6-PORT CONFERENCE CIRCUIT (SD-2H212-01)

OPERATIONAL TESTS

NO. 2/2B ELECTRONIC SWITCHING SYSTEM

CONTENTS PAGE

1. GENERAL

1.01 This section describes the method of testing the 6-port conference circuit (SD-2H212-01) used in the No. 2/2B Electronic Switching System (ESS) with Extended Features (EF-2, 2B-EF-2) or later generic programs.

1.02 Whenever this section is reissued, the reason(s) for reissue will be given in this paragraph.

1.03 The following tests will be performed:

(a) ***Circuit State and Scan Point Operation:*** This test verifies the operation of the circuit relays and the saturation of the ferrod sensors associated with the 6-port conference circuit.

(b) ***Transmission Loss Measurement:*** This test verifies the transmission loss of the 6-port conference circuit in the talk states.

1.04 The tests in this section are to be performed on a periodic basis as prescribed by No. 2/2B ESS equipment test list or when a malfunction of one of the circuits is suspected. Refer to Fig. 1 for test setup.

1.05 The tests will be performed from the trunk test panel (TTP) in conjunction with the maintenance display buffer and TTY. The keys on the TTP may be either a locking or nonlocking type. In order to differentiate between the two types of keys, the use of a locking type key shall be identified by the words "operate" and "release" and the use of a nonlocking type key shall be identified by the word "depress" in the ACTION column. For more detailed information about the TTP and its operation, refer to Section 232-130-301, Trunk Test Panel—Method of Operation.

Note: Nonlocking relays require a depression of at least one-half second to ensure system recognition.

1.06 ***Lettered Steps:*** A letter a, b, c, etc, added to a step number in Parts 3 and 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 the letter should be omitted.

1.07 Whenever the term TOUCH-TONE® telephone service is used, it refers to the equipment required to provide this service to the customer.

