 58  | 0.23  | 112   | VOL |     | 3    | 01C | -0.05  |           |          | 01C  | 01C |
| 45  | 58  | 0.20  | 130   | VOL |     | 3    | 02C | -0.24  |           |          | 02C  | 02C |
| 46  | 41  | 17.91 | 137   | PSI |     | 8    | 07H | 0.00   |           |          | 07H  | TEH |
| 46  | 41  | 19.91 | 135   | PSI |     | 8    | 07H | 0.00   |           |          | 07H  | TEC |
| 46  | 41  | 0.25  | 69    | CSI |     | 11   | 07H | 0.00   |           | 35       | 07H  | 07H |
| 46  | 44  | 0.82  | 123   | PCT | 17  | P1   | 01C | 0.16   |           |          | 07H  | TEC |
| 46  | 45  | 1.36  | 115   | PCT | 28  | P1   | 02C | -0.08  |           |          | 07H  | TEC |
| 46  | 45  | 0.47  | 106   | VOL |     | 3    | 02C | -0.01  |           |          | 02C  | 02C |
| 46  | 46  | 0.85  | 122   | PCT | 19  | P1   | 01C | -0.11  |           |          | 07H  | TEC |
| 46  | 46  | 0.96  | 119   | PCT | 23  | P1   | 02C | 0.05   |           |          | 07H  | TEC |
| 46  | 46  | 0.58  | 95    | VOL |     | 3    | 02C | 0.05   |           |          | 02C  | 02C |

# ATTACHMENT 2A

BEAVER VALLEY UNIT #1  
1R14 S/G EXAMINATION RESULTS  
**1RC-E-1B**  
TUBES REPAIRED VIA PLUGGING

BEAVER VALLEY UNIT #1  
1R14 S/G EXAMINATION RESULTS

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**1RC-E-1B**

(TUBES REPAIRED VIA PLUGGING)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 1   | 24  | 0.90  | 25    | SAI |     | 2    | 07H | 10.46  | 0.20      |          | 07H  | 07C |
| 1   | 24  | 0.94  | 15    | SAI |     | 2    | 07H | 10.35  | 0.21      |          | 07C  | 07H |
| 1   | 28  | 0.97  | 96    | WAR |     | 5    | TSH | 23.36  |           |          | 07H  | TEH |
| 1   | 67  | 0.72  | 119   | SVI |     | 3    | TSH | 22.99  | 1.30      | 61       | TSH  | 01H |
| 1   | 86  | 0.23  | 127   | SVI |     | 3    | TSH | 23.00  | 0.94      | 43       | TSH  | 01H |
| 3   | 23  |       |       |     |     |      |     |        |           |          |      |     |
|     |     |       |       |     |     |      |     |        |           |          |      |     |
| 3   | 71  | 0.13  | 117   | SAI |     | 3    | TSH | 0.21   | 0.11      |          | TSH  | TSH |
| 3   | 78  | 0.13  | 88    | SAI |     | 3    | TSH | 0.40   | 0.26      |          | TSH  | TSH |
| 3   | 78  | 0.09  | 68    | SAI |     | 3    | TSH | 0.14   | 0.13      |          | TSH  | TSH |
| 4   | 23  |       |       |     |     |      |     |        |           |          |      |     |
|     |     |       |       |     |     |      |     |        |           |          |      |     |
| 6   | 31  | 0.13  | 110   | MAI |     | 3    | TSH | 0.17   | 0.17      |          | TSH  | TSH |
| 6   | 31  | 0.10  | 102   | MAI |     | 3    | TSH | 0.17   | 0.11      |          | TSH  | TSH |
| 6   | 32  | 0.10  | 101   | SAI |     | 3    | TSH | 0.15   | 0.19      |          | TSH  | TSH |
| 7   | 11  |       |       |     |     |      |     |        |           |          |      |     |
|     |     |       |       |     |     |      |     |        |           |          |      |     |
| 7   | 30  | 0.20  | 109   | SAI |     | 3    | TSH | 0.49   | 0.63      |          | TSH  | TSH |
| 7   | 60  | 2.12  | 110   | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 7   | 60  | 0.65  | 116   | MAI |     | 3    | 01H | -0.03  | 0.53      |          | 01H  | 01H |
| 8   | 29  |       |       |     |     |      |     |        |           |          |      |     |
|     |     |       |       |     |     |      |     |        |           |          |      |     |
| 8   | 30  | 0.26  | 106   | SAI |     | 3    | TSH | 0.28   | 0.17      |          | TSH  | TSH |
| 12  | 30  | 0.13  | 107   | SAI |     | 3    | TSH | 1.31   | 1.23      |          | TSH  | TSH |
| 12  | 30  | 0.14  | 115   | SAI |     | 3    | TSH | 1.46   | 0.79      |          | TSH  | TSH |
| 12  | 30  | 0.12  | 121   | SAI |     | 3    | TSH | 1.03   | 0.28      |          | TSH  | TSH |
| 13  | 35  |       |       |     |     |      |     |        |           |          |      |     |
|     |     |       |       |     |     |      |     |        |           |          |      |     |
| 13  | 56  | 0.09  | 93    | SAI |     | 3    | TSH | 0.68   | 0.24      |          | TSH  | TSH |
| 13  | 56  | 0.15  | 120   | SAI |     | 3    | TSH | 0.48   | 0.19      |          | TSH  | TSH |
| 14  | 26  | 0.09  | 94    | MAI |     | 3    | TSH | 0.35   | 0.19      |          | TSH  | TSH |
| 14  | 68  | 2.04  | 92    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 14  | 68  | 0.86  | 106   | MAI |     | 3    | 01H | 0.04   | 0.72      |          | 01H  | 01H |
| 15  | 26  | 0.12  | 121   | SAI |     | 3    | TSH | 0.51   | 0.19      |          | TSH  | TSH |
| 15  | 33  | 0.18  | 116   | SAI |     | 3    | TSH | 1.83   | 0.34      |          | TSH  | TSH |
| 15  | 79  | 0.95  | 9     | SAI |     | 3    | TSH | -8.30  | 0.20      |          | TSH  | TSH |
| 16  | 52  | 0.17  | 104   | SAI |     | 3    | TSH | 0.40   | 0.30      |          | TSH  | TSH |
| 18  | 30  | 0.13  | 92    | SAI |     | 3    | TSH | 0.46   | 0.27      |          | TSH  | TSH |
| 18  | 31  | 0.09  | 119   | MAI |     | 3    | TSH | 0.27   | 0.13      |          | TSH  | TSH |
| 18  | 45  | 0.15  | 102   | SAI |     | 3    | TSH | 0.46   | 0.35      |          | TSH  | TSH |
| 19  | 30  | 0.11  | 118   | SAI |     | 3    | TSH | 0.50   | 0.26      |          | TSH  | TSH |
| 19  | 61  | 2.03  | 108   | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 19  | 61  | 0.48  | 73    | MAI |     | 3    | 01H | -0.04  | 0.61      |          | 01H  | 01H |
| 19  | 61  | 2.07  | 99    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 19  | 61  | 0.91  | 107   | SAI |     | 3    | 02H | -0.06  | 0.69      |          | 02H  | 02H |
| 19  | 81  | 2.04  | 106   | DSI |     | P1   | 01H | 0.29   |           |          | TEH  | TEC |
| 19  | 81  | 0.90  | 103   | MAI |     | 3    | 01H | 0.10   | 0.55      |          | 01H  | 01H |
| 26  | 64  | 0.15  | 150   | SCI |     | P1   | TSH | 0.18   |           | 90       | TSH  | TSH |
| 26  | 64  | 0.04  | 81    | SCI |     | P1   | TSH | 0.07   |           | 90       | TSH  | TSH |
| 27  | 64  | 0.05  | 109   | SCI |     | P1   | TSH | 0.12   |           | 90       | TSH  | TSH |
| 27  | 64  | 0.09  | 111   | SCI |     | P1   | TSH | 0.02   |           | 90       | TSH  | TSH |
| 28  | 56  | 0.30  | 116   | SCI |     | P1   | TSH | 0.19   |           | 57       | TSH  | TSH |
| 28  | 56  | 0.27  | 128   | SCI |     | P1   | TSH | 0.33   |           | 57       | TSH  | TSH |
| 35  | 22  | 1.30  | 17    | SAI |     | 3    | TSH | -1.51  | 0.18      |          | TSH  | TSH |
| 35  | 72  | 1.15  | 11    | SAI |     | 3    | TSH | -10.55 | 0.13      |          | TSH  | TSH |
| 35  | 72  | 1.02  | 13    | SAI |     | 3    | TSH | -8.41  | 0.21      |          | TSH  | TSH |

BEAVER VALLEY UNIT #1  
1R14 S/G EXAMINATION RESULTS

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**1RC-E-1B**

(TUBES REPAIRED VIA PLUGGING)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To                       |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|--------------------------|
| 42  | 34  | 1.38  | 104   | PCT | 42  | P1   | 01C | 0.00   |           |          | TEH  | TEC                      |
| 42  | 67  | 0.16  | 139   | SVI |     | 3    | TSH | 0.72   | 0.31      | 45       | TSH  | TSH                      |
| 44  | 53  |       |       |     |     |      |     |        |           |          |      | ADMINISTRATIVELY PLUGGED |
| 44  | 54  |       |       |     |     |      |     |        |           |          |      | ADMINISTRATIVELY PLUGGED |
| 45  | 53  |       |       |     |     |      |     |        |           |          |      | ADMINISTRATIVELY PLUGGED |

# **ATTACHMENT 3**

BEAVER VALLEY UNIT #1  
1R14 S/G EXAMINATION RESULTS  
**1RC-E-1C**  
TUBES WITH INDICATIONS

BEAVER VALLEY UNIT #1  
1R14 S/G EXAMINATION RESULTS

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**1RC-E-1C**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 1   | 9   | 0.33  | 77    | WAR |     | 5    | TSH | 22.46  |           |          | 07H  | TEH |
| 1   | 28  | 0.86  | 93    | WAR |     | 5    | TSH | 22.50  |           |          | 07H  | TEH |
| 1   | 31  | 1.13  | 16    | SCI |     | P2   | 07H | 7.93   |           | 71       | 07H  | 07C |
| 1   | 45  | 1.52  | 76    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 1   | 45  | 0.17  | 96    | SAI |     | 3    | 01H | 0.12   | 0.28      |          | 01H  | 01H |
| 1   | 47  | 1.20  | 46    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 1   | 47  | 1.01  | 96    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 1   | 67  | 2.96  | 71    | MBI |     | 6    | TSH | 23.20  |           |          | 07H  | TEH |
| 1   | 67  | 3.07  | 79    | MBI |     | 6    | TSC | 22.60  |           |          | 07C  | TEC |
| 1   | 67  | 3.06  | 76    | MBI |     | 6    | TSC | 22.72  |           |          | 07C  | TEC |
| 1   | 67  | 0.68  | 108   | SVI |     | 3    | TSC | 22.77  | 1.25      | 57       | TSC  | 01C |
| 1   | 67  | 0.72  | 114   | SVI |     | P1   | TSH | 22.94  | 1.35      | 57       | TSH  | TSH |
| 1   | 86  | 0.50  | 62    | DSI |     | P1   | 02H | -0.06  |           |          | 07H  | TEH |
| 1   | 86  | 0.12  | 131   | FSI |     | 1    | TSH | 23.06  |           |          | 07H  | TEH |
| 1   | 86  | 0.22  | 114   | SVI |     | P1   | TSH | 23.26  | 0.66      | 45       | TSH  | 01H |
| 1   | 87  | 0.71  | 42    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 1   | 90  | 1.00  | 31    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 1   | 90  | 0.24  | 124   | SAI |     | 3    | 02H | 0.03   | 0.34      |          | 02H  | 02H |
| 1   | 93  | 1.19  | 34    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 1   | 93  | 0.35  | 66    | DSI |     | P1   | 05H | 0.06   |           |          | 07H  | TEH |
| 1   | 94  | 0.54  | 52    | DSI |     | P1   | 02H | -0.09  |           |          | 07H  | TEH |
| 1   | 94  | 0.74  | 39    | DSI |     | P1   | 03H | -0.03  |           |          | 07H  | TEH |
| 2   | 3   | 0.74  | 109   | DSI |     | P1   | 04H | -0.09  |           |          | 07H  | TEH |
| 2   | 6   | 1.31  | 35    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 2   | 6   | 0.95  | 62    | DSI |     | P1   | 02H | -0.09  |           |          | 07H  | TEH |
| 2   | 6   | 0.63  | 39    | DSI |     | P1   | 03H | -0.09  |           |          | 07H  | TEH |
| 2   | 7   | 1.26  | 72    | DSI |     | P1   | 01H | -0.08  |           |          | 07H  | TEH |
| 2   | 7   | 1.29  | 83    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 2   | 7   | 1.27  | 70    | DSI |     | P1   | 03H | -0.08  |           |          | 07H  | TEH |
| 2   | 8   | 0.76  | 114   | DSI |     | P1   | 01H | -0.21  |           |          | 07H  | TEH |
| 2   | 8   | 0.70  | 77    | DSI |     | P1   | 02H | -0.06  |           |          | 07H  | TEH |
| 2   | 8   | 0.55  | 84    | DSI |     | P1   | 03H | -0.15  |           |          | 07H  | TEH |
| 2   | 10  | 0.83  | 58    | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 2   | 10  | 1.21  | 82    | DSI |     | P1   | 03H | 0.00   |           |          | 07H  | TEH |
| 2   | 11  | 1.36  | 48    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 2   | 11  | 0.75  | 61    | DSI |     | P1   | 02H | -0.09  |           |          | 07H  | TEH |
| 2   | 11  | 0.48  | 106   | DSI |     | P1   | 03H | -0.12  |           |          | 07H  | TEH |
| 2   | 12  | 1.23  | 50    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 2   | 13  | 0.94  | 74    | DSI |     | P1   | 01H | -0.05  |           |          | 07H  | TEH |
| 2   | 14  | 0.74  | 71    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 2   | 14  | 0.59  | 85    | DSI |     | P1   | 02H | 0.12   |           |          | 07H  | TEH |
| 2   | 15  | 0.83  | 63    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 2   | 15  | 0.87  | 57    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 2   | 15  | 0.59  | 57    | DSI |     | P1   | 03H | -0.05  |           |          | 07H  | TEH |
| 2   | 17  | 1.55  | 77    | DSI |     | P1   | 01H | 0.05   |           |          | 07H  | TEH |
| 2   | 17  | 1.03  | 62    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 2   | 18  | 0.83  | 74    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 2   | 18  | 0.87  | 64    | DSI |     | P1   | 02H | -0.09  |           |          | 07H  | TEH |
| 2   | 18  | 0.76  | 63    | DSI |     | P1   | 03H | -0.06  |           |          | 07H  | TEH |
| 2   | 19  | 1.10  | 86    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 2   | 19  | 0.76  | 93    | DSI |     | P1   | 02H | 0.11   |           |          | 07H  | TEH |

BEAVER VALLEY UNIT #1  
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**1RC-E-1C**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 2   | 19  | 0.60  | 55    | DSI |     | P1   | 03H | -0.03  |           |          | 07H  | TEH |
| 2   | 20  | 0.67  | 51    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 2   | 23  | 1.04  | 56    | DSI |     | P1   | 01H | -0.08  |           |          | 07H  | TEH |
| 2   | 23  | 0.57  | 54    | DSI |     | P1   | 02H | -0.05  |           |          | 07H  | TEH |
| 2   | 25  | 1.17  | 77    | DSI |     | P1   | 01H | -0.08  |           |          | 07H  | TEH |
| 2   | 25  | 0.93  | 81    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 2   | 26  | 0.86  | 56    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 2   | 26  | 0.84  | 41    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 2   | 26  | 0.66  | 132   | DSI |     | P1   | 03H | 0.09   |           |          | 07H  | TEH |
| 2   | 28  | 1.07  | 50    | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 2   | 33  | 0.93  | 45    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 2   | 33  | 0.40  | 104   | DSI |     | P1   | 02H | 0.16   |           |          | 07H  | TEH |
| 2   | 42  | 0.49  | 52    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 2   | 44  | 0.21  | 88    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 2   | 46  | 0.56  | 55    | DSI |     | P1   | 02H | 0.03   |           |          | 07H  | TEH |
| 2   | 48  | 0.65  | 62    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 2   | 49  | 0.71  | 73    | DSI |     | P1   | 01H | -0.08  |           |          | 07H  | TEH |
| 2   | 50  | 0.49  | 37    | DSI |     | P1   | 02H | -0.06  |           |          | 07H  | TEH |
| 2   | 54  | 0.79  | 80    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 2   | 54  | 0.85  | 42    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 2   | 65  | 0.33  | 83    | DSI |     | P1   | 02H | 0.03   |           |          | 07H  | TEH |
| 2   | 75  | 0.27  | 66    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 2   | 76  | 0.64  | 81    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 2   | 87  | 0.26  | 106   | DSI |     | P1   | 06H | -0.03  |           |          | 07H  | TEH |
| 2   | 89  | 0.82  | 96    | DSI |     | P1   | 02H | 0.05   |           |          | 07H  | TEH |
| 3   | 9   | 0.73  | 42    | DSI |     | P1   | 03H | -0.11  |           |          | 07H  | TEH |
| 3   | 11  | 0.71  | 63    | DSI |     | P1   | 02H | -0.05  |           |          | 07H  | TEH |
| 3   | 12  | 0.61  | 38    | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 3   | 12  | 0.56  | 69    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 3   | 12  | 0.74  | 76    | DSI |     | P1   | 03H | -0.18  |           |          | 07H  | TEH |
| 3   | 13  | 0.51  | 51    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 3   | 13  | 0.40  | 54    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 3   | 14  | 0.64  | 43    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 3   | 14  | 0.95  | 81    | DSI |     | P1   | 02H | -0.06  |           |          | 07H  | TEH |
| 3   | 14  | 0.81  | 35    | DSI |     | P1   | 03H | -0.03  |           |          | 07H  | TEH |
| 3   | 14  | 0.98  | 79    | DSI |     | P1   | 02H | -0.03  |           |          | 07C  | 02H |
| 3   | 14  | 0.80  | 38    | DSI |     | P1   | 03H | -0.03  |           |          | 07C  | 02H |
| 3   | 16  | 0.78  | 60    | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 3   | 16  | 0.69  | 73    | DSI |     | P1   | 02H | -0.15  |           |          | 07H  | TEH |
| 3   | 17  | 0.54  | 49    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 3   | 22  | 0.34  | 113   | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 3   | 23  | 0.82  | 91    | DSI |     | P1   | 01H | -0.11  |           |          | 07H  | TEH |
| 3   | 23  | 0.41  | 107   | DSI |     | P1   | 02H | -0.08  |           |          | 07H  | TEH |
| 3   | 26  | 0.97  | 94    | DSI |     | P1   | 01H | -0.09  |           |          | 07H  | TEH |
| 3   | 26  | 0.43  | 118   | DSI |     | P1   | 02H | -0.06  |           |          | 07H  | TEH |
| 3   | 29  | 0.57  | 65    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 3   | 29  | 0.30  | 48    | DSI |     | P1   | 03H | -0.03  |           |          | 07H  | TEH |
| 3   | 29  | 0.20  | 123   | SAI |     | 3    | 02H | 0.09   | 0.50      |          | 02H  | 02H |
| 3   | 32  | 0.66  | 97    | DSI |     | P1   | 01H | -0.18  |           |          | 07H  | TEH |
| 3   | 33  | 0.77  | 101   | DSI |     | P1   | 01H | -0.08  |           |          | 07H  | TEH |
| 3   | 36  | 1.25  | 76    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 3   | 36  | 0.40  | 117   | DSI |     | P1   | 02H | -0.09  |           |          | 07H  | TEH |
| 3   | 37  | 0.66  | 57    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 3   | 37  | 0.57  | 33    | DSI |     | P1   | 02H | 0.03   |           |          | 07H  | TEH |
| 3   | 39  | 0.81  | 45    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 3   | 47  | 1.66  | 63    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 3   | 47  | 0.83  | 93    | MAI |     | 3    | 01H | 0.06   | 0.64      |          | 01H  | 01H |
| 3   | 48  | 0.63  | 67    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 3   | 50  | 1.05  | 104   | DSI |     | P1   | 01H | -0.12  |           |          | 07H  | TEH |
| 3   | 50  | 0.60  | 100   | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 3   | 51  | 0.78  | 98    | DSI |     | P1   | 01H | -0.11  |           |          | 07H  | TEH |
| 3   | 52  | 0.91  | 55    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 3   | 53  | 0.86  | 64    | DSI |     | P1   | 02H | -0.05  |           |          | 07H  | TEH |
| 3   | 58  | 1.03  | 65    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 3   | 58  | 0.58  | 60    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 3   | 58  | 0.29  | 69    | DSI |     | P1   | 05H | -0.03  |           |          | 07H  | TEH |
| 3   | 58  | 1.10  | 59    | DSI |     | P1   | 01H | -0.03  |           |          | 07C  | TEH |
| 3   | 58  | 0.55  | 63    | DSI |     | P1   | 02H | 0.00   |           |          | 07C  | TEH |
| 3   | 58  | 0.29  | 67    | DSI |     | P1   | 05H | 0.00   |           |          | 07C  | TEH |
| 3   | 62  | 1.73  | 27    | SCI |     | P1   | TSH | -7.66  |           | 27       | TSH  | TSH |
| 3   | 62  | 0.87  | 49    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 3   | 62  | 0.47  | 53    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 3   | 62  | 0.80  | 48    | DSI |     | P1   | 01H | 0.00   |           |          | 07C  | TEH |
| 3   | 62  | 0.47  | 58    | DSI |     | P1   | 02H | 0.06   |           |          | 07C  | TEH |
| 3   | 73  | 0.77  | 29    | SCI |     | P1   | TSH | -2.27  |           | 38       | TSH  | TSH |
| 3   | 73  | 1.10  | 130   | DSI |     | P1   | 01H | 0.11   |           |          | 07H  | TEH |
| 3   | 73  | 1.25  | 82    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 3   | 73  | 0.46  | 102   | DSI |     | P1   | 05H | -0.13  |           |          | 07H  | TEH |
| 3   | 81  | 0.36  | 57    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 3   | 93  | 0.46  | 139   | PCT | 0   | P1   | 01C | -0.11  |           |          | 07C  | TEC |
| 3   | 94  | 0.80  | 104   | DSI |     | P1   | 02H | -0.22  |           |          | 07H  | TEH |
| 3   | 94  | 0.82  | 129   | PCT | 12  | P1   | 01C | -0.15  |           |          | 07C  | TEC |
| 3   | 94  | 0.09  | 87    | SAI |     | 3    | 02H | -0.02  | 0.26      |          | 02H  | 02H |
| 3   | 94  | 0.38  | 126   | VOL |     | 3    | 01C | -0.16  |           |          | 01C  | 01C |
| 4   | 3   | 0.83  | 61    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 4   | 3   | 0.86  | 85    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 4   | 3   | 1.21  | 94    | DSI |     | P1   | 03H | -0.18  |           |          | 07H  | TEH |
| 4   | 4   | 0.60  | 34    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 4   | 7   | 0.84  | 51    | DSI |     | P1   | 02H | -0.05  |           |          | 07H  | TEH |
| 4   | 7   | 0.40  | 55    | DSI |     | P1   | 03H | 0.00   |           |          | 07H  | TEH |
| 4   | 8   | 1.17  | 36    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 4   | 8   | 0.29  | 113   | SAI |     | 3    | 01H | 0.01   | 0.29      |          | 01H  | 01H |
| 4   | 10  | 0.60  | 32    | DSI |     | P1   | 01H | -0.09  |           |          | 07H  | TEH |
| 4   | 11  | 1.06  | 28    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 4   | 11  | 0.22  | 133   | SAI |     | 3    | 01H | -0.02  | 0.17      |          | 01H  | 01H |
| 4   | 15  | 1.39  | 23    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 4   | 15  | 0.72  | 27    | DSI |     | P1   | 02H | -0.05  |           |          | 07H  | TEH |
| 4   | 18  | 0.97  | 31    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 4   | 31  | 0.70  | 48    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 4   | 32  | 0.61  | 67    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 4   | 32  | 0.72  | 46    | DSI |     | P1   | 02H | -0.15  |           |          | 07H  | TEH |
| 4   | 32  | 0.65  | 30    | DSI |     | P1   | 03H | -0.06  |           |          | 07H  | TEH |



