

1 Read

NO. 3 ELECTRONIC SWITCHING SYSTEM TESTING

TABLE OF CONTENTS

Listed below are the contents of this handbook as of the above date. Check the handbook against this list, order missing sections, UIS's and TM's. Initial, date and file the Table of Contents in this handbook.

Handbooks 0, 3, 9, 18, 21, 50, 59, 100, 250 and 261 are required to supplement the information contained in this handbook.

Refer to Handbook 3, Section 71 for Special Test Precautions for Electronic Devices.

All inquiries pertaining to the contents of this handbook should be directed to the appropriate Regional Technical Assistance Center (RTAC) contact listed in the Job Specification or in General Information Handbook 3, Section 0.

| Section                      | Date     | Organization Responsible | Subject   |
|------------------------------|----------|--------------------------|---|
| <u>REFERENCE INFORMATION</u> |          |                          |   |
| I of C                       | 8-12-77  | LE-3                     | Index of Circuits and Associated Handbook Sections  |
| UIS 1A                       | 4-01-83  | LE-3                     | Unitized System Test Planning   |
| 1A                           | 5-30-80  | LE-3                     | Unitized System Test Planning   |
| UIS 1B                       | 4-01-83  | LE-3                     | Test Planning for Individual Frame Shipments  |
| 1B                           | 3-02-79  | LE-3                     | Test Planning for Individual Frame Shipments  |
| 1                            | 7-14-78  | LE-3                     | Unitized System Test Planning   |
| UIS 1.2                      | 4-01-83  | LE-3                     | Association of Test Equipment with Handbook 269 Test Sections   |
| 1.2                          | 6-23-78  | LE-3                     | Association of Test Equipment with Handbook 269 Test Sections   |
| 2                            | 4-16-76  | LE-3                     | Glossary of Common Usage Terms  |
| 10                           | 4-16-76  | LE-3                     | No. 2, 2B and 3 ESS/AIS Tektronix Model 465 (ITE 5237B) Tektronix Model 453A (ITE 5237A) Tektronix Model 453 (ITE 5237) Oscilloscope Operating Instructions |
| 17                           | 2-15-77  | LE-5                     | Setup and Operation of the ITE-5511 Microcontrol Test Set   |
| <u>PRELIMINARY TESTS</u>     |          |                          |   |
| 100                          | 4-16-76  | LE-3                     | Continuity Tests  |
| 101                          | 12-09-77 | LE-3                     | Continuity Tests - Test Frame   |
| 102                          | 9-23-77  | LE-3                     | Continuity Tests - Control Frame  |
| 103                          | 7-29-77  | LE-3                     | Continuity Tests - Network Frame  |
| 104                          | 7-29-77  | LE-3                     | Continuity Tests - Miscellaneous Power Frame  |
| 105                          | 9-23-77  | LE-3                     | Continuity Tests - Miscellaneous Frame  |
| 106                          | 9-23-77  | LE-3                     | Continuity Tests - Trunk and Service Circuit Units  |
| 150                          | 6-16-78  | LE-3                     | Control Complex Power Verification Tests  |
| 151                          | 12-10-76 | LE-3                     | Test Frame Power Verification Tests   |

