

OPERATORS' TELEPHONE CIRCUITS NO. 10 OFFICE

1. GENERAL

1.01 This section describes the method of performing tests on the following operators' telephone circuits:

- (a) Subscriber and Rural Operator's Telephone Circuit.
- (b) Combined Subscriber and Trunk Operator's Telephone Circuit.
- (c) Trunk Operator's Telephone Circuit.
- (d) Toll Operator's Telephone Circuit.

1.02 In these tests, all checks for faulty transmission are based upon the tester's judgment by comparison with normal circuits. It is therefore important that the tester be familiar with the requirement in this connection.

1.03 These tests are set up on a two-person basis. In multi-office districts, the tests should be made over call circuits or inter-office trunks. In single office districts, the tests should be made to the wire chief's desk or to a local station located outside the operating room.

2. APPARATUS

2.01 Operator's Telephone Set (known to be in good condition).

3. METHOD

(a) Subscriber and Rural Operator's Telephone Circuit

- 3.01 Connect the operator's telephone set to the subscriber or rural position to be tested.
- 3.02 Connect a cord of any pair in the position, to a distant office or wire chief's trunk circuit, or, to a local station circuit, over which the test is to be made, and signal the distant tester.
- 3.03 Test the transmitting and receiving features of the operator's telephone circuit, each tester talking and listening in turn. Any noise or other abnormal disturbance noted should be reported for investigation.
- 3.04 Test the operators' telephone jacks for loose connections or spring cut-outs by moving the plug up and down with slight pressure and by tapping lightly on the jack

mounting while the distant tester is talking.

3.05 Change the operator's telephone set to the second set of jacks and repeat the operations covered in paragraph 3.04.

(b) Combined Subscriber and Trunk Operator's Telephone Circuit.

3.06 Connect the operator's telephone set to the combined subscriber and trunk position to be tested, and establish a talking connection with the distant tester.

3.07 Request the distant tester to come in on the call circuit, and operate the first subscriber cord circuit listening key. The call circuit should be cut off, the call circuit pilot lamp should light and the distant tester should receive tone. Restore the listening key to normal and repeat the test by operating each listening key in turn.

3.08 With the listening key normal and the distant tester still on the call circuit, depress the outgoing call circuit keys one at a time and note that the pilot lamp lights, that the incoming call circuit is cut off, and that the distant tester receives tone as each key is depressed.

3.09 With the listening keys normal, remove the operator's telephone set from jacks. The pilot lamp should light and the distant tester should receive tone.

3.10 Check the transmitting and receiving features of the operator's telephone circuit as described in paragraphs 3.03 to 3.05.

(c) Trunk Operator's Telephone Circuit

3.11 Connect the operator's telephone set to the trunk position to be tested, and establish a talking connection with the distant tester.

3.12 When testing call circuit positions as combined call circuit and straightforward positions, and with the distant tester on the call circuit, disconnect the operator's telephone set from the position and observe that the position pilot lamp is lighted. Reconnect the operator's telephone set to the position, and observe that the pilot lamp is extinguished.

3.13 Check transmitting and receiving features of the operator's telephone circuit as described in paragraphs 3.03 to 3.05.

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(d) Toll Operator's Telephone Circuit

- 3.14 Connect the operator's telephone set to the toll position to be tested, and establish a talking connection with the distant tester.
- 3.15 While the distant tester is talking, operate the monitoring key associated with the cord circuit and note that transmission appears satisfactory.
- 3.16 Check the transmitting and receiving features of the operator's telephone circuit as described in paragraphs 3.03 to 3.05.

4. REPORTS

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