

**AUXILIARY LINE CIRCUIT SD-99439-01**  
**ARRANGED FOR MEASURED-RATE**  
**INWATS SERVICE**  
**OPERATION TESTS**

**1. GENERAL**

**PAGE**

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

progress control of the TM timer and the release action of the ALC when the calling party disconnects first and the ALC is equipped to route to a PSHT.

**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.

**1.04** *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.*

**1.03** The following tests are covered:

**PAGE**

**A. INWATS Call Termination:**

This test checks the ability of the auxiliary line circuit (ALC) to terminate incoming traffic and verify the TM timer accuracy and PC, OF, SZ registers or MR scoring.

**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.*

**B. Called Party Disconnect:** This test checks the progress control of the TM timer and release action of the ALC in the event the called party disconnects first.

**C. Calling Party Disconnect:** This test checks the progress control of the TM timer and the release action of the ALC when the calling party disconnects first and the ALC is not equipped to route a permanent signal holding trunk (PSHT).

**D. Calling Party Disconnect—Manual Class of Service No. 5 Crossbar:** This test checks the

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**NOTICE**

Not for use or disclosure outside the Bell System except under written agreement

SECTION 201-826-501

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
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All Tests

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
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A. INWATS Call Termination

*Caution: See paragraph 1.05.*

5	At ALC— Operate handset key to TALK; <i>start timing.</i>	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.♦
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STEP	ACTION	VERIFICATION
6	When meter advances to next unit digit— Read and record elapsed time indicated by stopwatch.	
7	When meter advances again— <b>Stop timing</b> ; 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; <b>start timing</b> .	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; <b>stop timing</b> .	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.
7a	If no further tests are to be made— Restore all circuits to normal.	Circuit restored to normal.

STEP	ACTION	VERIFICATION
<b>C. Calling Party Disconnect</b>		
<i>Caution: See paragraph 1.05.</i>		
5	At ALC— Operate handset key to TALK; <i>start timing.</i>	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; <i>stop timing.</i>	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; <i>start timing.</i>	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—
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STEP	ACTION	VERIFICATION
6	At originating office— Disconnect call to trunk circuit; <i>stop timing</i> .	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.⚡
		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.