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**1RC-E-1C**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 4   | 32  | 0.27  | 149   | DSI |     | P1   | 04H | 0.09   |           |          | 07H  | TEH |
| 4   | 33  | 1.02  | 32    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 4   | 35  | 0.72  | 63    | DSI |     | P1   | 01H | -0.05  |           |          | 07H  | TEH |
| 4   | 37  | 1.35  | 28    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 4   | 37  | 0.13  | 107   | SAI |     | 3    | 01H | 0.03   | 0.37      |          | 01H  | 01H |
| 4   | 40  | 0.73  | 141   | DSI |     | P1   | 01H | -0.18  |           |          | 07H  | TEH |
| 4   | 40  | 0.43  | 60    | DSI |     | P1   | 02H | -0.06  |           |          | 07H  | TEH |
| 4   | 41  | 0.36  | 119   | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 4   | 41  | 0.46  | 34    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 4   | 43  | 1.18  | 59    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 4   | 44  | 1.35  | 90    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 4   | 44  | 0.48  | 70    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 4   | 44  | 0.28  | 102   | MAI |     | 3    | 01H | 0.00   | 0.48      |          | 01H  | 01H |
| 4   | 45  | 0.83  | 46    | DSI |     | P1   | 01H | -0.05  |           |          | 07H  | TEH |
| 4   | 48  | 0.76  | 46    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 4   | 50  | 0.40  | 72    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 4   | 59  | 0.63  | 120   | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 4   | 59  | 0.64  | 120   | DSI |     | P1   | 01H | 0.03   |           |          | 07C  | TEH |
| 4   | 60  | 0.52  | 65    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 4   | 60  | 0.28  | 60    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 4   | 60  | 0.31  | 94    | DSI |     | P1   | 03H | 0.03   |           |          | 07H  | TEH |
| 4   | 60  | 0.48  | 59    | DSI |     | P1   | 01H | -0.03  |           |          | 07C  | TEH |
| 4   | 60  | 0.32  | 58    | DSI |     | P1   | 02H | -0.09  |           |          | 07C  | TEH |
| 4   | 60  | 0.36  | 87    | DSI |     | P1   | 03H | 0.03   |           |          | 07C  | TEH |
| 4   | 61  | 0.72  | 58    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 4   | 61  | 0.81  | 58    | DSI |     | P1   | 01H | -0.06  |           |          | 07C  | TEH |
| 4   | 65  | 0.43  | 77    | DSI |     | P1   | 04H | 0.08   |           |          | 07H  | TEH |
| 4   | 65  | 0.39  | 61    | DSI |     | P1   | 05H | 0.05   |           |          | 07H  | TEH |
| 4   | 73  | 0.35  | 65    | DSI |     | P1   | 01H | -0.05  |           |          | 07H  | TEH |
| 4   | 94  | 0.97  | 24    | DSI |     | P1   | 02H | -0.05  |           |          | 07H  | TEH |
| 4   | 94  | 0.31  | 79    | DSI |     | P1   | 03H | -0.03  |           |          | 07H  | TEH |
| 5   | 4   | 0.50  | 61    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 5   | 25  | 1.45  | 55    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 5   | 25  | 0.77  | 47    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 5   | 25  | 0.24  | 128   | MAI |     | 3    | 01H | 0.06   | 0.55      |          | 01H  | 01H |
| 5   | 26  | 0.84  | 62    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 5   | 28  | 0.92  | 102   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 5   | 28  | 0.65  | 73    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 5   | 29  | 0.82  | 60    | DSI |     | P1   | 02H | -0.06  |           |          | TEH  | TEC |
| 5   | 48  | 0.54  | 95    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 5   | 48  | 0.54  | 88    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 5   | 49  | 0.83  | 91    | DSI |     | P1   | 01H | 0.05   |           |          | 07H  | TEH |
| 5   | 50  | 0.70  | 119   | DSI |     | P1   | 01H | 0.06   |           |          | 07H  | TEH |
| 5   | 51  | 0.75  | 110   | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 5   | 52  | 0.75  | 84    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 5   | 54  | 0.80  | 111   | DSI |     | P1   | 01H | 0.06   |           |          | 07H  | TEH |
| 5   | 55  | 0.60  | 67    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 5   | 57  | 0.81  | 49    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 5   | 58  | 0.58  | 64    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 5   | 60  | 1.64  | 94    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 5   | 60  | 0.63  | 98    | MAI |     | 3    | 01H | 0.02   | 0.39      |          | 01H  | 01H |

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**1RC-E-1C**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 5   | 61  | 0.63  | 70    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 5   | 61  | 0.57  | 90    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 5   | 61  | 0.37  | 64    | DSI |     | P1   | 03H | -0.05  |           |          | TEH  | TEC |
| 5   | 63  | 0.42  | 106   | DSI |     | P1   | 02C | 0.05   |           |          | TEH  | TEC |
| 5   | 64  | 0.45  | 116   | DSI |     | P1   | 04H | 0.08   |           |          | TEH  | TEC |
| 5   | 67  | 0.73  | 26    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 5   | 73  | 0.94  | 86    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 5   | 77  | 0.12  | 111   | SAI |     | 3    | TSH | 0.11   | 0.24      |          | TSH  | TSH |
| 6   | 8   | 0.49  | 42    | DSI |     | P1   | 02H | -0.06  |           |          | 07H  | TEH |
| 6   | 31  | 0.98  | 99    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 6   | 31  | 0.98  | 131   | DSI |     | P1   | 02H | -0.11  |           |          | 07H  | TEH |
| 6   | 33  | 0.98  | 90    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 6   | 33  | 0.56  | 124   | DSI |     | P1   | 02H | -0.11  |           |          | 07H  | TEH |
| 6   | 33  | 0.66  | 92    | DSI |     | P1   | 03H | -0.03  |           |          | 07H  | TEH |
| 6   | 36  | 1.20  | 39    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 6   | 36  | 0.13  | 99    | DSI |     | P1   | 05H | 0.00   |           |          | 07H  | TEH |
| 6   | 38  | 0.83  | 109   | DSI |     | P1   | 01H | 0.09   |           |          | 07H  | TEH |
| 6   | 38  | 0.35  | 71    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 6   | 41  | 0.81  | 102   | DSI |     | P1   | 01H | -0.05  |           |          | 07H  | TEH |
| 6   | 41  | 0.29  | 115   | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 6   | 43  | 0.86  | 86    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 6   | 64  | 0.44  | 118   | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 6   | 71  | 0.16  | 123   | DSI |     | P1   | 04H | 0.05   |           |          | TEH  | TEC |
| 6   | 78  | 0.32  | 147   | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 6   | 79  | 0.76  | 95    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 6   | 81  | 1.24  | 98    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 6   | 81  | 0.71  | 60    | DSI |     | P1   | 02H | -0.06  |           |          | TEH  | TEC |
| 6   | 81  | 1.38  | 45    | DSI |     | P1   | 03H | -0.03  |           |          | TEH  | TEC |
| 6   | 81  | 1.24  | 79    | DSI |     | P1   | 04H | -0.03  |           |          | TEH  | TEC |
| 6   | 81  | 0.23  | 126   | SAI |     | 3    | 03H | 0.05   | 0.31      |          | 03H  | 03H |
| 6   | 82  | 0.60  | 103   | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 6   | 92  | 0.43  | 113   | PCT | 33  | P1   | 01C | -0.17  |           |          | 07C  | TEC |
| 6   | 94  | 1.00  | 133   | PCT | 5   | P1   | 01C | -0.10  |           |          | 07C  | TEC |
| 7   | 4   | 0.39  | 80    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 7   | 4   | 1.22  | 87    | DSI |     | P1   | 02H | 0.02   |           |          | TEH  | TEC |
| 7   | 5   | 0.78  | 102   | DSI |     | P1   | 01H | -0.19  |           |          | TEH  | TEC |
| 7   | 6   | 0.37  | 119   | DSI |     | P1   | 05H | 0.08   |           |          | TEH  | TEC |
| 7   | 11  | 1.33  | 81    | DSI |     | P1   | 01H | -0.07  |           |          | TEH  | TEC |
| 7   | 11  | 0.86  | 70    | DSI |     | P1   | 03H | -0.07  |           |          | TEH  | TEC |
| 7   | 11  | 0.32  | 120   | MAI |     | 3    | 01H | -0.05  | 0.29      |          | 01H  | 01H |
| 7   | 18  | 0.55  | 102   | DSI |     | P1   | 02H | -0.09  |           |          | TEH  | TEC |
| 7   | 19  | 1.10  | 113   | DSI |     | P1   | 01H | -0.07  |           |          | TEH  | TEC |
| 7   | 19  | 0.35  | 60    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 7   | 30  | 0.84  | 36    | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 7   | 41  | 1.27  | 102   | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 7   | 41  | 0.45  | 90    | DSI |     | P1   | 03H | 0.00   |           |          | 07H  | TEH |
| 7   | 41  | 0.25  | 121   | MAI |     | 3    | 01H | -0.10  | 0.46      |          | 01H  | 01H |
| 7   | 46  | 0.68  | 73    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 7   | 46  | 1.54  | 93    | DSI |     | P1   | 02H | 0.09   |           |          | 07H  | TEH |
| 7   | 46  | 0.79  | 109   | DSI |     | P1   | 03H | -0.12  |           |          | 07H  | TEH |
| 7   | 46  | 0.26  | 114   | MAI |     | 3    | 02H | 0.04   | 0.56      |          | 02H  | 02H |

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 7   | 61  | 0.19  | 57    | DSI |     | P1   | 03H | -0.03  |           |          | 07H  | TEH |
| 7   | 61  | 0.41  | 155   | DSI |     | P1   | 03H | 0.17   |           |          | TEH  | TEC |
| 7   | 61  | 0.17  | 56    | DSI |     | P1   | 03H | 0.00   |           |          | 07C  | TEH |
| 7   | 65  | 0.36  | 45    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 7   | 66  | 0.81  | 63    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 7   | 66  | 0.46  | 37    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 7   | 66  | 0.74  | 48    | DSI |     | P1   | 01H | -0.06  |           |          | 07C  | TEH |
| 7   | 66  | 0.44  | 34    | DSI |     | P1   | 02H | -0.03  |           |          | 07C  | TEH |
| 7   | 67  | 0.35  | 79    | DSI |     | P1   | 04C | 0.03   |           |          | 07C  | TEC |
| 7   | 68  | 0.85  | 44    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 7   | 69  | 0.39  | 40    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 7   | 71  | 1.06  | 30    | DSI |     | P1   | 01H | -0.06  |           |          | 07H  | TEH |
| 7   | 71  | 0.12  | 103   | SAI |     | 3    | 01H | 0.02   | 0.24      |          | 01H  | 01H |
| 7   | 90  | 1.54  | 85    | DSI |     | P1   | 02H | 0.18   |           |          | TEH  | TEC |
| 7   | 90  | 0.26  | 115   | SAI |     | 3    | 02H | -0.02  | 0.61      |          | 02H  | 02H |
| 7   | 91  | 0.78  | 68    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 7   | 92  | 0.69  | 74    | DSI |     | P1   | 02H | 0.13   |           |          | TEH  | TEC |
| 7   | 92  | 1.26  | 75    | DSI |     | P1   | 03H | 0.13   |           |          | TEH  | TEC |
| 7   | 93  | 0.48  | 90    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 7   | 94  | 0.62  | 63    | DSI |     | P1   | 02H | 0.10   |           |          | TEH  | TEC |
| 7   | 94  | 0.67  | 68    | DSI |     | P1   | 03H | 0.08   |           |          | TEH  | TEC |
| 8   | 11  | 0.78  | 24    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 8   | 13  | 0.83  | 34    | DSI |     | P1   | 01H | 0.12   |           |          | TEH  | TEC |
| 8   | 16  | 0.17  | 94    | DSI |     | P1   | 03H | 0.00   |           |          | 07H  | TEH |
| 8   | 28  | 0.14  | 114   | SAI |     | 3    | TSH | 0.37   | 0.26      |          | TSH  | TSH |
| 8   | 32  | 0.23  | 89    | MAI |     | 3    | TSH | 0.36   | 0.46      |          | TSH  | TSH |
| 8   | 38  | 0.72  | 110   | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 8   | 38  | 0.69  | 110   | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 8   | 74  | 0.19  | 19    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 8   | 77  | 0.49  | 107   | DSI |     | P1   | 02H | -0.06  |           |          | TEH  | TEC |
| 8   | 81  | 1.12  | 40    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 8   | 81  | 0.34  | 121   | SAI |     | 3    | 01H | -0.02  | 0.43      |          | 01H  | 01H |
| 9   | 4   | 0.69  | 107   | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 9   | 4   | 0.33  | 44    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 9   | 5   | 0.58  | 66    | DSI |     | P1   | 01H | -0.14  |           |          | TEH  | TEC |
| 9   | 8   | 1.57  | 73    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 9   | 8   | 0.36  | 110   | SAI |     | 3    | 01H | -0.01  | 0.29      |          | 01H  | 01H |
| 9   | 10  | 1.83  | 58    | DSI |     | P1   | 01H | 0.02   |           |          | TEH  | TEC |
| 9   | 10  | 1.46  | 58    | DSI |     | P1   | 02H | -0.09  |           |          | TEH  | TEC |
| 9   | 10  | 1.12  | 60    | DSI |     | P1   | 03H | -0.10  |           |          | TEH  | TEC |
| 9   | 10  | 0.92  | 68    | DSI |     | P1   | 04H | 0.00   |           |          | TEH  | TEC |
| 9   | 14  | 0.92  | 50    | DSI |     | P1   | 01H | -0.02  |           |          | TEH  | TEC |
| 9   | 15  | 0.30  | 98    | DSI |     | P1   | 01H | -0.02  |           |          | TEH  | TEC |
| 9   | 27  | 0.09  | 95    | MAI |     | 3    | TSH | 0.84   | 0.24      |          | TSH  | TSH |
| 9   | 27  | 0.09  | 77    | MAI |     | 3    | TSH | 0.78   | 0.51      |          | TSH  | TSH |
| 9   | 27  | 0.35  | 53    | NQI |     | P1   | TSH | 0.88   |           |          | TEH  | TEC |
| 9   | 28  | 0.21  | 105   | MAI |     | 3    | TSH | 0.49   | 0.84      |          | TSH  | TSH |
| 9   | 28  | 0.10  | 110   | MAI |     | 3    | TSH | 0.48   | 0.35      |          | TSH  | TSH |
| 9   | 28  | 0.19  | 82    | NQI |     | P1   | TSH | 1.17   |           |          | TEH  | TEC |
| 9   | 29  | 0.13  | 121   | MAI |     | 3    | TSH | 0.62   | 0.19      |          | TSH  | TSH |
| 9   | 29  | 0.05  | 66    | MAI |     | 3    | TSH | 0.48   | 0.49      |          | TSH  | TSH |

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 9   | 29  | 0.15  | 93    | MAI |     | 3    | TSH | 0.86   | 0.73      |          | TSH  | TSH |
| 9   | 29  | 0.08  | 63    | MAI |     | 3    | TSH | 0.66   | 0.29      |          | TSH  | TSH |
| 9   | 29  | 0.27  | 101   | NQI |     | P1   | TSH | 0.99   |           |          | TEH  | TEC |
| 9   | 35  | 0.62  | 28    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 9   | 39  | 0.19  | 61    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 9   | 40  | 0.14  | 75    | SAI |     | 3    | TSH | 0.55   | 0.15      |          | TSH  | TSH |
| 9   | 76  | 0.47  | 130   | DSI |     | P1   | 06H | -0.11  |           |          | TEH  | TEC |
| 9   | 79  | 0.39  | 18    | DSI |     | P1   | 03H | -0.08  |           |          | TEH  | TEC |
| 9   | 85  | 0.87  | 36    | DSI |     | P1   | 03H | -0.06  |           |          | TEH  | TEC |
| 9   | 86  | 0.26  | 74    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 9   | 93  | 1.93  | 122   | PCT | 23  | P1   | 01C | -0.05  |           |          | TEH  | TEC |
| 10  | 2   | 0.46  | 130   | PCT | 9   | P1   | 03C | 0.26   |           |          | TEH  | TEC |
| 10  | 2   | 0.45  | 114   | VOL |     | 3    | 03C | 0.24   |           |          | 03C  | 03C |
| 10  | 3   | 0.32  | 79    | DSI |     | P1   | 01H | 0.02   |           |          | TEH  | TEC |
| 10  | 9   | 0.59  | 26    | DSI |     | P1   | 01H | -0.02  |           |          | TEH  | TEC |
| 10  | 26  | 0.07  | 87    | SAI |     | 3    | TSH | 0.71   | 0.33      |          | TSH  | TSH |
| 10  | 26  | 0.13  | 80    | NQI |     | P1   | TSH | 0.80   |           |          | TEH  | TEC |
| 10  | 28  | 0.11  | 95    | MAI |     | 3    | TSH | 0.61   | 0.51      |          | TSH  | TSH |
| 10  | 28  | 0.11  | 102   | MAI |     | 3    | TSH | 0.55   | 0.30      |          | TSH  | TSH |
| 10  | 28  | 0.10  | 104   | MAI |     | 3    | TSH | 1.06   | 0.40      |          | TSH  | TSH |
| 10  | 28  | 0.09  | 122   | MAI |     | 3    | TSH | 1.22   | 0.23      |          | TSH  | TSH |
| 10  | 28  | 0.21  | 114   | MAI |     | 3    | TSH | 0.60   | 0.65      |          | TSH  | TSH |
| 10  | 28  | 0.11  | 100   | SAI |     | 3    | TSH | 1.39   | 0.19      |          | TSH  | TSH |
| 10  | 28  | 0.22  | 48    | NQI |     | P1   | TSH | 0.96   |           |          | TEH  | TEC |
| 10  | 30  | 0.22  | 110   | MAI |     | 3    | TSH | 0.86   | 0.48      |          | TSH  | TSH |
| 10  | 30  | 0.15  | 108   | MAI |     | 3    | TSH | 0.89   | 0.32      |          | TSH  | TSH |
| 10  | 30  | 0.07  | 66    | SAI |     | 3    | TSH | 1.73   | 0.23      |          | TSH  | TSH |
| 10  | 30  | 0.34  | 100   | NQI |     | P1   | TSH | 0.77   |           |          | TEH  | TEC |
| 10  | 32  | 0.15  | 104   | SAI |     | 3    | TSH | 1.37   | 0.23      |          | TSH  | TSH |
| 10  | 32  | 0.09  | 114   | NQI |     | P1   | TSH | 1.45   |           |          | TEH  | TEC |
| 10  | 34  | 0.12  | 105   | SAI |     | 3    | TSH | 1.35   | 0.54      |          | TSH  | TSH |
| 10  | 34  | 0.18  | 85    | NQI |     | P1   | TSH | 1.00   |           |          | TEH  | TEC |
| 10  | 48  | 1.79  | 79    | DSI |     | P1   | 01H | 0.03   |           |          | 07H  | TEH |
| 10  | 48  | 0.35  | 111   | MAI |     | 3    | 01H | 0.07   | 0.41      |          | 01H  | 01H |
| 10  | 49  | 0.70  | 107   | DSI |     | P1   | 01H | -0.14  |           |          | 07H  | TEH |
| 10  | 54  | 0.75  | 105   | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 10  | 55  | 0.84  | 87    | DSI |     | P1   | 01H | 0.08   |           |          | 07H  | TEH |
| 10  | 56  | 1.07  | 66    | DSI |     | P1   | 01H | 0.21   |           |          | TEH  | TEC |
| 10  | 58  | 1.22  | 63    | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 10  | 62  | 0.76  | 68    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 10  | 62  | 0.85  | 58    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 10  | 62  | 0.36  | 45    | DSI |     | P1   | 03H | -0.03  |           |          | TEH  | TEC |
| 10  | 65  | 1.29  | 87    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 10  | 65  | 0.45  | 122   | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 10  | 65  | 0.69  | 107   | SAI |     | 3    | 01H | 0.01   | 0.38      |          | 01H  | 01H |
| 10  | 66  | 1.83  | 65    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 10  | 66  | 0.28  | 110   | MAI |     | 3    | 01H | 0.03   | 0.47      |          | 01H  | 01H |
| 10  | 67  | 0.67  | 35    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 10  | 68  | 1.57  | 106   | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 10  | 68  | 0.65  | 119   | MAI |     | 3    | 01H | 0.00   | 0.51      |          | 01H  | 01H |
| 10  | 69  | 0.98  | 55    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 10  | 69  | 0.78  | 26    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 10  | 70  | 0.55  | 79    | DSI |     | P1   | 02H | 0.12   |           |          | TEH  | TEC |
| 10  | 71  | 0.51  | 63    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 11  | 28  | 0.11  | 92    | SAI |     | 3    | TSH | 0.72   | 0.14      |          | TSH  | TSH |
| 11  | 30  | 0.04  | 55    | SAI |     | 3    | TSH | 1.97   | 0.20      |          | TSH  | TSH |
| 11  | 30  | 0.13  | 64    | NQI |     | P1   | TSH | 1.97   |           |          | TEH  | TEC |
| 11  | 30  | 0.11  | 72    | NQI |     | P1   | TSH | 1.11   |           |          | TEH  | TEC |
| 11  | 32  | 0.15  | 135   | SAI |     | 3    | TSH | 1.81   | 0.44      |          | TSH  | TSH |
| 11  | 32  | 0.27  | 152   | NQI |     | P1   | TSH | 1.68   |           |          | TEH  | TEC |
| 11  | 36  | 0.09  | 98    | SAI |     | 3    | TSH | 2.05   | 0.21      |          | TSH  | TSH |
| 11  | 36  | 0.17  | 108   | SAI |     | 3    | TSH | 1.81   | 0.21      |          | TSH  | TSH |
| 11  | 36  | 0.15  | 112   | NQI |     | P1   | TSH | 1.86   |           |          | TEH  | TEC |
| 11  | 38  | 0.10  | 102   | SAI |     | 3    | TSH | 1.60   | 0.21      |          | TSH  | TSH |
| 11  | 38  | 0.10  | 84    | SAI |     | 3    | TSH | 1.27   | 0.21      |          | TSH  | TSH |
| 11  | 38  | 0.16  | 117   | NQI |     | P1   | TSH | 0.74   |           |          | TEH  | TEC |
| 11  | 38  | 0.23  | 61    | NQI |     | P1   | TSH | 1.17   |           |          | TEH  | TEC |
| 11  | 72  | 0.16  | 69    | DSI |     | P1   | 06H | 0.03   |           |          | TEH  | TEC |
| 11  | 93  | 0.35  | 122   | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 12  | 33  | 0.16  | 73    | NQI |     | P1   | TSH | 2.60   |           |          | TEH  | TEC |
| 12  | 45  | 0.09  | 58    | NQI |     | P1   | TSH | 0.73   |           |          | 07H  | TEH |
| 12  | 50  | 0.79  | 51    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 12  | 50  | 0.66  | 49    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 12  | 93  | 0.98  | 124   | PCT | 24  | P1   | 01C | -0.06  |           |          | TEH  | TEC |
| 13  | 47  | 0.53  | 75    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 13  | 63  | 0.40  | 72    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 13  | 92  | 0.62  | 129   | PCT | 7   | P1   | 01C | 0.03   |           |          | TEH  | TEC |
| 14  | 12  | 0.35  | 137   | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 14  | 69  | 0.23  | 78    | DSI |     | P1   | 03H | 0.05   |           |          | TEH  | TEC |
| 14  | 92  | 0.62  | 130   | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 15  | 4   | 0.47  | 125   | PCT | 17  | P1   | 02C | 0.11   |           |          | TEH  | TEC |
| 15  | 4   | 0.45  | 125   | VOL |     | 3    | 02C | 0.07   |           |          | 02C  | 02C |
| 15  | 8   | 0.91  | 79    | DSI |     | P1   | 01H | 0.07   |           |          | TEH  | TEC |
| 15  | 8   | 0.74  | 41    | DSI |     | P1   | 02H | -0.02  |           |          | TEH  | TEC |
| 15  | 16  | 0.39  | 71    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 15  | 30  | 0.12  | 50    | NQI |     | P1   | TSH | 2.24   |           |          | TEH  | TEC |
| 15  | 36  | 0.10  | 65    | SAI |     | 3    | TSH | 1.59   | 0.43      |          | TSH  | TSH |
| 15  | 36  | 0.22  | 121   | NQI |     | P1   | TSH | 1.35   |           |          | TEH  | TEC |
| 15  | 37  | 0.11  | 94    | SAI |     | 3    | TSH | 0.72   | 0.33      |          | TSH  | TSH |
| 15  | 37  | 0.21  | 123   | NQI |     | P1   | TSH | 0.85   |           |          | TEH  | TEC |
| 15  | 52  | 0.80  | 65    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 15  | 52  | 1.12  | 59    | DSI |     | P1   | 02H | 0.13   |           |          | TEH  | TEC |
| 15  | 52  | 0.38  | 103   | DSI |     | P1   | 03H | 0.16   |           |          | TEH  | TEC |
| 15  | 53  | 1.22  | 82    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 15  | 53  | 0.57  | 79    | DSI |     | P1   | 02H | 0.13   |           |          | TEH  | TEC |
| 15  | 53  | 1.34  | 75    | DSI |     | P1   | 03H | -0.16  |           |          | TEH  | TEC |
| 15  | 56  | 0.76  | 85    | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 15  | 56  | 1.23  | 92    | DSI |     | P1   | 02H | -0.13  |           |          | TEH  | TEC |
| 15  | 58  | 0.72  | 53    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 15  | 58  | 0.33  | 107   | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 15  | 61  | 2.07  | 81    | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 15  | 61  | 1.51  | 88    | DSI |     | P1   | 02H | 0.26   |           |          | TEH  | TEC |

