AUXILIARY LINE CIRCUIT SD-99439-01

ARRANGED FOR MEASURED-RATE

INWATS SERVICE

OPERATION TESTS

1. GENERAL

1.01 This section provides operation tests for measured-rate incoming wide area telephone service (INWATS).

1.02 This section is reissued to provide information in all tests of operation of the seizure register (SZ), or when provided, the overflow register (OF). Also included in tests A, B, and C is the verification of the TMA relay operation. The Equipment Test List is not affected.

1.03 The following tests are covered:

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1.04 *Caution: Avoid performing the tests listed in this section within the business hours of the INWATS customer. If this is not possible, inform the customer of the service impairment and the approximate out-of-service time interval.*

1.05 *Caution: Record an accurate account of register readings and of testing time when the ALC is activated. Since the TM meter scores on a 6-minute interval, use a stopwatch to record the exact time lapse. On all tests, start timing each time the handset key is operated to TALK. Stop the stopwatch when the handset key is operated to MON. Record register readings and the time lapse and report this information to the proper department for billing adjustment.*

1.06 *Lettered Steps:* A letter, a, b, c, etc, added to a step number in Part 4 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.

2. APPARATUS

Test A

2.01 KS-3008 stopwatch, or equivalent.

Tests A Through D

2.02 1011G dial hand test set.

2.03 One 2W38A cord for use with 1011G dial hand test set.

3. PREPARATION

STEP	ACTION	VERIFICATION

All Tests

STEP	ACTION	VERIFICATION
1	Establish a talking path between ALC and originating office.	
2	Operate handset key to MON.	
3	At ALC— Connect 310 plug from handset to T jack.	
4	At originating office— Originate call to trunk circuit.	R, R1 relays operated during ringing cycle. R, R1 relays released during silent period. SL relay operated in ALC.

4. METHOD

STEP	ACTION	VERIFICATION

A. INWATS Call Termination

Caution: See paragraph 1.05.

STEP	ACTION	VERIFICATION
5	At ALC— Operate handset key to TALK; *start timing.*	L, TM relays operated. If ALC for measured-rate INWATS service is provided for other than No. 1 ◆and No. 2 ESS offices—◆ TMA relay operated. If ALC for measured-rate INWATS service is provided for No. 1 ◆and No. 2 ESS offices◆ TM1 ◆and TMA relays operated.◆ When PC register or MR is provided— At register location— Register scores once. ◆When SZ register is provided— At register location— Register scores once. When OF register is provided— At register location— Register scores once when call is sent to subscriber line overflow.◆

STEP	ACTION	VERIFICATION
6	When meter advances to next unit digit— Read and record elapsed time indicated by stopwatch.	
7	When meter advances again— *Stop timing,* restore TALK key.	
8	Subtract time recorded in Step 6 from indication of stopwatch.	Difference should be 6 minutes.
9a	If no further tests are to be made— Restore all circuits to normal.	All relays restored to normal.

B. Called Party Disconnect

Caution: See paragraph 1.05.

5	At ALC— Operate handset key to TALK; *start timing.*	L, TM relays operated. If ALC for measured-rate INWATS service is provided for other than No. 1 ♦and No. 2 ESS offices—◀ TMA relay operated. If ALC for measured-rate INWATS service is provided for No. 1 ♦and No. 2 ESS offices—◀ TM1 ♦and TMA relays operated.◀ When PC register or MR is provided— At register location— Register scores once. ♦When SZ register is provided— At register location— Register scores once. When OF register is provided— At register location— Register scores once when call is sent to subscriber line overflow.◀
6	Operate handset key to MON; *stop timing.*	L, TM. relays released. If ALC for measured-rate INWATS service is provided for other than No. 1 ♦and No. 2 ESS offices—◀ TMA relay released. If ALC for measured-rate INWATS service is provided for No. 1 ♦and No. 2 ESS offices—◀ TM1 ♦and TMA relays operated.◀ SL relay released after timed disconnect interval. Circuit restored to normal.
7a	If no further tests are to be made— Restore all circuits to normal.	

STEP	ACTION	VERIFICATION

C. Calling Party Disconnect

Caution: See paragraph 1.05.

5   At ALC—
Operate handset key to TALK; *start timing.*

L, TM relays operated.
If ALC for measured-rate INWATS service is provided for other than No. 1 ♦and No. 2 ESS offices—◀
TMA relay operated.
If ALC for measured-rate INWATS service is provided for No. 1 ♦and No. 2 ESS offices—◀
TM1 ♦and TMA relays operated.◀
When PC register or MR is provided—
At register location—
Register scores once.
♦When SZ register is provided—
At register location—
Register scores once.
When OF register is provided—
At register location—
Register scores once when call is sent to subscriber line overflow.◀

6   At originating office—
Disconnect call to trunk circuit; *stop timing.*

SL, TM relays released.
If ALC for measured-rate INWATS service is provided for other than No. 1 ♦and No. 2 ESS offices—◀
TMA relay released.
If ALC for measured-rate INWATS service is provided for No. 1 ♦and No. 2 ESS offices—◀
TM1 ♦and TMA relays released.◀
R1 relay operated.

7a   If no further tests are to be made—
Restore all circuits to normal.

All relays restored to normal.

D. Calling Party Disconnect—Manual Class of Service No. 5 Crossbar

Caution: See paragraph 1.05.

5   At ALC—
Operate handset key to TALK; *start timing.*

L, TM relays operated.
If ALC for measured-rate INWATS service is provided for dial terminating service with manual class of service for originations in No. 5 crossbar central office—

TMA relay operated.
When PC register or MR is provided—
At register location—
Register scores once.
♦When SZ register is provided—

STEP	ACTION	VERIFICATION
		At register location—
		Register scores once.
		When OF register is provided—
		At register location—
		Register scores once when call is sent to subscriber line overflow.◀
6	At originating office— Disconnect call to trunk circuit; **stop timing.**	SL relay released.
		TM relay momentarily released. If ALC for measured-rate INWATS service is provided for dial terminating service with manual class of service for originations in No. 5 crossbar central office— TMA relay released.
		R1, SL1, TM relays operated. If ALC for measured-rate INWATS service is provided for dial terminating service with manual class of service for originations in No. 5 crossbar central office— TMA relay operated. When PC register or MR is provided— At register location— Register scores once. ◆When SZ register is provided— At register location— Register scores once. When OF register is provided— At register location— Register scores once when call is sent to subscriber line overflow.◀
		Transmission path to PSHT established.
7a	If no further tests are to be made— Restore all circuits to normal.	All relays restored to normal.