2. APPARATUS

2.01 The following apparatus should be used to perform these tests.

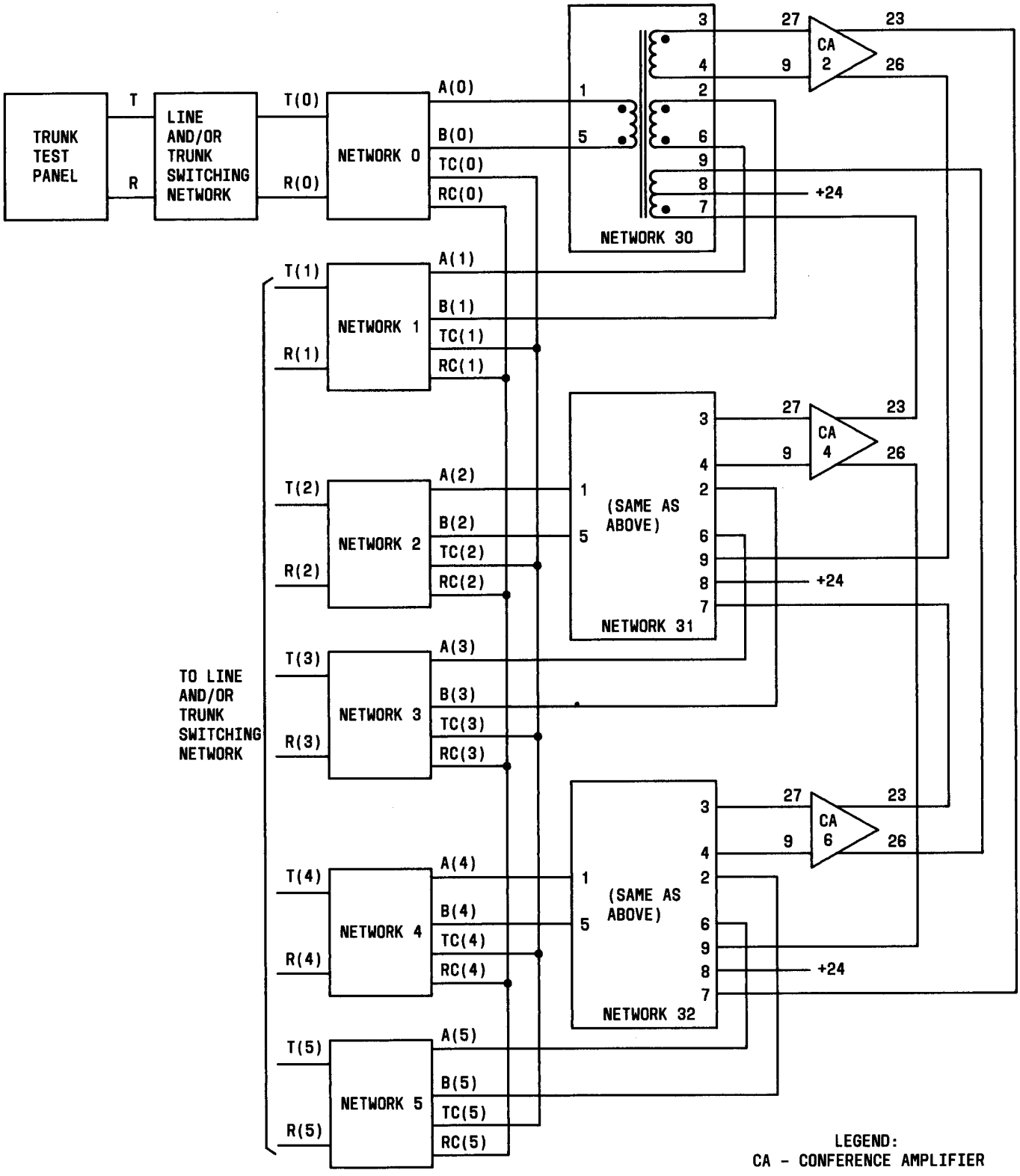

Fig. 1—6-Port Conference Circuit Test Setup

(a) Transmission measuring set (TMS) 23D or equivalent with appropriate test leads. (Equivalent apparatus must be capable of measuring power in 600- and 900-ohm circuits at 1 kHz. The accuracy must be ±0.1 dBm at 1 kHz at normal room temperature and the range must be from -15 dBm to +10 dBm).

Note: This item will not be required if the TTP is equipped with a TMS.

(b) Two test telephone sets equipped with appropriate cords terminated to 310 plugs.

(c) 508A relay blocking tools, as required.

(d) One 262C type (900-ohm) plug.

(e) One patch cord with a 310 plug on each end.

3. PREPARATION

3.01 Refer to office records to obtain the trunk group number (TGN), member number (MEMN), and the supervisory scan point number (SPN) of the circuits to be tested.

3.02 Verify the scan point number and obtain the MEMN for all the noncontrolling ports in the 6-port conference circuit as follows:

At maintenance TTY type in:

A VY:TRK: aaa bbb!

aaa = TGN

bbb = MEMN

When verifying the SPN of the PHANTON PORT (the controlling port that carries the busy idle status for the circuit), the system will respond by giving the TGN, MEMN, and SP for all the ports as follows:

AR VY TRK aaa bbb

OE nn gcsl
PDA cxzy b
APD cxzy br (Phantom Port)
DSP ss rrbb
SP ss rrbb
CGN ccc

TRK aaa bbb
OE nn gcsl
PDA cxzy b
APD cxzy br (Port 0)
DSP ss rrbb
SP ss rrbb
CGN ccc
.
. (Ports 1-4)
.

TRK aaa bbb
OE nn gcsl
PDA cxzy b
APD cxzy br (Port 5)
DSP ss rrbb
SP ss rrbb
CGN ccc

ss = scanner number

rr = scanner row

bb = bit in row.

