

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

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- 1. GENERAL**
- 1.01** This section describes ETLs and their 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 additional information on the new format ETL.
- 1.03** The title for 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 submitted as specified in Section 000-010-015, How to Comment on Bell System Practices.
- 1.05** ETLs are written and issued to support Controlled Maintenance Plans (CMPs).
- 1.06** The following CMP sections are currently (or will be shortly) in effect.

SECTION	SYSTEM
010-300-010	Transmission and Signaling Equipment
190-130-010	Stored Program Control System/ Switching Control Center
201-020-510	Switching Systems—General
212-020-510	No. 4 Crossbar
215-001-010	Panel
216-020-510	No. 1 Crossbar

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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
234-020-510	No. 4 Electronic Switching System (ESS)
240-020-510	No. 101 ESS
365-010-007	Digital Transmission Systems
534-001-010	Private Branch Exchange (PBX) Systems

**1.07** ETLs provide an index and information access system for CMPs listed in this section. These ETLs enable the user to locate equipment tests, inspections, and other requirements found in Bell System Practices which are necessary for corrective and preventive maintenance. The number of ETLs issued for each Bell System Practice division depends upon the structure and content of that division. Figures 1, 2, and 3 provide illustrations of ETLs in the old format; Fig. 4 illustrates an ETL in the new format. New format ETLs, replacing the old format for some systems, were first available for distribution during the first quarter of 1978. Effort is continuing concerning the issue and reissue of ETLs in the new format.

**1.08** American Telephone and Telegraph Company standard ETLs have **not** been prepared for the following equipment and/or systems:

- (a) Equipment or systems for which maintenance tests have not been defined by Bell System Practices.
- (b) Power equipment where performance is covered by application requirements or which is obsolete and little, if any, is in existence.

**1.09** Table A provides a list of issued ETLs. 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 Bell System Practices which apply to systems with standard CMPs and which have not been included in ETL sections.

**1.10** When an ETL is required and a standard one has not been prepared, the ETL should be prepared locally, using a blank Form E-5450 (see Fig. 5).

## 2. TEST CLASSIFICATIONS AND DEFINITIONS

**2.01** All tests, inspections, or other requirements in an ETL are given one of the four classifications described in paragraphs 2.02 through 2.05 of 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 time a review must be made to determine if there is a need to perform the test at that time.
- (b) During this review, the question must be asked: "Was this test (not a sample) applied to each unit 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 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 ETL indicates that the test shall be programmed locally for that office. The frequency of 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 TF 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 with which these tests are performed must meet these minimum requirements. In order to be compatible with the 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 analyses.

**2.06** For convenience in scheduling, MW, MR, and TF tests are grouped. The TTs 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 power ETLs are shown as MW. This applies even though there are instances where the only effort needed is to review or check the requirement to determine if there is a need to do work. For example, observation of a sight gauge will determine whether lubricant should be added to a bearing; observation of a voltmeter will indicate any need for readjustment of voltage regulation control.

### 3. FREQUENCY SYMBOLS

**3.01** The following frequency symbols indicate when tests are scheduled:

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** On some tests, an asterisk (\*) or a number symbol (#) is entered in the **FREQ.** column:

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

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involved and can be determined from the appropriate Bell System Practice.

(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 Bell System Practice will generally specify a minimum interval and stipulate an increase in the interval, based on experience and application.

(3) An asterisk (\*) may be entered in the **FREQ.** column for test equipment to be sent to Western Electric under the "Red Ball" plan (see 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 EQUIPMENT TEST LISTS (ETLs)

**4.01** ETLs are reissued annually, on or about September 1, and will include all information covered previously, along with additions, deletions, and/or changes authorized since the last issue of the ETL. If no changes were 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 Bell System Practice divisions which contain maintenance tests required by systems covered by CMPs. Depending on the structure of the Bell System Practice division, there may be only one ETL for the entire division or there may be several ETLs for one division.

**5.02** When only one ETL is provided, it will generally 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 will usually apply to divisions which are common to several types of offices or PBX types and to

divisions which are not structured for meaningful subject matter divisions.

**5.03** When several ETLs are provided for one division, they will generally 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. COMMS is a support system for assisting in the administration of maintenance tasks (see Section 190-305-101).