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 15  | 61  | 0.75  | 93    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 15  | 61  | 0.37  | 34    | DSI |     | P1   | 04H | 0.09   |           |          | TEH  | TEC |
| 15  | 61  | 0.31  | 117   | MAI |     | 3    | 01H | 0.13   | 0.58      |          | 01H  | 01H |
| 15  | 61  | 0.25  | 129   | SAI |     | 3    | 02H | 0.21   | 0.20      |          | 02H  | 02H |
| 15  | 62  | 1.29  | 85    | DSI |     | P1   | 02H | -0.15  |           |          | TEH  | TEC |
| 15  | 62  | 0.60  | 63    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 15  | 62  | 2.94  | 58    | MAI |     | 3    | 01H | 0.06   | 0.71      |          | 01H  | 01H |
| 15  | 62  | 0.15  | 104   | MAI |     | 3    | 02H | 0.05   | 0.51      |          | 02H  | 02H |
| 15  | 63  | 1.32  | 84    | DSI |     | P1   | 01H | 0.09   |           |          | TEH  | TEC |
| 15  | 63  | 0.98  | 77    | DSI |     | P1   | 02H | -0.12  |           |          | TEH  | TEC |
| 15  | 63  | 0.62  | 84    | DSI |     | P1   | 03H | 0.07   |           |          | TEH  | TEC |
| 15  | 63  | 0.14  | 120   | SAI |     | 3    | 01H | 0.11   | 0.63      |          | 01H  | 01H |
| 15  | 91  | 1.47  | 120   | PCT | 31  | P1   | 01C | 0.06   |           |          | TEH  | TEC |
| 16  | 4   | 0.76  | 120   | PCT | 27  | P1   | 02C | 0.09   |           |          | TEH  | TEC |
| 16  | 17  | 0.14  | 127   | DSI |     | P1   | 04H | 0.10   |           |          | TEH  | TEC |
| 16  | 51  | 0.74  | 52    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 16  | 90  | 1.48  | 127   | PCT | 11  | P1   | 01C | -0.08  |           |          | TEH  | TEC |
| 17  | 10  | 0.87  | 125   | DSI |     | P1   | 01H | -0.14  |           |          | TEH  | TEC |
| 17  | 10  | 0.57  | 64    | DSI |     | P1   | 03H | -0.07  |           |          | TEH  | TEC |
| 17  | 15  | 0.39  | 36    | DSI |     | P1   | 01H | 0.07   |           |          | TEH  | TEC |
| 17  | 16  | 0.85  | 48    | DSI |     | P1   | 01H | -0.10  |           |          | TEH  | TEC |
| 17  | 17  | 0.45  | 49    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 17  | 17  | 0.62  | 85    | DSI |     | P1   | 02H | -0.14  |           |          | TEH  | TEC |
| 17  | 17  | 0.70  | 35    | DSI |     | P1   | 03H | 0.02   |           |          | TEH  | TEC |
| 17  | 18  | 0.57  | 48    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 17  | 20  | 0.28  | 121   | DSI |     | P1   | 05H | -0.05  |           |          | TEH  | TEC |
| 17  | 24  | 0.13  | 132   | SAI |     | 3    | TSH | 0.35   | 0.22      |          | TSH  | TSH |
| 17  | 28  | 0.16  | 101   | NQI |     | P1   | TSH | 1.16   |           |          | TEH  | TEC |
| 17  | 33  | 0.12  | 83    | MAI |     | 3    | TSH | 0.85   | 0.18      |          | TSH  | TSH |
| 17  | 33  | 0.20  | 51    | NQI |     | P1   | TSH | 1.02   |           |          | TEH  | TEC |
| 17  | 80  | 0.76  | 83    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 17  | 81  | 0.27  | 112   | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 17  | 82  | 0.25  | 62    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 17  | 84  | 0.56  | 47    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 17  | 84  | 0.20  | 130   | DSI |     | P1   | 05H | 0.13   |           |          | TEH  | TEC |
| 17  | 85  | 0.70  | 103   | DSI |     | P1   | 02H | -0.17  |           |          | TEH  | TEC |
| 17  | 89  | 1.12  | 126   | PCT | 17  | P1   | 01C | -0.14  |           |          | TEH  | TEC |
| 18  | 19  | 0.78  | 61    | DSI |     | P1   | 01H | 0.02   |           |          | TEH  | TEC |
| 18  | 19  | 0.89  | 108   | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 18  | 19  | 0.72  | 122   | DSI |     | P1   | 03H | -0.07  |           |          | TEH  | TEC |
| 18  | 22  | 1.20  | 81    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 18  | 22  | 0.32  | 114   | DSI |     | P1   | 04C | -0.02  |           |          | TEH  | TEC |
| 18  | 43  | 0.49  | 83    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 18  | 71  | 0.46  | 66    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 18  | 71  | 0.10  | 90    | SAI |     | 3    | 01H | -0.06  | 0.20      |          | 01H  | 01H |
| 18  | 71  | 0.14  | 128   | SAI |     | 3    | 01H | -0.03  | 0.34      |          | 01H  | 01H |
| 18  | 73  | 0.72  | 58    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 18  | 73  | 0.39  | 117   | DSI |     | P1   | 06H | 0.06   |           |          | TEH  | TEC |
| 19  | 6   | 0.72  | 77    | DSI |     | P1   | 01H | 0.15   |           |          | TEH  | TEC |
| 19  | 28  | 0.04  | 82    | MAI |     | 3    | TSH | 0.48   | 0.16      |          | TSH  | TSH |
| 19  | 28  | 0.10  | 112   | MAI |     | 3    | TSH | 0.78   | 0.26      |          | TSH  | TSH |

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 19  | 28  | 0.13  | 105   | SAI |     | 3    | TSH | 0.49   | 0.16      |          | TSH  | TSH |
| 19  | 65  | 0.37  | 156   | DSI |     | P1   | 05H | 0.05   |           |          | TEH  | TEC |
| 19  | 90  | 0.81  | 132   | PCT | 1   | P1   | 01C | -0.18  |           |          | TEH  | TEC |
| 20  | 44  | 1.24  | 125   | DSI |     | P1   | 01H | -0.09  |           |          | TEH  | TEC |
| 20  | 72  | 0.48  | 96    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 20  | 72  | 0.71  | 62    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 20  | 73  | 0.70  | 109   | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 20  | 73  | 0.78  | 110   | DSI |     | P1   | 03H | 0.17   |           |          | TEH  | TEC |
| 20  | 73  | 0.51  | 111   | DSI |     | P1   | 06H | -0.12  |           |          | TEH  | TEC |
| 20  | 75  | 1.14  | 63    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 20  | 85  | 0.57  | 79    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 21  | 22  | 1.57  | 89    | DSI |     | P1   | 01H | 0.02   |           |          | TEH  | TEC |
| 21  | 22  | 1.40  | 90    | DSI |     | P1   | 02H | 0.12   |           |          | TEH  | TEC |
| 21  | 22  | 0.57  | 110   | MAI |     | 3    | 01H | -0.06  | 0.39      |          | 01H  | 01H |
| 21  | 22  | 0.26  | 118   | SAI |     | 3    | 02H | -0.06  | 0.34      |          | 02H  | 02H |
| 21  | 42  | 0.42  | 63    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 21  | 88  | 0.56  | 136   | PCT | 0   | P1   | 01C | -0.21  |           |          | TEH  | TEC |
| 22  | 9   | 0.52  | 135   | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 22  | 27  | 0.17  | 99    | NQI |     | P1   | TSH | 0.96   |           |          | TEH  | TEC |
| 22  | 87  | 0.44  | 132   | PCT | 5   | P1   | 01C | -0.09  |           |          | TEH  | TEC |
| 23  | 9   | 0.54  | 95    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 23  | 9   | 0.83  | 119   | DSI |     | P1   | 02H | 0.13   |           |          | TEH  | TEC |
| 23  | 12  | 1.60  | 95    | DSI |     | P1   | 01H | -0.15  |           |          | TEH  | TEC |
| 23  | 12  | 0.38  | 109   | MAI |     | 3    | 01H | -0.06  | 0.29      |          | 01H  | 01H |
| 23  | 15  | 1.60  | 94    | DSI |     | P1   | 01H | 0.16   |           |          | TEH  | TEC |
| 23  | 15  | 1.27  | 112   | DSI |     | P1   | 02H | 0.02   |           |          | TEH  | TEC |
| 23  | 15  | 0.44  | 114   | DSI |     | P1   | 03H | 0.12   |           |          | TEH  | TEC |
| 23  | 15  | 0.48  | 120   | MAI |     | 3    | 01H | 0.04   | 0.54      |          | 01H  | 01H |
| 23  | 15  | 0.58  | 118   | SAI |     | 3    | 02H | -0.06  | 0.51      |          | 02H  | 02H |
| 23  | 25  | 0.91  | 43    | DSI |     | P1   | 01H | 0.09   |           |          | TEH  | TEC |
| 23  | 25  | 0.41  | 50    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 23  | 26  | 0.31  | 54    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 23  | 26  | 0.27  | 133   | DSI |     | P1   | 02H | -0.20  |           |          | TEH  | TEC |
| 23  | 27  | 0.57  | 89    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 23  | 27  | 0.44  | 138   | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 23  | 31  | 0.57  | 82    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 23  | 32  | 0.78  | 84    | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 23  | 36  | 0.91  | 42    | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 23  | 36  | 0.40  | 120   | DSI |     | P1   | 02H | 0.13   |           |          | TEH  | TEC |
| 23  | 38  | 0.34  | 91    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 23  | 38  | 0.44  | 46    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 23  | 39  | 0.41  | 53    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 23  | 42  | 0.87  | 118   | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 23  | 42  | 0.51  | 66    | DSI |     | P1   | 02H | -0.10  |           |          | TEH  | TEC |
| 23  | 50  | 1.24  | 94    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 23  | 50  | 1.44  | 125   | DSI |     | P1   | 02H | -0.20  |           |          | TEH  | TEC |
| 23  | 50  | 0.28  | 121   | MAI |     | 3    | 02H | -0.14  | 0.59      |          | 02H  | 02H |
| 23  | 61  | 0.31  | 89    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 23  | 61  | 0.95  | 0     | PCT | 19  | P2   | AV4 | 0.00   |           |          | TEH  | TEC |
| 23  | 62  | 0.36  | 89    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 23  | 65  | 0.38  | 120   | DSI |     | P1   | 01H | -0.11  |           |          | TEH  | TEC |

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**1RC-E-1C**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 23  | 65  | 1.37  | 89    | DSI |     | P1   | 02H | -0.14  |           |          | TEH  | TEC |
| 23  | 65  | 0.37  | 114   | MAI |     | 3    | 02H | -0.14  | 0.56      |          | 02H  | 02H |
| 23  | 66  | 0.50  | 47    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 23  | 70  | 0.79  | 62    | DSI |     | P1   | 01H | 0.07   |           |          | TEH  | TEC |
| 23  | 71  | 1.22  | 90    | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 23  | 71  | 0.61  | 77    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 23  | 73  | 0.81  | 105   | DSI |     | P1   | 01H | 0.09   |           |          | TEH  | TEC |
| 23  | 73  | 0.70  | 51    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 23  | 74  | 0.43  | 55    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 23  | 77  | 0.89  | 112   | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 23  | 77  | 0.74  | 39    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 23  | 86  | 0.54  | 135   | PCT | 7   | P1   | 01C | 0.05   |           |          | TEH  | TEC |
| 23  | 87  | 0.98  | 147   | PCT | 0   | P1   | 01C | 0.00   |           |          | TEH  | TEC |
| 23  | 87  | 0.47  | 78    | DSI |     | P1   | 01H | 0.23   |           |          | TEH  | TEC |
| 23  | 87  | 0.25  | 117   | SVI |     | 3    | 01H | 0.24   | 0.38      | 90       | 01H  | 01H |
| 24  | 8   | 0.42  | 106   | DSI |     | P1   | 01H | 0.00   |           |          | TSH  | TEC |
| 24  | 8   | 0.45  | 103   | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 24  | 10  | 1.41  | 94    | DSI |     | P1   | 01H | -0.07  |           |          | TEH  | TEC |
| 24  | 10  | 0.23  | 124   | DSI |     | P1   | 03H | 0.07   |           |          | TEH  | TEC |
| 24  | 10  | 0.42  | 105   | MAI |     | 3    | 01H | -0.08  | 0.48      |          | 01H  | 01H |
| 24  | 13  | 1.22  | 98    | DSI |     | P1   | 01H | -0.02  |           |          | TEH  | TEC |
| 24  | 16  | 0.31  | 43    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 24  | 18  | 0.11  | 49    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 24  | 21  | 0.55  | 106   | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 24  | 21  | 0.47  | 73    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 24  | 22  | 0.87  | 46    | DSI |     | P1   | 02H | 0.02   |           |          | TEH  | TEC |
| 24  | 25  | 1.19  | 0     | PCT | 20  | P2   | AV3 | 0.00   |           |          | TEH  | TEC |
| 24  | 25  | 0.39  | 117   | WAR |     | 2    | AV3 | 0.00   |           |          | AV3  | AV3 |
| 24  | 25  | 0.42  | 115   | WAR |     | 2    | AV3 | -0.05  |           |          | AV3  | AV3 |
| 24  | 27  | 2.33  | 0     | PCT | 30  | P2   | AV2 | 0.00   |           |          | TEH  | TEC |
| 24  | 27  | 0.68  | 0     | PCT | 15  | P2   | AV3 | -0.37  |           |          | TEH  | TEC |
| 24  | 31  | 0.62  | 95    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 24  | 31  | 0.68  | 106   | DSI |     | P1   | 02H | -0.15  |           |          | TEH  | TEC |
| 24  | 35  | 0.23  | 49    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 24  | 37  | 0.48  | 38    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 24  | 40  | 0.44  | 45    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 24  | 42  | 0.48  | 45    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 24  | 43  | 1.25  | 116   | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 24  | 43  | 0.88  | 90    | DSI |     | P1   | 03H | -0.06  |           |          | TEH  | TEC |
| 24  | 45  | 0.35  | 54    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 24  | 47  | 0.41  | 43    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 24  | 58  | 0.52  | 9     | SAI |     | 3    | TSH | -5.64  | 0.20      |          | TSH  | TSH |
| 24  | 62  | 0.93  | 113   | DSI |     | P1   | 01H | -0.10  |           |          | TEH  | TEC |
| 24  | 65  | 0.73  | 100   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 24  | 65  | 0.32  | 103   | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 24  | 69  | 0.56  | 114   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 24  | 69  | 0.67  | 79    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 24  | 72  | 1.74  | 97    | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 24  | 72  | 0.71  | 79    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 24  | 72  | 0.44  | 116   | MAI |     | 3    | 01H | 0.10   | 0.56      |          | 01H  | 01H |
| 24  | 72  | 0.41  | 112   | MAI |     | 3    | 01H | 0.07   | 0.49      |          | 01H  | 01H |



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**1RC-E-1C**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 24  | 79  | 0.76  | 61    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 24  | 86  | 0.91  | 129   | PCT | 17  | P1   | 01C | -0.16  |           |          | TEH  | TEC |
| 25  | 9   | 1.04  | 0     | PCT | 20  | P2   | AV2 | 0.20   |           |          | TEH  | TEC |
| 25  | 9   | 0.85  | 0     | PCT | 17  | P2   | AV3 | -0.06  |           |          | TEH  | TEC |
| 25  | 9   | 0.30  | 30    | WAR |     | P2   | AV2 | -0.09  |           |          | AV2  | AV3 |
| 25  | 9   | 0.42  | 24    | WAR |     | P2   | AV3 | -0.04  |           |          | AV2  | AV3 |
| 25  | 9   | 0.43  | 29    | WAR |     | P2   | AV3 | 0.05   |           |          | AV2  | AV3 |
| 25  | 9   | 0.25  | 105   | WAR |     | 2    | AV2 | 0.06   |           |          | AV2  | AV2 |
| 25  | 10  | 1.00  | 113   | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 25  | 12  | 1.69  | 109   | DSI |     | P1   | 01H | -0.12  |           |          | TEH  | TEC |
| 25  | 12  | 1.04  | 109   | DSI |     | P1   | 02H | -0.10  |           |          | TEH  | TEC |
| 25  | 12  | 0.14  | 79    | DSI |     | P1   | 05H | -0.03  |           |          | TEH  | TEC |
| 25  | 12  | 0.52  | 118   | MAI |     | 3    | 01H | -0.23  | 0.31      |          | 01H  | 01H |
| 25  | 13  | 0.15  | 82    | DSI |     | P1   | 01H | -0.07  |           |          | TEH  | TEC |
| 25  | 14  | 0.31  | 83    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 25  | 17  | 0.34  | 69    | DSI |     | P1   | 01H | 0.02   |           |          | TEH  | TEC |
| 25  | 17  | 0.49  | 36    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 25  | 18  | 0.48  | 41    | DSI |     | P1   | 01H | 0.09   |           |          | TEH  | TEC |
| 25  | 19  | 0.24  | 36    | SAI |     | 3    | TSH | -2.12  | 0.18      |          | TSH  | TSH |
| 25  | 22  | 1.43  | 114   | DSI |     | P1   | 01H | -0.09  |           |          | TEH  | TEC |
| 25  | 22  | 0.54  | 121   | SAI |     | 3    | 01H | -0.13  | 0.42      |          | 01H  | 01H |
| 25  | 25  | 0.79  | 97    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 25  | 29  | 0.52  | 62    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 25  | 30  | 0.47  | 67    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 25  | 32  | 0.98  | 103   | DSI |     | P1   | 01H | -0.14  |           |          | TEH  | TEC |
| 25  | 34  | 2.05  | 100   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 25  | 34  | 0.90  | 92    | DSI |     | P1   | 02H | 0.13   |           |          | TEH  | TEC |
| 25  | 34  | 0.79  | 104   | DSI |     | P1   | 03H | -0.08  |           |          | TEH  | TEC |
| 25  | 34  | 0.33  | 114   | MAI |     | 3    | 01H | -0.01  | 0.64      |          | 01H  | 01H |
| 25  | 38  | 0.94  | 66    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 25  | 41  | 0.43  | 65    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 25  | 45  | 0.72  | 72    | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 25  | 45  | 0.16  | 120   | DSI |     | P1   | 02H | 0.10   |           |          | TEH  | TEC |
| 25  | 46  | 0.94  | 64    | DSI |     | P1   | 03H | -0.08  |           |          | TEH  | TEC |
| 25  | 47  | 0.82  | 122   | DSI |     | P1   | 02H | -0.16  |           |          | TEH  | TEC |
| 25  | 51  | 0.66  | 57    | DSI |     | P1   | 01H | 0.02   |           |          | TEH  | TEC |
| 25  | 60  | 0.49  | 68    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 25  | 64  | 1.05  | 30    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 25  | 64  | 0.48  | 143   | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 25  | 64  | 0.30  | 85    | SAI |     | 3    | 02H | -0.09  | 0.48      |          | 02H  | 02H |
| 25  | 68  | 0.84  | 131   | DSI |     | P1   | 01H | -0.07  |           |          | TEH  | TEC |
| 25  | 68  | 0.53  | 64    | DSI |     | P1   | 02H | 0.07   |           |          | TEH  | TEC |
| 25  | 68  | 0.26  | 72    | DSI |     | P1   | 03H | 0.07   |           |          | TEH  | TEC |
| 25  | 69  | 0.76  | 89    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 25  | 69  | 0.54  | 118   | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 25  | 86  | 1.54  | 124   | PCT | 24  | P1   | 01C | -0.10  |           |          | TEH  | TEC |
| 25  | 86  | 0.70  | 112   | VOL |     | 3    | 01C | -0.17  |           |          | 01C  | 01C |
| 26  | 9   | 0.31  | 97    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 26  | 9   | 0.29  | 79    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 26  | 11  | 0.41  | 74    | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 26  | 14  | 0.53  | 59    | DSI |     | P1   | 01H | -0.02  |           |          | TEH  | TEC |

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| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 26  | 19  | 1.52  | 117   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 26  | 19  | 0.34  | 47    | DSI |     | P1   | 02H | 0.02   |           |          | TEH  | TEC |
| 26  | 19  | 0.51  | 109   | MAI |     | 3    | 01H | -0.14  | 0.48      |          | 01H  | 01H |
| 26  | 20  | 2.00  | 109   | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 26  | 20  | 0.80  | 91    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 26  | 20  | 0.75  | 113   | MAI |     | 3    | 01H | -0.01  | 0.67      |          | 01H  | 01H |
| 26  | 22  | 0.72  | 57    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 26  | 23  | 1.39  | 84    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 26  | 23  | 0.71  | 92    | MAI |     | 3    | 01H | 0.02   | 0.59      |          | 01H  | 01H |
| 26  | 24  | 0.60  | 58    | DSI |     | P1   | 01H | 0.02   |           |          | TEH  | TEC |
| 26  | 25  | 1.95  | 102   | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 26  | 25  | 0.76  | 70    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 26  | 25  | 0.43  | 101   | MAI |     | 3    | 01H | -0.02  | 0.55      |          | 01H  | 01H |
| 26  | 26  | 1.87  | 98    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 26  | 26  | 0.58  | 65    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 26  | 26  | 0.58  | 64    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 26  | 26  | 0.47  | 108   | MAI |     | 3    | 01H | -0.01  | 0.48      |          | 01H  | 01H |
| 26  | 28  | 1.28  | 118   | DSI |     | P1   | 01H | -0.02  |           |          | TEH  | TEC |
| 26  | 28  | 0.62  | 105   | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 26  | 28  | 0.64  | 104   | SAI |     | 3    | 01H | -0.14  | 0.33      |          | 01H  | 01H |
| 26  | 29  | 0.76  | 72    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 26  | 31  | 0.75  | 137   | DSI |     | P1   | 01H | -0.15  |           |          | TEH  | TEC |
| 26  | 31  | 0.36  | 64    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 26  | 32  | 0.90  | 61    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 26  | 32  | 0.08  | 189   | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 26  | 33  | 1.01  | 125   | DSI |     | P1   | 01H | -0.14  |           |          | TEH  | TEC |
| 26  | 33  | 0.88  | 82    | DSI |     | P1   | 02H | -0.06  |           |          | TEH  | TEC |
| 26  | 33  | 0.28  | 64    | DSI |     | P1   | 03H | -0.03  |           |          | TEH  | TEC |
| 26  | 33  | 0.57  | 102   | DSI |     | P1   | 04H | -0.06  |           |          | TEH  | TEC |
| 26  | 34  | 1.49  | 109   | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 26  | 34  | 0.63  | 103   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 26  | 34  | 0.74  | 68    | DSI |     | P1   | 03H | 0.18   |           |          | TEH  | TEC |
| 26  | 34  | 0.63  | 122   | DSI |     | P1   | 04H | -0.05  |           |          | TEH  | TEC |
| 26  | 34  | 0.44  | 127   | MAI |     | 3    | 01H | 0.03   | 0.53      |          | 01H  | 01H |
| 26  | 35  | 0.41  | 52    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 26  | 35  | 0.88  | 63    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 26  | 35  | 0.51  | 33    | DSI |     | P1   | 03H | -0.08  |           |          | TEH  | TEC |
| 26  | 36  | 0.83  | 45    | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 26  | 36  | 1.00  | 61    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 26  | 37  | 0.66  | 59    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 26  | 40  | 0.59  | 67    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 26  | 40  | 0.51  | 57    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 26  | 46  | 0.67  | 65    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 26  | 46  | 0.78  | 96    | DSI |     | P1   | 02H | 0.17   |           |          | TEH  | TEC |
| 26  | 49  | 1.44  | 92    | DSI |     | P1   | 01H | 0.12   |           |          | TEH  | TEC |
| 26  | 49  | 0.36  | 114   | MAI |     | 3    | 01H | 0.12   | 0.56      |          | 01H  | 01H |
| 26  | 51  | 0.91  | 65    | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 26  | 59  | 0.38  | 57    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 26  | 60  | 1.01  | 97    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 26  | 60  | 0.32  | 107   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 26  | 67  | 0.82  | 67    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |

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**1RC-E-1C**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 26  | 67  | 0.66  | 52    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 26  | 70  | 0.39  | 120   | DSI |     | P1   | 01H | 0.09   |           |          | TEH  | TEC |
| 26  | 70  | 0.43  | 82    | DSI |     | P1   | 02H | 0.02   |           |          | TEH  | TEC |
| 26  | 72  | 0.37  | 34    | DSI |     | P1   | 02H | 0.10   |           |          | TEH  | TEC |
| 26  | 73  | 0.42  | 85    | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 26  | 74  | 0.54  | 97    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 26  | 84  | 0.84  | 138   | PCT | 2   | P1   | 01C | -0.13  |           |          | TEH  | TEC |
| 26  | 86  | 1.47  | 135   | PCT | 7   | P1   | 01C | -0.21  |           |          | TEH  | TEC |
| 26  | 86  | 0.48  | 108   | VOL |     | 3    | 01C | -0.20  |           |          | 01C  | 01C |
| 27  | 10  | 0.90  | 0     | PCT | 17  | P2   | AV2 | -0.07  |           |          | TEH  | TEC |
| 27  | 10  | 0.30  | 159   | WAR |     | P2   | AV2 | -0.11  |           |          | AV2  | AV2 |
| 27  | 10  | 0.16  | 92    | WAR |     | P2   | AV2 | 0.13   |           |          | AV2  | AV2 |
| 27  | 10  | 0.23  | 117   | WAR |     | 2    | AV2 | 0.11   |           |          | AV1  | AV2 |
| 27  | 18  | 1.67  | 101   | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 27  | 18  | 0.28  | 109   | SAI |     | 3    | 01H | 0.13   | 0.56      |          | 01H  | 01H |
| 27  | 19  | 1.20  | 23    | DSI |     | P1   | 01H | 0.09   |           |          | TEH  | TEC |
| 27  | 19  | 0.49  | 121   | MAI |     | 3    | 01H | -0.14  | 0.36      |          | 01H  | 01H |
| 27  | 21  | 0.80  | 64    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 27  | 21  | 0.68  | 55    | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 27  | 24  | 0.32  | 87    | DSI |     | P1   | 01H | -0.02  |           |          | TEH  | TEC |
| 27  | 26  | 2.98  | 0     | PCT | 33  | P2   | AV2 | 0.00   |           |          | TEH  | TEC |
| 27  | 26  | 1.20  | 0     | PCT | 20  | P2   | AV2 | -0.50  |           |          | TEH  | TEC |
| 27  | 26  | 0.82  | 0     | PCT | 16  | P2   | AV3 | -0.29  |           |          | TEH  | TEC |
| 27  | 26  | 0.87  | 0     | PCT | 17  | P2   | AV4 | 0.10   |           |          | TEH  | TEC |
| 27  | 26  | 0.31  | 146   | WAR |     | 2    | AV2 | -1.04  |           |          | AV2  | AV4 |
| 27  | 26  | 0.29  | 119   | WAR |     | 2    | AV3 | -0.92  |           |          | AV2  | AV4 |
| 27  | 26  | 0.33  | 127   | WAR |     | 2    | AV4 | -0.05  |           |          | AV2  | AV4 |
| 27  | 26  | 0.22  | 137   | WAR |     | 2    | AV1 | 0.32   |           |          | AV1  | AV2 |
| 27  | 26  | 0.64  | 116   | WAR |     | 2    | AV2 | 1.41   |           |          | AV2  | AV3 |
| 27  | 26  | 0.25  | 124   | WAR |     | 2    | AV2 | -1.30  |           |          | AV2  | AV3 |
| 27  | 26  | 0.39  | 120   | WAR |     | 2    | AV2 | 1.35   |           |          | AV1  | AV2 |
| 27  | 26  | 0.24  | 117   | WAR |     | 2    | AV2 | -1.39  |           |          | AV1  | AV2 |
| 27  | 26  | 0.29  | 119   | WAR |     | 2    | AV3 | -1.38  |           |          | AV2  | AV3 |
| 27  | 27  | 1.04  | 41    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 27  | 27  | 0.33  | 112   | MAI |     | 3    | 01H | -0.08  | 0.50      |          | 01H  | 01H |
| 27  | 28  | 0.50  | 36    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 27  | 33  | 0.16  | 60    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 27  | 39  | 0.55  | 53    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 27  | 39  | 0.50  | 84    | DSI |     | P1   | 02H | -0.11  |           |          | TEH  | TEC |
| 27  | 42  | 0.68  | 36    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 27  | 44  | 0.90  | 62    | DSI |     | P1   | 01H | 0.07   |           |          | TEH  | TEC |
| 27  | 45  | 0.96  | 84    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 27  | 45  | 1.23  | 90    | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 27  | 47  | 1.92  | 102   | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 27  | 47  | 0.33  | 115   | MAI |     | 3    | 01H | -0.09  | 0.56      |          | 01H  | 01H |
| 27  | 50  | 0.38  | 44    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 27  | 50  | 0.76  | 65    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 27  | 62  | 0.47  | 61    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 27  | 63  | 0.23  | 103   | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 27  | 63  | 0.71  | 117   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 27  | 73  | 0.76  | 140   | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |

