TOLL LINES AND CLOSED LOOP TOLL LINE EXTENSIONS

RELAY CIRCUITS

TELETYPEWRITER SWITCHBOARDS NOS. 3 AND 3A

1. GENERAL

1.01 This section describes tests of the relay circuit, including the selector, etc., associated with toll lines and closed loop toll line extensions (TLX's) used in teletypewriter switchboards Nos. 3 and 3A. The tests are as follows:

(A) Toll Line or TLX Relay Circuit

(B) Test of Toll Line Busy Lamps

1.02 Test (A) requires two persons, one person at the test board and the other at the switchboard, usually an operator.

2. APPARATUS

2.01 No special testing apparatus is required.

3. METHOD

(A) Toll Line or TLX Relay Circuit

3.01 At the Test Board: Connect the test board teletypewriter to the SWBD jack of the plugging-up circuit.

3.02 Insert the plug of a P2A cord into the PTCH jack of the plugging-up circuit and insert the other end of this cord into the LIST jack of the telegraph loop terminal associated with toll line or TLX to be tested. Send a calling signal by operating the BREAK key of the test board teletypewriter for approximately 2 seconds. This interval should not be less than 2 seconds nor more than 7 seconds.

3.03 At the Switchboard: The line lamp or lamps associated with the circuit under test should light in all appearances.

Note: If the night alarm key is operated when the line lamps light, the night alarm signal should function.

3.04 At the Switchboard: Insert the answering plug of an idle cord circuit into the jack associated with the toll line or TLX under test. The line lamp or lamps should be extinguished and the busy lamps, when provided, should light. Operate the typing key of this cord circuit and send signals with the operator's teletypewriter over the circuit under test. These signals should be received at the test board teletypewriter.

3.05 At the Test Board: The test board attendant should operate his teletypewriter in acknowledgment. These signals should be received on the operator's teletypewriter. Send a recall signal by operating the BREAK key for an interval of approximately 7 seconds. This interval should not be less than 6 seconds nor more than 8 seconds.

3.06 At the Switchboard: The cord circuit supervisory lamp should flash. Momentarily operate the cord circuit recall release key. The cord circuit supervisory lamp should be extinguished. Send a recall signal to the test board attendant.

3.07 At the Test Board: The ANS lamp of the plugging-up circuit should flash while the recall signal is being sent.

3.08 At the Switchboard: Send a disconnect signal to the test board attendant.

3.09 At the Test Board: The ANS lamp of the plugging-up circuit should light while the key is operated. Send a disconnect signal by operating the BREAK key for an interval of approximately 10 seconds. This interval should not be less than 9 seconds.

3.10 At the Switchboard: The cord circuit supervisory lamp should light in approximately 10 seconds. After the receipt of the disconnect signal, remove the connections from the toll line or TLX and restore the cord circuit to normal.

3.11 At the Test Board: Remove the connections from the plugging-up circuit.

(B) Test of Toll Line Busy Lamps

3.12 At the Switchboard: Note that the toll line circuit to be tested is not busy by observing that the associated busy lamps are extinguished.

3.13 Insert the plug of an idle cord circuit into the jack of the toll line to be tested. The busy lamps associated with the toll line circuit under test should light in all appearances. Check for dim lamps.

3.14 Remove the plug from the jack of the toll line circuit under test. Note that the busy lamps are extinguished.

4. REPORTS

4.01 The required record of these tests should be entered on the proper form.