**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, 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, 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, Fig. 4) is used to provide instructions for applying the options or features listed in the third level, 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 to 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, Fig. 4) is used to specify the option or feature.

**5.07** New format ETLs will be issued initially 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** When ETLs for newly-developed systems are issued, they will be provided in the new format. Remaining ETLs will be converted, as required, to the new format.

## **6. DESCRIPTION AND USE**

**6.01** The ETL contains 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 the Bell System Practices 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 supersede all other maintenance intervals in Bell System Practices.* 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.

**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)			

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

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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 (110B 24-Volt Plant)	MW	12M	
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 <sup>a</sup> 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 (Equipped With Floating Ground Panel)	MW	M	
		4.04	Converter OUTPUT CURRENT (M1) Ammeter Calibration Check	MW	6M	
		4.05	Converter OUTPUT VOLTAGE (M2) Voltmeter Calibration Check	MW	6M	

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		

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

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SECTION 218-001-018

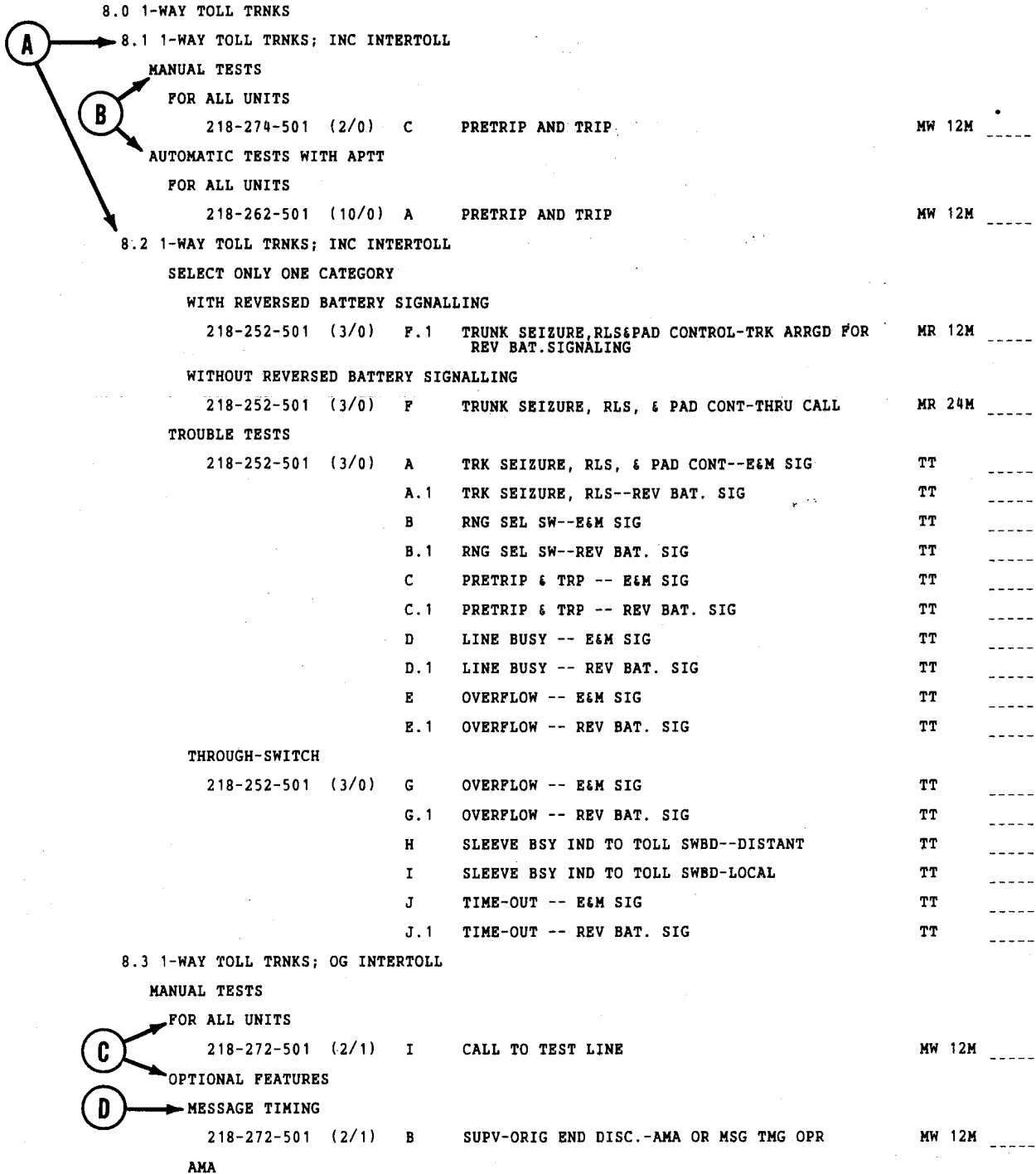


Fig. 4—Illustration of New Format ETL (Sheet 2 of 5) (1.07, 5.06)

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-BUSV	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)

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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	-----



