

EQUIPMENT TEST LIST—DESCRIPTION AND LIST OF ISSUED ETLs
ADMINISTRATIVE MAINTENANCE METHODS
GENERAL METHODS

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- 1.03** The title of each figure includes a number(s) in parentheses which identifies the paragraph(s) in which the figure is referenced.
- 1.04** Recommendations for changes, additions, and/or deletions to this section or to **any ETL** should be forwarded as specified in Bell System Practices (BSP), Section 000-010-015.
- 1.05** ETLs are written and issued to support CMPs.
- 1.06** The following CMP BSPs are currently in effect or will be shortly.

<i>BSP Section</i>	<i>System</i>
010-300-010	Transmission and Signaling Equipment
201-020-510	Switching Systems—General
212-020-510	No. 4 Crossbar
215-001-010	Panel
216-020-510	No. 1 Crossbar
218-020-510	No. 5 Crossbar
220-020-510	Crossbar Tandem
225-001-010	Community Dial Offices—Step-by-Step (SXS)
226-020-510	No. 1 SXS
231-001-010	No. 1 Electronic Switching System (ESS)
232-001-010	No. 2 ESS

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1. GENERAL

1.01 This section describes the Equipment Test Lists (ETLs) as well as its intended use. In addition, a list of issued ETLs is furnished.

1.02 This section is reissued to update Tables A and B, and to provide information on the new format ETL.

NOTICE

Not for use or disclosure outside the
Bell System except under written agreement

SECTION 010-300-011

233-020-510	No. 3 ESS
234-020-010	No. 4 ESS
240-020-510	No. 101 ESS
250-020-510	TSPS No. 1
534-001-010	Private Branch Exchange (PBX) Systems

1.07 For CMPs listed in this section, ETLs provide an index and information access system to locate equipment tests, inspections, and other requirements found throughout the BSPs which are necessary for corrective and preventive maintenance. The number of ETLs issued for each division of BSPs depends upon the structure and content of the BSP division. Figures 1, 2, and 3 are illustrations of ETLs in the old format. Figure 4 illustrates an ETL in the new format. New format ETLs replacing old format ETLs, for some systems, will be available for distribution beginning the first quarter of 1978.

1.08 AT&TCo Standard ETLs have *not* been prepared for the following:

- (a) Equipment or systems for which maintenance tests have not been defined by BSPs.
- (b) Power equipments:
 - (1) Where performance is covered by application requirements, or
 - (2) Which have been obsolete for many years and very few, if any, are in existence.

1.09 Table A provides a list of the ETLs that have been issued. The dagger symbol (†) following the ETL numeric in Table A denotes that the ETL has been issued in the new format. Table B contains a list of BSP sections which apply to systems with standard CMPs and which have not been included in ETL sections.

1.10 In those cases where an ETL is required and a standard ETL has not been prepared, the ETL should be prepared locally using a blank Form E-5450 (Fig. 5).

2. TEST CLASSIFICATIONS AND DEFINITIONS

2.01 All tests, inspections, or other requirements in an ETL are given one of four classifications which are described further in this section. For simplification, the word "test" is used to mean a test, inspection, or other work requirement.

2.02 *Mandatory Work (MW):* MW tests are used to detect actual or potential failures which could **result in a severe service penalty** or for which **indications of failure are missing or obscure.**

- (a) MW tests **must be performed** at a frequency equal to or more frequent than that specified in the ETL.
- (b) Some equipment is shown as MW because of its importance to the efficient operation of an office (eg, test equipment, ladders, inspection of rubber gloves, etc).

2.03 *Mandatory Review (MR):* MR tests are tests used to detect actual or potential failures which **do not result in a severe service penalty** and for which **indications of a failure are missing or obscure.** This classification is not used in the PBX Controlled Maintenance Plan.

- (a) MR tests are assigned a frequency at which a review must be made to determine whether or not there is a need to perform the test at that time.
- (b) At the time of review, the question must be asked: "Was this test (not a sample) applied to **all** units at, or since, the time of the previous review?" If the answer is "Yes", no work is required at this time unless review of corrective maintenance data indicates otherwise. If the answer is "No", the test **must be applied.** The Controlled Maintenance Plan (CMP) for SXS systems should be reviewed to ascertain sampling definitions and instructions. The required review of MR tests at the ETL frequency is intended to protect customer service and prevent accumulated equipment deterioration.

2.04 *Test Frame (TF):* TF tests make use of automatic or semiautomatic test frames or test sets. Some TF tests require manual operations, depending on the nature of the test

and the features of the test frame or test set. For TF tests, an asterisk (*) in the **FREQ.** column of the Equipment Test List indicates that the test shall be programmed locally for that office. The frequency for a particular test will depend on: (1) the number of circuits to be tested, (2) the amount of trouble found by past tests, and (3) the availability of the test frame for scheduled testing. ***This frequency must be entered in the FREQ. column of the ETL used in this office.*** Automatic or semiautomatic test frame tests may be used in lieu of manual tests when they are exact substitutions. When this is done, the maximum test interval should correspond to the manual test frequency. For transmission measurements made by the Automatic Transmission Measurement System (ATMS), minimum requirements are specified in other sections. The frequency at which these tests are performed must meet these minimum requirements. In order to be compatible with Central Office Maintenance Management System (COMMS), the new format ETL shows many former TF routines as MW. In these cases, ****TF TEST**** appears at the beginning of the routine title or description.

2.05 Trouble Tests (TT): These tests are not performed at a specified frequency, but should be used when required to identify and isolate troubles revealed by other indications or analysis.

2.06 For convenience in scheduling, MW, MR, and TF tests are grouped and the TT tests are listed separately at the end of each ETL section or at the end of each specific equipment category or test equipment arrangement of the new format ETL.

2.07 Because of the relatively small number of power circuits or units involved in any one office, all tests in the power ETLs are shown as MW even though there are frequent instances where the only effort needed will be to review or check the requirement to determine whether or not there is a need to do work. For example, observation of a sight gauge will determine whether lubricant needs to be added to a bearing, or observation of a voltmeter will indicate any need for readjustment of voltage regulation control.

3. FREQUENCY SYMBOLS

3.01 The frequencies at which tests are scheduled are indicated by the following symbols:

SYMBOL	FREQUENCY
D	Daily
W	Weekly
M	Monthly

Less frequent intervals are indicated by a number prefix. For example:

SYMBOL	FREQUENCY
2W	Once every 2 weeks
2M	Once every 2 months
3M	Once every 3 months
4M	Once every 4 months
6M	Once every 6 months
9M	Once every 9 months
12M	Once a year
18M	Once every 18 months
24M	Once every 2 years
30M	Once every 30 months
36M	Once every 3 years
48M	Once every 4 years

3.02 For some tests there is an asterisk (*) or a number symbol (#) entered in the **FREQ.** column.

(a) The asterisk (*) indicates that the **frequency must be determined locally and**

*shown in the **FREQ.** column* of the ETL.
For example:

- (1) An asterisk (*) may be entered in the **FREQ.** column when a transmission test is required. The frequency for performing this test depends on the type of facility involved and can be determined from the appropriate BSP.
 - (2) An asterisk (*) may be entered in the **FREQ.** column when the frequency of preventive maintenance depends upon office conditions and equipment usage. In this case, the maintenance BSP will generally specify a minimum interval and stipulate increasing the interval based on experience and application.
 - (3) An asterisk (*) may be entered in the **FREQ.** column for test equipment to be sent to the Western Electric Company (WECO) under the "Red Ball" plan. The "Red Ball" plan is explained in Section 745-004-000.
- (b) The number symbol (#) used in the **FREQ.** column indicates that frequency data are entered in the **EQUIPMENT AND WORK DESCRIPTION** column as a note following the test.

4. UPDATING ETLs

4.01 ETLs are reissued annually on or about September 1 and will include all information previously covered along with additions, deletions, and/or changes authorized since the last issue of the ETL. If no changes have been authorized in the past year, the ETL will not be reissued.