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**1RC-E-1C**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 27  | 75  | 0.69  | 44    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 27  | 81  | 0.46  | 54    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 27  | 81  | 0.97  | 41    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 27  | 81  | 0.55  | 63    | DSI |     | P1   | 05H | 0.06   |           |          | TEH  | TEC |
| 27  | 84  | 0.47  | 134   | PCT | 9   | P1   | 01C | -0.13  |           |          | TEH  | TEC |
| 28  | 10  | 0.77  | 115   | DSI |     | P1   | 01H | -0.11  |           |          | TEH  | TEC |
| 28  | 10  | 0.50  | 81    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 28  | 14  | 0.40  | 74    | DSI |     | P1   | 01H | 0.02   |           |          | TEH  | TEC |
| 28  | 16  | 0.55  | 43    | DSI |     | P1   | 01H | -0.02  |           |          | TEH  | TEC |
| 28  | 16  | 0.43  | 52    | DSI |     | P1   | 03H | -0.05  |           |          | TEH  | TEC |
| 28  | 20  | 2.20  | 112   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 28  | 20  | 1.03  | 123   | DSI |     | P1   | 02H | -0.15  |           |          | TEH  | TEC |
| 28  | 20  | 0.40  | 49    | DSI |     | P1   | 05H | 0.00   |           |          | TEH  | TEC |
| 28  | 20  | 0.90  | 104   | SAI |     | 3    | 01H | -0.19  | 0.67      |          | 01H  | 01H |
| 28  | 21  | 1.25  | 75    | DSI |     | P1   | 01H | -0.02  |           |          | TEH  | TEC |
| 28  | 21  | 1.29  | 109   | DSI |     | P1   | 02H | -0.07  |           |          | TEH  | TEC |
| 28  | 21  | 0.33  | 123   | MAI |     | 3    | 02H | -0.04  | 0.33      |          | 02H  | 02H |
| 28  | 23  | 1.26  | 82    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 28  | 24  | 0.68  | 67    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 28  | 25  | 1.15  | 127   | DSI |     | P1   | 01H | -0.11  |           |          | TEH  | TEC |
| 28  | 28  | 1.24  | 114   | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 28  | 28  | 0.29  | 36    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 28  | 31  | 1.59  | 96    | DSI |     | P1   | 01H | 0.07   |           |          | TEH  | TEC |
| 28  | 31  | 0.94  | 101   | DSI |     | P1   | 02H | -0.10  |           |          | TEH  | TEC |
| 28  | 31  | 1.13  | 104   | MAI |     | 3    | 01H | -0.01  | 0.53      |          | 01H  | 01H |
| 28  | 34  | 1.40  | 93    | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 28  | 34  | 0.38  | 117   | MAI |     | 3    | 01H | -0.01  | 0.55      |          | 01H  | 01H |
| 28  | 36  | 1.52  | 113   | DSI |     | P1   | 01H | 0.25   |           |          | TEH  | TEC |
| 28  | 36  | 0.97  | 102   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 28  | 36  | 1.04  | 123   | DSI |     | P1   | 03H | -0.13  |           |          | TEH  | TEC |
| 28  | 36  | 0.34  | 119   | MAI |     | 3    | 01H | 0.00   | 0.55      |          | 01H  | 01H |
| 28  | 37  | 0.18  | 85    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 28  | 41  | 1.64  | 104   | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 28  | 41  | 0.52  | 54    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 28  | 41  | 0.59  | 111   | SAI |     | 3    | 01H | 0.05   | 0.53      |          | 01H  | 01H |
| 28  | 49  | 0.28  | 44    | DSI |     | P1   | 01H | 0.07   |           |          | TEH  | TEC |
| 28  | 49  | 1.91  | 66    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 28  | 49  | 0.98  | 95    | SAI |     | 3    | 02H | 0.05   | 0.59      |          | 02H  | 02H |
| 28  | 50  | 0.59  | 102   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 28  | 52  | 0.84  | 103   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 28  | 54  | 0.20  | 104   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 28  | 54  | 0.19  | 113   | SAI |     | 3    | 01H | 0.02   | 0.36      |          | 01H  | 01H |
| 28  | 55  | 0.88  | 32    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 28  | 58  | 0.54  | 79    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 28  | 58  | 0.52  | 46    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 28  | 60  | 0.48  | 59    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 28  | 60  | 0.62  | 121   | DSI |     | P1   | 02H | -0.15  |           |          | TEH  | TEC |
| 28  | 62  | 1.11  | 67    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 28  | 68  | 0.36  | 20    | DSI |     | P1   | 02H | 0.10   |           |          | TEH  | TEC |
| 28  | 83  | 1.04  | 121   | PCT | 25  | P1   | 01C | -0.11  |           |          | TEH  | TEC |
| 28  | 83  | 0.49  | 119   | DSI |     | P1   | 02H | 0.20   |           |          | TEH  | TEC |

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 28  | 83  | 0.69  | 0     | PCT | 15  | P2   | AV1 | 0.00   |           |          | TEH  | TEC |
| 28  | 83  | 0.27  | 149   | SVI |     | P1   | 02H | 0.10   | 0.21      | 30       | 02H  | 02H |
| 28  | 84  | 0.43  | 101   | DSI |     | P1   | 01H | 0.26   |           |          | TEH  | TEC |
| 28  | 84  | 0.21  | 130   | SVI |     | P1   | 01H | 0.22   | 0.29      | 41       | 01H  | 01H |
| 29  | 15  | 0.33  | 96    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 29  | 22  | 1.39  | 98    | DSI |     | P1   | 01H | -0.02  |           |          | TEH  | TEC |
| 29  | 22  | 1.44  | 88    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 29  | 22  | 0.46  | 114   | MAI |     | 3    | 01H | -0.05  | 0.48      |          | 01H  | 01H |
| 29  | 22  | 0.73  | 111   | MAI |     | 3    | 02H | 0.10   | 0.48      |          | 02H  | 02H |
| 29  | 27  | 2.00  | 53    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 29  | 27  | 1.36  | 25    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 29  | 27  | 1.13  | 80    | MAI |     | 3    | 01H | -0.05  | 0.64      |          | 01H  | 01H |
| 29  | 27  | 0.41  | 105   | MAI |     | 3    | 02H | 0.00   | 0.50      |          | 02H  | 02H |
| 29  | 28  | 1.46  | 88    | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 29  | 28  | 0.82  | 76    | DSI |     | P1   | 02H | 0.13   |           |          | TEH  | TEC |
| 29  | 28  | 0.54  | 113   | MAI |     | 3    | 01H | -0.09  | 0.45      |          | 01H  | 01H |
| 29  | 29  | 1.14  | 65    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 29  | 29  | 0.30  | 57    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 29  | 32  | 1.00  | 64    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 29  | 32  | 0.57  | 72    | DSI |     | P1   | 02H | -0.11  |           |          | TEH  | TEC |
| 29  | 32  | 0.25  | 53    | DSI |     | P1   | 03H | -0.05  |           |          | TEH  | TEC |
| 29  | 33  | 0.66  | 37    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 29  | 33  | 0.68  | 50    | DSI |     | P1   | 02H | -0.06  |           |          | TEH  | TEC |
| 29  | 35  | 0.59  | 46    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 29  | 35  | 0.40  | 47    | DSI |     | P1   | 02H | -0.06  |           |          | TEH  | TEC |
| 29  | 36  | 0.80  | 113   | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 29  | 38  | 0.46  | 57    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 29  | 40  | 1.04  | 70    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 29  | 41  | 0.63  | 44    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 29  | 42  | 0.69  | 126   | DSI |     | P1   | 02H | 0.20   |           |          | TEH  | TEC |
| 29  | 42  | 0.41  | 85    | DSI |     | P1   | 04H | 0.00   |           |          | TEH  | TEC |
| 29  | 45  | 0.74  | 126   | DSI |     | P1   | 01H | 0.18   |           |          | TEH  | TEC |
| 29  | 45  | 0.64  | 71    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 29  | 46  | 2.83  | 0     | PCT | 32  | P2   | AV1 | -0.17  |           |          | TEH  | TEC |
| 29  | 46  | 4.09  | 0     | PCT | 37  | P2   | AV2 | 0.64   |           |          | TEH  | TEC |
| 29  | 46  | 1.82  | 0     | PCT | 26  | P2   | AV2 | -0.54  |           |          | TEH  | TEC |
| 29  | 46  | 1.93  | 0     | PCT | 27  | P2   | AV3 | -0.31  |           |          | TEH  | TEC |
| 29  | 46  | 3.37  | 0     | PCT | 34  | P2   | AV3 | 0.37   |           |          | TEH  | TEC |
| 29  | 46  | 2.43  | 0     | PCT | 30  | P2   | AV4 | 0.00   |           |          | TEH  | TEC |
| 29  | 46  | 0.41  | 124   | WAR |     | 2    | AV1 | -1.01  |           |          | AV1  | AV4 |
| 29  | 46  | 0.50  | 127   | WAR |     | 2    | AV2 | 1.11   |           |          | AV1  | AV4 |
| 29  | 46  | 0.33  | 138   | WAR |     | 2    | AV2 | -0.75  |           |          | AV1  | AV4 |
| 29  | 46  | 0.35  | 127   | WAR |     | 2    | AV3 | -0.39  |           |          | AV1  | AV4 |
| 29  | 46  | 0.64  | 108   | WAR |     | 2    | AV3 | 0.65   |           |          | AV1  | AV4 |
| 29  | 46  | 0.56  | 126   | WAR |     | 2    | AV4 | 0.59   |           |          | AV1  | AV4 |
| 29  | 48  | 0.60  | 81    | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 29  | 49  | 1.11  | 110   | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 29  | 49  | 1.37  | 105   | DSI |     | P1   | 02H | -0.07  |           |          | TEH  | TEC |
| 29  | 49  | 0.27  | 117   | MAI |     | 3    | 02H | -0.10  | 0.59      |          | 02H  | 02H |
| 29  | 51  | 0.79  | 35    | DSI |     | P1   | 02H | -0.07  |           |          | TEH  | TEC |
| 29  | 52  | 0.61  | 43    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |

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**1RC-E-1C**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 29  | 53  | 0.57  | 105   | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 29  | 56  | 0.46  | 98    | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 29  | 57  | 0.52  | 47    | DSI |     | P1   | 01H | 0.12   |           |          | TEH  | TEC |
| 29  | 57  | 0.52  | 66    | DSI |     | P1   | 02H | 0.07   |           |          | TEH  | TEC |
| 29  | 61  | 0.28  | 65    | DSI |     | P1   | 02H | 0.07   |           |          | TEH  | TEC |
| 29  | 64  | 1.06  | 78    | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 29  | 67  | 0.42  | 67    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 29  | 73  | 0.38  | 96    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 29  | 84  | 1.33  | 126   | PCT | 21  | P1   | 01C | -0.10  |           |          | TEH  | TEC |
| 30  | 14  | 2.45  | 113   | PCT | 38  | P1   | 02C | -0.14  |           |          | TEH  | TEC |
| 30  | 14  | 0.86  | 113   | VOL |     | 3    | 02C | -0.15  |           |          | 02C  | 02C |
| 30  | 18  | 1.01  | 43    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 30  | 18  | 0.75  | 133   | DSI |     | P1   | 02H | 0.14   |           |          | TEH  | TEC |
| 30  | 18  | 0.21  | 102   | SAI |     | 3    | 01H | -0.18  | 0.45      |          | 01H  | 01H |
| 30  | 20  | 0.22  | 89    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 30  | 21  | 0.16  | 99    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 30  | 23  | 0.33  | 53    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 30  | 23  | 0.70  | 88    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 30  | 24  | 0.23  | 89    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 30  | 24  | 0.44  | 95    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 30  | 27  | 0.53  | 32    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 30  | 27  | 0.70  | 49    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 30  | 33  | 0.77  | 54    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 30  | 33  | 0.18  | 45    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 30  | 36  | 1.00  | 106   | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 30  | 36  | 0.76  | 97    | DSI |     | P1   | 02H | -0.13  |           |          | TEH  | TEC |
| 30  | 38  | 1.37  | 97    | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 30  | 38  | 0.46  | 100   | MAI |     | 3    | 01H | 0.07   | 0.50      |          | 01H  | 01H |
| 30  | 43  | 0.60  | 46    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 30  | 44  | 1.67  | 80    | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 30  | 44  | 0.37  | 111   | MAI |     | 3    | 01H | 0.12   | 0.64      |          | 01H  | 01H |
| 30  | 47  | 0.11  | 111   | SAI |     | 3    | TSH | 0.14   | 0.21      |          | TSH  | TSH |
| 30  | 49  | 0.35  | 55    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 30  | 52  | 0.57  | 14    | SAI |     | 3    | TSH | -1.80  | 0.20      |          | TSH  | TSH |
| 30  | 53  | 0.90  | 78    | DSI |     | P1   | 01H | 0.02   |           |          | TEH  | TEC |
| 30  | 55  | 0.45  | 69    | DSI |     | P1   | 04H | -0.02  |           |          | TEH  | TEC |
| 30  | 56  | 0.57  | 84    | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 30  | 57  | 0.46  | 56    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 30  | 61  | 0.40  | 69    | DSI |     | P1   | 02H | 0.07   |           |          | TEH  | TEC |
| 30  | 63  | 1.82  | 102   | DSI |     | P1   | 01H | 0.16   |           |          | TEH  | TEC |
| 30  | 63  | 0.55  | 88    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 30  | 63  | 0.54  | 110   | SAI |     | 3    | 01H | 0.16   | 0.56      |          | 01H  | 01H |
| 30  | 68  | 1.42  | 97    | DSI |     | P1   | 01H | 0.19   |           |          | TEH  | TEC |
| 30  | 68  | 0.26  | 113   | MAI |     | 3    | 01H | 0.13   | 0.59      |          | 01H  | 01H |
| 30  | 70  | 1.04  | 87    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 30  | 79  | 0.40  | 145   | PCT | 0   | P1   | 01C | -0.11  |           |          | TEH  | TEC |
| 30  | 83  | 0.36  | 134   | PCT | 1   | P1   | 01C | 0.03   |           |          | TEH  | TEC |
| 31  | 19  | 1.61  | 99    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 31  | 19  | 0.91  | 54    | DSI |     | P1   | 04H | -0.08  |           |          | TEH  | TEC |
| 31  | 19  | 0.22  | 94    | DSI |     | P1   | 06H | -0.03  |           |          | TEH  | TEC |
| 31  | 19  | 0.42  | 110   | MAI |     | 3    | 01H | 0.11   | 0.42      |          | 01H  | 01H |

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**1RC-E-1C**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 31  | 22  | 0.58  | 122   | DSI |     | P1   | 01H | 0.02   |           |          | TEH  | TEC |
| 31  | 26  | 0.88  | 104   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 31  | 26  | 1.09  | 54    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 31  | 27  | 1.01  | 108   | DSI |     | P1   | 01H | -0.16  |           |          | TEH  | TEC |
| 31  | 27  | 0.27  | 58    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 31  | 28  | 0.56  | 56    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 31  | 30  | 1.60  | 95    | DSI |     | P1   | 01H | 0.07   |           |          | TEH  | TEC |
| 31  | 30  | 0.59  | 103   | MAI |     | 3    | 01H | -0.15  | 0.42      |          | 01H  | 01H |
| 31  | 32  | 0.73  | 43    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 31  | 32  | 0.41  | 45    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 31  | 32  | 0.66  | 60    | DSI |     | P1   | 03H | -0.06  |           |          | TEH  | TEC |
| 31  | 34  | 0.39  | 94    | DSI |     | P1   | 02H | 0.13   |           |          | TEH  | TEC |
| 31  | 34  | 0.69  | 79    | DSI |     | P1   | 03H | -0.03  |           |          | TEH  | TEC |
| 31  | 35  | 1.90  | 102   | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 31  | 35  | 0.83  | 109   | DSI |     | P1   | 02H | -0.17  |           |          | TEH  | TEC |
| 31  | 35  | 0.54  | 135   | DSI |     | P1   | 04H | -0.06  |           |          | TEH  | TEC |
| 31  | 35  | 0.94  | 111   | SAI |     | 3    | 01H | 0.10   | 0.50      |          | 01H  | 01H |
| 31  | 38  | 0.69  | 103   | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 31  | 39  | 1.73  | 98    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 31  | 39  | 0.61  | 98    | MAI |     | 3    | 01H | -0.01  | 0.58      |          | 01H  | 01H |
| 31  | 40  | 0.38  | 47    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 31  | 43  | 1.25  | 108   | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 31  | 45  | 0.59  | 59    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 31  | 46  | 0.85  | 48    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 31  | 47  | 0.61  | 54    | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 31  | 48  | 1.77  | 104   | DSI |     | P1   | 02H | -0.15  |           |          | TEH  | TEC |
| 31  | 48  | 0.73  | 115   | MAI |     | 3    | 02H | 0.05   | 0.54      |          | 02H  | 02H |
| 31  | 50  | 1.32  | 102   | DSI |     | P1   | 02H | -0.13  |           |          | TEH  | TEC |
| 31  | 50  | 0.21  | 126   | MAI |     | 3    | 02H | -0.03  | 0.62      |          | 02H  | 02H |
| 31  | 59  | 1.10  | 94    | DSI |     | P1   | 01H | 0.12   |           |          | TEH  | TEC |
| 31  | 62  | 0.35  | 96    | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 31  | 62  | 0.81  | 43    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 31  | 63  | 0.58  | 27    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 31  | 69  | 0.23  | 88    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 32  | 18  | 0.96  | 91    | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 32  | 18  | 0.65  | 51    | DSI |     | P1   | 04H | 0.03   |           |          | TEH  | TEC |
| 32  | 22  | 0.36  | 70    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 32  | 24  | 2.10  | 98    | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 32  | 24  | 1.08  | 31    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 32  | 24  | 0.64  | 82    | DSI |     | P1   | 03H | -0.10  |           |          | TEH  | TEC |
| 32  | 24  | 0.72  | 105   | MAI |     | 3    | 01H | 0.00   | 0.45      |          | 01H  | 01H |
| 32  | 24  | 0.36  | 114   | MAI |     | 3    | 02H | -0.01  | 0.42      |          | 02H  | 02H |
| 32  | 27  | 1.14  | 92    | DSI |     | P1   | 01H | -0.08  |           |          | TSH  | TEC |
| 32  | 27  | 1.29  | 98    | DSI |     | P1   | 01H | -0.02  |           |          | TEH  | TEC |
| 32  | 27  | 0.37  | 114   | SAI |     | 3    | 01H | -0.02  | 0.28      |          | 01H  | 01H |
| 32  | 28  | 1.66  | 93    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 32  | 28  | 0.54  | 92    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 32  | 28  | 1.19  | 103   | MAI |     | 3    | 01H | 0.06   | 0.55      |          | 01H  | 01H |
| 32  | 30  | 0.25  | 41    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 32  | 30  | 0.80  | 51    | DSI |     | P1   | 03H | -0.03  |           |          | TEH  | TEC |
| 32  | 32  | 0.72  | 65    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 32  | 33  | 0.90  | 51    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 32  | 34  | 0.62  | 82    | DSI |     | P1   | 02H | -0.10  |           |          | TEH  | TEC |
| 32  | 35  | 0.82  | 114   | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 32  | 36  | 1.71  | 81    | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 32  | 36  | 1.20  | 72    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 32  | 36  | 0.64  | 108   | MAI |     | 3    | 01H | 0.05   | 0.66      |          | 01H  | 01H |
| 32  | 37  | 0.98  | 72    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 32  | 39  | 1.11  | 78    | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 32  | 39  | 0.77  | 105   | DSI |     | P1   | 03H | -0.20  |           |          | TEH  | TEC |
| 32  | 42  | 0.85  | 123   | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 32  | 43  | 1.36  | 100   | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 32  | 43  | 1.16  | 86    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 32  | 43  | 0.38  | 126   | SAI |     | 3    | 01H | 0.06   | 0.55      |          | 01H  | 01H |
| 32  | 46  | 1.50  | 85    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 32  | 46  | 0.55  | 109   | MAI |     | 3    | 01H | -0.01  | 0.48      |          | 01H  | 01H |
| 32  | 50  | 2.10  | 111   | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 32  | 50  | 1.66  | 103   | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 32  | 50  | 0.40  | 121   | MAI |     | 3    | 01H | 0.17   | 0.59      |          | 01H  | 01H |
| 32  | 50  | 0.36  | 108   | MAI |     | 3    | 02H | -0.06  | 0.61      |          | 02H  | 02H |
| 32  | 53  | 0.92  | 112   | DSI |     | P1   | 02H | -0.12  |           |          | TEH  | TEC |
| 32  | 57  | 1.44  | 106   | DSI |     | P1   | 01H | 0.12   |           |          | TEH  | TEC |
| 32  | 57  | 0.84  | 99    | DSI |     | P1   | 02H | -0.07  |           |          | TEH  | TEC |
| 32  | 57  | 0.43  | 115   | SAI |     | 3    | 01H | 0.17   | 0.43      |          | 01H  | 01H |
| 32  | 58  | 0.35  | 31    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 32  | 58  | 0.34  | 23    | DSI |     | P1   | 03H | -0.03  |           |          | TEH  | TEC |
| 32  | 60  | 0.52  | 82    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 32  | 69  | 0.26  | 38    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 32  | 69  | 0.43  | 119   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 32  | 70  | 0.58  | 126   | DSI |     | P1   | 02H | 0.24   |           |          | TEH  | TEC |
| 33  | 18  | 1.75  | 115   | PCT | 36  | P1   | 01C | -0.24  |           |          | TEH  | TEC |
| 33  | 18  | 0.84  | 112   | VOL |     | 3    | 01C | -0.24  |           |          | 01C  | 01C |
| 33  | 23  | 0.51  | 112   | DSI |     | P1   | 01H | -0.07  |           |          | TEH  | TEC |
| 33  | 25  | 0.32  | 123   | DSI |     | P1   | 01H | -0.02  |           |          | TEH  | TEC |
| 33  | 25  | 0.92  | 84    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 33  | 26  | 1.73  | 85    | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 33  | 26  | 0.62  | 53    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 33  | 26  | 0.63  | 102   | MAI |     | 3    | 01H | -0.03  | 0.44      |          | 01H  | 01H |
| 33  | 27  | 0.71  | 104   | DSI |     | P1   | 01H | -0.11  |           |          | TEH  | TEC |
| 33  | 30  | 1.29  | 96    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 33  | 30  | 0.58  | 101   | MAI |     | 3    | 01H | -0.11  | 0.47      |          | 01H  | 01H |
| 33  | 31  | 0.92  | 110   | DSI |     | P1   | 01H | -0.07  |           |          | TEH  | TEC |
| 33  | 36  | 0.27  | 56    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 33  | 36  | 0.59  | 99    | DSI |     | P1   | 02H | -0.13  |           |          | TEH  | TEC |
| 33  | 45  | 0.40  | 67    | DSI |     | P1   | 02H | 0.03   |           |          | 07H  | TEH |
| 33  | 49  | 0.55  | 107   | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 33  | 50  | 0.39  | 75    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 33  | 51  | 0.92  | 131   | DSI |     | P1   | 01H | -0.09  |           |          | 07H  | TEH |
| 33  | 51  | 0.50  | 61    | DSI |     | P1   | 02H | 0.00   |           |          | 07H  | TEH |
| 33  | 53  | 0.67  | 123   | DSI |     | P1   | 02H | -0.12  |           |          | 07H  | TEH |
| 33  | 59  | 0.41  | 60    | DSI |     | P1   | 03H | 0.02   |           |          | TEH  | TEC |
| 33  | 63  | 0.47  | 58    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |



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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 33  | 68  | 1.51  | 96    | DSI |     | P1   | 01H | 0.12   |           |          | TEH  | TEC |
| 33  | 68  | 0.45  | 66    | DSI |     | P1   | 02H | 0.07   |           |          | TEH  | TEC |
| 33  | 68  | 0.85  | 103   | MAI |     | 3    | 01H | 0.03   | 0.59      |          | 01H  | 01H |
| 33  | 78  | 0.34  | 146   | PCT | 0   | P1   | 01C | -0.03  |           |          | TEH  | TEC |
| 33  | 78  | 0.72  | 127   | DSI |     | P1   | 04H | 0.26   |           |          | TEH  | TEC |
| 34  | 21  | 0.44  | 64    | DSI |     | P1   | 01H | 0.07   |           |          | TEH  | TEC |
| 34  | 21  | 0.36  | 104   | DSI |     | P1   | 05H | 0.17   |           |          | TEH  | TEC |
| 34  | 26  | 0.76  | 76    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 34  | 28  | 1.15  | 78    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 34  | 28  | 0.43  | 71    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 34  | 29  | 1.10  | 103   | DSI |     | P1   | 01H | 0.15   |           |          | TEH  | TEC |
| 34  | 29  | 0.51  | 57    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 34  | 30  | 0.82  | 33    | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 34  | 31  | 1.76  | 83    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 34  | 31  | 0.67  | 97    | MAI |     | 3    | 01H | -0.18  | 0.61      |          | 01H  | 01H |
| 34  | 32  | 1.26  | 78    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 34  | 32  | 0.86  | 90    | DSI |     | P1   | 02H | -0.10  |           |          | TEH  | TEC |
| 34  | 32  | 0.70  | 62    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 34  | 36  | 0.57  | 40    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 34  | 39  | 0.56  | 47    | DSI |     | P1   | 02H | -0.11  |           |          | TEH  | TEC |
| 34  | 40  | 0.84  | 51    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 34  | 40  | 0.40  | 65    | DSI |     | P1   | 03H | -0.03  |           |          | TEH  | TEC |
| 34  | 43  | 0.55  | 102   | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 34  | 47  | 0.95  | 0     | PCT | 19  | P2   | AV2 | 0.00   |           |          | 07H  | TEC |
| 34  | 47  | 0.31  | 115   | WAR |     | 2    | AV2 | -0.88  |           |          | AV2  | AV2 |
| 34  | 50  | 0.66  | 73    | DSI |     | P1   | 02H | -0.05  |           |          | 07H  | TEH |
| 34  | 54  | 0.56  | 75    | DSI |     | P1   | 02H | -0.05  |           |          | 07H  | TEH |
| 34  | 56  | 0.65  | 79    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 34  | 56  | 0.32  | 87    | DSI |     | P1   | 02H | 0.03   |           |          | 07H  | TEH |
| 34  | 59  | 0.38  | 58    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 34  | 63  | 0.50  | 74    | DSI |     | P1   | 01H | 0.07   |           |          | TEH  | TEC |
| 34  | 66  | 0.75  | 0     | PCT | 16  | P2   | AV3 | 0.08   |           |          | TEH  | TEC |
| 34  | 66  | 1.22  | 0     | PCT | 22  | P2   | AV4 | -0.03  |           |          | TEH  | TEC |
| 34  | 66  | 0.24  | 128   | WAR |     | 2    | AV3 | 0.02   |           |          | AV2  | AV4 |
| 34  | 66  | 0.36  | 137   | WAR |     | 2    | AV4 | 0.02   |           |          | AV2  | AV4 |
| 34  | 77  | 1.09  | 118   | PCT | 30  | P1   | 01C | -0.14  |           |          | TEH  | TEC |
| 34  | 77  | 0.54  | 143   | PCT | 0   | P1   | 02C | -0.09  |           |          | TEH  | TEC |
| 34  | 79  | 0.78  | 126   | PCT | 17  | P1   | 01C | 0.06   |           |          | TEH  | TEC |
| 34  | 79  | 2.13  | 122   | PCT | 23  | P1   | 02C | 0.03   |           |          | TEH  | TEC |
| 35  | 20  | 0.71  | 120   | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 35  | 20  | 0.52  | 99    | DSI |     | P1   | 02H | -0.05  |           |          | TEH  | TEC |
| 35  | 27  | 0.55  | 77    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 35  | 28  | 1.16  | 52    | DSI |     | P1   | 01H | 0.02   |           |          | TEH  | TEC |
| 35  | 28  | 1.14  | 70    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 35  | 28  | 0.41  | 100   | DSI |     | P1   | 04H | 0.00   |           |          | TEH  | TEC |
| 35  | 30  | 0.75  | 45    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 35  | 31  | 1.74  | 94    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 35  | 31  | 0.50  | 107   | DSI |     | P1   | 02H | -0.08  |           |          | TEH  | TEC |
| 35  | 31  | 0.99  | 102   | MAI |     | 3    | 01H | -0.06  | 0.50      |          | 01H  | 01H |
| 35  | 33  | 0.66  | 54    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 35  | 34  | 0.88  | 96    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |

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**1RC-E-1C**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 35  | 34  | 0.57  | 48    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 35  | 35  | 0.82  | 56    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 35  | 40  | 0.49  | 46    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 35  | 40  | 0.60  | 98    | DSI |     | P1   | 03H | 0.13   |           |          | TEH  | TEC |
| 35  | 43  | 0.74  | 110   | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 35  | 43  | 0.48  | 96    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 35  | 45  | 0.92  | 109   | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 35  | 45  | 0.25  | 132   | DSI |     | P1   | 02H | 0.06   |           |          | 07H  | TEH |
| 35  | 47  | 1.65  | 131   | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 35  | 47  | 1.49  | 117   | DSI |     | P1   | 04H | -0.23  |           |          | 07H  | TEH |
| 35  | 47  | 0.28  | 103   | SAI |     | 3    | 04H | -0.06  | 0.43      |          | 04H  | 04H |
| 35  | 47  | 0.57  | 116   | MAI |     | 3    | 01H | 0.06   | 0.47      |          | 01H  | 01H |
| 35  | 53  | 1.23  | 85    | DSI |     | P1   | 01H | 0.06   |           |          | 07H  | TEH |
| 35  | 55  | 0.91  | 91    | DSI |     | P1   | 01H | -0.12  |           |          | 07H  | TEH |
| 35  | 55  | 0.68  | 84    | DSI |     | P1   | 02H | -0.12  |           |          | 07H  | TEH |
| 35  | 55  | 0.35  | 66    | DSI |     | P1   | 03H | -0.06  |           |          | 07H  | TEH |
| 35  | 55  | 0.32  | 46    | DSI |     | P1   | 05H | -0.03  |           |          | 07H  | TEH |
| 35  | 61  | 0.72  | 60    | DSI |     | P1   | 02H | 0.07   |           |          | TEH  | TEC |
| 35  | 63  | 0.86  | 110   | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 35  | 63  | 0.45  | 31    | DSI |     | P1   | 02H | 0.07   |           |          | TEH  | TEC |
| 35  | 63  | 0.62  | 58    | DSI |     | P1   | 03H | 0.02   |           |          | TEH  | TEC |
| 35  | 67  | 1.43  | 106   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 35  | 67  | 0.69  | 90    | DSI |     | P1   | 02H | -0.10  |           |          | TEH  | TEC |
| 35  | 67  | 0.53  | 112   | MAI |     | 3    | 01H | 0.07   | 0.51      |          | 01H  | 01H |
| 35  | 78  | 0.97  | 113   | PCT | 39  | P1   | 04C | -0.26  |           |          | TEH  | TEC |
| 35  | 78  | 0.71  | 116   | VOL |     | 3    | 04C | -0.21  |           |          | 04C  | 04C |
| 36  | 21  | 0.50  | 57    | DSI |     | P1   | 05H | 0.12   |           |          | TEH  | TEC |
| 36  | 22  | 1.04  | 81    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 36  | 23  | 0.49  | 77    | DSI |     | P1   | 01H | -0.07  |           |          | TEH  | TEC |
| 36  | 28  | 0.84  | 87    | DSI |     | P1   | 01H | 0.02   |           |          | TEH  | TEC |
| 36  | 29  | 0.22  | 78    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 36  | 31  | 0.81  | 78    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 36  | 35  | 1.26  | 121   | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 36  | 35  | 1.26  | 79    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 36  | 36  | 1.70  | 95    | DSI |     | P1   | 02H | -0.10  |           |          | TEH  | TEC |
| 36  | 36  | 0.53  | 54    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 36  | 36  | 0.14  | 114   | MAI |     | 3    | 02H | -0.01  | 0.53      |          | 02H  | 02H |
| 36  | 37  | 0.31  | 154   | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 36  | 41  | 1.07  | 104   | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 36  | 41  | 0.81  | 87    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 36  | 41  | 0.74  | 86    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 36  | 41  | 1.14  | 98    | DSI |     | P1   | 01H | 0.05   |           |          | 07H  | TEH |
| 36  | 41  | 0.84  | 89    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 36  | 41  | 0.68  | 95    | DSI |     | P1   | 03H | 0.05   |           |          | 07H  | TEH |
| 36  | 42  | 0.91  | 128   | DSI |     | P1   | 01H | -0.22  |           |          | 07H  | TEH |
| 36  | 43  | 1.08  | 114   | DSI |     | P1   | 01H | -0.16  |           |          | 07H  | TEH |
| 36  | 44  | 0.26  | 80    | DSI |     | P1   | 01H | -0.05  |           |          | 07H  | TEH |
| 36  | 45  | 0.88  | 119   | DSI |     | P1   | 01H | 0.09   |           |          | 07H  | TEH |
| 36  | 45  | 1.29  | 109   | DSI |     | P1   | 02H | -0.12  |           |          | 07H  | TEH |
| 36  | 45  | 0.32  | 132   | MAI |     | 3    | 02H | 0.01   | 0.52      |          | 02H  | 02H |
| 36  | 47  | 0.83  | 0     | PCT | 18  | P2   | AV1 | 0.00   |           |          | 07H  | TEC |

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| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 36  | 47  | 2.44  | 0     | PCT | 31  | P2   | AV2 | 0.00   |           |          | 07H  | TEC |
| 36  | 47  | 0.39  | 131   | WAR |     | 2    | AV1 | 0.00   |           |          | AV1  | AV1 |
| 36  | 47  | 0.44  | 117   | WAR |     | 2    | AV2 | 0.00   |           |          | AV2  | AV2 |
| 36  | 50  | 0.43  | 129   | DSI |     | P1   | 01H | 0.05   |           |          | 07H  | TEH |
| 36  | 50  | 0.84  | 60    | DSI |     | P1   | 03H | 0.00   |           |          | 07H  | TEH |
| 36  | 52  | 0.32  | 83    | DSI |     | P1   | 03H | -0.05  |           |          | 07H  | TEH |
| 36  | 54  | 0.53  | 63    | DSI |     | P1   | 03H | 0.00   |           |          | 07H  | TEH |
| 36  | 69  | 0.84  | 0     | PCT | 17  | P2   | AV2 | 0.00   |           |          | TEH  | TEC |
| 36  | 69  | 0.59  | 0     | PCT | 13  | P2   | AV3 | 0.00   |           |          | TEH  | TEC |
| 36  | 69  | 0.29  | 121   | WAR |     | 2    | AV2 | 0.00   |           |          | AV2  | AV2 |
| 36  | 69  | 0.32  | 137   | WAR |     | 2    | AV3 | 0.20   |           |          | AV3  | AV4 |
| 36  | 76  | 1.78  | 140   | PCT | 0   | P1   | 01C | -0.16  |           |          | TEH  | TEC |
| 36  | 77  | 0.50  | 122   | PCT | 23  | P1   | 04C | 0.14   |           |          | TEH  | TEC |
| 36  | 77  | 0.32  | 118   | VOL |     | 3    | 04C | 0.11   |           |          | 04C  | 04C |
| 37  | 19  | 0.59  | 119   | PCT | 26  | P1   | 01C | -0.13  |           |          | TEH  | TEC |
| 37  | 20  | 0.79  | 113   | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 37  | 25  | 0.53  | 75    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 37  | 26  | 0.98  | 96    | DSI |     | P1   | 01H | -0.02  |           |          | TEH  | TEC |
| 37  | 29  | 0.51  | 87    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 37  | 33  | 0.71  | 24    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 37  | 36  | 0.81  | 51    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 37  | 37  | 0.61  | 80    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 37  | 38  | 0.65  | 39    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 37  | 41  | 1.85  | 96    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 37  | 41  | 1.01  | 101   | DSI |     | P1   | 02H | 0.17   |           |          | TEH  | TEC |
| 37  | 41  | 0.87  | 124   | DSI |     | P1   | 03H | -0.25  |           |          | TEH  | TEC |
| 37  | 41  | 1.31  | 104   | DSI |     | P1   | 01H | 0.09   |           |          | 07H  | TEH |
| 37  | 41  | 0.66  | 81    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 37  | 41  | 0.86  | 120   | DSI |     | P1   | 03H | -0.17  |           |          | 07H  | TEH |
| 37  | 41  | 0.45  | 109   | SAI |     | 3    | 01H | 0.00   | 0.73      |          | 01H  | 01H |
| 37  | 42  | 1.38  | 86    | DSI |     | P1   | 01H | 0.12   |           |          | 07H  | TEH |
| 37  | 42  | 0.30  | 118   | MAI |     | 3    | 01H | 0.00   | 0.50      |          | 01H  | 01H |
| 37  | 45  | 0.68  | 100   | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 37  | 52  | 0.48  | 82    | DSI |     | P1   | 01H | 0.00   |           |          | 07H  | TEH |
| 37  | 59  | 0.84  | 27    | DSI |     | P1   | 02H | 0.07   |           |          | TEH  | TEC |
| 37  | 62  | 0.54  | 138   | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 37  | 62  | 1.67  | 84    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 37  | 62  | 0.41  | 121   | MAI |     | 3    | 02H | -0.04  | 0.51      |          | 02H  | 02H |
| 37  | 65  | 0.82  | 126   | DSI |     | P1   | 01H | 0.24   |           |          | TEH  | TEC |
| 37  | 74  | 0.94  | 138   | PCT | 2   | P1   | 01C | -0.03  |           |          | TEH  | TEC |
| 37  | 76  | 0.53  | 132   | PCT | 12  | P1   | 01C | -0.31  |           |          | TEH  | TEC |
| 38  | 23  | 1.20  | 116   | PCT | 33  | P1   | 01C | -0.21  |           |          | TEH  | TEC |
| 38  | 23  | 0.30  | 81    | DSI |     | P1   | 01H | -0.05  |           |          | TEH  | TEC |
| 38  | 23  | 0.56  | 82    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 38  | 27  | 1.04  | 34    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 38  | 27  | 0.33  | 127   | DSI |     | P1   | 06H | -0.11  |           |          | TEH  | TEC |
| 38  | 27  | 0.36  | 96    | SAI |     | 3    | 02H | -0.07  | 0.34      |          | 02H  | 02H |
| 38  | 30  | 0.44  | 111   | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 38  | 31  | 0.58  | 88    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 38  | 32  | 1.35  | 80    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 38  | 32  | 0.81  | 100   | SAI |     | 3    | 01H | 0.03   | 0.53      |          | 01H  | 01H |

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| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 38  | 33  | 0.72  | 28    | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 38  | 34  | 0.70  | 60    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 38  | 37  | 1.46  | 99    | DSI |     | P1   | 02H | 0.08   |           |          | TEH  | TEC |
| 38  | 37  | 0.36  | 120   | MAI |     | 3    | 02H | 0.02   | 0.47      |          | 02H  | 02H |
| 38  | 41  | 0.61  | 134   | DSI |     | P1   | 01H | -0.19  |           |          | 07H  | TEH |
| 38  | 47  | 0.91  | 125   | DSI |     | P1   | 01H | -0.19  |           |          | 07H  | TEH |
| 38  | 52  | 0.90  | 152   | DSI |     | P1   | 01H | -0.21  |           |          | 07H  | TEH |
| 38  | 52  | 0.55  | 106   | DSI |     | P1   | 03H | 0.00   |           |          | 07H  | TEH |
| 38  | 55  | 1.48  | 123   | DSI |     | P1   | 01H | -0.16  |           |          | 07H  | TEH |
| 38  | 55  | 0.56  | 121   | DSI |     | P1   | 02H | -0.08  |           |          | 07H  | TEH |
| 38  | 55  | 0.48  | 108   | SAI |     | 3    | 01H | -0.12  | 0.61      |          | 01H  | 01H |
| 38  | 59  | 1.11  | 129   | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 38  | 62  | 0.96  | 130   | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 38  | 62  | 1.09  | 127   | DSI |     | P1   | 02H | -0.20  |           |          | TEH  | TEC |
| 38  | 63  | 1.81  | 93    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 38  | 63  | 0.79  | 82    | DSI |     | P1   | 03H | 0.07   |           |          | TEH  | TEC |
| 38  | 63  | 0.29  | 91    | DSI |     | P1   | 05H | 0.15   |           |          | TEH  | TEC |
| 38  | 63  | 0.55  | 105   | MAI |     | 3    | 02H | -0.03  | 0.53      |          | 02H  | 02H |
| 38  | 64  | 0.54  | 48    | DSI |     | P1   | 03H | -0.05  |           |          | TEH  | TEC |
| 38  | 66  | 1.54  | 81    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 38  | 66  | 1.20  | 101   | DSI |     | P1   | 04H | -0.05  |           |          | TEH  | TEC |
| 38  | 66  | 0.36  | 110   | MAI |     | 3    | 03H | -0.01  | 0.56      |          | 03H  | 03H |
| 38  | 68  | 0.58  | 49    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 38  | 70  | 0.53  | 51    | DSI |     | P1   | 03H | 0.02   |           |          | TEH  | TEC |
| 38  | 73  | 0.28  | 123   | PCT | 22  | P1   | 01C | -0.14  |           |          | TEH  | TEC |
| 38  | 73  | 1.09  | 0     | PCT | 21  | P2   | AV3 | 0.00   |           |          | TEH  | TEC |
| 38  | 74  | 0.59  | 65    | DSI |     | P1   | 02H | 0.20   |           |          | TEH  | TEC |
| 39  | 22  | 0.25  | 100   | DSI |     | P1   | 02H | 0.18   |           |          | TEH  | TEC |
| 39  | 22  | 0.12  | 123   | SVI |     | P1   | 02H | 0.03   | 0.13      | 22       | 02H  | 02H |
| 39  | 25  | 0.41  | 45    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 39  | 27  | 0.67  | 131   | PCT | 10  | P1   | 01C | -0.13  |           |          | TEH  | TEC |
| 39  | 29  | 1.22  | 69    | DSI |     | P1   | 01H | -0.08  |           |          | TEH  | TEC |
| 39  | 29  | 0.45  | 43    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 39  | 30  | 0.78  | 45    | DSI |     | P1   | 01H | 0.05   |           |          | TEH  | TEC |
| 39  | 32  | 1.57  | 100   | DSI |     | P1   | 01H | 0.18   |           |          | TEH  | TEC |
| 39  | 32  | 0.40  | 121   | MAI |     | 3    | 01H | 0.05   | 0.36      |          | 01H  | 01H |
| 39  | 33  | 1.13  | 97    | DSI |     | P1   | 01H | 0.11   |           |          | TEH  | TEC |
| 39  | 33  | 1.41  | 124   | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 39  | 33  | 0.43  | 78    | DSI |     | P1   | 05H | 0.09   |           |          | TEH  | TEC |
| 39  | 33  | 0.29  | 134   | SAI |     | 3    | 02H | -0.03  | 0.42      |          | 02H  | 02H |
| 39  | 37  | 0.72  | 71    | DSI |     | P1   | 01H | -0.06  |           |          | TEH  | TEC |
| 39  | 58  | 1.91  | 0     | PCT | 24  | P2   | AV4 | 0.00   |           |          | TEH  | TEC |
| 39  | 58  | 0.14  | 98    | WAR |     | 2    | AV4 | 0.12   |           |          | AV4  | AV4 |
| 39  | 63  | 2.04  | 0     | PCT | 28  | P2   | AV1 | -0.10  |           |          | TEH  | TEC |
| 39  | 63  | 2.12  | 0     | PCT | 28  | P2   | AV2 | 0.46   |           |          | TEH  | TEC |
| 39  | 63  | 1.66  | 0     | PCT | 25  | P2   | AV2 | -0.49  |           |          | TEH  | TEC |
| 39  | 63  | 0.55  | 126   | WAR |     | 2    | AV2 | 0.46   |           |          | AV2  | AV2 |
| 39  | 63  | 0.30  | 127   | WAR |     | 2    | AV2 | -0.49  |           |          | AV2  | AV2 |
| 39  | 71  | 0.96  | 110   | PCT | 37  | P1   | 02C | 0.00   |           |          | TEH  | TEC |
| 40  | 25  | 1.18  | 119   | PCT | 32  | P1   | 01C | -0.21  |           |          | TEH  | TEC |
| 40  | 25  | 0.36  | 113   | VOL |     | 3    | 01C | -0.27  |           |          | 01C  | 01C |

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 40  | 27  | 0.49  | 49    | DSI |     | P1   | 02H | 0.05   |           |          | TEH  | TEC |
| 40  | 33  | 0.43  | 42    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 40  | 36  | 0.42  | 90    | DSI |     | P1   | 01H | 0.03   |           |          | TEH  | TEC |
| 40  | 39  | 1.45  | 103   | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 40  | 39  | 0.48  | 110   | SAI |     | 3    | 01H | -0.01  | 0.50      |          | 01H  | 01H |
| 40  | 40  | 1.70  | 98    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 40  | 40  | 0.79  | 110   | MAI |     | 3    | 01H | 0.01   | 0.50      |          | 01H  | 01H |
| 40  | 41  | 0.45  | 84    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 40  | 41  | 1.13  | 0     | PCT | 19  | P2   | AV2 | -1.19  |           |          | TEH  | TEC |
| 40  | 41  | 0.87  | 0     | PCT | 16  | P2   | AV3 | 0.00   |           |          | TEH  | TEC |
| 40  | 41  | 0.60  | 89    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 40  | 50  | 1.29  | 0     | PCT | 20  | P2   | AV2 | 0.00   |           |          | 07H  | TEC |
| 40  | 50  | 0.10  | 128   | WAR |     | 2    | AV2 | 0.00   |           |          | AV2  | AV2 |
| 40  | 52  | 2.13  | 0     | PCT | 30  | P2   | AV3 | 0.00   |           |          | 07H  | TEC |
| 40  | 52  | 2.47  | 0     | PCT | 31  | P2   | AV4 | 0.00   |           |          | 07H  | TEC |
| 40  | 52  | 0.18  | 328   | WAR |     | 2    | AV3 | 0.82   |           |          | AV3  | AV4 |
| 40  | 52  | 0.48  | 117   | WAR |     | 2    | AV3 | -0.56  |           |          | AV3  | AV4 |
| 40  | 52  | 0.66  | 114   | WAR |     | 2    | AV4 | -1.17  |           |          | AV3  | AV4 |
| 40  | 63  | 0.76  | 60    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 40  | 66  | 0.39  | 106   | DSI |     | P1   | 01H | 0.13   |           |          | TEH  | TEC |
| 40  | 66  | 0.76  | 61    | DSI |     | P1   | 02H | -0.10  |           |          | TEH  | TEC |
| 40  | 70  | 0.39  | 84    | DSI |     | P1   | 05H | 0.00   |           |          | TEH  | TEC |
| 41  | 26  | 0.57  | 47    | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 41  | 26  | 1.68  | 132   | PCT | 8   | P1   | 04C | 0.15   |           |          | TEH  | TEC |
| 41  | 29  | 0.61  | 101   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 41  | 29  | 1.57  | 127   | PCT | 18  | P1   | 04C | 0.20   |           |          | TEH  | TEC |
| 41  | 33  | 0.64  | 117   | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 41  | 33  | 0.51  | 93    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 41  | 34  | 0.43  | 124   | PCT | 22  | P1   | 02C | -0.23  |           |          | TEH  | TEC |
| 41  | 34  | 0.39  | 127   | PCT | 17  | P1   | 03C | -0.15  |           |          | TEH  | TEC |
| 41  | 34  | 0.59  | 60    | DSI |     | P1   | 03H | 0.16   |           |          | TEH  | TEC |
| 41  | 34  | 0.39  | 312   | VOL |     | 3    | 03C | -0.17  |           |          | 03C  | 03C |
| 41  | 36  | 0.31  | 68    | DSI |     | P1   | 01H | 0.08   |           |          | TEH  | TEC |
| 41  | 39  | 0.75  | 74    | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 41  | 39  | 0.30  | 129   | DSI |     | P1   | 04H | -0.06  |           |          | TEH  | TEC |
| 41  | 46  | 0.47  | 24    | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 41  | 48  | 0.43  | 41    | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 41  | 55  | 0.37  | 149   | DSI |     | P1   | 02H | -0.03  |           |          | 07H  | TEH |
| 41  | 56  | 0.72  | 63    | DSI |     | P1   | 03H | -0.05  |           |          | 07H  | TEH |
| 41  | 56  | 1.51  | 0     | PCT | 21  | P2   | AV1 | 0.00   |           |          | 07H  | TEC |
| 41  | 56  | 0.09  | 156   | WAR |     | 2    | AV1 | 0.00   |           |          | AV1  | AV1 |
| 41  | 60  | 0.27  | 64    | DSI |     | P1   | 03H | -0.11  |           |          | TEH  | TEC |
| 41  | 63  | 0.86  | 85    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 41  | 66  | 1.17  | 118   | PCT | 24  | P1   | 01C | -0.23  |           |          | TEH  | TEC |
| 41  | 69  | 0.46  | 119   | PCT | 28  | P1   | 01C | -0.24  |           |          | TEH  | TEC |
| 42  | 28  | 0.59  | 112   | PCT | 37  | P1   | 04C | 0.23   |           |          | TEH  | TEC |
| 42  | 28  | 0.58  | 112   | PCT | 37  | P1   | 04C | 0.15   |           |          | TEH  | TEC |
| 42  | 31  | 0.70  | 120   | PCT | 25  | P1   | 03C | -0.17  |           |          | TEH  | TEC |
| 42  | 31  | 0.57  | 121   | PCT | 25  | P1   | 03C | -0.23  |           |          | TEH  | TEC |
| 42  | 31  | 0.37  | 125   | VOL |     | 3    | 03C | -0.24  |           |          | 03C  | 03C |
| 42  | 38  | 0.52  | 127   | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |

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**1RC-E-1C**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 42  | 39  | 1.91  | 94    | DSI |     | P1   | 01H | 0.06   |           |          | TEH  | TEC |
| 42  | 39  | 0.45  | 94    | DSI |     | P1   | 03H | -0.14  |           |          | TEH  | TEC |
| 42  | 39  | 0.57  | 106   | MAI |     | 3    | 01H | 0.00   | 0.55      |          | 01H  | 01H |
| 42  | 40  | 11.48 | 325   | PSI |     | 8    | 01H | 0.23   |           |          | TEH  | TEC |
| 42  | 40  | 6.89  | 143   | PSI |     | 8    | 01H | -0.13  |           |          | TEH  | TEC |
| 42  | 40  | 0.18  | 85    | CSI |     | 11   | 01H | 0.05   |           | 35       | 01H  | 01H |
| 42  | 42  | 0.64  | 124   | DSI |     | P1   | 03H | 0.06   |           |          | 07H  | TEH |
| 42  | 42  | 0.30  | 125   | DSI |     | P1   | 06H | -0.06  |           |          | 07H  | TEH |
| 42  | 52  | 0.45  | 124   | DSI |     | P1   | 01H | -0.03  |           |          | 07H  | TEH |
| 42  | 53  | 0.87  | 128   | PCT | 15  | P1   | 02C | -0.22  |           |          | 07H  | TEC |
| 43  | 31  | 0.25  | 127   | PCT | 18  | P1   | 01C | 0.06   |           |          | TEH  | TEC |
| 43  | 31  | 0.15  | 107   | VOL |     | 3    | 01C | 0.06   |           |          | 01C  | 01C |
| 43  | 33  | 0.42  | 134   | PCT | 0   | P1   | 01C | -0.03  |           |          | TEH  | TEC |
| 43  | 36  | 0.80  | 141   | DSI |     | P1   | 03H | -0.08  |           |          | TEH  | TEC |
| 43  | 37  | 0.85  | 104   | DSI |     | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 43  | 45  | 0.88  | 68    | DSI |     | P1   | 02H | -0.06  |           |          | 07H  | TEH |
| 43  | 45  | 0.32  | 106   | DSI |     | P1   | 05H | 0.00   |           |          | 07H  | TEH |
| 43  | 48  | 1.33  | 0     | PCT | 24  | P2   | AV2 | 0.00   |           |          | 07H  | TEC |
| 43  | 64  | 0.96  | 129   | PCT | 9   | P1   | 02C | -0.07  |           |          | TEH  | TEC |
| 43  | 64  | 1.08  | 0     | PCT | 20  | P2   | AV1 | 0.00   |           |          | TEH  | TEC |
| 43  | 65  | 0.70  | 0     | PCT | 15  | P2   | AV1 | -0.09  |           |          | TEH  | TEC |
| 43  | 65  | 0.35  | 132   | WAR |     | 2    | AV1 | -0.09  |           |          | AV1  | AV1 |
| 44  | 33  | 1.92  | 118   | PCT | 28  | P1   | 03C | -0.20  |           |          | TEH  | TEC |
| 44  | 33  | 0.48  | 130   | PCT | 7   | P1   | 04C | -0.23  |           |          | TEH  | TEC |
| 44  | 33  | 0.45  | 115   | VOL |     | 3    | 03C | -0.32  |           |          | 03C  | 03C |
| 44  | 34  | 0.31  | 109   | DSI |     | P1   | 01H | 0.20   |           |          | TEH  | TEC |
| 44  | 34  | 1.28  | 0     | PCT | 22  | P2   | AV2 | -0.26  |           |          | TEH  | TEC |
| 44  | 36  | 0.70  | 143   | DSI |     | P1   | 02H | 0.20   |           |          | TEH  | TEC |
| 44  | 36  | 1.47  | 129   | PCT | 9   | P1   | 03C | 0.16   |           |          | TEH  | TEC |
| 44  | 39  | 0.98  | 120   | PCT | 20  | P1   | 03C | -0.20  |           |          | TEH  | TEC |
| 44  | 39  | 0.50  | 112   | VOL |     | 3    | 03C | -0.17  |           |          | 03C  | 03C |
| 44  | 49  | 0.67  | 128   | PCT | 9   | P1   | 03C | 0.10   |           |          | 07H  | TEC |
| 44  | 54  | 0.90  | 0     | PCT | 19  | P2   | AV1 | 0.00   |           |          | 07H  | TEC |
| 44  | 57  | 0.59  | 145   | PCT | 0   | P1   | 01C | -0.27  |           |          | TEH  | TEC |
| 44  | 60  | 0.69  | 129   | PCT | 14  | P1   | 02C | -0.15  |           |          | TEH  | TEC |
| 44  | 62  | 1.41  | 117   | PCT | 30  | P1   | 01C | -0.19  |           |          | TEH  | TEC |
| 44  | 62  | 0.52  | 105   | VOL |     | 3    | 01C | -0.20  |           |          | 01C  | 01C |
| 45  | 36  | 0.97  | 133   | PCT | 1   | P1   | 04C | 0.23   |           |          | TEH  | TEC |
| 45  | 37  | 0.43  | 136   | PCT | 0   | P1   | 04C | 0.28   |           |          | TEH  | TEC |
| 45  | 39  | 0.55  | 105   | DSI |     | P1   | 02H | 0.22   |           |          | TEH  | TEC |
| 45  | 39  | 0.66  | 107   | DSI |     | P1   | 03H | 0.08   |           |          | TEH  | TEC |
| 45  | 39  | 1.65  | 126   | PCT | 7   | P1   | 04C | 0.23   |           |          | TEH  | TEC |
| 45  | 39  | 0.20  | 127   | SVI |     | P1   | 02H | 0.19   | 0.11      | 30       | 02H  | 02H |
| 45  | 50  | 0.39  | 127   | PCT | 18  | P1   | 04C | 0.41   |           |          | 07H  | TEC |
| 46  | 41  | 18.40 | 319   | PSI |     | 8    | 01H | 0.00   |           |          | TEH  | TEC |
| 46  | 41  | 10.36 | 142   | PSI |     | 8    | 01H | 0.00   |           |          | 07H  | TEH |
| 46  | 41  | 0.23  | 79    | CSI |     | 11   | 01H | -0.19  |           | 125      | 01H  | 01H |
| 46  | 46  | 0.64  | 137   | PCT | 2   | P1   | 03C | 0.22   |           |          | 07H  | TEC |
| 46  | 53  | 0.62  | 144   | PCT | 0   | P1   | 01C | -0.18  |           |          | 07H  | TEC |

# ATTACHMENT 3A

BEAVER VALLEY UNIT #1  
1R14 S/G EXAMINATION RESULTS  
**1RC-E-1C**  
TUBES REPAIRED VIA PLUGGING

BEAVER VALLEY UNIT #1  
1R14 S/G EXAMINATION RESULTS

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**1RC-E-1C**

(TUBES REPAIRED VIA PLUGGING)

| Row | Col | Volts | Phase | Ind | %TW                      | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|--------------------------|------|-----|--------|-----------|----------|------|-----|
| 1   | 9   | 0.33  | 77    | WAR |                          | 5    | TSH | 22.46  |           |          | 07H  | TEH |
| 1   | 28  | 0.86  | 93    | WAR |                          | 5    | TSH | 22.50  |           |          | 07H  | TEH |
| 1   | 31  | 1.13  | 16    | SCI |                          | P2   | 07H | 7.93   |           | 71       | 07H  | 07C |
| 1   | 67  | 0.68  | 108   | SVI |                          | 3    | TSC | 22.77  | 1.25      | 57       | TSC  | 01C |
| 1   | 67  | 0.72  | 114   | SVI |                          | P1   | TSH | 22.94  | 1.35      | 57       | TSH  | TSH |
| 1   | 86  | 0.12  | 131   | FSI |                          | 1    | TSH | 23.06  |           |          | 07H  | TEH |
| 3   | 62  | 1.73  | 27    | SCI |                          | P1   | TSH | -7.66  |           | 27       | TSH  | TSH |
| 3   | 73  | 0.77  | 29    | SCI |                          | P1   | TSH | -2.27  |           | 38       | TSH  | TSH |
| 5   | 77  | 0.12  | 111   | SAI |                          | 3    | TSH | 0.11   | 0.24      |          | TSH  | TSH |
| 8   | 28  | 0.14  | 114   | SAI |                          | 3    | TSH | 0.37   | 0.26      |          | TSH  | TSH |
| 8   | 32  | 0.23  | 89    | MAI |                          | 3    | TSH | 0.36   | 0.46      |          | TSH  | TSH |
| 9   | 27  | 0.09  | 77    | MAI |                          | 3    | TSH | 0.78   | 0.51      |          | TSH  | TSH |
| 9   | 27  | 0.09  | 95    | MAI |                          | 3    | TSH | 0.84   | 0.24      |          | TSH  | TSH |
| 9   | 28  | 0.10  | 110   | MAI |                          | 3    | TSH | 0.48   | 0.35      |          | TSH  | TSH |
| 9   | 28  | 0.21  | 105   | MAI |                          | 3    | TSH | 0.49   | 0.84      |          | TSH  | TSH |
| 9   | 29  | 0.08  | 63    | MAI |                          | 3    | TSH | 0.66   | 0.29      |          | TSH  | TSH |
| 9   | 29  | 0.15  | 93    | MAI |                          | 3    | TSH | 0.86   | 0.73      |          | TSH  | TSH |
| 9   | 29  | 0.05  | 66    | MAI |                          | 3    | TSH | 0.48   | 0.49      |          | TSH  | TSH |
| 9   | 29  | 0.13  | 121   | MAI |                          | 3    | TSH | 0.62   | 0.19      |          | TSH  | TSH |
| 9   | 40  | 0.14  | 75    | SAI |                          | 3    | TSH | 0.55   | 0.15      |          | TSH  | TSH |
| 10  | 26  | 0.07  | 87    | SAI |                          | 3    | TSH | 0.71   | 0.33      |          | TSH  | TSH |
| 10  | 28  | 0.21  | 114   | MAI |                          | 3    | TSH | 0.60   | 0.65      |          | TSH  | TSH |
| 10  | 28  | 0.09  | 122   | MAI |                          | 3    | TSH | 1.22   | 0.23      |          | TSH  | TSH |
| 10  | 28  | 0.10  | 104   | MAI |                          | 3    | TSH | 1.06   | 0.40      |          | TSH  | TSH |
| 10  | 28  | 0.11  | 102   | MAI |                          | 3    | TSH | 0.55   | 0.30      |          | TSH  | TSH |
| 10  | 30  | 0.15  | 108   | MAI |                          | 3    | TSH | 0.89   | 0.32      |          | TSH  | TSH |
| 10  | 30  | 0.22  | 110   | MAI |                          | 3    | TSH | 0.86   | 0.48      |          | TSH  | TSH |
| 10  | 32  | 0.15  | 104   | SAI |                          | 3    | TSH | 1.37   | 0.23      |          | TSH  | TSH |
| 10  | 34  | 0.12  | 105   | SAI |                          | 3    | TSH | 1.35   | 0.54      |          | TSH  | TSH |
| 10  | 53  |       |       |     | ADMINISTRATIVELY PLUGGED |      |     |        |           |          |      |     |
| 11  | 28  | 0.11  | 92    | SAI |                          | 3    | TSH | 0.72   | 0.14      |          | TSH  | TSH |
| 11  | 30  | 0.04  | 55    | SAI |                          | 3    | TSH | 1.97   | 0.20      |          | TSH  | TSH |
| 11  | 32  | 0.15  | 135   | SAI |                          | 3    | TSH | 1.81   | 0.44      |          | TSH  | TSH |
| 11  | 36  | 0.17  | 108   | SAI |                          | 3    | TSH | 1.81   | 0.21      |          | TSH  | TSH |
| 11  | 36  | 0.09  | 98    | SAI |                          | 3    | TSH | 2.05   | 0.21      |          | TSH  | TSH |
| 11  | 38  | 0.10  | 84    | SAI |                          | 3    | TSH | 1.27   | 0.21      |          | TSH  | TSH |
| 11  | 38  | 0.10  | 102   | SAI |                          | 3    | TSH | 1.60   | 0.21      |          | TSH  | TSH |
| 12  | 33  | 0.16  | 73    | NQI |                          | P1   | TSH | 2.60   |           |          | TEH  | TEC |
| 12  | 45  | 0.09  | 58    | NQI |                          | P1   | TSH | 0.73   |           |          | 07H  | TEH |
| 15  | 30  | 0.12  | 50    | NQI |                          | P1   | TSH | 2.24   |           |          | TEH  | TEC |
| 15  | 36  | 0.10  | 65    | SAI |                          | 3    | TSH | 1.59   | 0.43      |          | TSH  | TSH |
| 15  | 37  | 0.11  | 94    | SAI |                          | 3    | TSH | 0.72   | 0.33      |          | TSH  | TSH |
| 15  | 61  | 2.07  | 81    | DSI |                          | P1   | 01H | 0.14   |           |          | TEH  | TEC |
| 15  | 61  | 0.31  | 117   | MAI |                          | 3    | 01H | 0.13   | 0.58      |          | 01H  | 01H |
| 15  | 62  | 5.30  | 69    | DSV |                          | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 15  | 62  | 2.94  | 58    | MAI |                          | 3    | 01H | 0.06   | 0.71      |          | 01H  | 01H |
| 17  | 24  | 0.13  | 132   | SAI |                          | 3    | TSH | 0.35   | 0.22      |          | TSH  | TSH |
| 17  | 28  | 0.16  | 101   | NQI |                          | P1   | TSH | 1.16   |           |          | TEH  | TEC |
| 17  | 33  | 0.12  | 83    | MAI |                          | 3    | TSH | 0.85   | 0.18      |          | TSH  | TSH |
| 19  | 28  | 0.10  | 112   | MAI |                          | 3    | TSH | 0.78   | 0.26      |          | TSH  | TSH |
| 19  | 28  | 0.04  | 82    | MAI |                          | 3    | TSH | 0.48   | 0.16      |          | TSH  | TSH |



BEAVER VALLEY UNIT #1  
1R14 S/G EXAMINATION RESULTS

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**1RC-E-1C**

(TUBES REPAIRED VIA PLUGGING)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 22  | 27  | 0.17  | 99    | NQI |     | P1   | TSH | 0.96   |           |          | TEH  | TEC |
| 23  | 87  | 0.25  | 117   | SVI |     | 3    | 01H | 0.24   | 0.38      | 90       | 01H  | 01H |
| 24  | 58  | 0.52  | 9     | SAI |     | 3    | TSH | -5.64  | 0.20      |          | TSH  | TSH |
| 25  | 19  | 0.24  | 36    | SAI |     | 3    | TSH | -2.12  | 0.18      |          | TSH  | TSH |
| 25  | 34  | 2.05  | 100   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 25  | 34  | 0.33  | 114   | MAI |     | 3    | 01H | -0.01  | 0.64      |          | 01H  | 01H |
| 28  | 20  | 2.20  | 112   | DSI |     | P1   | 01H | 0.00   |           |          | TEH  | TEC |
| 28  | 20  | 0.90  | 104   | SAI |     | 3    | 01H | -0.19  | 0.67      |          | 01H  | 01H |
| 28  | 83  | 0.27  | 149   | SVI |     | P1   | 02H | 0.10   | 0.21      | 30       | 02H  | 02H |
| 28  | 84  | 0.21  | 130   | SVI |     | P1   | 01H | 0.22   | 0.29      | 41       | 01H  | 01H |
| 30  | 12  |       |       |     |     |      |     |        |           |          |      |     |
| 30  | 13  |       |       |     |     |      |     |        |           |          |      |     |
| 30  | 14  |       |       |     |     |      |     |        |           |          |      |     |
| 30  | 17  |       |       |     |     |      |     |        |           |          |      |     |
| 30  | 18  |       |       |     |     |      |     |        |           |          |      |     |
| 30  | 47  | 0.11  | 111   | SAI |     | 3    | TSH | 0.14   | 0.21      |          | TSH  | TSH |
| 30  | 52  | 0.57  | 14    | SAI |     | 3    | TSH | -1.80  | 0.20      |          | TSH  | TSH |
| 31  | 18  |       |       |     |     |      |     |        |           |          |      |     |
| 32  | 18  |       |       |     |     |      |     |        |           |          |      |     |
| 32  | 24  | 2.10  | 98    | DSI |     | P1   | 01H | 0.10   |           |          | TEH  | TEC |
| 32  | 24  | 0.72  | 105   | MAI |     | 3    | 01H | 0.00   | 0.45      |          | 01H  | 01H |
| 32  | 50  | 2.10  | 111   | DSI |     | P1   | 01H | -0.03  |           |          | TEH  | TEC |
| 32  | 50  | 0.40  | 121   | MAI |     | 3    | 01H | 0.17   | 0.59      |          | 01H  | 01H |
| 33  | 17  |       |       |     |     |      |     |        |           |          |      |     |
| 34  | 16  |       |       |     |     |      |     |        |           |          |      |     |
| 34  | 17  |       |       |     |     |      |     |        |           |          |      |     |
| 39  | 22  | 0.12  | 123   | SVI |     | P1   | 02H | 0.03   | 0.13      | 22       | 02H  | 02H |
| 45  | 39  | 0.20  | 127   | SVI |     | P1   | 02H | 0.19   | 0.11      | 30       | 02H  | 02H |

# ATTACHMENT 4

BEAVER VALLEY UNIT #2  
2R09 S/G EXAMINATION RESULTS  
**2RCS-SG21A**  
TUBES WITH INDICATIONS

BEAVER VALLEY UNIT #2  
2R09 S/G EXAMINATION RESULTS

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**2RCS-SG21A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 1   | 53  | 0.35  | 89    | DSI |     | P1   | 06H | -0.03  |           |          | 08H  | TEH |
| 3   | 24  | 0.97  | 68    | DSI |     | P1   | 03H | -0.18  |           |          | 08H  | TEH |
| 3   | 43  | 0.26  | 95    | SAI |     | 3    | TSH | 0.34   | 0.24      |          | TSH  | TSH |
| 3   | 59  | 0.80  | 64    | DSI |     | P1   | 02H | 0.03   |           |          | 08H  | TEH |
| 3   | 81  | 0.91  | 80    | DSI |     | P1   | 03H | 0.00   |           |          | 08H  | TEH |
| 3   | 84  | 0.75  | 76    | DSI |     | P1   | 03H | -0.03  |           |          | 08H  | TEH |
| 3   | 85  | 0.63  | 73    | DSI |     | P1   | 04H | 0.00   |           |          | 08H  | TEH |
| 3   | 92  | 0.55  | 101   | DSI |     | P1   | 02H | 0.00   |           |          | 08H  | TEH |
| 4   | 9   | 0.75  | 91    | DSI |     | P1   | 03H | -0.03  |           |          | 08H  | TEH |
| 4   | 21  | 0.71  | 62    | DSI |     | P1   | 03H | -0.03  |           |          | 08H  | TEH |
| 4   | 49  | 0.18  | 129   | SAI |     | 3    | TSH | 0.08   | 0.12      |          | TSH  | TSH |
| 4   | 50  | 0.47  | 98    | DSI |     | P1   | 02H | -0.03  |           |          | 08H  | TEH |
| 4   | 54  | 0.80  | 75    | DSI |     | P1   | 02H | -0.03  |           |          | 08H  | TEH |
| 4   | 54  | 0.65  | 81    | DSI |     | P1   | 04H | 0.00   |           |          | 08H  | TEH |
| 4   | 60  | 0.74  | 100   | DSI |     | P1   | 02H | 0.10   |           |          | 08C  | TEH |
| 4   | 63  | 0.48  | 61    | DSI |     | P1   | 02H | -0.03  |           |          | 08H  | TEH |
| 5   | 10  | 1.32  | 67    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 5   | 10  | 1.25  | 78    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 5   | 25  | 0.50  | 101   | DSI |     | P1   | 05H | 0.12   |           |          | TEH  | TEC |
| 5   | 54  | 0.46  | 92    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 5   | 71  | 0.44  | 90    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 5   | 80  | 0.34  | 91    | DSI |     | P1   | 05H | 0.09   |           |          | TEH  | TEC |
| 6   | 32  | 0.51  | 101   | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 6   | 34  | 0.50  | 108   | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 6   | 39  | 0.15  | 73    | SCI |     | P1   | TSH | 0.00   |           | 65       | TSH  | TSH |
| 6   | 40  | 0.60  | 84    | DSI |     | P1   | 03H | 0.05   |           |          | TEC  | TEH |
| 6   | 42  | 0.14  | 125   | SCI |     | P1   | TSH | -0.06  |           | 45       | TSH  | TSH |
| 6   | 43  | 0.96  | 69    | DSI |     | P1   | 02H | 0.13   |           |          | TEC  | TEH |
| 7   | 19  | 0.51  | 61    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 7   | 58  | 0.33  | 76    | DSI |     | P1   | 03H | -0.03  |           |          | TEH  | TEC |
| 7   | 71  | 0.67  | 84    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 7   | 94  | 0.27  | 92    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 8   | 19  | 0.43  | 94    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 8   | 29  | 0.41  | 108   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 8   | 45  | 0.11  | 116   | SCI |     | P1   | TSH | -0.08  |           | 48       | TSH  | TSH |
| 8   | 51  | 0.28  | 92    | SCI |     | P1   | TSH | -0.05  |           | 101      | TSH  | TSH |
| 8   | 53  | 0.18  | 118   | SCI |     | P1   | TSH | -0.01  |           | 56       | TSH  | TSH |
| 9   | 14  | 0.63  | 72    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 9   | 16  | 0.71  | 108   | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 9   | 16  | 0.85  | 73    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 9   | 16  | 0.61  | 135   | DSI |     | P1   | 04H | -0.03  |           |          | TEH  | TEC |
| 9   | 22  | 0.81  | 73    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 9   | 35  | 0.38  | 106   | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 9   | 40  | 0.52  | 75    | DSI |     | P1   | 03H | -0.05  |           |          | TEC  | TEH |
| 9   | 47  | 0.14  | 106   | SAI |     | 3    | TSH | 0.56   | 0.14      |          | TSH  | TSH |
| 9   | 57  | 0.67  | 56    | DSI |     | P1   | 03H | -0.06  |           |          | TEH  | TEC |
| 10  | 19  | 0.69  | 73    | DSI |     | P1   | 04H | -0.03  |           |          | TEH  | TEC |
| 10  | 37  | 0.34  | 86    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 10  | 43  | 0.09  | 85    | SCI |     | P1   | TSH | -0.16  |           | 33       | TSH  | TSH |
| 11  | 48  | 1.03  | 38    | DSI |     | P1   | 02H | -0.03  |           |          | TEC  | TEH |
| 11  | 61  | 1.67  | 0     | PCT | 22  | P2   | AV4 | 0.00   |           |          | TEH  | TEC |

BEAVER VALLEY UNIT #2  
2R09 S/G EXAMINATION RESULTS

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**2RCS-SG21A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 11  | 77  | 0.48  | 75    | DSI |     | P1   | 05H | 0.09   |           |          | TEH  | TEC |
| 12  | 15  | 0.33  | 41    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 12  | 70  | 0.69  | 98    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 12  | 74  | 0.74  | 80    | DSI |     | P1   | 03H | -0.06  |           |          | TEH  | TEC |
| 13  | 32  | 0.24  | 144   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 13  | 48  | 1.85  | 22    | SAI |     | 3    | 02H | 32.21  | 0.21      |          | 02H  | 02H |
| 13  | 49  | 0.45  | 69    | DSI |     | P1   | 04H | 0.00   |           |          | TEC  | TEH |
| 13  | 60  | 0.39  | 136   | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 13  | 84  | 0.69  | 52    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 13  | 85  | 0.70  | 75    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 14  | 27  | 0.51  | 140   | DSI |     | P1   | 05H | 0.15   |           |          | TEH  | TEC |
| 14  | 68  | 0.54  | 83    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 14  | 70  | 0.76  | 136   | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 17  | 27  | 0.41  | 54    | DSI |     | P1   | 04H | 0.14   |           |          | TEH  | TEC |
| 17  | 59  | 0.48  | 112   | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 18  | 7   | 0.43  | 104   | DSI |     | P1   | 04H | 0.06   |           |          | TEH  | TEC |
| 18  | 38  | 0.31  | 113   | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 20  | 62  | 0.49  | 140   | DSI |     | P1   | 05H | 0.00   |           |          | TEH  | TEC |
| 20  | 64  | 0.82  | 0     | PCT | 14  | P2   | AV1 | 0.00   |           |          | TEH  | TEC |
| 20  | 64  | 1.75  | 0     | PCT | 24  | P2   | AV2 | 0.00   |           |          | TEH  | TEC |
| 20  | 64  | 1.08  | 0     | PCT | 17  | P2   | AV3 | 0.00   |           |          | TEH  | TEC |
| 20  | 78  | 0.31  | 101   | DSI |     | P1   | 04H | 0.06   |           |          | TEH  | TEC |
| 21  | 26  | 0.67  | 85    | DSI |     | P1   | 05H | 0.06   |           |          | TEH  | TEC |
| 21  | 34  | 0.56  | 103   | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 22  | 7   | 0.60  | 88    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 22  | 29  | 0.49  | 113   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 23  | 19  | 0.86  | 56    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 23  | 20  | 0.46  | 76    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 24  | 16  | 0.36  | 146   | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 24  | 16  | 0.39  | 104   | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 24  | 24  | 0.57  | 87    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 24  | 33  | 0.62  | 94    | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 26  | 15  | 0.62  | 92    | DSI |     | P1   | 03H | 0.09   |           |          | TEH  | TEC |
| 26  | 42  | 0.55  | 98    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 27  | 32  | 0.46  | 103   | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 27  | 71  | 1.04  | 0     | PCT | 17  | P2   | AV2 | 0.00   |           |          | TEH  | TEC |
| 27  | 71  | 1.17  | 0     | PCT | 18  | P2   | AV3 | 0.00   |           |          | TEH  | TEC |
| 27  | 72  | 2.16  | 0     | PCT | 26  | P2   | AV1 | 0.40   |           |          | TEH  | TEC |
| 28  | 13  | 0.38  | 123   | DSI |     | P1   | 03H | 0.12   |           |          | TEH  | TEC |
| 28  | 46  | 0.26  | 75    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 29  | 19  | 0.31  | 60    | DSI |     | P1   | 02H | -0.09  |           |          | TEH  | TEC |
| 30  | 19  | 0.59  | 67    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 30  | 22  | 0.64  | 77    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 30  | 28  | 0.37  | 116   | DSI |     | P1   | 03H | 0.09   |           |          | TEH  | TEC |
| 30  | 29  | 0.38  | 84    | DSI |     | P1   | 03H | 0.09   |           |          | TEH  | TEC |
| 31  | 14  | 0.41  | 136   | DSI |     | P1   | 04H | 0.12   |           |          | TEH  | TEC |
| 31  | 18  | 0.90  | 67    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 31  | 68  | 1.49  | 0     | PCT | 22  | P2   | AV3 | 0.63   |           |          | TEH  | TEC |
| 31  | 69  | 1.40  | 0     | PCT | 21  | P2   | AV3 | -0.03  |           |          | TEH  | TEC |
| 32  | 22  | 0.48  | 67    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 32  | 45  | 0.75  | 74    | DSI |     | P1   | 02H | 0.14   |           |          | TEH  | TEC |

