DYNAMIC OVERLOAD CONTROL CIRCUIT ES-27742-01

TESTS

NO. 5 CROSSBAR OFFICES

1. GENERAL

1.01 This test checks that the dynamic overload control circuit in a No. 5 crossbar office will respond to a traffic overload signal received from the regional center to provide alternate route cancellation and/or to make busy all or part of the trunks between the regional center and the No. 5 crossbar office.

1.02 This section is reissued for the following reason:

(a) To add test B for checking the optional use of the DOC (Dynamic Overload Control) in a No. 5 crossbar office arranged for EADAS/NM (Engineering Administration Data Acquisition System Network Management).

This reissue affects the Equipment Test Lists.

1.03 The tests covered are:

A. Response to Traffic Overload Signal From Regional Center: This test checks that the dynamic overload control circuit in a No. 5 crossbar office will respond to a traffic overload signal received from the regional center and provide alternate route cancellation and/or make-busy all or part of the trunks between the regional center and No. 5 crossbar office.

B. ▶Response to Traffic Overload Signal From EADAS/NM Center: This test checks that the EADAS/NM may at times request to take over from the dynamic overload control, the control of route transfers.

1.04 Reference to SD-25762-01, Note 402, MTF jack, lamp, and key circuit, and visual inspection of punchings involved will determine how route transfer is controlled.

(a) Exclusively via the DOC circuit

(b) Exclusively via the EADAS/NM interface

(c) Either via DOC or via EADAS/NM.

1.05 If more than ten route transfer relays are provided, the TR2, TR3, TR4 are also provided and will operate from the TR1 relay in Step 12.◀

1.06 Test A requires action and verification at the regional center; jack, lamp, and key circuit; trunk make-busy circuit; and dynamic overload control circuit.

1.07 ▶Test B requires action and verification at EADAS/NM central unit; jack, lamp, and key circuit; and dynamic overload control circuit.◀

1.08 ***Lettered Steps:*** A letter, a, b, c, etc, added to a step number in Part 3 or 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 and B

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

3. METHOD

STEP	ACTION	VERIFICATION
A.	**Response to Traffic Overload Signal From Regional Center**	
1	Establish talking connection to regional center.	
2a	If option Z is provided— At trunk make-busy circuit— Block nonoperated TB relays associated with dynamic overload control circuit.	
3b	If option Y is provided— At jack, lamp, and key circuit— Block nonoperated RT_ relays associated with dynamic overload control circuit.	
4	Request regional center to transmit traffic overload signal.	At dynamic overload control circuit— S relay operated. SA relay operated momentarily SR relay operated. If option Z is provided— At trunk make-busy circuit— TB relays energized. If option Y is provided— At jack, lamp, and key circuit— RT_ relays energized. At regional center— Signal returned to regional center via telegraph send loop.
5	Request regional center to remove traffic overload signal.	At dynamic overload control circuit— S relay released. SR relay released. If option Z is provided— At trunk make-busy circuit— TB relays de-energized. If option Y is provided— At jack, lamp, and key circuit— RT_ relays de-energized.
6a	If option Z is provided— At trunk make-busy circuit— Remove blocking tools from TB relays.	
7b	If option Y is provided— At jack, lamp, and key circuit— Remove blocking tools from RT_ relays.	
8	Release talking connection to regional center.	

STEP	ACTION	VERIFICATION
B.	**Response to Traffic Overload Signal From EADAS/NM Center**	
1	Establish talking connection to EADAS/NM central unit.	
2	At MTF— Operate RTF key. ***Note:*** If route transfer is controlled either via DOC or EADAS/NM, operation of RTF key is required. If control is exclusively via EADAS/NM, operation of RTF key is not required. Refer to paragraph 1.04.	
3	Block nonoperated RT_ relays associated with EADAS/NM control.	
4	Request the EADAS/NM center to enable control of route transfer relays.	At MTF— TR1 relay operates. ***Note:*** TR2, TR3, and TR4 relays operate if provided. At EADAS/NM central unit— Discrete on indication received indicating that EADAS/NM has control of route transfer.
5	Request the EADAS/NM center to enable controls for the operation of route transfer relays.	At MTF— RT_ relays energized.
6	Request the EADAS/NM center to disable controls for the operation of route transfer relays.	RT_ relays de-energized.
7	Remove blocking tools from RT_ relays.	
8	Release talking connection to EADAS/NM center.	