4.02 When a new format ETL is reissued, an arrow will be placed in the margin to identify specific tests that have been added, changed, or deleted.

5. ETL SECTION ARRANGEMENT

5.01 ETL sections are provided for most divisions of BSPs containing maintenance tests required by systems covered by CMPs. Depending on the structure of the BSP division, there may be only one ETL for the entire BSP division or there may be several ETLs for one BSP division.

5.02 When there is only one ETL provided for BSP divisions, generally it will be numbered XXX-001-011. In this case the ETL is arranged in the same manner as the Division Numerical Index, including layer and sublayer headings. This ETL arrangement usually will apply to BSP divisions which are common to several types of offices or PBX types, and to BSP divisions which are not structured for meaningful subject matter divisions.

5.03 When several ETLs are provided for one BSP division, generally they will be numbered XXX-001-011, -012, -013, etc. Each ETL, in this case, will provide tests for a category of equipment, such as AMA, senders, markers, specific PBX type, etc. Tests listed in old format ETLs are arranged in numerical order but index headings are not used.

5.04 New format ETLs will list tests grouped under headings and subheadings that identify the equipment by generic and specific equipment category, and by pertinent features and/or options. These headings are consistent with the COMMS program.

5.05 COMMS has a separate data base for each system or major group of equipment such as Power Systems or 4A and 4M Toll Switching. These major groups are shown in Table A. Each major group is divided into generic categories. Each generic category becomes a separate section in the new ETLs. Thus the generic category number establishes the paragraph numbers in new format ETLs. Generic category numbers are also shown in Table A.

5.06 The individual paragraphs (8.1, 8.2, etc, reference A on Fig. 4) identify the specific equipment category within the new format ETL. Within a paragraph or specific category, headings may appear at three indention levels to identify features and options. The first level (reference B on Fig. 4) when used identifies a test equipment arrangement. Only one of the arrangements listed would apply to a given unit of equipment to be tested. The second level (reference C on Fig. 4) is used to provide instructions for applying the options or features listed in the third level or to indicate that the routines which follow apply to all units or that they are to be used as Trouble Tests only. The five specific statements that will be used in the second level are as follows:

- (a) OPTIONAL FEATURES

- (b) OPTIONAL FEATURES, SELECT NO MORE THAN ONE CATEGORY
- (c) SELECT ONLY ONE CATEGORY
- (d) FOR ALL UNITS
- (e) TROUBLE TESTS.

The third level of indention (reference D on Fig. 4) is used to specify the option or feature.

5.07 Initially, new format ETLs will be issued for the following systems:

1. T-Carrier
2. O-ON and N Carrier
3. No. 1 ESS 2-Wire
4. No. 4 Crossbar
5. No. 5 Crossbar (MTF- OTF- ACD and 5A)
6. Step-by-Step (SXS- No. 1 and CDO)
7. No. 1 Crossbar
8. Crossbar Tandem
9. Power
10. Miscellaneous Equipment and Apparatus.

5.08 ETLs for newly developed systems will be provided in the new format when issued. Remaining ETLs will be converted to the new format as required.

6. DESCRIPTION AND USE

6.01 The ETL is a listing of the tests, inspections, and other requirements for the proper maintenance of equipment and systems. It also provides the recommended intervals for scheduling.

6.02 In new format ETLs, tests for corrective and preventive maintenance that apply to a given piece of equipment can be determined directly from the list by locating the routines listed under the features and options which apply to the particular unit of equipment to be tested. This ETL arrangement is described in paragraphs 5.04 through 5.06.

6.03 For each test the listing shows BSP reference, Test Title, Test Classification, and maximum interval allowed between scheduled assignments.

6.04 No further identification or distinction will be made between old format and/or new format ETLs. Reference to an ETL is a reference to an Equipment Test List, whatever the format.

6.05 *The intervals shown in the ETLs supercede all other maintenance intervals in BSPs.* The tests must be performed at a frequency equal to or more frequent than that specified in the ETL. The purpose of doing recurring work at the ETL frequency is to prevent accumulated equipment deterioration which leads to customer service interruptions or to expensive repairs.

6.06 The test intervals listed in the ETL are specified to meet the needs of most offices and PBXs, consistent with reasonable cost. They are intended to establish an effective preventive maintenance program as outlined in the particular CMP.

TABLE A

ETLs THAT HAVE BEEN ISSUED

MISCELLANEOUS APPARATUS

GENERIC	SECTION	ISSUE	TITLE
1	024-001-011†	7	Amplifiers
2	024-001-012†	1	Controllers and Control Units
3	024-001-013†	1	Regulators
4	024-001-014†	1	Electron Tubes
5	026-001-011†	9	Rotary Selectors
6	026-001-012†	1	Miscellaneous Selectors
7	026-001-013†	1	Fuses
8	026-001-014†	1	Starters and Compensators
9	026-001-015†	1	Circuit Breakers and Contactors
10	028-001-011†	7	Autotransformers
11	028-001-012†	1	Rheostats
12	030-001-011†	7	Selector Switches
13	030-001-012†	1	Calculagraphs, Clocks, Timers
14	030-001-013†	1	Cameras, Photo Processing
15	030-001-014†	1	Counters, Registers, Ticketers
16	030-001-015†	1	Switches
17	032-001-011†	6	Electrolytic Capacitors
18	034-001-011†	9	Recording Equipment
19	034-001-012†	1	Distributors and Teletypewriters
20	040-001-011†	9	Relays
21	065-001-011†	9	Furniture Fixture Appliance
22	069-001-011†	9	Cleaning, Reconditioning Apparatus
23	075-001-011†	6	Tools and Material

POWER SYSTEMS EQUIPMENT

1	155-001-011†	1	Alternators, AC or DC Motor Driven
2	155-001-012†	10	Alternators, Gasoline Engine Driven
3	155-001-013†	10	Alternators, Diesel Engine Driven Manual
4	155-001-014†	1	Alternators, Diesel Engine Driven Automatic
5	155-001-015†	7	Alternators, Gas Turbine Engine Driven
6	155-001-016†	5	Main Control Cabinet
7	155-001-017†	1	Charging Generators
21	155-001-018†	1	Ringing and Coin Coin Control Generators
8	157-001-011†	1	C. O. Batteries PBX
9	157-001-012†	1	General Batteries
10	159-001-011†	1	Gasoline Engines
11	159-001-012†	3	Motors
12	159-001-013†	1	Drives
13	161-001-011†	1	Air Dryers and Compressors
14	161-001-012†	3	Dehydrators and Waveguide Pressure Systems
15	161-001-013†	9	Exauster Sets and Fans
16	161-001-014†	9	Air Blowers, Tube Cooling Systems and Ventilation Equipment
17	161-001-015†	7	Converters
18	161-001-016†	1	Inverters

TABLE A (Contd)

ETLs THAT HAVE BEEN ISSUED

GENERIC	SECTION	ISSUE	TITLE
19	163-001-011†	1	Interrupters
20	163-001-012†	1	Ringng Sets
22	163-001-013†	9	Ringng and Tone Machine
23	167-001-011†	1	Ringng and Tone Power Plants
24	167-001-012†	1	Power Plants
25	167-001-013†	9	Power Supplies
26	169-001-011†	1	Rectifiers
27	171-001-011†	1	Miscellaneous Equipment

TEST EQUIPMENT

104-001-011	Radio Test Equipment
106-001-011	Electrical Test Equipment — Outside Plant
107-001-011	Data and Teletypewriter Equipment