The bb bit represents the first ferrod sensor (0) in the scanner row that is associated with the specific circuit. All other ferrod sensors assigned to the same circuit follow in consecutive order (0, 1, 2, etc). Refer to the output message manual (OM-2H200) for explanation of other data fields, if required.

3.03 Use the following procedure to make the 6-port conference circuit traffic busy and to connect it to the TTP.

Note: When connection to a 6-port conference circuit is required, the phantom port must be connected to the TTP prior to connecting the noncontrolling ports. ***Port 0 and the phantom port have the same OE and SPN.***

STEP	ACTION	VERIFICATION
All Tests		
1	At telephone set on TTP— Operate access trunk 1 key.	
2	Lift handset off-hook or operate TRFR key at TEL CKT on TTP if using headset.	At telephone set— Access trunk 1 lamp lighted. At ACCESS TRUNK 1 CONTROL— SUPV lamp lighted. At TEL CKT— TRFR lamp lighted if TRFR key is operated.
3	At TOUCH-TONE dial— Dial 1 + TGN + MEMN + ST to gain access to the ***phantom port*** of the 6-port conference circuit.	At ACCESS TRUNK 1 CONTROL— EQPT ST lamp lighted steadily or flashing at a rate of 120 interruptions per minute. At MISC TEST CONTROL— P&E lamp lighted if connection was successful. ***Note:*** If the EQPT ST lamp is flashing and the P&E lamp is not lighted steadily, the TTP is not connected to the circuit to be tested.
4a	If the P&E lamp is not lighted steadily— At ACCESS TRUNK 1 CONTROL— Depress RLS key.	
5a	Repeat Steps 3 and 4a until connection is successful.	
6	Place handset on-hook or release TRFR key.	At telephone set— Access trunk 1 lamp extinguished. At TEL CKT— TRFR lamp extinguished.
7	At telephone set— Operate access trunk 2 key.	At MISC TEST CONTROL— P&E lamp remains lighted.
8	Lift handset off-hook or operate TRFR key at TEL CKT on TTP if using headset.	At telephone set— Access trunk 2 lamp lighted. At ACCESS TRUNK 2 CONTROL— SUPV lamp lighted. At TEL CKT— TRFR lamp lighted if TRFR key is operated.
9	At TOUCH-TONE dial— Dial 1 + TGN + MEMN + ST to gain access to ***port 1*** of the 6-port conference circuit.	At ACCESS TRUNK 2 CONTROL— EQPT ST lamp lighted steadily or flashing at a rate of 120 interruptions per minute. ***Note:*** If the EQPT ST lamp and the P&E lamp are flashing, the TTP is not connected to the circuit to be tested.

STEP	ACTION	VERIFICATION
10b	If the P&E lamp is flashing— At ACCESS TRUNK 2 CONTROL— Depress RLS key.	
11b	Repeat Steps 9 and 10b until connection is successful.	
12	Place handset on-hook or release TRFR key.	At telephone set— Access trunk 2 lamp extinguished. At TEL CKT— TRFR lamp extinguished.

4. METHOD

4.01 If the verification procedure fails or if a malfunctioning circuit is indicated during any part of these tests, proceed as follows:

(1) Discontinue the test

(2) Troubleshoot the circuit which failed

(3) Replace faulty circuit components using standard repair procedures

(4) Repeat the test that failed. If verification is successful, continue the test.

STEP	ACTION	VERIFICATION
A. Circuit State and Scan Point Operation		
13	At ACCESS TRUNK 1 CONTROL— Depress VM key.	At ACCESS TRUNK 1 CONTROL— VM lamp lighted. At VOLTMETER CONTROL— 100K lamp lighted.
14	At VOLTMETER CONTROL— Operate GRD key.	At VOLTMETER CONTROL— GRD lamp lighted. At VOLTMETER— Meter indicates 0. A deflection on the meter indicates a resistance between the tip and ring leads.
15	At VOLTMETER CONTROL— Release GRD key.	At VOLTMETER CONTROL— GRD lamp extinguished.
16	At VOLTMETER CONTROL— Operate TR REV key.	At VOLTMETER CONTROL— TR REV lamp lighted. At VOLTMETER— Meter indicates 0.

