ORIGINATING MARKER

ROUTE AND RATE CROSS-CONNECTIONS TESTS

USING ROUTE AND RATE VERIFICATION TEST CIRCUIT SD-27720-01

NO. 1 CROSSBAR OFFICES

1. GENERAL

1.01 This section describes a method of verifying marker rating accuracy by matching the rate treatment output from each marker with an independent rating reference on all classes of service and assigned codes. Consistency checks between the markers in respect to routing and screening cross-connections are also made.

1.02 The tests covered are:

A. Normal Test: The following features are checked. (1) Talk charge cross-connections in the marker are checked against talk charge in test circuit. (2) Route relay cross-connections are compared between the markers. (3) Route relay bay 8 or foreign area translator groups. (4) 11X service codes.

B. Particular Class of Service: This test checks any one of a maximum of 30 classes of service provided.

C. Particular Marker Selection: This test makes a route and rate check on a particular marker.

D. Particular Office Code Selection: This test checks a particular office code.

E. Particular Selection of Route Relay Bay 8 or Foreign Area Translator Group: This test checks a route relay bay 8 or particular foreign area translator group.

F. Particular Selection 11X Service Codes: This test checks a particular 11X service code.

1.03 All lamps and keys for the route and rate verification test circuit are mounted on the originating trouble indicator.

1.04 This test circuit is arranged to test a second marker group if common to the originating trouble indicator circuit by operating MG2 key and performing the same tests.

1.05 During heavy traffic when an all-markers-busy signal is received, a marker is prevented from being seized. If the busy condition exceeds 5 seconds, the test frame blocks and a minor alarm sounds.

2. APPARATUS

All Tests

2.01 Route and rate verification test circuit, SD-27720-01.

2.02 Originating trouble indicator circuit, SD-25018-01.

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3. PREPARATION

STEP	ACTION	VERIFICATION
All Tests		
1	Restore all keys to normal.	

4. METHOD

STEP	ACTION	VERIFICATION
	A. Normal Test	
2	At originating trouble indicator circuit — Set code generator to position 200. Operate ACT, LP, ST keys, and FA key if provided.	Test circuit proceeds to test each marker. When all markers have been tested — EC lamp lighted.
3	Operate RL key.	Test circuit restored to normal.
4	Restore all keys to normal.	
	B. Particular Class of Service	
2	At originating trouble indicator circuit — Operate PCL key.	
3	Operate CS keys for particular class of service to be tested.	
4	Operate ACT, LP, ST keys.	Test circuit proceeds to test particular class of service, all codes in all markers. EC lamp lighted.
5	Operate RL key.	Test circuit restored to normal.
6	Restore all keys to normal.	
	C. Particular Marker Selection	
2	Operate ACTP key.	
3	Operate two DT- keys (one for the memory and one for match of marker selected).	
4	Operate LP, ST keys.	Test circuit proceeds to test marker selected and all codes and class of service. EC lamp lighted.
5	Operate RL key.	Test circuit restored to normal.
6	Restore all keys to normal.	
	D. Particular Office Code Selection	
2	Operate A, B, C, PC keys.	
3	Operate ACT, LP, ST keys.	Test circuit proceeds to test office code selected. EC lamp lighted.
4	Operate RL key.	Test circuit restored to normal.
5	Restore all keys to normal.	

STEP	ACTION	VERIFICATION
	E. Particular Selection of Route Relay Bay 8 or Foreign Area Translator Group	
2	Operate CC1-5, PC keys.	
3	Operate ACT, LP, ST keys.	Test circuit proceeds to test route relay bay 8 or foreign area translator group selected. EC lamp lighted.
4	Operate RL key.	Test set restored to normal.
5	Restore all keys to normal.	
	F. Particular Selection 11X Service Codes	
2	Operate CC6, PC keys.	
3	Operate ACT, LP, ST keys.	Test circuit proceeds to test 11X service code selected. EC lamp lighted.
4	Operate RL key.	Test set restored to normal.
5	Restore all keys to normal.	