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

## POWER SYSTEMS EQUIPMENT

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

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

TABLE A (Contd)

## ETLs THAT HAVE BEEN ISSUED

GENERIC	SECTION	ISSUE	TITLE
19	163-001-011†	3	Interrupters
20	163-001-012†	2	Ringin Sets
22	163-001-013†	11	Ringin and Tone Machine
23	167-001-011†	3	Ringin and Tone Power Plants
24	167-001-012†	3	Power Plants
25	167-001-013†	11	Power Supplies
26	169-001-011†	3	Rectifiers, J-Code
27	171-001-011†	3	Miscellaneous Equipment
28	169-001-012†	2	Rectifiers, KS-Type
29	169-001-013†	10	Rectifiers, Miscellaneous

## TEST EQUIPMENT

	104-001-011	6	Radio Test Equipment
	106-001-011	5	Electrical Test Equipment — Outside Plant
	107-001-011	1	Data and Teletypewriter Equipment

## MISCELLANEOUS EQUIPMENT

1	100-001-011†	10	Test Equipment
2	103-001-011†	10	Transmission Test Equipment
3	179-001-011†	11	Signaling Circuits
4	201-001-011†	11	Distributing Frames
5	201-001-012†	1	Sequence Signal Circuit
6	252-001-011†	11	Traffic Data Recording Equipment
7	201-001-013†	2	Alarms
8	201-001-014†	3	Recorded Announcement System
9	332-001-012†	1	Echo Suppressor — Compandor
10	201-001-015†	1	Dial Long Lines Circuit
11	201-001-016†	2	Coin Station Test Line
12	201-001-017†	1	Video Supervisor Signal Supply
13	201-001-018†	2	PBX Automatic Identifier
14	201-001-020†	3	Billing Systems
15	250-001-011†	9	Traffic Service Position System No. 1
16	250-001-012†	8	Alarms — TSPS No. 1
17	250-001-013†	6	Stored Program Control—TSPS No. 1
18	250-001-014†	2	Position, Console, Desk — Misc Equipment
19	250-001-015†	3	Automatic Intercept System
20	201-001-026†	3	Tone Supply Circuits
21	201-001-021†	2	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†	3	Miscellaneous Communication System Circuits
26	190-001-011†	2	Operational Support Systems
27	201-001-027†	1	No. 1 Trunk Concentrator
28	201-001-028†	1	No. 14 and No. 17 Local Test Desks

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



TABLE A (Contd)