STEP	ACTION	VERIFICATION
17	At VOLTMETER CONTROL— Depress FEMF key.	VOLTMETER CONTROL— FEMF lamp lighted. 100K lamp extinguished. At VOLTMETER— Meter indicates 0.
18	At VOLTMETER CONTROL— Release TR REV key.	At VOLTMETER CONTROL— TR REV lamp extinguished. At VOLTMETER— Meter indicates 0.
19	At VOLTMETER CONTROL— Depress MET VM key.	At VOLTMETER CONTROL— MET VM lamp lighted. FEMF lamp extinguished. At VOLTMETER— Meter indicates 0.
20	At test and control unit— Set PD GROUP switch to 0-5 position.	
21	Use TTY printout information from paragraph 3.02 for input to the following message.	
22	At maintenance TTY— For No. 2 ESS offices type in: UBRL TS:RSN:ssrr! ss = Number of the trunk scanner in decimal (0-11). rr = Number of the scanner row in decimal. For No. 2B ESS offices type in: MON:TSSN ssrr;RDT LAMPS: ss = Number of trunk scanner in decimal (0-11). rr = Number of scanner row in decimal (0-63). RDT LAMPS = Direct the result to the DISPLAY BUFFER.	At DISPLAY BUFFER— Lamps associated with ferrod sensors 0-5 for the 6-port conference circuit are displayed on the display buffer lamps and are lighted.
23	At PERIPHERAL DECODER POINTS— Operate 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp lighted.
24	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuit under test— In ***port 0*** relay A0 operated. At VOLTMETER— Meter indicates between 42.75 and 52.5 volts on 120-volt scale.
25	At front of writing shelf on TTP— Plug in test telephone set "A" into ACCESS TRK-1 jack and lift receiver off-hook.	At DISPLAY BUFFER— Lamp associated with ferrod sensor 0 extinguished.

STEP	ACTION	VERIFICATION
	Note: Voltmeter is disconnected from the circuit when ACCESS TRK-1 jack is used.	
26	At PERIPHERAL DECODER POINTS— Operate 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp lighted. 0 lamp remains lighted.
27	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At DISPLAY BUFFER— Lamp associated with ferrod sensor 0 lighted. At circuit under test— In ***port 0*** relay B0 operated and relay A0 remains operated.
28	At ACCESS TRUNK 1 CONTROL— Depress HOLD key.	At ACCESS TRUNK 1 CONTROL— HOLD lamp lighted. VM key extinguished. At VOLTMETER CONTROL— MET VM lamp extinguished.
29	At ACCESS TRUNK 2 CONTROL— Depress VM key. ***Note:*** When the VM key is activated, all relays in the accessed circuits are all returned to the idle state.	At ACCESS TRUNK 2 CONTROL— VM lamp lighted. At VOLTMETER CONTROL— 100K lamp lighted.
30	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuit under test— In ***port 0*** relays A0 and B0 operated.
31	At VOLTMETER CONTROL— Operate GRD key.	At VOLTMETER CONTROL— GRD lamp lighted. At VOLTMETER— Meter indicates 0. A deflection on the meter indicates a resistance between the tip and ring leads.
32	At VOLTMETER CONTROL— Release GRD key.	At VOLTMETER CONTROL— GRD lamp extinguished.
33	At VOLTMETER CONTROL— Operate TR REV key.	At VOLTMETER CONTROL— TR REV lamp lighted. At VOLTMETER— Meter indicates 0.
34	At VOLTMETER CONTROL— Depress FEMF key.	At VOLTMETER CONTROL— FEMF lamp lighted. 100K lamp extinguished. At VOLTMETER— Meter indicates 0.
35	At VOLTMETER CONTROL— Release TR REV key.	At VOLTMETER CONTROL— TR REV lamp extinguished.