MISCELLANEOUS EQUIPMENT

1	100-001-011†	8	Test Equipment
2	103-001-011†	8	Transmission Test Equipment
3	179-001-011†	9	Signaling Circuits
4	201-001-011†	10	Distributing Frames
5	201-001-012†	1	Sequence Signal Circuit
6	252-001-011†	9	Traffic Data Recording
7	201-001-013†	1	Alarms
8	201-001-014†	1	Recorded Announcement System
9	332-001-012†	1	Echo Suppressor — Compandor
10	201-001-015†	1	Dial Long Line Circuit
11	201-001-016†	1	Coin Station Test Line
12	201-001-017†	1	Video Supervisor Signal Supply
13	201-001-018†	1	PBX Automatic Identifier
14	201-001-020†	1	Billing Systems
15	250-001-011†	7	Traffic Service Position System No. 1
16	250-001-012†	6	Alarms — TSPS No. 1
17	250-001-013†	4	Stored Program Control No. 1A
18	250-001-014†	1	Position, Console, Desk
19	250-001-015†	1	Automatic Intercept System
20	201-001-026†	1	Tone Supply Circuits
21	201-001-021†	1	Order Wire Circuits
22	201-001-022†	1	Group Alerting System
23	201-001-023†	1	Emergency Line Circuit
24	201-001-024†	1	Operator Training Equipment
25	201-001-025†	1	Miscellaneous Communication System Circuits

TABLE A (Contd)

ETLs THAT HAVE BEEN ISSUED

GENERIC	SECTION	ISSUE	TITLE
NO. 4A AND 4M TOLL SWITCHING SYSTEMS			
1	212-001-011†	1	Decoders and Card Translators
2	212-001-012†	7	Links and Connectors
3	212-001-013†	11	Link Controllers and Markers
4	212-001-014†	10	Senders and Registers — 4A
5	212-001-015†	9	Senders and Registers — 4M
6	212-001-016†	11	Traffic Administration Circuits
7	212-001-017†	11	Intertoll Trunks
8	212-001-018†	11	Toll Connecting Trunks
9	212-001-019†	10	Transmission Trunks
10	212-001-020†	7	Operator Trunks
11	212-001-021†	1	Other Miscellaneous Trunks
12	212-001-022†	1	Announcement Trunks
13	212-001-023†	1	CAMA Equipment
14	212-001-024†	1	ETS and SPCC
15	212-001-025†	1	Test and Miscellaneous Frames
16	212-001-026†	1	Miscellaneous Fuse Alarms

SWITCHING SYSTEMS

205-001-011	Automatic Data Test Circuits
210-001-011	Service Observing Desks — No. 12 and Modified No. 7
210-001-012	Answering Time Recorders
210-001-013	Information and Toll Directory Desks
211-001-012	Common to More Than One Toll Office or Toll Switchboard
211-001-013	No. 1 Toll Office and Toll Switchboard
211-001-014	No. 3 Toll Office and Toll Switchboard
211-001-015	No. 5 Toll Switchboard
211-001-016	No. 6 Toll Switchboard
211-001-017	No. 6A Teletypewriter Switchboard

PANEL OFFICES

215-001-012	Alarms
215-001-013	ANI
215-001-014	Code Compressors — 3-Digit Translators
215-001-015	Districts
215-001-016	Finals
215-001-017	Incomings
215-001-018	Line Finders, Trunk Finders
215-001-019	Links
215-001-020	Miscellaneous
215-001-021	Office Selectors
215-001-022	Senders, Sender Links, Decoders, Decoder Connectors
215-001-023	Switchboard Circuits

TABLE A (Contd)

ETLs THAT HAVE BEEN ISSUED

GENERIC	SECTION	ISSUE	TITLE
	215-001-024		Traffic Registers
	215-001-025		Transmission
	215-001-026		Trunks

NO. 1 CROSSBAR EQUIPMENT

1	216-001-011†	1	Alarms
2	216-001-012†	7	Fuse Alarms
3	216-001-013†	10	AMA
4	216-001-014†	4	ANI
5	216-001-015†	4	Code Compressor
6	216-001-016†	4	District Junctor
7	216-001-017†	6	Links and Connectors
8	216-001-018†	7	Line Controls and Connectors
9	216-001-019†	5	Markers and Connectors
10	216-001-020†	7	Miscellaneous Markers and Connectors
11	216-001-021†	4	Senders Terminating
12	216-001-022†	5	Senders Originating
13	216-001-023†	7	Sender Links
14	216-001-024†	4	Switchboard Circuits
15	216-001-025†	8	Test Frames
16	216-001-026†	1	Trunks

NO. 5 CROSSBAR OFFICES – AUTOMATIC CALL DISTRIBUTION

1	218-005-011†	1	Connectors and Links
2	218-005-012†	3	Markers and Registers
3	218-005-013†	3	Miscellaneous Features and Common Equipment
4	218-005-014†	3	Trunks

NO. 5A CROSSBAR EQUIPMENT

1	218-003-011†	1	Connectors and Links
2	218-003-012†	2	Markers
3	218-003-013†	2	Registers and Senders
4	218-003-014†	3	Trunks
5	218-003-015†	3	Trunk Transmission
6	218-003-016†	4	Miscellaneous Circuits
7	218-003-017†	2	ANI Equipment

CROSSBAR TANDEM EQUIPMENT

1	220-001-011†	1	Common Equipment
2	220-001-012†	7	Senders
3	220-001-013†	7	Incoming Trunks
4	220-001-014†	5	Test Frames
5	220-001-015†	4	Test Frames and Miscellaneous

TABLE A (Contd)

ETLs THAT HAVE BEEN ISSUED

GENERIC	SECTION	ISSUE	TITLE
6	220-001-016†	9	Fuse Alarms
7	220-001-017†	8	CAMA Equipment
8	220-001-018†	7	No. 100A Traffic Service Position
9	220-001-019†	1	Outgoing Trunks

NO. 1 ESS EQUIPMENT

1	231-001-011†	1	2-Wire System
2	231-001-012†	7	4-Wire System
3	231-001-013†	7	2-Wire Alarms
4	231-001-014†	7	4-Wire Alarms

NO. 5 CROSSBAR OFFICES – OFFICES WITH MASTER TEST FRAME

1	218-001-011†	1	Connectors and Links
2	218-001-012†	10	Markers
3	218-001-013†	11	Registers
4	218-001-014†	10	Senders
5	218-001-015†	10	AMA-ANI
6	218-001-016†	9	Intraoffice Trunks
7	218-001-017†	11	Interoffice Trunks
8	218-001-018†	10	1-Way Toll Trunks
9	218-001-019†	11	2-Way Toll Trunks
10	218-001-020†	11	Miscellany Trunks
11	218-001-021†	10	Junctors
12	218-001-022†	7	Miscellaneous Equipment – Feature Circuits
13	218-001-023†	1	Miscellaneous Equipment – Common Items
14	218-001-024†	1	Miscellaneous – TRF REG and ALM
15	218-001-025†	1	Miscellaneous Maintenance and Emergency
16	218-001-026†	1	Miscellaneous Equipment – Supply
17	218-001-027†	1	Centrex
18	218-001-028†	1	Centrex Trunks
19	218-001-029†	1	Wideband Circuits
20	281-001-030†	1	Wideband Trunks

NO. 5 CROSSBAR OFFICES – OFFICES WITH OFFICE TEST FRAME

1	218-002-011†	1	Connectors, Links and Markers
2	218-002-012†	11	Markers
3	281-002-013†	9	Registers
4	218-002-014†	10	Senders
5	218-002-015†	10	AMA – ANI
6	218-002-016†	10	Intraoffice Trunks
7	218-002-017†	11	Interoffice Trunks
8	218-002-018†	1	1-Way Toll Trunks
9	218-002-019†	1	2-Way Toll Trunks
10	218-002-020†	1	Miscellany Trunks
11	218-002-021†	1	Junctors

TABLE A (Contd)

ETLs THAT HAVE BEEN ISSUED

GENERIC	SECTION	ISSUE	TITLE
12	218-002-022†	1	Miscellaneous Equipment Feature
13	218-002-023†	1	Miscellaneous — TRF REG and ALM
14	218-002-024†	1	Miscellaneous Equipment Common Items
15	218-002-025†	1	Miscellaneous and Emergency Action Items
16	218-002-026†	1	Miscellaneous Equipment Supply