BEAVER VALLEY UNIT #2  
2R09 S/G EXAMINATION RESULTS

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**2RCS-SG21A**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 33  | 18  | 0.34  | 98    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 33  | 18  | 0.47  | 61    | DSI |     | P1   | 03H | -0.03  |           |          | TEH  | TEC |
| 33  | 70  | 1.44  | 0     | PCT | 20  | P2   | AV1 | 0.40   |           |          | TEH  | TEC |
| 34  | 48  | 2.50  | 0     | PCT | 28  | P2   | AV3 | 0.00   |           |          | TEH  | TEC |
| 34  | 53  | 0.79  | 62    | DSI |     | P1   | 02H | 0.03   |           |          | TSH  | TEC |
| 34  | 53  | 0.66  | 63    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 34  | 59  | 0.09  | 96    | SAI |     | 3    | TSH | 0.40   | 0.19      |          | TSH  | TSH |
| 34  | 70  | 1.02  | 0     | PCT | 17  | P2   | AV2 | 0.00   |           |          | TEH  | TEC |
| 34  | 70  | 1.83  | 0     | PCT | 24  | P2   | AV3 | 0.00   |           |          | TEH  | TEC |
| 35  | 45  | 0.58  | 72    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 35  | 57  | 0.14  | 94    | SAI |     | 3    | TSH | 0.41   | 0.25      |          | TSH  | TSH |
| 35  | 59  | 0.15  | 106   | SAI |     | 3    | TSH | 0.55   | 0.25      |          | TSH  | TSH |
| 35  | 70  | 1.48  | 0     | PCT | 22  | P2   | AV3 | 0.00   |           |          | TEH  | TEC |
| 35  | 72  | 1.25  | 0     | PCT | 22  | P2   | AV1 | 0.00   |           |          | TEH  | TEC |
| 35  | 72  | 1.36  | 0     | PCT | 23  | P2   | AV3 | 0.00   |           |          | TEH  | TEC |
| 36  | 44  | 0.50  | 63    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 36  | 59  | 0.16  | 112   | SAI |     | 3    | TSH | 1.01   | 0.25      |          | TSH  | TSH |
| 36  | 73  | 0.18  | 101   | SVI |     | 3    | TSH | 0.25   | 0.39      | 49       | TSH  | TSH |
| 37  | 39  | 1.20  | 50    | DSI |     | P1   | 03H | -0.03  |           |          | TEH  | TEC |
| 37  | 42  | 0.66  | 60    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 37  | 49  | 0.09  | 124   | SAI |     | 3    | TSH | 0.43   | 0.11      |          | TSH  | TSH |
| 39  | 42  | 0.64  | 69    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 39  | 55  | 11.46 | 322   | PSI |     | 8    | 01H | 0.00   |           |          | TEH  | TEC |
| 39  | 55  | 0.35  | 167   | CSI |     | 9    | 01H | -0.01  |           |          | 01H  | 01H |
| 40  | 37  | 0.58  | 57    | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 40  | 66  | 0.81  | 0     | PCT | 14  | P2   | AV1 | 0.00   |           |          | TEH  | TEC |
| 40  | 69  | 0.70  | 0     | PCT | 12  | P2   | AV3 | -0.03  |           |          | TEH  | TEC |
| 44  | 48  | 0.88  | 0     | PCT | 16  | P2   | AV1 | 0.00   |           |          | TEH  | TEC |
| 44  | 48  | 0.69  | 0     | PCT | 13  | P2   | AV2 | 0.00   |           |          | TEH  | TEC |
| 44  | 55  | 1.42  | 0     | PCT | 21  | P2   | AV4 | 0.00   |           |          | TEH  | TEC |
| 45  | 55  | 12.52 | 134   | PSI |     | 8    | 01C | 0.00   |           |          | TEH  | TEC |

# **ATTACHMENT 4A**

BEAVER VALLEY UNIT #2  
2R09 S/G EXAMINATION RESULTS  
**2RCS-SG21A**  
TUBES REPAIRED VIA PLUGGING

BEAVER VALLEY UNIT #2  
2R09 S/G EXAMINATION RESULTS

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**2RCS-SG21A**

(TUBES REPAIRED VIA PLUGGING)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 2   | 16  |       |       |     |     |      |     |        |           |          |      |     |
|     |     |       |       |     |     |      |     |        |           |          |      |     |
|     |     |       |       |     |     |      |     |        |           |          |      |     |
| 3   | 43  | 0.26  | 95    | SAI |     | 3    | TSH | 0.34   | 0.24      |          | TSH  | TSH |
| 4   | 49  | 0.18  | 129   | SAI |     | 3    | TSH | 0.08   | 0.12      |          | TSH  | TSH |
| 6   | 39  | 0.15  | 73    | SCI |     | P1   | TSH | 0.00   |           | 65       | TSH  | TSH |
| 6   | 42  | 0.14  | 125   | SCI |     | P1   | TSH | -0.06  |           | 45       | TSH  | TSH |
| 8   | 45  | 0.11  | 116   | SCI |     | P1   | TSH | -0.08  |           | 48       | TSH  | TSH |
| 8   | 51  | 0.28  | 92    | SCI |     | P1   | TSH | -0.05  |           | 101      | TSH  | TSH |
| 8   | 53  | 0.18  | 118   | SCI |     | P1   | TSH | -0.01  |           | 56       | TSH  | TSH |
| 8   | 60  |       |       |     |     |      |     |        |           |          |      |     |
|     |     |       |       |     |     |      |     |        |           |          |      |     |
| 9   | 47  | 0.14  | 106   | SAI |     | 3    | TSH | 0.56   | 0.14      |          | TSH  | TSH |
| 10  | 43  | 0.09  | 85    | SCI |     | P1   | TSH | -0.16  |           | 33       | TSH  | TSH |
| 13  | 48  | 1.85  | 22    | SAI |     | 3    | 02H | 32.21  | 0.21      |          | 02H  | 02H |
| 34  | 59  | 0.09  | 96    | SAI |     | 3    | TSH | 0.40   | 0.19      |          | TSH  | TSH |
| 35  | 57  | 0.14  | 94    | SAI |     | 3    | TSH | 0.41   | 0.25      |          | TSH  | TSH |
| 35  | 59  | 0.15  | 106   | SAI |     | 3    | TSH | 0.55   | 0.25      |          | TSH  | TSH |
| 36  | 59  | 0.16  | 112   | SAI |     | 3    | TSH | 1.01   | 0.25      |          | TSH  | TSH |
| 36  | 73  | 0.18  | 101   | SVI |     | 3    | TSH | 0.25   | 0.39      | 49       | TSH  | TSH |
| 37  | 49  | 0.09  | 124   | SAI |     | 3    | TSH | 0.43   | 0.11      |          | TSH  | TSH |

# **ATTACHMENT 5**

BEAVER VALLEY UNIT #2  
2R09 S/G EXAMINATION RESULTS  
**2RCS-SG21B**  
TUBES WITH INDICATIONS



BEAVER VALLEY UNIT #2  
2R09 S/G EXAMINATION RESULTS

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**2RCS-SG21B**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 1   | 52  | 0.52  | 65    | DSI |     | P1   | 02H | -0.03  |           |          | 08H  | TEH |
| 1   | 57  | 0.92  | 42    | DSI |     | P1   | 04H | -0.03  |           |          | 08H  | TEH |
| 2   | 20  | 0.49  | 60    | DSI |     | P1   | 03H | 0.03   |           |          | 08H  | TEH |
| 2   | 24  | 0.53  | 73    | DSI |     | P1   | 02H | -0.09  |           |          | 08H  | TEH |
| 2   | 28  | 0.68  | 55    | DSI |     | P1   | 02H | 0.00   |           |          | 08H  | TEH |
| 2   | 54  | 0.31  | 75    | DSI |     | P1   | 04H | -0.03  |           |          | 08H  | TEH |
| 2   | 62  | 0.73  | 44    | DSI |     | P1   | 03H | 0.00   |           |          | 08H  | TEH |
| 2   | 63  | 0.37  | 70    | DSI |     | P1   | 04H | -0.03  |           |          | 08H  | TEH |
| 3   | 50  | 0.09  | 64    | SCI |     | P1   | TSH | -0.01  |           | 90       | TSH  | TSH |
| 3   | 54  | 0.53  | 86    | DSI |     | P1   | 02H | 0.00   |           |          | 08H  | TEH |
| 3   | 60  | 0.67  | 71    | DSI |     | P1   | 02H | 0.00   |           |          | 08H  | TEH |
| 3   | 60  | 0.50  | 107   | DSI |     | P1   | 03H | 0.03   |           |          | 08H  | TEH |
| 3   | 61  | 1.71  | 34    | DSI |     | P1   | 02H | -0.06  |           |          | 08H  | TEH |
| 3   | 63  | 0.87  | 66    | DSI |     | P1   | 02H | -0.06  |           |          | 08H  | TEH |
| 3   | 88  | 0.68  | 73    | DSI |     | P1   | 04H | 0.00   |           |          | 08H  | TEH |
| 3   | 89  | 0.47  | 76    | DSI |     | P1   | 04H | 0.00   |           |          | 08H  | TEH |
| 4   | 48  | 0.54  | 71    | DSI |     | P1   | 03H | -0.03  |           |          | 08H  | TEH |
| 4   | 52  | 0.78  | 93    | DSI |     | P1   | 02H | -0.17  |           |          | 08H  | TEH |
| 4   | 54  | 0.44  | 94    | DSI |     | P1   | 02H | 0.00   |           |          | 08H  | TEH |
| 4   | 56  | 0.29  | 99    | DSI |     | P1   | 04H | -0.09  |           |          | 08H  | TEH |
| 4   | 57  | 0.47  | 89    | DSI |     | P1   | 02H | 0.06   |           |          | 08H  | TEH |
| 4   | 57  | 0.28  | 100   | DSI |     | P1   | 04H | -0.06  |           |          | 08H  | TEH |
| 4   | 58  | 0.86  | 101   | DSI |     | P1   | 02H | 0.00   |           |          | 08H  | TEH |
| 5   | 9   | 0.76  | 111   | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 5   | 20  | 0.70  | 55    | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 5   | 52  | 0.77  | 53    | DSI |     | P1   | 02H | -0.03  |           |          | 08H  | TEH |
| 5   | 56  | 0.57  | 67    | DSI |     | P1   | 03H | 0.00   |           |          | 08H  | TEH |
| 5   | 58  | 0.39  | 84    | DSI |     | P1   | 02H | 0.03   |           |          | 08H  | TEH |
| 6   | 16  | 0.42  | 65    | DSI |     | P1   | 03H | 0.09   |           |          | TEH  | TEC |
| 6   | 26  | 0.28  | 65    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 6   | 52  | 0.49  | 104   | DSI |     | P1   | 02H | -0.17  |           |          | 08H  | TEH |
| 6   | 53  | 0.65  | 30    | DSI |     | P1   | 02H | -0.09  |           |          | 08H  | TEH |
| 6   | 92  | 16.87 | 165   | PSI |     | 8    | 06H | 0.00   |           |          | TEH  | TEC |
| 7   | 12  | 0.41  | 133   | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 7   | 63  | 0.50  | 67    | DSI |     | P1   | 03H | 0.09   |           |          | TEH  | TEC |
| 8   | 9   | 0.78  | 77    | DSI |     | P1   | 02H | 0.17   |           |          | TEH  | TEC |
| 8   | 15  | 0.76  | 78    | DSI |     | P1   | 02H | 0.14   |           |          | TEH  | TEC |
| 8   | 18  | 0.58  | 67    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 8   | 18  | 0.44  | 70    | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 8   | 22  | 0.48  | 116   | DSI |     | P1   | 02H | 0.12   |           |          | TEH  | TEC |
| 8   | 55  | 0.50  | 98    | DSI |     | P1   | 02H | 0.00   |           |          | 08H  | TEH |
| 8   | 75  | 0.52  | 66    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 9   | 11  | 0.69  | 92    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 9   | 16  | 0.65  | 77    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 9   | 17  | 0.84  | 82    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 9   | 18  | 0.66  | 92    | DSI |     | P1   | 02H | -0.06  |           |          | TEH  | TEC |
| 9   | 26  | 0.76  | 82    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 9   | 26  | 0.90  | 63    | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 9   | 46  | 0.33  | 71    | DSI |     | P1   | 03H | -0.03  |           |          | 08H  | TEH |
| 9   | 50  | 0.12  | 135   | SCI |     | P1   | TSH | -0.05  |           | 90       | TSH  | TSH |
| 9   | 52  | 0.58  | 55    | DSI |     | P1   | 02H | 0.03   |           |          | 08H  | TEH |

BEAVER VALLEY UNIT #2  
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**2RCS-SG21B**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 9   | 53  | 0.17  | 126   | SCI |     | P1   | TSH | -0.09  |           | 90       | TSH  | TSH |
| 9   | 59  | 0.58  | 57    | DSI |     | P1   | 03H | -0.03  |           |          | 08H  | TEH |
| 9   | 92  | 0.49  | 107   | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 10  | 6   | 0.67  | 104   | DSI |     | P1   | 02H | 0.12   |           |          | TEH  | TEC |
| 10  | 14  | 0.48  | 69    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 10  | 17  | 0.48  | 97    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 10  | 52  | 0.80  | 74    | DSI |     | P1   | 02H | 0.09   |           |          | 08H  | TEH |
| 10  | 53  | 1.25  | 89    | DSI |     | P1   | 02H | 0.17   |           |          | 08H  | TEH |
| 10  | 63  | 0.46  | 73    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 10  | 89  | 0.60  | 72    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 11  | 3   | 1.02  | 95    | DSI |     | P1   | 03H | 0.14   |           |          | TEH  | TEC |
| 11  | 8   | 0.83  | 87    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 11  | 18  | 0.94  | 73    | DSI |     | P1   | 02H | 0.12   |           |          | TEH  | TEC |
| 11  | 19  | 0.76  | 55    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 11  | 20  | 1.03  | 80    | DSI |     | P1   | 02H | 0.12   |           |          | TEH  | TEC |
| 11  | 48  | 0.26  | 83    | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 11  | 60  | 0.24  | 100   | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 11  | 61  | 1.04  | 55    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 11  | 61  | 0.45  | 70    | DSI |     | P1   | 03H | 0.15   |           |          | TEH  | TEC |
| 11  | 75  | 0.98  | 62    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 12  | 10  | 0.55  | 94    | DSI |     | P1   | 02H | 0.12   |           |          | TEH  | TEC |
| 12  | 15  | 0.74  | 71    | DSI |     | P1   | 02H | 0.12   |           |          | TEH  | TEC |
| 12  | 15  | 0.46  | 75    | DSI |     | P1   | 03H | -0.03  |           |          | TEH  | TEC |
| 12  | 22  | 0.59  | 127   | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 12  | 24  | 0.30  | 117   | DSI |     | P1   | 04H | 0.09   |           |          | TEH  | TEC |
| 12  | 61  | 0.71  | 42    | DSI |     | P1   | 03H | 0.09   |           |          | TEH  | TEC |
| 13  | 16  | 0.41  | 102   | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 13  | 37  | 0.61  | 55    | DSI |     | P1   | 03H | 0.00   |           |          | 08H  | TEH |
| 13  | 54  | 0.61  | 107   | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 13  | 56  | 0.74  | 113   | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 13  | 73  | 0.34  | 70    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 13  | 78  | 0.36  | 92    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 13  | 85  | 0.41  | 82    | DSI |     | P1   | 02H | 0.12   |           |          | TEH  | TEC |
| 13  | 86  | 0.43  | 70    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 14  | 8   | 0.54  | 131   | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 14  | 27  | 0.35  | 62    | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 14  | 32  | 0.52  | 84    | DSI |     | P1   | 02H | 0.03   |           |          | 08H  | TEH |
| 14  | 36  | 0.46  | 73    | DSI |     | P1   | 03H | 0.00   |           |          | 08H  | TEH |
| 14  | 54  | 0.67  | 79    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 14  | 61  | 0.35  | 110   | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 14  | 88  | 0.50  | 49    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 15  | 12  | 0.30  | 112   | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 15  | 26  | 0.51  | 84    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 15  | 52  | 0.98  | 70    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 15  | 87  | 0.51  | 94    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 16  | 27  | 0.43  | 58    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 16  | 30  | 0.62  | 0     | PCT | 10  | P2   | AV2 | 0.00   |           |          | TEH  | TEC |
| 16  | 31  | 0.56  | 68    | DSI |     | P1   | 02H | 0.17   |           |          | TEH  | TEC |
| 16  | 37  | 0.37  | 43    | DSI |     | P1   | 02H | 0.12   |           |          | TEH  | TEC |
| 16  | 61  | 0.41  | 75    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 17  | 32  | 0.59  | 80    | DSI |     | P1   | 02H | 0.15   |           |          | TEH  | TEC |

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| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 17  | 32  | 0.14  | 118   | SAI |     | 3    | 02H | 0.14   | 0.16      |          | 02H  | 02H |
| 17  | 34  | 0.63  | 61    | DSI |     | P1   | 02H | 0.15   |           |          | TEH  | TEC |
| 17  | 39  | 0.68  | 66    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 17  | 49  | 0.46  | 37    | DSI |     | P1   | 03H | 0.15   |           |          | TEH  | TEC |
| 17  | 49  | 0.13  | 110   | SAI |     | 3    | 03H | 0.11   | 0.30      |          | 03H  | 03H |
| 17  | 64  | 0.32  | 91    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 17  | 68  | 0.55  | 80    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 18  | 12  | 0.31  | 50    | DSI |     | P1   | 03H | 0.09   |           |          | TEH  | TEC |
| 18  | 18  | 0.77  | 85    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 18  | 36  | 0.82  | 56    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 18  | 41  | 0.63  | 85    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 18  | 41  | 0.14  | 140   | SAI |     | 3    | 02H | 0.10   | 0.29      |          | 02H  | 02H |
| 18  | 57  | 0.42  | 85    | DSI |     | P1   | 03H | 0.09   |           |          | TEH  | TEC |
| 18  | 58  | 0.72  | 106   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 18  | 76  | 0.52  | 83    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 19  | 15  | 0.85  | 81    | DSI |     | P1   | 02H | 0.20   |           |          | TEH  | TEC |
| 19  | 36  | 0.90  | 87    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 19  | 39  | 0.67  | 58    | DSI |     | P1   | 03H | -0.09  |           |          | TEH  | TEC |
| 19  | 49  | 0.38  | 117   | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 19  | 49  | 0.15  | 126   | SAI |     | 3    | 02H | 0.12   | 0.27      |          | 02H  | 02H |
| 19  | 85  | 0.38  | 88    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 20  | 16  | 0.48  | 66    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 20  | 26  | 0.27  | 107   | SAI |     | 3    | TSH | 0.52   | 0.20      |          | TSH  | TSH |
| 20  | 26  | 0.36  | 74    | NQI |     | P1   | TSH | 0.18   |           |          | TEH  | TEC |
| 20  | 81  | 0.57  | 93    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 21  | 54  | 1.19  | 54    | DSI |     | P1   | 02H | -0.15  |           |          | TEH  | TEC |
| 22  | 53  | 0.46  | 105   | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 22  | 58  | 0.33  | 117   | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 23  | 33  | 0.46  | 66    | DSI |     | P1   | 03H | 0.26   |           |          | TEH  | TEC |
| 23  | 56  | 0.52  | 96    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 23  | 86  | 2.04  | 0     | PCT | 25  | P2   | AV3 | 0.41   |           |          | TEH  | TEC |
| 24  | 30  | 0.28  | 108   | DSI |     | P1   | 03H | 0.14   |           |          | TEH  | TEC |
| 24  | 42  | 1.03  | 78    | DSI |     | P1   | 02H | -0.06  |           |          | TEH  | TEC |
| 24  | 56  | 0.55  | 89    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 24  | 62  | 0.65  | 69    | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 25  | 17  | 0.27  | 107   | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 26  | 30  | 0.38  | 63    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 26  | 78  | 0.53  | 69    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 26  | 81  | 0.43  | 16    | FSI |     | 1    | 05C | 15.93  |           |          | TEH  | TEC |
| 27  | 68  | 0.41  | 108   | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 28  | 41  | 0.30  | 86    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 28  | 70  | 1.47  | 0     | PCT | 20  | P2   | AV3 | 0.24   |           |          | TEH  | TEC |
| 28  | 70  | 1.19  | 0     | PCT | 17  | P2   | AV4 | -0.06  |           |          | TEH  | TEC |
| 28  | 81  | 0.33  | 83    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 29  | 27  | 0.79  | 62    | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 29  | 31  | 0.43  | 81    | DSI |     | P1   | 05H | 0.03   |           |          | TEH  | TEC |
| 29  | 32  | 0.39  | 79    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 29  | 34  | 0.94  | 73    | DSI |     | P1   | 03H | 0.21   |           |          | TEH  | TEC |
| 29  | 37  | 0.55  | 44    | DSI |     | P1   | 03H | 0.09   |           |          | TEH  | TEC |
| 29  | 38  | 0.27  | 98    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 29  | 40  | 0.66  | 63    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |

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**2RCS-SG21B**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 29  | 41  | 0.44  | 96    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 30  | 32  | 0.38  | 111   | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 30  | 37  | 0.86  | 66    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 30  | 48  | 0.67  | 95    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 30  | 79  | 0.41  | 45    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 31  | 37  | 0.61  | 58    | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 31  | 39  | 0.65  | 50    | DSI |     | P1   | 03H | 0.12   |           |          | TEH  | TEC |
| 31  | 41  | 1.20  | 0     | PCT | 17  | P2   | AV3 | 0.00   |           |          | TEH  | TEC |
| 31  | 59  | 1.57  | 0     | PCT | 22  | P2   | AV3 | 0.09   |           |          | TEH  | TEC |
| 31  | 59  | 0.83  | 0     | PCT | 14  | P2   | AV4 | 0.00   |           |          | TEH  | TEC |
| 31  | 78  | 0.53  | 63    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 32  | 29  | 0.33  | 126   | DSI |     | P1   | 05H | 0.03   |           |          | TEH  | TEC |
| 32  | 45  | 1.97  | 48    | DSI |     | P1   | 05H | -0.18  |           |          | TEH  | TEC |
| 32  | 45  | 2.70  | 18    | SAI |     | 3    | 05H | -0.19  | 0.46      |          | 05H  | 05H |
| 32  | 45  | 2.15  | 20    | SAI |     | 3    | 05H | -0.21  | 0.45      |          | 05H  | 05H |
| 32  | 50  | 1.86  | 0     | PCT | 24  | P2   | AV2 | -0.02  |           |          | TEH  | TEC |
| 32  | 50  | 1.26  | 24    | WAR |     | 2    | AV2 | 0.00   |           |          | AV2  | AV2 |
| 32  | 50  | 0.61  | 123   | WAR |     | 2    | AV2 | 0.00   |           |          | AV2  | AV2 |
| 32  | 53  | 0.84  | 52    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 32  | 55  | 0.82  | 65    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 32  | 55  | 2.02  | 0     | PCT | 25  | P2   | AV3 | -0.12  |           |          | TEH  | TEC |
| 32  | 55  | 0.99  | 0     | PCT | 15  | P2   | AV4 | 0.00   |           |          | TEH  | TEC |
| 32  | 59  | 1.79  | 0     | PCT | 24  | P2   | AV3 | 0.21   |           |          | TEH  | TEC |
| 32  | 61  | 0.39  | 103   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 32  | 77  | 0.42  | 91    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 33  | 32  | 0.67  | 133   | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 33  | 37  | 0.32  | 143   | DSI |     | P1   | 04H | 0.09   |           |          | TEH  | TEC |
| 33  | 41  | 2.01  | 0     | PCT | 24  | P2   | AV2 | 0.00   |           |          | TEH  | TEC |
| 33  | 41  | 1.07  | 0     | PCT | 16  | P2   | AV3 | 0.00   |           |          | TEH  | TEC |
| 33  | 41  | 1.08  | 32    | WAR |     | 2    | AV2 | 0.01   |           |          | AV2  | AV2 |
| 33  | 41  | 0.59  | 113   | WAR |     | 2    | AV2 | 0.00   |           |          | AV2  | AV2 |
| 33  | 43  | 1.46  | 0     | PCT | 19  | P2   | AV2 | 0.00   |           |          | TEH  | TEC |
| 33  | 43  | 0.28  | 138   | WAR |     | 2    | AV1 | -0.06  |           |          | AV1  | AV1 |
| 33  | 43  | 0.40  | 129   | WAR |     | 2    | AV2 | 0.06   |           |          | AV2  | AV2 |
| 33  | 57  | 1.21  | 0     | PCT | 19  | P2   | AV2 | 0.35   |           |          | TEH  | TEC |
| 33  | 57  | 0.36  | 132   | WAR |     | 2    | AV1 | 0.00   |           |          | AV1  | AV1 |
| 33  | 57  | 0.28  | 128   | WAR |     | 2    | AV2 | -0.28  |           |          | AV2  | AV2 |
| 33  | 57  | 0.45  | 129   | WAR |     | 2    | AV2 | 0.35   |           |          | AV2  | AV2 |
| 33  | 62  | 0.63  | 56    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 33  | 63  | 3.14  | 0     | PCT | 32  | P2   | AV2 | 0.00   |           |          | TEH  | TEC |
| 33  | 63  | 0.71  | 30    | WAR |     | 1    | AV2 | 0.00   |           |          | AV2  | 08H |
| 33  | 63  | 0.92  | 133   | WAR |     | 2    | AV2 | 0.00   |           |          | AV2  | AV2 |
| 34  | 35  | 0.33  | 103   | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 34  | 37  | 0.39  | 56    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 34  | 41  | 7.56  | 342   | PSI |     | 8    | 02H | 0.00   |           |          | TEH  | TEC |
| 34  | 41  | 8.14  | 341   | PSI |     | 8    | 06C | 0.00   |           |          | TEH  | TEC |
| 34  | 41  | 7.99  | 163   | PSI |     | 8    | 06H | 0.00   |           |          | TEH  | TEC |
| 34  | 46  | 8.15  | 344   | PSI |     | 8    | 06H | 0.00   |           |          | TEH  | TEC |
| 34  | 50  | 2.12  | 0     | PCT | 25  | P2   | AV1 | 0.00   |           |          | TEH  | TEC |
| 34  | 50  | 1.17  | 0     | PCT | 17  | P2   | AV3 | 0.00   |           |          | TEH  | TEC |
| 34  | 55  | 1.19  | 0     | PCT | 19  | P2   | AV1 | -0.21  |           |          | TEH  | TEC |