STEP	ACTION	VERIFICATION
		At VOLTMETER— Meter indicates 0. FEMF lamp remains lighted.
36	At VOLTMETER CONTROL— Depress MET VM key.	At VOLTMETER CONTROL— MET VM lamp lighted. FEMF lamp extinguished. At VOLTMETER— Meter indicates 0.
37	At PERIPHERAL DECODER POINTS— Release 0 and 1 keys.	At PERIPHERAL DECODER POINTS— 0 and 1 lamps extinguished.
38	At test and control unit— Set PD GROUP switch to 6-11 position.	
39	At PERIPHERAL DECODER POINTS— Operate 9 key.	At PERIPHERAL DECODER POINTS— 9 lamp lighted.
40	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At VOLTMETER— Meter indicates between 42.75 and 52.5 volts on the 120-volt scale. At circuits under test— In ***port 1*** relay A1 operated. In ***port 0*** relays A0 and B0 remain operated.
41	At front of writing shelf on TTP— Plug in test telephone set "B" into ACCESS TRK-2 jack and lift receiver off-hook. ***Note:*** Voltmeter is disconnected from the circuit when ACCESS TRK-2 jack is used.	At DISPLAY BUFFER— Lamp associated with ferrod sensor 1 extinguished.
42	At PERIPHERAL DECODER POINTS— Operate 10 key.	At PERIPHERAL DECODER POINTS— 10 lamp lighted. 9 lamp remains lighted.
43	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At DISPLAY BUFFER— Lamp associated with ferrod sensor 1 lighted. At circuits under test— In ***port 1*** relay B1 operated and relay A1 remains operated. In ***port 0*** relays A0 and B0 remain operated.
44	At PERIPHERAL DECODER POINTS— Release 10 key.	At PERIPHERAL DECODER POINTS— 10 lamp extinguished. 9 lamp remains lighted.
45	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— In ***port 1*** relay B1 released. Relay A1 remains operated. In ***port 0*** relays A0 and B0 remain operated.

STEP	ACTION	VERIFICATION
		At DISPLAY BUFFER— Lamp associated with ferrod sensor 1 extinguished.
46	At PERIPHERAL DECODER POINTS— Release 9 key.	At PERIPHERAL DECODER POINTS— 9 lamp extinguished.
47	At test and control unit— Set PD GROUP switch to 0-5 position.	
48	At PERIPHERAL DECODER POINTS— Operate 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp lighted.
49	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At test telephone sets A and B— Verify that a talking path has been established between the two sets. At circuits under test— In ***port 0*** relay B0 released. Relay A0 remains operated. In ***port 1*** relay A1 remains operated. At DISPLAY BUFFER— Lamps associated with ferrod sensors 0 and 1 extinguished.
50	At PERIPHERAL DECODER POINTS— Operate 3 and 4 keys.	At PERIPHERAL DECODER POINTS— 3 and 4 lamps lighted. 0 lamp remains lighted.
51	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At test telephone sets A and B— Verify that a talking path has been established between the two sets. At circuits under test— Visually check that relay D0 in ***port 0*** is operated and relay D1 in ***port 1*** is operated.
52	At PERIPHERAL DECODER POINTS— Release 3 and 4 keys.	At PERIPHERAL DECODER POINTS— 3 and 4 lamps extinguished. 0 lamp remains lighted.
53	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— Visually check that relay D0 in ***port 0*** is released and relay D1 in ***port 1*** is released.
54	At front of writing shelf on TTP— Remove test telephone sets A and B from ACCESS TRK-1 jack and ACCESS TRK-2 jack, respectively.	At DISPLAY BUFFER— Lamps associated with ferrod sensor 0 and 1 lighted.
55	At PERIPHERAL DECODER POINTS— Operate 2 key.	At PERIPHERAL DECODER POINTS— 2 lamp lighted. 0 lamp remains lighted.