NO. 3 CROSSBAR OFFICES

218-004-012	Connectors and Links
218-004-013	Markers
218-004-014	Registers and Senders
218-004-015	Trunks
218-004-016	Miscellaneous

COMMUNITY DIAL OFFICES — NO. 1 SXS

225-001-012	Line Switch and Plunger Type Out Trunk Switch Offices
225-001-013	350A Step-by-Step Offices
225-001-014	355A Community Dial Offices
225-001-015	356A Community Dial Offices
225-001-016	360A Community Dial Offices
225-001-017	35-E-97 Community Dial Offices
225-001-018	375A and 375B Community Dial Offices
225-001-019	North Electric Company CX-Type Community Dial Offices

NO. 1 STEP-BY-STEP OFFICES

226-001-012	Line Finders, Trunk Finders, and Associated Circuits
226-001-013	Selectors
226-001-014	Connectors
226-001-015	Pulse Repeaters and Out-Trunk Switches
226-001-016	Trunks and Trunk Circuits
226-001-017	Alarms
226-001-018	Traffic Registers
226-001-019	Miscellaneous Equipment

INTERTOLL DIALING, CAMA, AMA, ANI, TT CALLING AND COMMON CONTROL — SXS OFFICES

227-001-012	Intertoll Dialing Equipment
227-001-013	AMA Equipment
227-001-014	CAMA Equipment
227-001-015	ANI Equipment
227-001-016	TOUCH-TONE® Calling Equipment — Not Adaptable for Common Control
227-001-017	Common Control Equipment — for TOUCH-TONE® Calling and for Controlled Outpulsing

TABLE A (Contd)

ETLs THAT HAVE BEEN ISSUED

GENERIC	SECTION	ISSUE	TITLE
		NO. 2 ESS	
	232-001-011		No. 2 ESS ETL
		NO. 3 ESS	
	233-001-011		No. 3 ESS ETL
		NO. 4 ESS	
	234-001-011		No. 4 ESS ETL
		NO. 101 ESS	
	240-001-011		Control Unit
	240-001-012		No. 1A Switch Unit
	240-001-013		No. 2A Switch Unit
	240-001-014		No. 3A and 4A Switch Units

TRANSMISSION SYSTEMS AND TESTING

309-001-011	Switched Services Networks
310-001-011	Nonswitched Special Services Systems
311-001-011	Switched Special Services Systems
312-001-011	Private Line Data Systems and Services
314-001-011	Digital and Analogue Data Transmission Systems
318-001-011	Television Systems
320-001-011	Program Transmission Systems and Services
332-001-011	Voice Frequency Telephone Repeaters Pilot Wire Regulators, Echo Suppressors, Composite Sets and Associated Equipment
333-001-011	Overall Signaling Arrangements and Testing
340-001-011	PICTUREPHONE [®] Services Baseband Video Transmission
354-001-011	Frequency Generating Systems
355-001-011	K Carrier Telephone Systems and Associated Equipment Components
356-001-011	K and L Multiplex Terminals
357-001-011	Wire Line Entrance Links and Broadband Entrance Links and Interconnection
358-001-011	Type L1 Carrier Telephone System and Associated Equipment Components
359-001-011	L3, L4, and L5 Carrier
360-001-011	Maintenance Center Test — Equipment Components
361-001-011	Type L1 and L3 Carrier Telephone Systems Service Center Tests — Type N, O, and ON Carrier Systems

TABLE A (Contd)

ETLs THAT HAVE BEEN ISSUED

GENERIC	SECTION	ISSUE	TITLE
	362-001-011		Type N, O, and ON Carrier Telephone Systems and Associated Equipment Components
	365-001-011		Digital Transmission Systems
	371-001-011		Broadband Restoration

N. O. ON CARRIER EQUIPMENT

1	362-001-011†	10	N1 Carrier
2	362-001-012†	1	N2 Carrier
3	362-001-013†	1	N, O, ON Carrier Equipment
4	362-001-014†	1	O, ON, O-H, ON-H Carrier System

DIGITAL TRANSMISSION SYSTEMS

1	365-001-011†	10	D Channel Banks By End Office
2	365-001-012†	1	D Channel Banks By Frame
3	365-001-013†	1	Repeatered Lines — End Office
4	365-001-014†	1	Repeatered Lines — Intermediate Offices
5	365-001-015†	1	Fault Locating Lines — Intermediate Office
6	365-001-016†	1	T1 Auto Standby Unit
7	365-001-017†	1	Digital Multiplex
8	365-001-018†	1	Wideband Data
9	365-001-019†	1	Digital Line

RADIO

402-001-011	Antennas, Transmission Lines, and Wave Guide
404-001-011	Manual Mobile Radio
405-001-011	MJ, MK, and ML Mobile Radio-Telephone
406-001-011	Air-Ground Radio
407-001-011	Personal Radio Services
408-001-011	Motorola, RCA, Federal, REL, Narrowband Auxiliary Channel and Other Non-Western Electric Microwave Radio, and TV Off-the-Air Pick-up Services
409-001-011	TE, TJ, TL, TM, and Microwave Radio and Short Haul Radio Systems
410-001-011	TD-2 Microwave Radio
411-001-011	TD-3 Microwave Radio
412-001-011	TH-1 Microwave Radio
413-001-011	TH-3 Microwave Radio
415-001-011	TD-3D Microwave Radio
416-001-011	TN-1 Microwave
420-001-011	Microwave Radio — Common Equipment

TABLE A (Contd)

ETLs THAT HAVE BEEN ISSUED

GENERIC	SECTION	ISSUE	TITLE
SPECIAL SERVICES FORCE ADMINISTRATION DATA SYSTEM (FADS)			
	476-001-011	No. 2A ACD	
	476-001-013	No. 3A ACD	
PRIVATE BRANCH EXCHANGES (PBX)			
	534-001-011	Sections Applying to More Than One PBX Series — 500, 600, and 700 Series — Manual and Dial PBX, and Automatic Number Identifying (ANI) Equipment	
	536-001-011	500 Series PBX	
	538-001-011	600 Series PBX	
	540-001-011	700 Series Step-By-Step and Crossbar Type PBX	
	540-001-013	Step-By-Step Centrex CU and Step-By-Step PBX TOUCH-TONE® Equipment and Circuits	
	541-001-011	700C and 710C PBX	
	542-001-011	701 and 711-Type PBX	
	543-001-011	702A PBX	
	546-001-011	740-Type PBX	
	548-001-011	750A PBX	
	550-001-011	755A PBX	
	551-001-011	756A PBX	
	551-001-012	757A PBX	
	551-001-014	758A and 758B PBX	
	551-001-015	758C PBX	
	551-001-017	761 and 770 PBX	
TEST CENTER OPERATION			
	660-001-011	Test Center Operation	
	662-001-011	Cable and Local Test Desks and Local Test Cabinets	
	664-001-011	Test Boards for Other than Special Services	
	666-001-011	Test Boards for Test Positions for Special Services	
	668-001-011	Data Test Center	
	770-001-011	Toll Type Equipment — Building Operation	

† Denotes that ETL has been issued in the new format.