## ETLs THAT HAVE BEEN ISSUED

GENERIC	SECTION	ISSUE	TITLE
<b>NO. 4A AND 4M TOLL SWITCHING SYSTEMS</b>			
1	212-001-011†	2	Decoders and Card Translators
2	212-001-012†	9	Links and Connectors
3	212-001-013†	13	Link Controllers and Markers
4	212-001-014†	12	Senders and Registers — 4A
5	212-001-015†	11	Senders and Registers — 4M
6	212-001-016†	13	Traffic Administration Circuits
7	212-001-017†	13	Intertoll Trunks
8	212-001-018†	13	Toll Connecting Trunks
9	212-001-019†	11	Transmission Trunks
10	212-001-020†	7	Operator Trunks
11	212-001-021†	3	Other Miscellaneous Trunks
12	212-001-022†	2	Announcement Trunks
13	212-001-023†	3	CAMA Equipment
14	212-001-024†	3	ETS and SPC
15	212-001-025†	3	Test and Miscellaneous Frames
16	212-001-026†	1	Miscellaneous Fuse Alarms
<b>SWITCHING SYSTEMS</b>			
	205-001-011	1	Automatic Data Test Circuits
	210-001-011	3	Service Observing Desks — No. 12 and Modified No. 7
	210-001-013	2	Information and Toll Directory Desks
	211-001-012	1	Common to More Than One Toll Office or Toll Switchboard
	211-001-013	2	No. 1 Toll Office and Toll Switchboard
	211-001-014	3	No. 3 Toll Office and Toll Switchboard
	211-001-015	2	No. 5 Toll Switchboard
	211-001-016	1	No. 6 Toll Switchboard
	211-001-017	1	No. 6A Teletypewriter Switchboard
<b>PANEL OFFICES</b>			
	215-001-012	3	Alarms
	215-001-013	3	ANI
	215-001-014	3	Code Compressors — 3-Digit Translators
	215-001-015	3	Districts
	215-001-016	3	Finals
	215-001-017	3	Incomings
	215-001-018	4	Line Finders, Trunk Finders
	215-001-019	3	Links
	215-001-020	3	Miscellaneous
	215-001-021	3	Office Selectors
	215-001-022	3	Senders, Sender Links, Decoders, Decoder Connectors
	215-001-023	3	Switchboard Circuits

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

TABLE A (Contd)

## ETLs THAT HAVE BEEN ISSUED

GENERIC	SECTION	ISSUE	TITLE
	215-001-024	3	Traffic Registers
	215-001-025	3	Transmission
	215-001-026	3	Trunks

## NO. 1 CROSSBAR EQUIPMENT

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

## NO. 5 CROSSBAR OFFICES – AUTOMATIC CALL DISTRIBUTION

1	218-005-011†	3	Connectors and Links
2	218-005-012†	5	Markers and Registers
3	218-005-013†	5	Miscellaneous Features and Common Equipment
4	218-005-014†	5	Trunks

## NO. 5A CROSSBAR EQUIPMENT

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

## CROSSBAR TANDEM EQUIPMENT

1	220-001-011†	2	Common Equipment
2	220-001-012†	7	Senders
3	220-001-013†	8	Incoming Trunks
4	220-001-014†	6	Test Frames
5	220-001-015†	6	Test Frames and Miscellaneous

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

TABLE A (Contd)

## ETLs THAT HAVE BEEN ISSUED

GENERIC	SECTION	ISSUE	TITLE
6	220-001-016†	10	Fuse Alarms
7	220-001-017†	10	CAMA Equipment
8	220-001-018†	8	No. 100A Traffic Service Position
9	220-001-019†	2	Outgoing Trunks

## NO. 1 ESS EQUIPMENT

1	231-001-011†	3	2-Wire System
2	231-001-012†	9	4-Wire System
3	231-001-013†	9	2-Wire Alarms
4	231-001-014†	7	4-Wire Alarms

## NO. 5 CROSSBAR OFFICES – OFFICES WITH MASTER TEST FRAME

1	218-001-011†	2	Connectors and Links
2	218-001-012†	12	Markers
3	218-001-013†	13	Registers
4	218-001-014†	12	Senders
5	218-001-015†	12	AMA-ANI
6	218-001-016†	11	Intraoffice Trunks
7	218-001-017†	13	Interoffice Trunks
8	218-001-018†	12	1-Way Toll Trunks
9	218-001-019†	13	2-Way Toll Trunks
10	218-001-020†	13	Miscellaneous Trunks
11	218-001-021†	11	Junctors
12	218-001-022†	8	Miscellaneous Equipment – Feature Circuits
13	218-001-023†	3	Miscellaneous Equipment – Common Items
14	218-001-024†	3	Miscellaneous – TRF REG and ALM
15	218-001-025†	3	Miscellaneous Maintenance and Emergency
16	218-001-026†	2	Miscellaneous Equipment – Supply
17	218-001-027†	3	Centrex
18	218-001-028†	3	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†	3	Connectors, Links and Marker – Connectors
2	218-002-012†	12	Markers
3	281-002-013†	9	Registers
4	218-002-014†	12	Senders
5	218-002-015†	11	AMA-ANI
6	218-002-016†	10	Intraoffice Trunks
7	218-002-017†	13	Interoffice Trunks
8	218-002-018†	2	1-Way Toll Trunks
9	218-002-019†	1	2-Way Toll Trunks
10	218-002-020†	3	Miscellaneous Trunks
11	218-002-021†	1	Junctors

