

**PBX AUTOMATIC IDENTIFIED OUTWARD DIALING**  
**PERFORMANCE REQUIREMENTS**  
**NO. 1 AND NO. 5 CROSSBAR LAMA AND ANI OFFICES**  
**PANEL AND STEP-BY-STEP ANI OFFICES**  
**GENERAL EQUIPMENT REQUIREMENTS**  
**COMMON SYSTEMS**

**1. GENERAL**

**1.01** This section covers the performance requirements for PBX automatic identified outward dialing (AIOD) circuits in No. 1 and No. 5 crossbar local automatic message accounting (LAMA) and automatic number identification (ANI) offices, and in panel and step-by-step ANI offices. The requirements cover one station identification (SI) frame and its associated translator and translator connector for new, added or modified AIOD installations. A new AIOD installation means a complete new office with AIOD. An added AIOD installation means a complete AIOD system added to a working office, and a modified AIOD installation means a working AIOD system having circuits added. Installation tests shall be made in accordance with the Western Electric handbooks for the particular system, except when an agreement has been reached between the telephone company and the Western Electric Company to waive or modify any requirements.

**1.02** Reference shall be made to Section 800-630-180 covering general performance requirements for additional information necessary for the proper application of the requirements listed herein. Also, refer to the proper section for performance requirements for the particular associated LAMA or ANI office equipment. Refer to Section 800-610-154 for the mounting and alignment of apparatus.

**1.03** For specific circuit tests and requirements for the SI frame, refer to TLM-1C005-01.

**1.04 Definitions**

**Associated circuits:** Any circuits not originally designed for AIOD to which an AIOD function has been added as a modification.

**Concentrated load tests:** Provide for the direction of a number of simultaneous calls to a specific circuit or part of a circuit.

**Functions:** Refer to the functions listed in the circuit description for a particular circuit.

**Simultaneous calls:** Simultaneous bids for service.

**Special tests:** Tests applied to check circuit functions that cannot be tested by a single call.

**Test setup:** Refers to keys or switches operated, leads connected, and test equipment required to perform a particular test.

**1.05** Prior to installation, the Western Electric Company shall submit to the telephone company a method of procedure covering the installation and testing of the circuits.

**1.06** The tests are:

(a) Individual circuit requirements for all circuits, covered in 2.

(b) Special tests, covered in 3., as follows:

Digit Register Connector

Digit Register

## SECTION 801-801-180

Station Identification Store Control

Station Identification Test

Translator Connector

Translator

Markers, Transverters, and Outpulses

- (c) Concentrated load tests, covered in 4., as follows:

Digit Register Connector

- (d) Test requirements for additions and modifications, covered in 5.

- (e) Records and reports, covered in 6.

### 2. INDIVIDUAL CIRCUIT REQUIREMENTS

**2.01** All functions of a circuit that can be tested by AIOD SI frame or other office test circuits shall be tested twice. All wiring and functions which cannot be tested by the above method shall be verified by a single test, using other appropriate test equipment. If desired, equivalent Western Electric Company test equipment may be used to test all circuits. Troubles found shall be cleared and sufficient subsequent tests shall be made to insure proper operation. When the cause of failure cannot be found, at least 25 repeat tests without trouble shall be made.

**2.02** Where calls require operator identification for completion, the condition may be simulated.

**2.03** All test circuits used, whether part of AIOD or not, shall be verified.

**2.04** Check each timing and alarm feature for correct operation in connection with the equipment for which it is used, including frame miscellaneous circuits.

### 3. SPECIAL TEST REQUIREMENTS

#### A. Purpose of Test

**3.01** These tests are applied to check circuit functions that cannot be tested by a single call.

#### B. Digit Register Connector

**3.02** Each equipped ferreed connector cutoff switch shall be verified to be in its idle circuit condition prior to power turn on.

**3.03** Bids for service shall be initiated from each equipped digit-register connector appearance to verify its ability to be connected to a digit register.

#### C. Digit Register

**3.04** Thousands digit cross-connections in each digit-register shall be verified.

#### D. Station Identification Store Control

**3.05** Thousands digit cross-connections shall be verified and shall correspond to those in the digit-register circuits.

**3.06** Data trunk number translation cross-connections shall be verified.

#### E. Station Identification Test

**3.07** At least seven sequential system errors shall be generated within a 60-second interval and applied to the inputs of the station identification test circuit to verify the operation of the trouble-printer shutdown feature.

**3.08** A check shall be made of the proper functioning of all lamps and lamp operating paths.

#### F. Translator Connector

**3.09** Check all features of the translator connector circuits, including chain lockout and preference features of both the regular and emergency chain and transfer alarms. This test shall include a complete check with each transverter and/or ANI outpulser.

#### G. Translator

**3.10** When operating with transverters, thousands digit cross-connections shall be verified.

#### H. Markers, Transverters, and Outpulses

**3.11** Check each marker, transverter, and ANI outpulser for its ability to handle AIOD traffic.

**4. CONCENTRATED LOAD TESTS****A. General**

**4.01** Circuit changes affecting the circuits to be tested shall be completed before concentrated load tests specified herein are started. Any other tests being conducted during this interval should be made in such a manner that they do not interfere with the concentrated load tests.

**4.02** If the trouble printer or office trouble recorder, indicator or ticketer is summoned, if any alarms occur, or if any call fails to complete satisfactorily, the trouble shall be cleared and sufficient subsequent tests shall be made to insure that the trouble has been cleared.

**4.03** Test calls may terminate locally, in a CAMA office, or in test equipment.

**B. Digit Register Connector**

**4.04** Simultaneous requests for service shall be originated from at least three digit register connector data trunk appearances, and data messages shall be sent to one available digit register to check the ability of the connector to operate under heavy traffic. This test shall be repeated ten times with each digit register.

**5. MODIFICATIONS AND ADDITIONS****A. General**

**5.01** Before the start of installation, the Western Electric Company shall submit to the telephone company a method of procedure covering the installation and testing of the circuits involved.

**5.02** Any tests on new equipment that require the use of original equipment (markers, transverter, outpulsers, etc) apply only if the telephone company can permit taking sufficient equipment out of service so as to prevent any interference between the tests and service traffic.

**B. Additions**

**5.03** All circuits shall meet the requirements specified in 2. and 3.

**5.04** Where a switch unit is added to the digit register connector, instructions in 3.B. and in 4. shall apply.

**C. Modifications**

**5.05** When circuits are modified, circuit operation tests shall be applied to insure satisfactory operation of all functions of the circuit affected by the modification.

**6. RECORDS AND REPORTS**

**6.01** A copy of all test records shall be turned over to the telephone company.