TABLE B

BELL SYSTEM PRACTICES APPLYING TO SYSTEMS WITH
CMPs BUT NOT INCLUDED IN ANY ETLs

SECTION NO.	SUBJECT
LINE CONCENTRATORS	
067-105-501	(534-001-010) — No. 1A Concentrator — Preinstallation Tests
067-105-502	No. 1A — System Tests
067-106-502	No. 1A — With MF Signaling — System Tests
067-109-502	No. 2A — System Tests
067-110-502	No. 2B — System Tests
067-201-501	Gfeller Line Concentrator — Tests
067-201-502	Gfeller Line Concentrator — Tests
067-201-701	Gfeller LC-49-9-2, 49-11+1-2, 49-12-2 — Apparatus Requirements and Adjusting Procedures
067-201-801	Gfeller LC — Maintenance Tests
067-301-501	No. 520A Type PBX — Emergency Reporting System — Operating Tests
067-302-501	Line Concentrator Associated w/No. 520 Type PBX — Tests Using Test Ckt. SD-98067-01
067-302-502	L. C. A/W Controller Ckt. Tests Using T. C. SD-98067-01
067-302-503	L. C. A/W 520 PBX — OGT Ckts. — Operator Tests
067-303-501	Long Line Ckts. Assoc. /520 PBX — Tests
067-304-501	Selective Routing Ckts. Used w/Direct Lines Assoc. w/520 PBX — Tests

PBX AND STATION TEST EQUIPMENT**Stations**

105-240-100	No. 81A Test Set — Operation Tests
PBX Test Equipment	
105-600-501	Solid State Converter and Receiver Test Set SD-66890-01 — Operation Tests

CUSTOMER EQUIPMENT**MISCELLANEOUS**

463-110-200	Aux. Signals — Installation & Maintenance
463-120-100	Power Relay Sets — Maintenance
463-220-100	Loudspeaker Sets — 106 Type — Maintenance
463-230-300	Recorder Connectors — 50 Type & Assoc. KS-16730, L-1 — Maintenance
463-230-400	Recorder — Connectors — KS-19645, L-1, L-2 — Maintenance
463-233-300	KS-19522, L-1, and L-2 Recorder Couplers, KS-19522, L-11 Voice Control Unit, and KS-19522, L-12 Test Set — Maintenance
463-234-100	KS-19522, L-1 and L-2, Recorder Couplers Used With KS-16765, L-1 Announcement Set — Maintenance
463-236-100	KS-20445 Control Unit — Operating Tests and Maintenance
463-300-101	Interconnecting Unit F-58003 and Assoc. F-58004 KTU and F-58015 Console — Maintenance
463-300-110	I Control Unit F-58010 — Maintenance
463-300-120	I Control Unit F-58005 — Maintenance
463-300-130	Voice Coupler F-58008 — Maintenance

TABLE B (Contd)

BELL SYSTEM PRACTICES APPLYING TO SYSTEMS WITH
CMPs BUT NOT INCLUDED IN ANY ETLs

SECTION NO.	SUBJECT
463-300-131	Voice Coupler F-57948 and 30A — Maintenance
463-300-140	Interconnecting Key Telephone Unit F-58006 — Maintenance
463-300-150	Interconnecting Key Telephone Unit F-58007 — Maintenance
463-300-161	PBX Trunk Interconnecting Arrangement (2-Way Ground Start) — Maintenance
463-300-170	PBX Tie Trunk Interconnecting Arrangement (2-Way Dial Repeating) — Maintenance

SPECIAL SERVICES

Protection of Service, Code Calling, Recorded Telephone Dictation, Answering Systems, and Transmitter Transfer

473-105-501	SD-1E031-01 — Circuits Tests and Adjustments
473-115-300	1A and 1B Code Calling Systems — Maintenance
473-120-520	2A Code Calling System — Circuit Tests
473-121-520	3A Code Calling System — Operation Tests
473-130-501	Recorded Telephone Dictation Trunks SD-65728-01 and SD-65788-01 — Operation Tests
473-169-511	Dispatching Service — 508A PBX — Circuit Tests
473-180-520	Message Waiting Service — Circuit Tests
473-185-210	Transmitter Transfer Unit — Maintenance
473-218-210	520 Type PBX — Direct Line and Concentrator Systems — Tests and Inspection at Time of Installation
473-218-500	Alarm Circuit SD-98053-01 — Operation Tests
473-218-520	Call Recording Circuits — Operation Tests
473-218-525	Cord and Position Circuits — Tests and Inspections
473-218-610	Display Control Circuit SD-98060-01 and Number Display Control Circuit SD-98128-01 — Operation Tests — Concentrator System
473-218-630	Paging Line and Status and Annunciator Circuits — Operation Tests
473-218-655	Selective Routing Circuits Used With Direct Lines — Operation Tests
473-218-660	Station Line Circuits and Flash and Wink Circuits — Operation Tests
473-218-661	Long Line Circuit SD-99545-01 — Operation Tests
473-218-665	Central Office Trunk Circuits — SD-99362-01 and SD-98051-01 — Operation Tests
473-219-330	Industrial Reporting System — Method of Operation
473-219-500	Industrial Reporting System — Circuit Tests

Manual PBX (Other Than 520-Type)

473-228-540	Key Ended Lines — (Terminated in Turret) — Operation Tests
473-228-541	Jack Ended Lines — (Separate from PBX) — Operation Tests
473-228-543	Jack Ended Lines — Operation Tests — 551A, 551B, 551D, 552A, 552B, 552D, 552E, 555, 604C, and 605A PBX

Station Equipment Arrangements

473-310-100	Public Emergency Reporting Systems — Identification, Installation, Connections, and Maintenance
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TABLE B (Contd)

**BELL SYSTEM PRACTICES APPLYING TO SYSTEMS WITH
CMPs BUT NOT INCLUDED IN ANY ETLs**

SECTION NO.	SUBJECT
Customer Training Equipment	
473-401-100	KS-21102 Business Phone Trainer — Description and Maintenance
473-401-101	KS-21564 Business Phone Trainer — Description and Maintenance
473-411-100	KS-16605 Teletrainer — Description and Maintenance
Telephone Answering Systems — Sections Common to Customer and Central Office Equipment	
473-500-101	KS-21056 Test Set (SD-99608-01) — Used With Line Concentrator-Identifier Systems — Description, Calibration, and Operation
473-500-501	Tone Signaling Circuit SD-99556-01 (J59202) — Used With Line Concentrator-Identifier Systems-Tests and Adjustments
473-501-201	Line Concentrator-Identifier System — Applied to Telephone Secretarial Service — Tests and Inspections at Time of Installation
473-501-202	Line Concentrator-Identifier (J93021) — Used With Electromechanical Central Offices — Tests and Inspections at Time of Installation Using Test Set KS-21056
473-501-501	Line Concentrator-Identifier System — Applied to Telephone Secretarial Answering Service — Circuit Tests and Trouble Analysis
473-501-502	Line Concentrator-Identifier (J93021) — Used With Electromechanical Central Offices — Circuit Tests and Trouble Analysis Using Test Set KS-21056
473-503-100	Occasional Service System (J99317) for Use With Telephone Answering Systems — Description and Operation Information
473-505-201	Line Concentrator (J93022) — Identifier (J93021) — For Use With No. 1 Electronic Switching System (No. 1 ESS) — Tests and Inspections at Time of Installation
473-505-202	Line Concentrator (J93022) — Identifier (J93021) — Used With No. 1 and No. 2 Electronic Switching Systems — Tests and Inspections at Time of Installation Using Test Set KS-21056
473-505-501	Line Concentrator (J93022) — Identifier (J93021) — For Use With No. 1 Electronic Switching System (No. 1 ESS) — Circuit Tests and Trouble Analysis
473-505-502	Line Concentrator (J93022) — Identifier (J93021) — Used With No. 1 and No. 2 Electronic Switching Systems — Circuit Tests and Trouble Analysis Using Test Set KS-21056
Telephone Answering Systems — Sections Covering Customer Equipment	
473-601-210	Tests and Inspections at Time of Installation — 557A PBX
473-601-501	Circuit Tests for Secretarial Answering Service — 557A PBX
473-602-210	Tests and Inspections at Time of Installation for Secretarial Answering Service — 557B PBX
473-602-501	Circuit Tests for Secretarial Answering Service — 557B PBX
473-607-501	Occasional Service Circuit — SD-96605-01 and SD-96606-01 — For Telephone Answering Systems — Operation Tests (Performed at Telephone Answering Bureau)
473-675-201	100A Telephone Answering System — Identification, Installation, Operation, Connections and Maintenance

TABLE B (Contd)