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(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 34  | 55  | 2.79  | 0     | PCT | 30  | P2   | AV3 | 0.21   |           |          | TEH  | TEC |
| 34  | 57  | 1.24  | 0     | PCT | 19  | P2   | AV2 | 0.32   |           |          | TEH  | TEC |
| 34  | 57  | 1.66  | 0     | WAR |     | 1    | AV2 | 0.00   |           |          | AV2  | AV2 |
| 34  | 57  | 0.40  | 120   | WAR |     | 2    | AV1 | 0.00   |           |          | AV1  | AV1 |
| 34  | 57  | 0.48  | 125   | WAR |     | 2    | AV2 | 0.00   |           |          | AV2  | AV2 |
| 34  | 71  | 1.17  | 0     | PCT | 17  | P2   | AV4 | 0.24   |           |          | TEH  | TEC |
| 34  | 71  | 0.13  | 90    | NQI |     | P1   | TSC | 0.65   |           |          | TEH  | TEC |
| 34  | 71  | 0.09  | 92    | SVI |     | 3    | TSC | 1.00   | 0.13      | 34       | TSC  | TSC |
| 34  | 71  | 0.21  | 111   | SVI |     | 3    | TSC | 0.40   | 0.26      | 49       | TSC  | TSC |
| 34  | 71  | 0.12  | 116   | SVI |     | 3    | TSC | 0.71   | 0.21      | 49       | TSC  | TSC |
| 35  | 19  | 1.31  | 0     | PCT | 19  | P2   | AV4 | 0.03   |           |          | TEH  | TEC |
| 35  | 21  | 0.93  | 0     | PCT | 15  | P2   | AV3 | 0.15   |           |          | TEH  | TEC |
| 35  | 25  | 1.45  | 0     | PCT | 21  | P2   | AV2 | 0.00   |           |          | TEH  | TEC |
| 35  | 25  | 1.73  | 0     | PCT | 23  | P2   | AV3 | 0.03   |           |          | TEH  | TEC |
| 35  | 25  | 0.37  | 40    | WAR |     | 1    | AV2 | 0.00   |           |          | AV2  | AV2 |
| 35  | 25  | 0.19  | 44    | WAR |     | 2    | AV1 | 0.00   |           |          | AV1  | AV1 |
| 35  | 25  | 0.41  | 116   | WAR |     | 2    | AV2 | -0.29  |           |          | AV2  | AV2 |
| 35  | 25  | 0.32  | 137   | WAR |     | 2    | AV2 | 0.37   |           |          | AV2  | AV2 |
| 35  | 40  | 0.57  | 58    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 35  | 41  | 2.11  | 0     | PCT | 26  | P2   | AV1 | -0.03  |           |          | TEH  | TEC |
| 35  | 41  | 2.37  | 0     | PCT | 28  | P2   | AV2 | -0.03  |           |          | TEH  | TEC |
| 35  | 41  | 2.60  | 0     | PCT | 29  | P2   | AV4 | 0.15   |           |          | TEH  | TEC |
| 35  | 41  | 0.50  | 0     | WAR |     | 2    | AV1 | 0.00   |           |          | AV1  | AV1 |
| 35  | 41  | 1.19  | 0     | WAR |     | 2    | AV2 | 0.00   |           |          | AV2  | AV2 |
| 35  | 41  | 0.47  | 123   | WAR |     | 2    | AV1 | 0.00   |           |          | AV1  | AV1 |
| 35  | 41  | 0.50  | 120   | WAR |     | 2    | AV2 | 0.03   |           |          | AV2  | AV2 |
| 35  | 41  | 0.12  | 111   | WAR |     | 2    | AV2 | -1.08  |           |          | AV2  | AV2 |
| 35  | 50  | 1.73  | 0     | PCT | 23  | P2   | AV1 | 0.00   |           |          | TEH  | TEC |
| 35  | 50  | 1.75  | 0     | PCT | 23  | P2   | AV2 | 0.00   |           |          | TEH  | TEC |
| 35  | 50  | 2.09  | 0     | PCT | 25  | P2   | AV3 | 0.00   |           |          | TEH  | TEC |
| 35  | 50  | 0.97  | 0     | PCT | 15  | P2   | AV4 | 0.00   |           |          | TEH  | TEC |
| 35  | 50  | 0.59  | 58    | WAR |     | 1    | AV1 | 0.00   |           |          | AV1  | AV1 |
| 35  | 50  | 1.00  | 41    | WAR |     | 1    | AV2 | 0.00   |           |          | AV2  | AV2 |
| 35  | 50  | 0.39  | 111   | WAR |     | 2    | AV1 | 0.00   |           |          | AV1  | AV1 |
| 35  | 50  | 0.59  | 126   | WAR |     | 2    | AV2 | 0.00   |           |          | AV2  | AV2 |
| 35  | 54  | 0.77  | 0     | PCT | 13  | P2   | AV1 | 0.00   |           |          | TEH  | TEC |
| 35  | 58  | 0.31  | 107   | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 35  | 63  | 1.16  | 0     | PCT | 18  | P2   | AV2 | 0.41   |           |          | TEH  | TEC |
| 35  | 63  | 1.36  | 0     | PCT | 20  | P2   | AV3 | 0.09   |           |          | TEH  | TEC |
| 35  | 63  | 0.64  | 125   | WAR |     | 2    | AV2 | 0.41   |           |          | AV2  | AV2 |
| 35  | 71  | 0.94  | 0     | PCT | 14  | P2   | AV4 | 0.15   |           |          | TEH  | TEC |
| 36  | 19  | 7.52  | 147   | PSI |     | 8    | 06H | 0.00   |           |          | TEH  | TEC |
| 36  | 19  | 0.84  | 142   | CSI |     | 9    | 06H | 0.16   |           |          | 06H  | 06H |
| 36  | 41  | 3.45  | 0     | PCT | 33  | P2   | AV1 | -0.12  |           |          | TEH  | TEC |
| 36  | 41  | 1.93  | 0     | PCT | 25  | P2   | AV2 | -0.09  |           |          | TEH  | TEC |
| 36  | 41  | 3.96  | 0     | PCT | 35  | P2   | AV3 | 0.12   |           |          | TEH  | TEC |
| 36  | 41  | 1.15  | 0     | WAR |     | 2    | AV1 | 0.00   |           |          | AV1  | AV1 |
| 36  | 41  | 0.15  | 0     | WAR |     | 2    | AV2 | 0.00   |           |          | AV2  | AV2 |
| 36  | 41  | 0.67  | 119   | WAR |     | 2    | AV1 | 0.00   |           |          | AV1  | AV1 |
| 36  | 41  | 0.55  | 142   | WAR |     | 2    | AV2 | 0.00   |           |          | AV2  | AV2 |
| 36  | 42  | 0.33  | 87    | DSI |     | P1   | 03H | 0.09   |           |          | TEH  | TEC |

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2R09 S/G EXAMINATION RESULTS

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**2RCS-SG21B**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 36  | 54  | 7.92  | 345   | PSI |     | 8    | 02H | 0.00   |           |          | TEH  | TEC |
| 36  | 55  | 0.72  | 0     | PCT | 13  | P2   | AV2 | 0.06   |           |          | TEH  | TEC |
| 36  | 55  | 0.18  | 111   | WAR |     | 2    | AV1 | 0.00   |           |          | AV1  | AV1 |
| 36  | 55  | 0.48  | 125   | WAR |     | 2    | AV2 | 0.00   |           |          | AV2  | AV2 |
| 36  | 56  | 0.47  | 67    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 36  | 63  | 1.39  | 0     | PCT | 20  | P2   | AV2 | 0.00   |           |          | TEH  | TEC |
| 36  | 63  | 1.92  | 0     | PCT | 25  | P2   | AV3 | 0.00   |           |          | TEH  | TEC |
| 36  | 63  | 0.60  | 134   | WAR |     | 2    | AV2 | 0.00   |           |          | AV2  | AV2 |
| 36  | 63  | 0.37  | 24    | WAR |     | 2    | AV1 | 0.00   |           |          | AV1  | AV1 |
| 36  | 63  | 0.57  | 128   | WAR |     | 2    | AV2 | 0.00   |           |          | AV2  | AV2 |
| 37  | 29  | 1.38  | 0     | PCT | 20  | P2   | AV2 | 0.18   |           |          | TEH  | TEC |
| 37  | 29  | 0.83  | 32    | WAR |     | 2    | AV2 | 0.00   |           |          | AV2  | AV2 |
| 37  | 29  | 0.11  | 128   | WAR |     | 2    | AV1 | 0.16   |           |          | AV1  | AV1 |
| 37  | 29  | 0.15  | 117   | WAR |     | 2    | AV1 | -0.03  |           |          | AV1  | AV1 |
| 37  | 29  | 0.35  | 128   | WAR |     | 2    | AV2 | 0.11   |           |          | AV2  | AV2 |
| 37  | 41  | 0.92  | 0     | PCT | 15  | P2   | AV2 | 0.00   |           |          | TEH  | TEC |
| 37  | 41  | 0.43  | 128   | WAR |     | 2    | AV2 | 0.00   |           |          | AV2  | AV2 |
| 37  | 57  | 0.62  | 65    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 37  | 57  | 1.16  | 0     | PCT | 18  | P2   | AV2 | -0.18  |           |          | TEH  | TEC |
| 37  | 57  | 1.60  | 0     | PCT | 22  | P2   | AV4 | 0.00   |           |          | TEH  | TEC |
| 37  | 57  | 0.40  | 22    | WAR |     | 2    | AV2 | 0.00   |           |          | AV2  | AV2 |
| 37  | 57  | 0.40  | 141   | WAR |     | 2    | AV1 | 0.00   |           |          | AV1  | AV1 |
| 37  | 57  | 0.59  | 124   | WAR |     | 2    | AV2 | 0.00   |           |          | AV2  | AV2 |
| 38  | 35  | 0.48  | 72    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 39  | 33  | 0.41  | 80    | DSI |     | P1   | 03H | 0.09   |           |          | TEH  | TEC |
| 39  | 41  | 7.41  | 343   | PSI |     | 8    | 02H | 0.00   |           |          | TEH  | TEC |
| 39  | 41  | 7.89  | 165   | PSI |     | 8    | 06C | 0.00   |           |          | TEH  | TEC |
| 39  | 41  | 7.89  | 165   | PSI |     | 8    | 06H | 0.00   |           |          | TEH  | TEC |
| 39  | 70  | 2.49  | 0     | PCT | 28  | P2   | AV3 | -0.03  |           |          | TEH  | TEC |
| 40  | 42  | 0.43  | 149   | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 41  | 31  | 0.51  | 77    | DSI |     | P1   | 05H | 0.12   |           |          | TEH  | TEC |
| 41  | 68  | 1.27  | 0     | PCT | 18  | P2   | AV1 | -0.15  |           |          | TEH  | TEC |
| 42  | 28  | 1.07  | 0     | PCT | 17  | P2   | AV3 | -0.09  |           |          | TEH  | TEC |
| 42  | 41  | 7.35  | 345   | PSI |     | 8    | 02H | 0.00   |           |          | TEH  | TEC |
| 42  | 41  | 7.76  | 163   | PSI |     | 8    | 06C | 0.00   |           |          | TEH  | TEC |
| 42  | 41  | 7.88  | 343   | PSI |     | 8    | 06H | 0.00   |           |          | TEH  | TEC |
| 42  | 47  | 1.11  | 0     | PCT | 18  | P2   | AV1 | 0.00   |           |          | TEH  | TEC |
| 42  | 51  | 0.37  | 46    | DSI |     | P1   | 04H | 0.06   |           |          | TEH  | TEC |
| 42  | 55  | 1.21  | 0     | PCT | 19  | P2   | AV2 | -0.21  |           |          | TEH  | TEC |
| 42  | 64  | 8.55  | 164   | PSI |     | 8    | 06H | 0.00   |           |          | TEH  | TEC |
| 43  | 40  | 8.61  | 163   | PSI |     | 8    | 06C | 0.00   |           |          | TEH  | TEC |
| 43  | 41  | 7.49  | 340   | PSI |     | 8    | 02H | 0.00   |           |          | TEH  | TEC |
| 43  | 41  | 7.99  | 165   | PSI |     | 8    | 06C | 0.00   |           |          | TEH  | TEC |
| 43  | 41  | 8.05  | 163   | PSI |     | 8    | 06H | 0.00   |           |          | TEH  | TEC |
| 43  | 64  | 8.60  | 343   | PSI |     | 8    | 06H | 0.00   |           |          | TEH  | TEC |
| 45  | 41  | 7.35  | 343   | PSI |     | 8    | 02H | 0.00   |           |          | TEH  | TEC |
| 45  | 41  | 8.14  | 164   | PSI |     | 8    | 06H | 0.00   |           |          | TEH  | TEC |
| 45  | 54  | 8.08  | 337   | PSI |     | 8    | 02H | 0.00   |           |          | TEH  | TEC |
| 46  | 41  | 8.22  | 164   | PSI |     | 8    | 02H | 0.00   |           |          | TEH  | TEC |
| 46  | 41  | 8.75  | 163   | PSI |     | 8    | 06H | 0.00   |           |          | TEH  | TEC |
| 46  | 54  | 8.16  | 339   | PSI |     | 8    | 02H | 0.00   |           |          | TEH  | TEC |

# ATTACHMENT 5A

BEAVER VALLEY UNIT #2  
2R09 S/G EXAMINATION RESULTS  
**2RCS-SG21B**  
TUBES REPAIRED VIA PLUGGING

BEAVER VALLEY UNIT #2  
2R09 S/G EXAMINATION RESULTS

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**2RCS-SG21B**

(TUBES REPAIRED VIA PLUGGING)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 2   | 22  |       |       |     |     |      |     |        |           |          |      |     |
| 2   | 53  |       |       |     |     |      |     |        |           |          |      |     |
| 3   | 50  | 0.09  | 64    | SCI |     | P1   | TSH | -0.01  |           | 90       | TSH  | TSH |
| 9   | 50  | 0.12  | 135   | SCI |     | P1   | TSH | -0.05  |           | 90       | TSH  | TSH |
| 9   | 53  | 0.17  | 126   | SCI |     | P1   | TSH | -0.09  |           | 90       | TSH  | TSH |
| 17  | 32  | 0.14  | 118   | SAI |     | 3    | 02H | 0.14   | 0.16      |          | 02H  | 02H |
| 17  | 49  | 0.13  | 110   | SAI |     | 3    | 03H | 0.11   | 0.30      |          | 03H  | 03H |
| 18  | 41  | 0.14  | 140   | SAI |     | 3    | 02H | 0.10   | 0.29      |          | 02H  | 02H |
| 19  | 49  | 0.15  | 126   | SAI |     | 3    | 02H | 0.12   | 0.27      |          | 02H  | 02H |
| 20  | 26  | 0.27  | 107   | SAI |     | 3    | TSH | 0.52   | 0.20      |          | TSH  | TSH |
| 32  | 45  | 2.15  | 20    | SAI |     | 3    | 05H | -0.21  | 0.45      |          | 05H  | 05H |
| 32  | 45  | 2.70  | 18    | SAI |     | 3    | 05H | -0.19  | 0.46      |          | 05H  | 05H |
| 34  | 71  | 0.12  | 116   | SVI |     | 3    | TSC | 0.71   | 0.21      | 49       | TSC  | TSC |
| 34  | 71  | 0.21  | 111   | SVI |     | 3    | TSC | 0.40   | 0.26      | 49       | TSC  | TSC |
| 34  | 71  | 0.09  | 92    | SVI |     | 3    | TSC | 1.00   | 0.13      | 34       | TSC  | TSC |



# **ATTACHMENT 6**

BEAVER VALLEY UNIT #2  
2R09 S/G EXAMINATION RESULTS  
**2RCS-SG21C**  
TUBES WITH INDICATIONS

BEAVER VALLEY UNIT #2  
2R09 S/G EXAMINATION RESULTS

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**2RCS-SG21C**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 1   | 22  | 0.43  | 61    | DSI |     | P1   | 03H | -0.03  |           |          | 08H  | TEH |
| 1   | 68  | 13.12 | 344   | PSI |     | 8    | 05C | 0.00   |           |          | 08C  | TEC |
| 2   | 78  | 0.41  | 63    | DSI |     | P1   | 03H | -0.03  |           |          | 08H  | TEH |
| 2   | 85  | 0.55  | 39    | DSI |     | P1   | 03H | -0.03  |           |          | 08H  | TEH |
| 3   | 18  | 0.48  | 94    | DSI |     | P1   | 03H | 0.00   |           |          | 08H  | TEH |
| 3   | 60  | 1.02  | 79    | DSI |     | P1   | 02H | 0.12   |           |          | 08H  | TEH |
| 3   | 60  | 0.48  | 65    | DSI |     | P1   | 03H | -0.06  |           |          | 08H  | TEH |
| 3   | 64  | 0.35  | 91    | DSI |     | P1   | 02H | 0.00   |           |          | 08H  | TEH |
| 3   | 67  | 12.90 | 343   | PSI |     | 8    | 05C | 0.00   |           |          | 08C  | TEC |
| 3   | 70  | 0.38  | 85    | DSI |     | P1   | 03H | 0.00   |           |          | 08H  | TEH |
| 4   | 76  | 0.64  | 62    | DSI |     | P1   | 03H | 0.12   |           |          | 08H  | TEH |
| 5   | 5   | 0.32  | 147   | DSI |     | P1   | 05H | 0.00   |           |          | TEH  | TEC |
| 5   | 19  | 0.43  | 75    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 5   | 62  | 0.64  | 75    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 6   | 54  | 0.86  | 67    | DSI |     | P1   | 03H | 0.14   |           |          | TEH  | TEC |
| 7   | 54  | 0.16  | 101   | SCI |     | P1   | TSH | -0.02  |           | 19       | TSH  | TSH |
| 7   | 67  | 0.43  | 45    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 8   | 23  | 0.74  | 72    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 9   | 41  | 0.53  | 88    | DSI |     | P1   | 02H | -0.03  |           |          | 08H  | TEH |
| 9   | 45  | 0.51  | 82    | DSI |     | P1   | 05H | 0.00   |           |          | 08H  | TEH |
| 9   | 51  | 0.12  | 138   | SCI |     | P1   | TSH | -0.06  |           | 49       | TSH  | TSH |
| 9   | 54  | 1.18  | 80    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 10  | 9   | 0.34  | 72    | DSI |     | P1   | 03H | 0.12   |           |          | TEH  | TEC |
| 10  | 10  | 0.46  | 105   | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 10  | 37  | 0.89  | 78    | DSI |     | P1   | 02H | -0.03  |           |          | 08H  | TEH |
| 10  | 50  | 0.49  | 6     | SAI |     | 3    | 04H | -0.09  | 0.15      |          | 04H  | 04H |
| 10  | 51  | 2.41  | 37    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 11  | 62  | 0.64  | 35    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 11  | 72  | 0.79  | 53    | DSI |     | P1   | 03H | 0.09   |           |          | TEH  | TEC |
| 12  | 83  | 0.25  | 83    | DSI |     | P1   | 03H | 0.08   |           |          | TEH  | TEC |
| 13  | 43  | 0.47  | 101   | DSI |     | P1   | 03H | 0.06   |           |          | 08H  | TEH |
| 13  | 59  | 0.45  | 57    | DSI |     | P1   | 03H | 0.09   |           |          | TEH  | TEC |
| 13  | 63  | 0.46  | 39    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 14  | 38  | 0.71  | 57    | DSI |     | P1   | 02H | -0.03  |           |          | 08H  | TEH |
| 14  | 39  | 0.59  | 54    | DSI |     | P1   | 05H | 0.03   |           |          | 08H  | TEH |
| 14  | 50  | 0.89  | 72    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 15  | 14  | 0.64  | 53    | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 15  | 35  | 0.54  | 58    | DSI |     | P1   | 03H | 0.00   |           |          | 08H  | TEH |
| 15  | 62  | 0.39  | 64    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 15  | 80  | 0.48  | 103   | DSI |     | P1   | 03H | -0.03  |           |          | TEH  | TEC |
| 16  | 57  | 0.68  | 64    | DSI |     | P1   | 03H | 0.09   |           |          | TEH  | TEC |
| 16  | 73  | 0.61  | 74    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 17  | 47  | 0.50  | 67    | DSI |     | P1   | 03H | 0.08   |           |          | TEH  | TEC |
| 17  | 61  | 0.90  | 65    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 17  | 63  | 0.69  | 84    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 18  | 48  | 0.73  | 68    | DSI |     | P1   | 03H | 0.00   |           |          | TEH  | TEC |
| 19  | 35  | 0.98  | 42    | DSI |     | P1   | 03H | 0.06   |           |          | TEH  | TEC |
| 19  | 38  | 0.82  | 50    | DSI |     | P1   | 05H | 0.09   |           |          | TEH  | TEC |
| 19  | 48  | 0.82  | 60    | DSI |     | P1   | 03H | 0.09   |           |          | TEH  | TEC |
| 19  | 57  | 0.65  | 57    | DSI |     | P1   | 05H | 0.06   |           |          | TEH  | TEC |
| 21  | 62  | 0.50  | 66    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |

BEAVER VALLEY UNIT #2  
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**2RCS-SG21C**  
(TUBES WITH INDICATIONS)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 22  | 24  | 0.78  | 83    | DSI |     | P1   | 03H | -0.14  |           |          | TEH  | TEC |
| 22  | 61  | 0.54  | 61    | DSI |     | P1   | 03H | 0.09   |           |          | TEH  | TEC |
| 23  | 28  | 0.45  | 69    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 23  | 39  | 0.75  | 84    | DSI |     | P1   | 02H | 0.11   |           |          | TEH  | TEC |
| 23  | 39  | 0.65  | 47    | DSI |     | P1   | 05H | 0.03   |           |          | TEH  | TEC |
| 23  | 42  | 0.78  | 92    | DSI |     | P1   | 03H | 0.03   |           |          | TEH  | TEC |
| 23  | 69  | 0.25  | 56    | DSI |     | P1   | 03H | 0.08   |           |          | TEH  | TEC |
| 24  | 41  | 0.52  | 54    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 24  | 48  | 1.09  | 62    | DSI |     | P1   | 03H | 0.09   |           |          | TEH  | TEC |
| 24  | 50  | 0.53  | 67    | DSI |     | P1   | 02H | -0.03  |           |          | TEH  | TEC |
| 24  | 61  | 0.56  | 71    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 25  | 34  | 0.77  | 60    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 25  | 54  | 0.56  | 83    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 25  | 65  | 0.79  | 72    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 26  | 39  | 0.56  | 36    | DSI |     | P1   | 05H | 0.03   |           |          | TEH  | TEC |
| 26  | 42  | 0.62  | 52    | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 27  | 20  | 0.99  | 68    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 28  | 44  | 0.47  | 108   | DSI |     | P1   | 02H | 0.03   |           |          | TEH  | TEC |
| 29  | 47  | 0.58  | 86    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 30  | 60  | 0.85  | 69    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 30  | 61  | 0.87  | 65    | DSI |     | P1   | 02H | 0.00   |           |          | TEH  | TEC |
| 34  | 58  | 0.47  | 72    | DSI |     | P1   | 02H | 0.06   |           |          | TEH  | TEC |
| 34  | 59  | 0.65  | 61    | DSI |     | P1   | 02H | 0.09   |           |          | TEH  | TEC |
| 37  | 67  | 1.19  | 0     | PCT | 20  | P2   | AV2 | 0.09   |           |          | TEH  | TEC |
| 37  | 67  | 2.14  | 0     | PCT | 27  | P2   | AV3 | -0.03  |           |          | TEH  | TEC |
| 40  | 53  | 0.43  | 121   | DSI |     | P1   | 04H | 0.09   |           |          | TEH  | TEC |
| 43  | 61  | 0.72  | 12    | SAI |     | 3    | TSH | 0.11   | 0.12      |          | TSH  | TSH |

# **ATTACHMENT 6A**

BEAVER VALLEY UNIT #2  
2R09 S/G EXAMINATION RESULTS  
**2RCS-SG21C**  
TUBES REPAIRED VIA PLUGGING

BEAVER VALLEY UNIT #2  
2R09 S/G EXAMINATION RESULTS

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**2RCS-SG21C**

(TUBES REPAIRED VIA PLUGGING)

| Row | Col | Volts | Phase | Ind | %TW | Chan | Loc | Inch 1 | Cr-Length | Cr-Angle | From | To  |
|-----|-----|-------|-------|-----|-----|------|-----|--------|-----------|----------|------|-----|
| 7   | 54  | 0.16  | 101   | SCI |     | P1   | TSH | -0.02  |           | 19       | TSH  | TSH |
| 8   | 69  |       |       |     |     |      |     |        |           |          |      |     |
| 9   | 51  | 0.12  | 138   | SCI |     | P1   | TSH | -0.06  |           | 49       | TSH  | TSH |
| 10  | 50  | 0.49  | 6     | SAI |     | 3    | 04H | -0.09  | 0.15      |          | 04H  | 04H |
| 43  | 61  | 0.72  | 12    | SAI |     | 3    | TSH | 0.11   | 0.12      |          | TSH  | TSH |