STEP	ACTION	VERIFICATION
56	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— In ***port 0*** relay C0 operated and relay A0 remains operated. In ***port 1*** relay A1 remains operated. At VOLTMETER— Meter indicates between 42.75 and 52.5 volts on 120-volt scale.
57	At PERIPHERAL DECODER POINTS— Release 0 and 2 keys.	At PERIPHERAL DECODER POINTS— 0 and 2 lamps extinguished.
58	At test and control unit— Set PD GROUP switch to 6-11 position.	
59	At PERIPHERAL DECODER POINTS— Operate 9 and 11 keys.	At PERIPHERAL DECODER POINTS— 9 and 11 lamps lighted.
60	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— In ***port 1*** relays A1 and C1 operated. In ***port 0*** relays A0 and C0 remain operated. At VOLTMETER— Meter indicates 0.
61	At front of writing shelf on TTP— Put 262C-type (900 ohms) plug into ACCESS TRK-1 jack.	
62	At VOLTMETER CONTROL— Operate GRD and 1K keys.	At VOLTMETER CONTROL— GRD and 1K lamps lighted. MET VM lamp extinguished. At VOLTMETER— Meter indicates between 9.6 and 11.6 volts on the 24-volt scale.
63	At VOLTMETER CONTROL— Release GRD key. Operate MET VM key.	At VOLTMETER CONTROL— GRD lamp extinguished. 1K lamp extinguished. MET VM lamp lighted. At VOLTMETER— Meter indicates 0.
64	At front of writing shelf on TTP— Remove 262C-type (900 ohms) plug from ACCESS TRK-1 jack.	
65	At PERIPHERAL DECODER POINTS— Release 9 and 11 keys.	At PERIPHERAL DECODER POINTS— 9 and 11 lamps extinguished.
66	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuit under test— In ***port 1*** relays A1 and C1 released.

STEP	ACTION	VERIFICATION
67	At test and control unit— Set PD GROUP switch to 0-5 position.	
68	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuit under test— In ***port 0*** relays A0 and C0 released.
69	At ACCESS TRUNK 2 CONTROL— Depress RLS key.	At ACCESS TRUNK 2 CONTROL— SUPV lamp extinguished. EQPT ST lamp extinguished. VM lamp extinguished. At VOLTMETER CONTROL— MET VM lamp extinguished.
70	At ACCESS TRUNK 1 CONTROL— Depress RLS key.	At ACCESS TRUNK 1 CONTROL— SUPV lamp extinguished. EQPT ST lamp extinguished. HOLD lamp extinguished. At MISC TEST CONTROL— P&E lamp extinguished.
71	Repeat Steps 1 through 6.	Same as Steps 1 through 6.
72	At telephone set on TTP— Lift handset off-hook or: At TEL CKT— Operate TRFR key.	At telephone set— Access trunk 2 lamp lighted. At ACCESS TRUNK 2 CONTROL— SUPV lamp lighted. At TEL CKT— TRFR lamp lighted if TRFR key is operated.
73	At TOUCH-TONE dial— Dial 1 + TGN + MEMN + ST to gain access to ***port 2*** of the 6-port conference circuit.	At ACCESS TRUNK 2 CONTROL— EQPT ST lamp lighted steadily or flashing at a rate of 120 interruptions per minute. ***Note:*** If the EQPT ST lamp and the P&E lamp are flashing, the TTP is not connected to the circuit to be tested.
74c	If the P&E lamp is flashing— At ACCESS TRUNK 2 CONTROL— Depress RLS key.	
75c	Repeat Steps 73 and 74c until connection is successful.	
76	Place handset on-hook or release TRFR key.	At telephone set— Access trunk 2 lamp extinguished. At TEL CKT— TRFR lamp extinguished.
77	At ACCESS TRUNK 2 CONTROL— Depress VM key.	At ACCESS TRUNK 2 CONTROL— VM lamp lighted.