NOTICE

| Section | Date     | Organization Responsible | Subject  |
|---------|----------|--------------------------|--|
| 160     | 8-12-77  | LE-3                     | Control Frame Power Verification Tests   |
| 161     | 11-05-76 | LE-3                     | Network Frame Power Verification Tests   |
| 162     | 6-03-77  | LE-3                     | Miscellaneous Frame Power Verification Tests   |
| 175     | 4-16-76  | LE-3                     | Ringng and Tone Distribution Tests   |
| 180     | 6-16-78  | LE-3                     | Utilized System Power Verification Tests   |
|         |          |                          | <u>SUPPLEMENTARY TESTS</u>   |
| 200     | 7-29-77  | LE-5                     | Trunk and Line Test Panel (TLTP) Tests   |
|         |          |                          | <u>TEST PROGRAM TESTS</u>  |
| UIS 300 | 10-10-80 | LE-5                     | No. 3 ESS Processor and Peripheral Test Program (X-Ray) Tests  |
| 300     | 10-12-79 | LE-5                     | General Description  |
|         |          |                          | <u>SYSTEM VERIFICATION TESTS</u>   |
| 500     | 3-02-79  | LE-3                     | Planning Information   |
| 503     | 6-23-78  | LE-3                     | Operational Testing - General Information  |
| 503.11  | 3-17-78  | LE-3                     | 15A, 15R, and 15C Grid Changing Procedure (SD-3H120, 121, 130)                                       |
| 503.21  | 7-21-78  | LE-3                     | General Information on Overwrite Procedures  |
| 503.34  | 6-02-78  | LE-3                     | General Information Preferential Assignment List (PNAL) and Associated Translation Test Assignments  |
| 503.41  | 4-16-76  | LE-3                     | Common Operator Procedures, 3ACC Control Panel   |
| 508     | 10-06-78 | LE-3                     | No. 2B and 3 ESS System Verification - Initialization of System                                      |
| 508.2   | 10-06-78 | LE-3                     | No. 2B ESS and No. 3 ESS System Verification Control Complex   |
| 520     | 10-27-78 | LE-3                     | Major Peripheral (Controller) Tests - General Information  |
| 520.04  | 10-27-78 | LE-3                     | Scanner Controller   |
| 520.08  | 10-27-78 | LE-3                     | Peripheral Pulse Distributor Controllers   |
| 520.12  | 10-27-78 | LE-3                     | Network Controllers  |
| 521     | 10-27-78 | LE-3                     | Network Fabric   |
| 525     | 10-27-78 | LE-3                     | Ringng and Tone Plant  |
| 528     | 4-16-76  | LE-3                     | Trunk and Line Test Panel (TLTP) General Information and Operating Procedures                        |
| 528.01  | 5-02-80  | LE-3                     | Trunk and Line Test Panel (TLTP)(Trunks)   |
| 528.02  | 10-27-78 | LE-3                     | Trunk and Line Test Panel (Lines)  |
| 530     | 10-27-78 | LE-3                     | General Information - Test and Troubleshooting Procedures Using the Trunk and Line Test Panel (TLTP) |
| 533T    | 10-27-78 | LE-3                     | Junctors   |
| 534     | 1-12-79  | LE-3                     | Service Circuits   |
| 535     | 4-03-81  | LE-3                     | Trunk Circuits   |
| 536     | 10-27-78 | LE-3                     | Direct Interface to D4 Channel Unit  |