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

TABLE A (Contd)

## ETLs THAT HAVE BEEN ISSUED

GENERIC	SECTION	ISSUE	TITLE
12	218-002-022†	2	Miscellaneous Equipment Feature
13	218-002-023†	2	Miscellaneous — TRF REG and ALM
14	218-002-024†	1	Miscellaneous Equipment Common Items
15	218-002-025†	2	Miscellaneous and Emergency Action Items
16	218-002-026†	2	Miscellaneous Equipment Supply

## NO. 3 CROSSBAR OFFICES

	218-004-012	1	Connectors and Links
	218-004-013	1	Markers
	218-004-014	1	Registers and Senders
	218-004-015	1	Trunks
	218-004-016	1	Miscellaneous

## COMMUNITY DIAL OFFICES — NO. 1 SXS

1	225-001-011†	1	Line Switch, Plunger Type
2	225-001-012†	2	Master Switches, Plunger Type
3	225-001-013†	2	Out Trunk Switches
4	225-001-014†	2	Equipment Unique to 350A Office
5	225-001-015†	2	Equipment Unique to 355A Office
6	225-001-016†	2	Equipment Unique to 356A Office
7	225-001-017†	2	Equipment Unique to 360A Office
8	225-001-018†	2	Equipment Unique to 35-E-97 Office
9	225-001-019†	2	Equipment Unique to 375A/B Office
10	225-001-020†	1	Equipment Unique to North Electric Co. Office

## NO. 1 STEP-BY-STEP OFFICES

11	226-001-011†	1	Line and Trunk Finders
12	226-001-012†	5	Local Selectors
13	226-001-013†	5	Toll Selectors
14	226-001-014†	7	Toll Transmission Loop Dial Selectors
15	226-001-015†	5	Toll Transmission Repeated Dial Selectors
16	226-001-016†	8	Miscellaneous Selectors
17	226-001-017†	7	Connectors
18	226-001-018†	4	Pulse Repeaters and Out Trunk Switches
19	226-001-019†	9	Trunks and Trunk Circuits
20	226-001-020†	2	Alarms
21	226-001-021†	1	Miscellaneous Equipment

## INTERTOLL DIALING, CAMA, AMA, ANI, TOUCH-TONE® CALLING AND COMMON CONTROL — SXS OFFICES

22	227-001-011†	1	Intertoll Dial Circuits
23	227-001-012†	6	SAMA Equipment
24	227-001-013†	10	CAMA Equipment
25	227-001-014†	10	ANI Equipment
26	227-001-015†	10	TOUCH-TONE Non-Common Control
	227-001-016	6	TOUCH-TONE Calling Equipment — Not Adaptable for Common Control
27	227-001-017†	7	Common Control for TOUCH-TONE and Controlled Outplusing

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

TABLE A (Contd)

## ETLs THAT HAVE BEEN ISSUED

GENERIC	SECTION	ISSUE	TITLE
<b>NO. 2 ESS</b>			
1	232-001-011†	8	No. 2 and 2B ESS ETL
2	232-001-012†	2	No. 2 ESS ETL
3	232-001-013†	2	No. 2B ESS ETL
4	232-001-014†	1	No. 2 and 2B ESS ETL
<b>NO. 3 ESS</b>			
1	233-001-011†	1	No. 3 ESS ETL
<b>NO. 4 ESS</b>			
1	234-001-011†	1	No. 4 ESS ETL
<b>NO. 101 ESS</b>			
	240-001-011	1	Control Unit
	240-001-012	1	No. 1A Switch Unit
	240-001-013	1	No. 2A Switch Unit
	240-001-014	1	No. 3A and 4A Switch Units