BELL SYSTEM PRACTICES APPLYING TO SYSTEMS WITH
CMPs BUT NOT INCLUDED IN ANY ETLs

SECTION NO.	SUBJECT
	Telephone Answering Systems – Sections Covering Central Office Equipment
473-703-501	Occasional Service Circuit – SD-96605-01 and SD-96606 -01 – For Telephone Answering Systems – Operation Tests (Performed at Central Office)
	CALL DISTRIBUTING SYSTEM NO. 1S, INFORMATION DESKS, AND ORDER TURRETS – CUSTOMER EQUIPMENT
	No. 1S Automatic Call Distributing System
475-100-520	Circuit Tests
	No. 1, 2, 2A and 4 Order Turrets
475-200-300	Order Turret – No. 1 – Tests and Adjustments
	No. 3 Order Turret
475-300-310	Alarms – Method of Tracing
475-300-320	Method of Taking Equipment Out of Service
475-300-505	Allotter Circuit and Associated Alarm and Registers – Tests and Inspections
475-300-507	Attendant Telephone and Trunk Circuits – Operation Tests
475-300-520	Calls Waiting Signal and Register Circuit – Tests and Inspections
475-300-655	Start Circuit and Associated Alarm Circuit – Tests and Inspections
475-300-665	Incoming Trunks – Incoming Trunk Selector Control Circuit – Operation Sets
	No. 6A Order Turret
475-600-310	Alarms – Method of Tracing
475-600-500	Alarm and Common Group Circuits – Tests and Inspections
475-600-507	Attendant Trunk and Position Circuits – Operation Tests – PBX Information Desk
475-600-664	Night Service Trunk Circuit SD-5E036-01 – Operation Test
475-600-665	Trunk Finders – Operation Tests
475-600-666	Incoming Trunks – Operation Tests – PBX Information Desk
475-600-667	Overflow Trunk Circuit SD-5E033-01 – Operation Tests
475-600-669	Overflow Control Circuit SD-5E026-01 – Operation Test
	PRIVATE SERVICE SYSTEMS – CUSTOMER EQUIPMENT
480-010-100	4-Wire Private Line Circuit – Powered From Central Office SD-69902-01 – Identification, Connections, and Tests
	Crash Alarm and Command Conference Systems
480-139-500	Crash Alarm Circuits – Operation Tests – 551A, 551B, 551D, 604C, 605A, 701A and 711A PBX
480-139-501	Crash Alarm Circuits – Arranged for Continuous Test of Station Lines – Operation Tests – 701A or 711A PBX
480-139-520	Command Conference Circuits – Operation Tests – 605A, 701A, and 711A PBX

TABLE B (Contd)

BELL SYSTEM PRACTICES APPLYING TO SYSTEMS WITH
CMPs BUT NOT INCLUDED IN ANY ETLs

SECTION NO.	SUBJECT
	Civil Defense Warning (CDW) System – Station Equipment
480-210-200	Bell and Lights – Installation and Maintenance
	Group Alerting System – Station Apparatus
480-310-200	Installation and Maintenance
	Sage Systems – 112A Key Equipment and SAC Main Operating Base Turret
480-510-106	Addressable Data Station Switching – Circuit SD-1G244-01, and Site Control Circuit SD-1G246-01 – Maintenance
480-520-501	SAC Main Operating Base Turret – Lineup and Overall Tests
	Preemption Tone Detector (AUTOVON) – Customer-Provided PBX or Station
480-611-100	Identification, Connections, Maintenance
	Switching Systems – Customer Equipment
480-707-501	No. 302 – Tests, Inspections, and Lineup
480-708-501	No. 301A – Lineup and Overall Tests
480-710-501	No. 300 – Overall Tests Using J53026BN Portable Test Box or J53026EW Portable Test Set Equipped With Dial Pulse Counter
480-711-500	No. 304 – Overall Tests
480-713-500	No. 306 – Lineup and Overall Tests
480-714-501	No. 307 – 4-Wire CO Line Circuit Unit – Maintenance Tests
480-714-302	No. 307 – Line Transfer Circuit Unit – Maintenance Tests
480-714-303	No. 307 – Sequence Circuit Unit – Maintenance Tests
480-714-304	No. 307 – Dual Access Switch – Maintenance Tests
480-714-305	No. 307 – 2626A1 Key Telephone Set – Maintenance Tests
480-714-306	No. 307 – Alarm Circuit – Maintenance Tests
480-714-500	No. 307 – Station Test Procedures
480-714-501	No. 307 – Out-of-Service Test – Procedures for High-Speed Send/Receive (HS S/R) Station
480-716-200	No. 309 – Identification, Installation, Connections, and Tests and Inspections During Installation
480-716-501	No. 309 In-Service Operational Tests
480-717-300	No. 310 Console – Method of Operation
480-717-500	No. 310 – Lineup and Overall Tests
	PBX Access Lines – AUTOVON
480-801-500	812A – Initial Lineup and Maintenance Tests

**POWER SYSTEMS
EQUIPMENT TEST LIST
FOR
POWER PLANTS
LOCATED ON CUSTOMER OR TELEPHONE CO PREMISES**

SEE SECTION 010-300-011 FOR EQUIPMENT TEST LIST INSTRUCTION.

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Fig. 1—Illustration of Old Format ETL (1.07)

SECTION 167-001-013, ISS 8

EQUIPMENT TEST LIST						
B.S.P.	ISS	TEST OR REQ.	EQUIPMENT AND WORK DESCRIPTION	CLASS	FREQ.	JOB NO.
167-208-301	1		102G J86802 POWER PLANT			
		3.09	Boost Charge	MW	12M	
		4.01	Float Voltage	MW	M	
		4.02	Check Fuse Alarm	MW	12M	
		4.03	Check HLV Alarm	MW	12M	
167-210-301	5		105D J86446			
& ADDENDUM	3		POWER PLANT			
		3.13	Calibrate Voltmeter Relay	MW	12M	
		4.04	Check Float Voltage	MW	M	
		4.05	Check CEMF Operation Where Used	MW	3M	
		4.06	Check Low-Voltage Alarm	MW	12M	
		4.07-	Check TD Relay Operation	MW	12M	
		4.09	Where Used			
		4.10	Check High-Voltage Alarm	MW	12M	
		4.11	Check Discharge Fuse Alarm	MW	12M	
167-210-302	4		105E J86814			
& ADDENDUM	1		POWER PLANT			
		4.02	Check Fuse Alarm	MW	12M	
		4.03	Check Float Voltage Alarm	MW	12M	
		4.04	Check Float Voltage	MW	M	
167-215-301	9		110A AND 110B PLANTS J86572 AND J86455			
		4.02	Check Condition of KS-7105 Grid Battery	MW	6M	
		4.03	Check Panel Voltmeter	MW	12M	
		4.04	Check Regulator Float Voltage Adjustment	MW	M	
		4.05	Check Regulator Charge Voltage Adjustment	MW	M	
		4.06	Check Transfer of Load	MW	3M	
		4.07	Check for Regulation Tube Failure	MW	6M	
		4.08	Check for Power Failure Operation	MW	6M	
		4.09	Check for Rectifier Electron Tube Failure	MW	6M	
		4.10-	Check Discharge	MW	3M	
		4.12	Circuit Operation			
		4.13	Check Rectifier Fuse Alarm Operation	MW	12M	
		4.14	Check Discharge Fuse Alarm Operation	MW	12M	
		4.15	Check High-Low Voltage Alarm Operation	MW	12M	
		4.16	Check Regulation Alarm Operation	MW	12M	
			(110A 24-Volt Plant)			

Page 2

Fig. 2—Illustration of Old Format ETL (1.07)

