

DYNAMIC OVERLOAD CONTROL CIRCUIT SD-27866-01

NO. 5 CROSSBAR OFFICES

1. GENERAL

1.01 This section provides a method of checking that the dynamic overload control circuit SD-27866-01 in a No. 5 crossbar office will respond to a traffic overload signal received from the regional center to provide alternate route cancellation between the regional center and the No. 5 crossbar office.

1.02 This section is reissued to include E and M lead signaling tests. This reissue does not affect Equipment Test Lists.

1.03 The following features are checked: (1) Seizure of dynamic overload control circuit by a signal received on a telegraph channel, E and M lead signaling, or on two-wire metallic facilities (2) Operation of the appropriate route transfer relays at the control marker group and at a maximum of nine other equivalent switching systems in the same building (3) Release or cancel the control of the route transfer at the control marker group initiated by the regional center.

1.04 This test requires action and verification at the regional center, master test frame, jack,

lamp, and key circuit (MTF), dynamic overload control circuit, control marker group, other marker groups, and/or switching systems associated with the circuit.

1.05 *Lettered Steps:* A letter a, b, 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 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

All Tests

2.01 Master test control circuit SD-25800-01.

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

2.03 322A (make-busy) plug.

3. METHOD

STEP	ACTION	VERIFICATION
1	At MTF of control marker group— Establish talking connection to regional center.	
2	Block nonoperated RT ₁ relays.	
3a	If more than one marker group or switching system is associated with dynamic control circuit— Request assistant at marker group or groups and/or at switching system or systems to block nonoperated RT ₁ relays or equivalent.	
4	Request assistant at regional center to transmit traffic overload signal.	At dynamic control circuit— If circuit under test is arranged to receive signaling on telegraph channel—

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STEP	ACTION	VERIFICATION
		<p>S relay operated. SA relay momentarily operated. SR relay operated. SRA relay operated, if provided. Circuit-seized signal returned to regional center. If circuit under test is arranged to receive signaling on 2-wire metallic facilities or on E and M Leads— S, SR relays operated. SRA relay operated, if provided. Circuit-seized signal returned to regional center. At MTF of control marker group— RT_ relays energized. If other marker group or groups and/or switching system or systems are associated with dynamic control circuit— RT_ relays or equivalent energized.</p>
5	Insert make-busy plug into CDC jack.	<p>At dynamic control circuit— CDC relay operated. SR relay released. SRA relay released, if provided. Circuit-seized signal to regional center removed. At MTF of control marker group— CDC lamp lighted. RT_ relays deenergized. If other marker group or groups and/or switching system or systems are associated with dynamic control circuit— RT_ relays or equivalent deenergized.</p>
6	Remove make-busy plug from CDC jack.	<p>At dynamic control circuit— CDC relay released. SR relay operated. SRA relay operated, if provided. Circuit-seized signal returned to regional center. At MTF of control marker group— CDC lamp extinguished. RT_ relays energized. If other marker group or groups and/or switching system or systems are associated with dynamic control circuit— RT_ relays or equivalent energized.</p>
7	Request regional center to remove traffic overload signal.	<p>At dynamic control circuit— S, SR, relays released, SRA relay released, if provided. Circuit-seized signal to regional center removed. At MTF of control marker group— RT_ relays deenergized. If other marker group or groups and/or switching system or systems are associated</p>

STEP	ACTION	VERIFICATION
8a	If more than one marker group or switching system is associated with dynamic control circuit— Request assistant at marker group or groups and/or at switching system or systems to remove blocking tools from RT_ relays or equivalent.	with dynamic control circuit— RT_ relays or equivalent deenergized.
9	At MTF of central marker group— Remove blocking tools from RT_ relays.	
10	Disconnect talking connection to regional center.	