| Section                  | Date     | Organization Responsible | Subject  |
|--------------------------|----------|--------------------------|--|
| 544                      | 4-16-76  | LE-3                     | Automatic Line Insulation Test (ALIT)  |
| 545                      | 10-27-78 | LE-3                     | AMARC Function   |
| 551                      | 12-29-78 | LE-3                     | ALarm Generation   |
| <u>OPERATIONAL TESTS</u> |          |                          |  |
| 600                      | 6-23-78  | LE-3                     | Planning Information   |
| 601                      | 5-19-78  | LE-3                     | Teletype, Autoconnect and Teletype Controller Operation  |
| 610                      | 9-03-76  | LE-3                     | General Information Service Circuits   |
| 610.21                   | 9-03-76  | LE-3                     | Station Ringer Test Circuit  |
| 610.22                   | 9-03-76  | LE-3                     | Superimposed Ringing Circuit (SD-3H406-01)   |
| 610.25                   | 10-06-78 | LE-3                     | Coin Control Tone and Recorded Announcement and Remote Recording of Announcement Circuit (SD-3H411-01) |
| 612                      | 5-20-77  | LE-3                     | General Information - Trunk Circuit  |
| 612.36                   | 4-28-78  | LE-3                     | E&M Lead Circuit (CPS-FS 361)  |
| 612.370                  | 5-20-77  | LE-3                     | Incoming Trunk Circuit Reverse Battery Supervision Delay Dial SD-3H220, CPS-FB370                      |
| 612.371                  | 5-20-77  | LE-3                     | Incoming Trunk Circuit Reverse Pattery Supervision Wink or Immediate Start SD-3H220, CPS-FB371         |
| 612.382                  | 6-03-77  | LE-3                     | Two-Way Truck Circuit E&M Lead Supervision SD-3H220, CPS FB 382  |
| 612.391                  | 6-17-77  | LE-3                     | Two-Way Trunk Circuit E&M Lead Supervision SD-3H220, CPS FB 391  |
| 612.399                  | 5-20-77  | LE-3                     | Outgoing Reverse Battery Trunk Circuit SD-3H220, CPS-FB 399  |
| 612.519                  | 4-28-78  | LE-3                     | Incoming Trunk from Local Test Desk No. 14 or 3 SD-3H520, CPS-FB 519                                   |
| >613                     | 8-12-83  | LE-3                     | Mini-ROTL Summary Section  |
| 613.01                   | 12-31-82 | LE-3                     | Mini-ROTL Initialization   |
| 613.02                   | 4-25-83  | LE-3                     | Mini-ROTL Diagnostics  |
| 613.03                   | 12-13-82 | LE-3                     | Mini-ROTL Responder Alignment  |
| 613.04                   | 2-08-80  | LE-3                     | Mini-ROTL System Tests   |
| 614.63                   | 7-14-78  | LE-3                     | Noise Immunity Line Circuit  |
| 614.64                   | 8-18-78  | LE-3                     | No. 3 ESS Dial-Tone-First Coin Line Circuit  |
| 622                      | 5-26-78  | LE-3                     | E2A Telemetry and Interface Circuit  |
| 625                      | 2-18-82  | LE-3                     | No. 3 ESS Remote Recording Announcement with Autoconnect Operational Test                              |
| 634                      | 5-06-77  | LE-3                     | General Information Custom Calling Features  |
| 634.01                   | 5-06-77  | LE-3                     | Call Forwarding Feature  |
| 634.02                   | 5-06-77  | LE-3                     | Call Waiting Feature   |
| 634.03                   | 5-06-77  | LE-3                     | Speed Calling Feature  |
| 634.04                   | 5-06-77  | LE-3                     | Three-Way Calling Feature  |

| Section | Date     | Organization Responsible | Subject   |
|---------|----------|--------------------------|---|
| UIS 660 | 1-13-78  | LE-3                     | General Information Load Application and Volume                                   |
| 660     | 3-07-80  | LE-3                     | General Information Load Application and Volume                                   |
| 660.01  | 10-27-78 | LE-3                     | Optional Testing Integrated Volume Testing with ITE-5956                          |
| 660.31  | 3-07-80  | LE-3                     | Volume Maintenance  |
| 660.35  | 5-30-80  | LE-3                     | No. 3 ESS Operational Test High Temperature Stress                                |
| 660.41  | 3-07-80  | LE-3                     | Volume Integrated   |
| 720     | 1-16-81  | LE-3                     | No. 3 ESS System Verification Main Store Memory Growth                            |
| 730     | 11-23-79 | LE-3                     | No. 3 ESS Control Frame 1 and Network Frame 8 Additions                           |
| 730.01  | 2-27-81  | LE-3                     | No. 3 ESS Cabling and Connecting for Control Frame 1 and Network Frame 8          |
| 730.02  | 11-23-79 | LE-3                     | No. 3 ESS Continuity Tests for Control Frame 1 and Network Frame 8 Additions      |
| 730.03  | 2-27-81  | LE-3                     | No. 3 ESS Control Frame and Network Frame 8 Power Verification Test for Additions |
| 730.04  | 2-27-81  | LE-3                     | No. 3 ESS Control Frame 1 and Network Frame 8 System Verification                 |
| 740     | 8-10-79  | LE-3                     | Network Frame Addition  |
| 810     | 8-10-79  | LE-3                     | No. 3 ESS Test Methods for a Fully Utilized No. 3 ESS System                      |
| 900     | 8-07-81  | LE-3                     | 3 ESS Guidebook (ED-3H-200-10)  |

Sections required to complete this handbook may only be ordered according to local practice or from:

Information Distribution Center  
 Western Electric  
 P. O. Box 26205  
 Indianapolis, Indiana 46226  
 CORNET: 358-3358 Commercial: 317-265-3358

- > Indicates new or changed information.
- \* Indicated divided responsibilities

Manager, ESS Installation and Field Engineering

Reason for Reissue:  
 Section 613 Updated

Date Checked \_\_\_\_\_

Checked By \_\_\_\_\_