## TRANSMISSION SYSTEMS AND TESTING

309-001-011	4	Switched Services Networks
310-001-011	2	Nonswitched Special Services System
311-001-011	1	Switched Special Services Systems
312-001-011	4	Private Line Data Systems and Services
314-001-011	2	Digital and Analogue Data Transmission Systems
318-001-011	5	Television Systems
320-001-011	3	Program Transmission Systems and Services
332-001-011	3	Voice Frequency Telephone Repeaters Pilot Wire Regulators, Echo Suppressors, Composite Sets and Associated Equipment
333-001-011	1	Interoffice Signaling Systems
340-001-011	2	PICTUREPHONE <sup>®</sup> Services Baseband Video Transmission
354-001-011	8	Frequency Generating Systems
355-001-011	4	K-Carrier Telephone Systems and Associated Equipment Components
356-001-011	9	Analog Multiplex Terminal Equipment
357-001-011	7	Wire Line Entrance Links and Broadband Entrance Links and Interconnection
358-001-011	5	Type L1 Carrier Telephone System and Associated Equipment Components
359-001-011	8	L3, L4, L4S, L5, and L5E Carrier System
360-001-011	1	Maintenance Center Test — Equipment Components
361-001-011	3	Type L1 and L3 Carrier Telephone Systems Service Center Tests — Type N, O, and ON Carrier Systems

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

TABLE A (Contd)

## ETLs THAT HAVE BEEN ISSUED

GENERIC	SECTION	ISSUE	TITLE
	371-001-011	2	Broadband Restoration

## N. O. ON CARRIER EQUIPMENT

1	362-001-011†	12	N1 Carrier
2	362-001-012†	3	N2 Carrier
3	362-001-013†	3	N3 Carrier
4	362-001-014†	3	O, ON, O-H, ON-H Carrier System

## DIGITAL TRANSMISSION SYSTEMS

1	365-001-011†	12	D Channel Banks By Frame
2	365-001-012†	3	D Channel Banks By End Office
3	365-001-013†	3	T1 Lines
4	365-001-014†	3	T1C Lines
5	365-001-015†	3	T1 Outstate
6	365-001-016†	3	Digital Multiplex
7	365-001-017†	3	Wideband Data
8	365-001-018†	2	T2 Lines

## RADIO

	402-001-011	5	Antennas, Transmission Lines, and Waveguide
	404-001-011	1	Manual Mobile Radio
	405-001-011	5	MJ, MK, and ML Mobile Radio-Telephone
	406-001-011	1	Air-Ground Radio
	407-001-011	2	Personal Radio Services
	408-001-011	1	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	8	TE, TJ, TL, TM, and Microwave Radio
	410-001-011	10	TD-2 Microwave Radio
	411-001-011	9	TD-3 Microwave Radio
	412-001-011	10	TH-1 Microwave Radio
	413-001-011	6	TH-3 Microwave Radio
	415-001-011	4	TD-3D Microwave Radio
	416-001-011	2	TN-1 Microwave
	420-001-011	8	Microwave Radio — Common Equipment

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

## TABLE A (Contd)

## ETLs THAT HAVE BEEN ISSUED

GENERIC	SECTION	ISSUE	TITLE
<b>SPECIAL SERVICES FORCE ADMINISTRATION DATA SYSTEM (FADS)</b>			
	476-001-011	5	No. 2A ACD
	476-001-013	5	No. 3A ACD
<b>PRIVATE BRANCH EXCHANGES (PBX)</b>			
	534-001-011	2	Sections Applying to More Than One PBX Series — 500, 600, 700, and 800 Series — Manual and Dial PBX
	536-001-011	2	500 Series PBX
	538-001-011	2	600 Series PBX
	540-001-011	3	700 Series Step-By-Step and Crossbar Type PBX
	540-001-013	4	Step-By-Step Centrex CU and Step-By-Step PBX TOUCH-TONE Equipment and Circuits
	541-001-011	1	700C and 710C PBX
	542-001-011	1	701 and 711-Type PBX
	543-001-011	1	702A PBX
	546-001-011	1	740-Type PBX
	548-001-011	1	750A PBX
	550-001-011	1	755A PBX
	551-001-011	3	756A PBX
	551-001-012	3	757A PBX
	551-001-014	2	758A and 758B PBX
	551-001-015	2	758C PBX
	551-001-017	4	761 and 770 PBX
<b>TEST CENTER OPERATION</b>			
	660-001-011	3	Test Center Operation
	662-001-011	2	Cable and Local Test Desks and Local Test Cabinets
	664-001-011	3	Test Boards for Other than Special Services
	666-001-011	2	Test Boards for Test Positions for Special Services
	668-001-011	1	Data Test Center
	770-001-011	3	Toll Type Equipment — Building Operation