SECTION 167-001-013, ISS 8

EQUIPMENT TEST LIST						
B.S.P.	ISS	TEST OR REQ.	EQUIPMENT AND WORK DESCRIPTION	CLASS	FREQ.	JOB NO.
167-215-301	9		(Cont)			
		4.17	Check Indicating Alarm Operation	MW	12M	
			(110B 24-Volt Plant)			
167-217-301	10		111A POWER			
			PLANT J86470			
		4.04	Check Battery Voltage	MW	M	
		5.03	Operation of Contactor	MW	3M	
		5.04	Check Fuse Alarms	MW	12M	
		5.05	Check Rectifier Failure Alarm	MW	12M	
		5.06	Check High- and Low-Voltage Alarms	MW	12M	
		5.07	Check Countercell Failure Alarm	MW	12M	
		5.08	Operation of Countercell Control Circuit	MW	12M	
		5.09	Check Rectifier Current Limiting	MW	12M	
		5.10	Panel Voltmeter Accuracy Check	MW	12M	
167-255-301	7		806D (J86596) POWER PLANT			
		4.01	Transfer Load	MW	W	
		4.02	Check Plant Alarms and Transfer Circuits	MW	6M	
		4.03	Check and Switch Batteries	MW	3M	
		4.04	Check Ringing Machines	MW	6M	
		4.05	Check Low and High Tones	MW	W	
167-276-301	2		671A POWER PLANT (J86880) OPERATING METHODS			
		4.03	Output Voltage Check	MW	6M	
		4.04	Meter Accuracy Check	MW	12M	
		4.05	Load Distribution Fuse Alarm Check	MW	6M	
		4.06	Plant Capacitor ^a Fuse Alarm Check	MW	6M	
		4.07	Converter Failure Alarm Checks	MW	6M	
		4.08	±48 Volt Bus Low-Voltage Alarm Check	MW	6M	
167-277-301	1		680A POWER PLANT			
& ADDENDUM	1		J86891A AND J86891B			
		4.01	Clean Ventilating Passages	MW	12M	
		4.02	Line Feed Converter Output Check	MW	M	
		4.03	Line Feed Bay Ground Voltage Check	MW	M	
			(Equipped With Floating Ground Panel)			
		4.04	Converter OUTPUT CURRENT (M1)	MW	6M	
			Ammeter Calibration Check			
		4.05	Converter OUTPUT VOLTAGE (M2)	MW	6M	
			Voltmeter Calibration Check			

Page 3

Fig. 3—Illustration of Old Format ETL (1.07)

EQUIPMENT TEST LIST
1-WAY TOLL TRUNKS
OFFICES WITH MASTER TEST FRAME
NO. 5 CROSSBAR SYSTEMS

CONTENTS	PAGE	
8. GENERAL	1	applicable to equipment listed in the preceding table of contents. Test classification and frequency of periodic routine are also provided.
8.0 1-WAY TOLL TRNKS	2	
8.1 INC INTERTOLL	2	8.02 This is the first issuance of the "reformatted ETL" which provides better organization of the various tests. The "reformatted ETLs" replace the ETLs previously provided for this equipment.
8.2 INC INTERTOLL	2	
8.3 OG INTERTOLL	2	
8.4 ONA OG INTERTOLL	3	8.03 Comments on this section should be made by following the instructions in Bell System Practices (BSP), Section 000-010-015.
8.5 OG INTERTOLL	4	
8.6 AUX OUTGOING	4	8.04 Routine test information is arranged in the following order from left to right: Section number, issue/addendum, test letter or paragraph number, test title, test class, frequency, and the last space is for a locally assigned job number.
8.7 TOLL SWITCHING	5	
8.8 INTERTOLL COMPLN	5	
8. GENERAL		8.05 Section 010-300-011 provides Equipment Test List instructions.
8.01 This section provides an index and information access system to locate the standard tests		

NOTICE

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Fig. 4—Illustration of New Format ETL (Sheet 1 of 5) (1.07, 5.06)

SECTION 010-300-011

SECTION 218-001-018

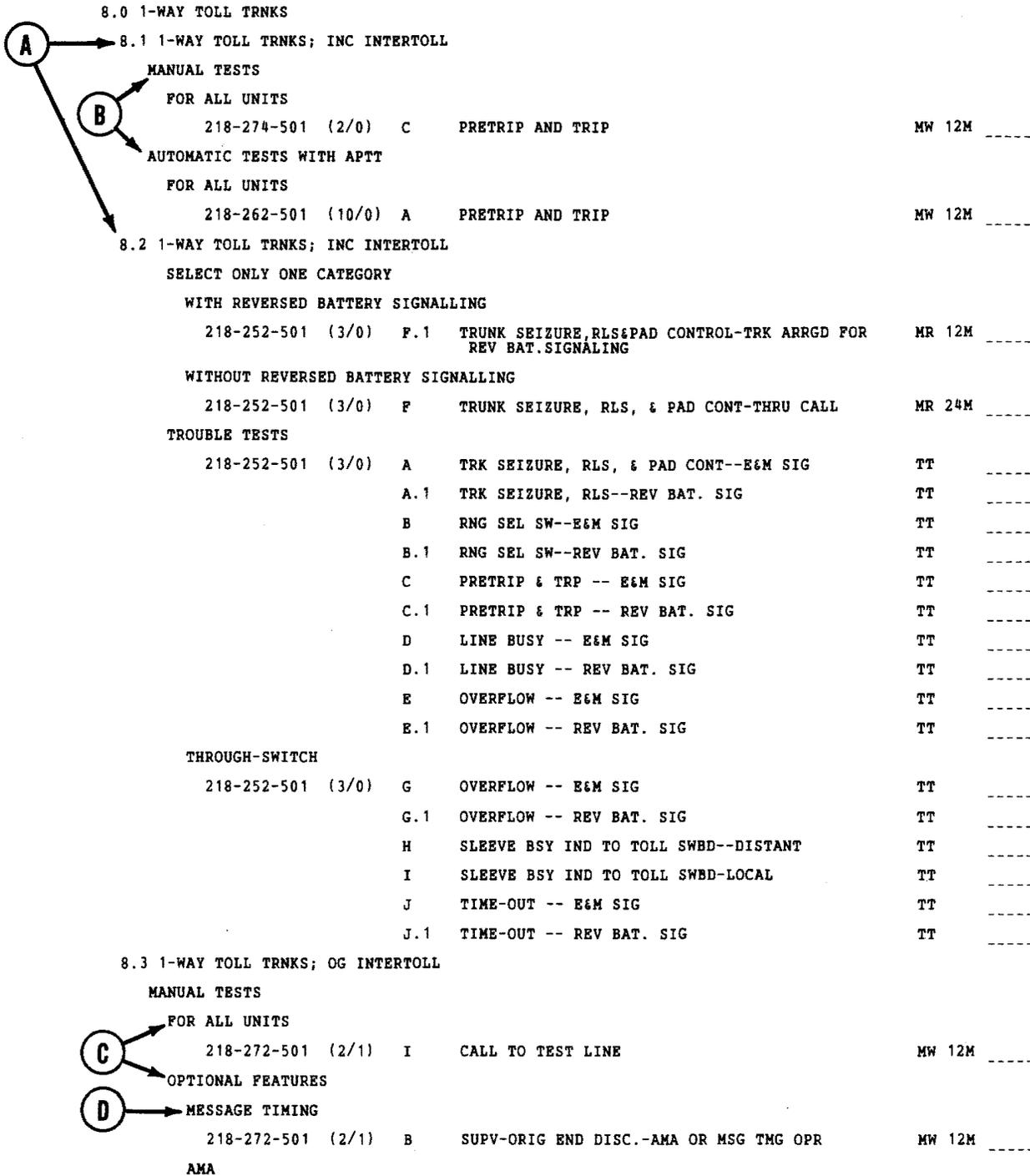


Fig. 4—Illustration of New Format ETL (Sheet 2 of 5) (1.07, 5.06)

