TRAFFIC SAMPLING CIRCUIT SD-27681-01

TEST USING MASTER TEST FRAME

NO. 5 CROSSBAR OFFICES

1. GENERAL

1.01 Traffic sampling facilities enable a telephone company to obtain an AMA record on a percentage-of-calls basis. This record can be used for traffic management, allocating revenue on a geographical basis for service (eg, WATS), or as required by CCSA networks.

This section provides a test which checks the traffic sampling circuit SD-27681-01 and the ability of the circuit impulse counter to record the number of calls originated by specific customer classes. An additional check is made that, when a predetermined number of customer calls are received, an AMA record request signal is returned to the controlling circuit. A further check is made to ensure that, after an AMA record request signal is returned to the controlling circuit, the impulse counter will automatically reset to the predetermined position, following one additional input pulse.

This section does not apply when Electronic Translation System is installed in the marker group.

1.02 The reasons for reissuing this section are listed below. Since this reissue is a general revision, no revision arrows have been used to denote significant changes. This reissue does not affect the Equipment Test Lists.

(a) Change Steps 11c and 21 and to make other minor changes.

1.03 This test requires that common control equipment be made busy; consequently, it is suggested this test be performed during periods of light traffic.

1.04 Actions and/or verifications are required at the traffic sampling circuit, master test frame (MTF), and marker equipment frame.

1.05 *Lettered Steps:* A letter a, b, c, etc, added to a step number in Part 3 of this section indicates an action which may or may not be required depending on local conditions. The condition under which a lettered step or a series of lettered steps should be made is given in the ACTION column, and all steps governed by the same condition are designated by the same letter within a test. Where a condition does not apply, all steps designated by that letter should be omitted.

1.06 The manner of selecting some circuits and test conditions at the MTF and its associated circuits varies depending on the apparatus options furnished with these circuits. Therefore, where variable means of selection are provided, precise instructions for the selection of circuits and test conditions are not given. Precise instructions for the use of these variable means are given in Section 218-106-301.

1.07 The location statement, At MTF—, is used to refer to all apparatus located on the four basic bays of the MTF.

1.08 On Issue 76D of SD-25800-01, a group of 18 "class of test" lamps was replaced by a single "start test" lamp designated STT. Since the designation given to the lamp is not specific, the lamp will not be called out in the section, as well as the 18 discontinued lamps, such as DT, ORIG, ITDO, ITNP, OGT, etc.

2. APPARATUS

2.01 Master test control circuit, SD-25800-01.

2.02 322A (make-busy) plugs as required.

2.03 Blocking tools as required. Use tools and apply as covered in Section 069-020-801.

2.04 32A test set (used to control the MTF from a remote point) as required.

3. METHOD

STEP	ACTION	VERIFICATION
	Note: Refer to paragraphs 1.03, 1.06, and 1.07.	
1	At MTF— Restore all keys and switches.	All lamps extinguished.
2a	If test is to be performed in 4-wire office— Operate 4W key.	
3b	If traffic sampling circuit is associated with customer that has multilevel preemption features— Select control digits as required to reach desired route.	
4	Select access digit as required.	
5	Select marker associated with traffic sampling circuit to be tested.	
6	At jack, lamp, and key circuit— Insert make-busy plug into M-C-MB jack associated with marker selected for test.	
7	At MTF— Select A- through K- digits for area code, office code, and terminating test line number for AMA trunk route.	
8	Select class of call and translator indication as required.	
9	Select class of service and rate treatment for customer having access to traffic sampling circuit to be tested.	
10	Select MISC class of test.	
11c	If marker selected for test is wire-spring-relay type— At marker frame— Block nonoperated MT18 relay.	

STEP	ACTION	VERIFICATION
12c	At MTF— Operate TSCT key.	
13d	If marker selected for test is nonwire-spring-relay type— At marker frame— Block nonoperated MT27 relay.	
14	Determine from office records and record sampling rate for which counter is set.	
15	At traffic sampling circuit— Depress impulse counter reset knob and turn one quarter turn to right.	White line on reset knob is in horizontal position.
16	Open hinged flap on counter, set digit wheels to read 00010, and close cover.	
17	Release reset knob by turning one quarter turn to left.	White line on reset knob is in vertical position.

Single Input

STEP	ACTION	VERIFICATION
18	At traffic sampling circuit— Insert plug of 32A test set into RC jack.	
19	Momentarily operate white (ST) button.	TS relay operated and released. Impulse counter reading is reduced by one to 00009.
20	Momentarily operate red (RL) button.	
21	Repeat Steps 18 through 20 to reduce impulse counter reading to 00000.	SA relay operated.

AMA Record Request and Automatic Reset Feature

STEP	ACTION	VERIFICATION
22	At MTF— Momentarily operate ST key.	DISI, MRL, SAC, lamps lighted.
23	Momentarily operate RL key.	All lamps extinguished.
24	At traffic sampling circuit— Verify impulse counter has restored to preset position in Step 16.	Impulse counter reading at position 00010.
25	Remove 32A test set from RC jack.	

STEP	ACTION	VERIFICATION

Restoral of Traffic Sampling Circuit

STEP	ACTION	VERIFICATION
26	At traffic sampling circuit— Depress impulse counter reset knob and turn one quarter turn to right.	White line or knob is in horizontal position.
27	Open hinged flap on counter; set digit wheels to position recorded in Step 14.	
28	Release reset knob by turning one quarter turn to left.	White line on knob is in vertical position.
29	At marker frame— Remove blocking tools from MT27 and MT18 relays.	
30	At jack, lamp, and key circuit— Remove make-busy plug from M-C-MB jack associated with marker selected.	
31	At MTF— Restore all keys and switches.	