## TABLE B

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

SECTION NO.	SUBJECT
<b>LINE CONCENTRATORS</b>	
067-105-501	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	LC Assoc/w No. 520-Type PBX — Tests Using Test Ckt SD-98067-1
067-302-502	LC Assoc/w Controller Ckt Tests Using Test Ckt SD-98067-01
067-302-503	LC Assoc/w No. 520-Type PBX — OGT Ckts — Operation Tests
067-303-501	Long Lines Ckts Assoc/w No. 520-Type PBX — Tests
067-304-501	Selective Routing Ckts. Used w/Direct Lines Assoc/w No. 520-Type PBX — Tests

**PBX AND STATION TEST EQUIPMENT**

## Stations

105-240-100	No. 81A Test Set — Operation Tests
<b>PBX Test Equipment</b>	
105-601-501	Solid State Converter and Receiver Test Set SD-66890-01 — Operation Tests

**CUSTOMER EQUIPMENT**

## MISCELLANEOUS

463-110-200	Auxiliary Signals — Installation and 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
463-300-140	Interconnecting Key Telephone Unit F-58006 — Maintenance
463-300-150	Interconnecting Key Telephone Unit F-58007 — Maintenance
463-311-100	Voice Connecting Arrangements QKT and QKTBT — 30-Type Voice Coupler
463-331-100	Voice Connecting Arrangement CDB — F-58005
463-340-100	Voice Connecting Arrangements CAU, SU3, SU4, SU6, and SU7
463-340-110	Voice Connecting Arrangements RDL and RDM
463-340-111	Voice Connecting Arrangements RDL and RDM — KS-19552, L-1 & L-2 Recorder Coupler Used With KS-16765, L-1 Announcement Set
463-350-104	Protective Connecting Arrangements CDH and CBF
463-360-100	Protective Connecting Arrangements CDQ4W and CDQ4X

**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
473-219-300	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
<b>Customer Training Equipment</b>	
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
<b>Telephone Answering Systems — Sections Common to Customer and Central Office Equipment</b>	
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
<b>Telephone Answering Systems — Sections Covering Customer Equipment</b>	
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
<b>Telephone Answering Systems – Sections Covering Central Office Equipment</b>	
473-703-501	Occasional Service Circuit – SD-96605-01 and SD-96606 -01 – For Telephone Answering Systems – Operation Tests (Performed at Central Office)
<b>CALL DISTRIBUTING SYSTEM NO. 1S, INFORMATION DESKS, AND ORDER TURRETS – CUSTOMER EQUIPMENT</b>	
<b>No. 1S Automatic Call Distributing System</b>	
475-100-520	Circuit Tests
<b>No. 1, 2, 2A and 4 Order Turrets</b>	
475-200-300	Order Turret – No. 1 – Tests and Adjustments
<b>No. 3 Order Turret</b>	
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
<b>No. 6A Order Turret</b>	
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
<b>PRIVATE SERVICE SYSTEMS – CUSTOMER EQUIPMENT</b>	
480-010-100	4-Wire Private Line Circuit – Powered From Central Office SD-69902-01 – Identification, Connections, and Tests
<b>Crash Alarm and Command Conference Systems</b>	
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
	<b>Civil Defense Warning (CDW) System – Station Equipment</b>
480-210-200	Bell and Lights – Installation and Maintenance
	<b>Group Alerting System – Station Apparatus</b>
480-310-200	Installation and Maintenance
	<b>Sage Systems – 112A Key Equipment and SAC Main Operating Base Turret</b>
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
	<b>Preemption Tone Detector (AUTOVON) – Customer-Provided PBX or Station</b>
480-611-100	Identification, Connections, Maintenance
	<b>Switching Systems – Customer Equipment</b>
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
	<b>PBX Access Lines – AUTOVON</b>
480-801-500	812A – Initial Lineup and Maintenance Tests