218-272-501	(2/1)	B	SUPV-ORIG END DISC.-AMA OR MSG TMG OPR	MW 12M	-----
		D	CANCEL DISCONNECT ENTRY-AMA	MR 24M	-----
AUTOMATIC TESTS WITH APTT					
FOR ALL UNITS					
218-262-501	(10/0)	A	CALL TO TEST LINE	MW 12M	-----
OPTIONAL FEATURES					
AMA					
218-262-501	(10/0)	B	SUPERVISION-ORIG END DISC.	MW 12M	-----
		H	CANCEL DISC. ENTRY	MR 24M	-----
MESSAGE TIMING					
218-262-501	(10/0)	B	SUPERVISION--ORIG END DISC.	MW 12M	-----
8.4 1-WAY TOLL TRNKS; ONA OG INTERTOLL					
MANUAL TESTS					
FOR ALL UNITS					
218-277-506	(2/0)	A	TRUNK SEIZURE AND DISCONNECT	MW 12M	-----
		B	AMA FEATURES (ETS OR LAMA-C NOT PROVIDED)	MR 24M	-----
		E	CALL TO DISTANT OFFICE	MR 12M	-----
		G	AMA FEATURES (ETS OR LAMA-C NOT PROVIDED)	MR 24M	-----
		J	CALL TO DISTANT OFFICE	MW 12M	-----
OPTIONAL FEATURES					
MESSAGE TIMING					
218-277-506	(2/0)	C	TRUNK MESSAGE TIMING (ETS OR LAMA-C NOT PROVIDED)	MR 24M	-----
		H	TRUNK MESSAGE TIMING (ETS OR LAMA-C NOT PROVIDED)	MR 24M	-----
TROUBLE TESTS					
218-277-506	(1/1)	D	TRUNK REORDER	TT	-----
THROUGH-SWITCHED TESTS (TOG)					
218-277-506	(1/1)	F	TRUNK SEIZURE AND DISCONNECT	TT	-----
		I	TRUNK REORDER	TT	-----
MISCELLANEOUS TESTS					
218-277-506	(1/1)	K	TRUNK-BUSY	TT	-----
		L	TONE AND TRANSMISSION SUPPRESSION	TT	-----
		M	PAD CONTROL	TT	-----
		N	CROSS-OFFICE LOCKOUT	TT	-----
		O	OUT OF SERVICE	TT	-----
		P	FALSE-IDLE & FALSE BUSY CONDITIONS (ETS NOT PROVIDED)	TT	-----
AUTOMATIC TESTS WITH APTT					
FOR ALL UNITS					
218-262-501	(10/0)	A	CALL TO DISTANT OFFICE	MR 12M	-----
		BCH	AMA FEATURES	MR 24M	-----

Fig. 4—Illustration of New Format ETL (Sheet 3 of 5) (1.07, 5.06)

SECTION 010-300-011

SECTION 218-001-018

218-262-501	(10/0)	C,F	TRUNK SEIZURE AND DISC.	MW 12M	-----
8.5 1-WAY TOLL TRNKS; OG INTERTOLL					
MANUAL TESTS					
FOR ALL UNITS					
218-268-501	(6/0)	D	CALL TO DISTANT OFFICE	MW 12M	-----
OPTIONAL FEATURES					
ARRANGED FOR AMA					
218-268-501	(6/0)	J	CANCEL DISC. ENTRY-AUX TRK ARR FOR AMA (ETS OR LAMA-C NOT PROVIDED)	MR 24M	-----
ARRANGED FOR SUBSCRIBER ACCESS					
218-268-501	(6/0)	I	CHG & NONCHG SUPV-AUX TRK CKT-CUST ACC	MR 24M	-----
TROUBLE TESTS					
216-268-501	(6/0)	A	TRUNK SEIZURE AND RELEASE	TT	-----
		B	TRUNK OVERFLOW	TT	-----
		C	TRUNK BUSY	TT	-----
		E	PAD CONTROL	TT	-----
		F	TIMED RELEASE	TT	-----
		G	BUSY IND TO TOLL SWDB--TESTING AT RR FR	TT	-----
		H	BUSY IND TO TOLL SWDB--TESTING AT TOLL SWDB	TT	-----
		K	TRK MB & SPLT--REMOTE TEST FROM TLG TST BD	TT	-----
AUTOMATIC TESTS WITH APTT					
FOR ALL UNITS					
218-262-501	(10/0)	A	CALL TO DISTANT OFFICE	MW 12M	-----
OPTIONAL FEATURES					
ARRANGED FOR AMA					
218-262-501	(10/0)	H	CANCEL DISC. ENTRY	MR 24M	-----
ARRANGED FOR SUBSCRIBER ACCESS					
218-262-501	(10/0)	B,C	CHARGE AND NONCHARGE SUPV	MR 24M	-----
8.6 1-WAY TOLL TRNKS; AUX OUTGOING					
MANUAL TESTS					
OPTIONAL FEATURES, SELECT NO MORE THAN ONE CATEGORY					
SWITCHED ACCESS					
218-267-501	(6/0)	B	CALL TO TEST LINE IN DISTANT OFFICE	MW 12M	-----
WITH RINGDOWN INTERTOLL					
218-266-501	(3/0)	B	CALL TO OPERATOR IN DISTANT OFFICE	MR 12M	-----
TROUBLE TESTS					
218-266-501	(2/0)	A	TRUNK SEIZURE AND RELEASE	TT	-----
		C	TRUNK BUSY	TT	-----
		D	BUSY INDICATION FROM TOLL SWITCHBOARD	TT	-----
		E	BUSY INDICATION TO TOLL SWITCHBOARD	TT	-----
		F	PAD ARRANGEMENT	TT	-----

Fig. 4—Illustration of New Format ETL (Sheet 4 of 5) (1.07, 5.06)

218-266-501	(2/0)	G	FALSE-BUSY AND FALSE-IDLE CONDITIONS	TT	-----
218-267-501	(6/0)	A	TRUNK SEIZURE AND RELEASE	TT	-----
		C	CALL TO OPERATOR IN DISTANT OFFICE	TT	-----
		D	OVERFLOW	TT	-----
		E	TRUNK BUSY	TT	-----
		G	FALSE-BUSY AND FALSE-IDLE CONDITIONS	TT	-----
		H	TIMED RELEASE FEATURE--AUX OGT	TT	-----
		I	BUSY INDICATION FROM TOLL SWITCHBOARD	TT	-----
		J	BUSY INDICATION TO TOLL SWITCHBOARD	TT	-----
AUTOMATIC TESTS WITH APTT					
SELECT ONLY ONE CATEGORY					
SWITCHED ACCESS					
218-262-501	(10/0)	A	CALL TO TEST LINE IN DISTANT OFFICE	MW 12M	-----
8.7 1-WAY TOLL TRNKS; TOLL SWITCHING					
MANUAL TESTS					
SELECT ONLY ONE CATEGORY					
SWITCHED ACCESS					
218-267-501	(6/0)	B	CALL TO TEST LINE IN DISTANT OFFICE	MW 12M	-----
OPERATOR ACCESS					
218-254-501	(5/0)	A	CALL TO INCOMING TRUNK TEST LINE	MW 12M	-----
		B	RINGING	MW 12M	-----
TROUBLE TESTS					
218-254-501	(6/0)	C	RERING--TRUNKS ARR FOR CONT START OF RING	TT	-----
		D	COIN CONTROL	TT	-----
		E	CALL TO BUSY LINE	TT	-----
OPR COMP TRKS ARR FOR LOCAL & TANDEM COMP OR TANDEM COMP & OPERATOR JUNCTORS					
218-254-501	(6/0)	G	OVERFLOW	TT	-----
		H	TRUNK IDLE OR TRUNK BUSY LAMP INDICATIONS	TT	-----
		I	TRUNK GROUP BUSY	TT	-----
		J	SLEEVE BUSY INDICATION AT SWITCHBOARD	TT	-----
		K	TRUNK BUSY INDICATION DURING TRUNK RELEASE	TT	-----
		L	REORDER	TT	-----
		M	RERING	TT	-----
AUTOMATIC TESTS WITH APTT					
SELECT ONLY ONE CATEGORY					
SWITCHED ACCESS					
218-262-501	(10/0)	A	CALL TO TEST LINE IN DISTANT OFFICE	MW 12M	-----
8.8 1-WAY TOLL TRNKS; INTERTOLL COMPLN					
TROUBLE TESTS					
218-269-501	(4/0)	A	CALL TO TOLL TB OR TOLL SWBD	TT	-----

