L MULTIPLEX TERMINALS
COMMON EQUIPMENT
TERMINAL CIRCUITS
LOSS MEASUREMENTS
TRANSMITTING AND RECEIVING TRUNKS

Transmitting and receiving trunks are provided between the high-frequency patch bay and the line repeater bay. These trunks include pads that insert the required losses in the signal paths. The trunks must be removed from service to perform these tests.

The tests in this section are applicable to both LMX-1 and LMX-2 multiplex terminal equipment. Information formerly contained in this section has been updated to change the sequence of tests between the regular and spare transmitting and receiving trunks. ***Equipment Test Lists are not affected.***

The purpose of this test is to check the losses of the transmitting and receiving trunks (Fig. 1).

APPARATUS

This test requires a suitable signal generator and a selective receiver covering the proper frequency and power measuring capabilities as set forth in Section 356-010-500.

The signal generator should be capable of delivering a signal at 421 kHz into a 75-ohm input at power levels of −10 dBm and −46.7 dBm.

The selective receiver should be capable of measuring a 421-kHz signal from a 75-ohm output at power levels between −18 and −50 dBm.

In addition to the test equipment, 2 P2BJ cords are required.

STEP	PROCEDURE
	Check of Spare Transmitting Terminal Pad
1	Ascertain that the spare transmitting trunk is not in service.
2	Prepare the receiving test equipment (RTE) for a 75-ohm measurement of 421 kHz at −50.0 dBm.

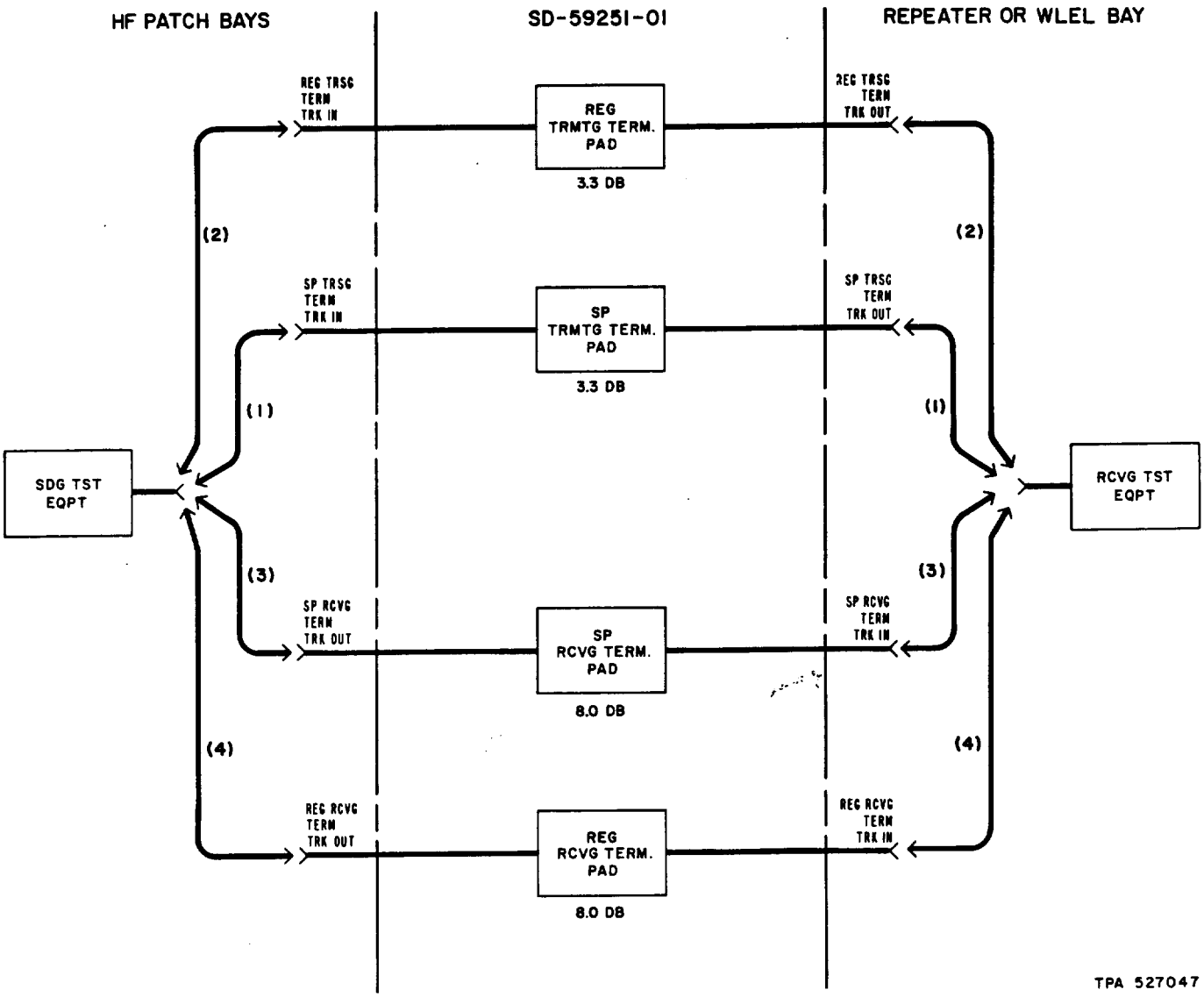

Fig. 1—Transmitting and Receiving Trunk Loss Measurements

STEP	PROCEDURE
3	Prepare the sending test equipment (STE) to deliver 421 kHz at −46.7 dBm into 75 ohms.
4	Make patches designated (1) in Fig. 1.
5	Read the RTE meter indication.
	Requirement: −50.0 dBm ±0.3 dB
6	Remove patches designated (1) in Fig. 1.

STEP	PROCEDURE
	Check of Regular Transmitting Terminal Pad
7	If the regular transmitting trunk is in use, patch service to the spare transmitting trunk.
8	Repeat Steps 2 and 3.
9	Make patches designated (2) in Fig. 1.
10	Repeat Step 5.
11	Remove patches designated (2) in Fig. 1.
	Check of Spare Receiving Terminal Pad
12	Ascertain that the spare receiving trunk is not in service.
13	Prepare the RTE for a 75-ohm measurement of 421 kHz at −18.0 dBm.
14	Prepare the STE to deliver 421 kHz at −10.0 dBm into 75 ohms.
15	Make patches designated (3) in Fig. 1.
16	Read the RTE meter indication.
	Requirement: −18.0 dBm ±0.3 dB
17	Remove patches designated (3) in Fig. 1.
	Check of Regular Receiving Terminal Pad
18	If the regular receiving trunk is in service, patch service to the spare receiving trunk.
19	Repeat Steps 13 and 14.
20	Make patches designated (4) in Fig. 1.
21	Repeat Step 16.
22	Remove patches designated (4) in Fig. 1.