STEP	ACTION	VERIFICATION
		At VOLTMETER CONTROL— 100K lamp lighted.
78	At PERIPHERAL DECODER POINTS— Operate 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp lighted.
79	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuit under test— In ***port 0*** relay A0 operated.
80	At VOLTMETER CONTROL— Operate GRD key.	At VOLTMETER CONTROL— GRD lamp lighted. At VOLTMETER— Meter indicates 0. A deflection of the meter indicates a resistance between the tip and ring leads.
81	At VOLTMETER CONTROL— Release GRD key.	At VOLTMETER CONTROL— GRD lamp extinguished.
82	At VOLTMETER CONTROL— Operate TR REV key.	At VOLTMETER CONTROL— TR REV lamp lighted. At VOLTMETER— Meter indicates 0.
83	At VOLTMETER CONTROL— Depress FEMF key.	At VOLTMETER CONTROL— FEMF lamp lighted. 100K lamp extinguished. At VOLTMETER— Meter indicates 0.
84	At VOLTMETER CONTROL— Release TR REV key.	At VOLTMETER CONTROL— TR REV lamp extinguished. At VOLTMETER— Meter indicates 0.
85	At VOLTMETER CONTROL— Depress MET VM key.	At VOLTMETER CONTROL— MET VM lamp lighted. FEMF lamp extinguished. At VOLTMETER— Meter indicates 0.
86	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At VOLTMETER— Meter indicates between 42.75 and 52.5 volts on the 120-volt scale. At circuits under test— In ***port 2*** relay A2 operated. In ***port 0*** relay A0 remains operated.
87	At front of writing shelf on TTP— Plug in test telephone set "A" into ACCESS TRK-1 jack and lift receiver off-hook.	At DISPLAY BUFFER— Lamps associated with ferrod sensors 0 and 2 extinguished.

STEP	ACTION	VERIFICATION
	Plug in test telephone set "B" into ACCESS TRK-2 jack and lift receiver off-hook. ***Note:*** Voltmeter is disconnected from the circuit when ACCESS TRK-2 jack is used.	
88	At PERIPHERAL DECODER POINTS— Operate 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp lighted. 0 lamp remains lighted.
89	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At DISPLAY BUFFER— Lamp associated with ferrod sensor 2 lighted. At circuits under test— In ***port 2*** relay B2 operated and relay A2 remains operated. In ***port 0*** relay A0 remains operated.
90	At PERIPHERAL DECODER POINTS— Release 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp extinguished. 0 lamp remains lighted.
91	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At DISPLAY BUFFER— Lamp associated with ferrod sensor 2 extinguished. At circuits under test— In ***port 2*** relay B2 released and relay A2 remains operated. In ***port 0*** relay A0 remains operated. At test telephone sets A and B— Verify that a talking path has been established between the two sets.
92	At PERIPHERAL DECODER POINTS— Operate 3 and 5 keys.	At PERIPHERAL DECODER POINTS— 3 and 5 lamps lighted. 0 lamp remains lighted.
93	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At test telephone sets A and B— Verify that a talking path has been established between the two sets. At circuits under test— Visually check that relay D0 in ***port 0*** is operated and D2 in ***port 2*** is operated.
94	At PERIPHERAL DECODER POINTS— Release 3 and 5 keys.	At PERIPHERAL DECODER POINTS— 3 and 5 lamps extinguished. 0 lamp remains lighted.
95	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— Visually check that relay D0 in ***port 0*** is released and relay D2 in ***port 2*** is released.
96	At front of writing shelf on TTP— Remove test telephone sets A and B from	At DISPLAY BUFFER— Lamps associated with ferrod sensors 0 and

STEP	ACTION	VERIFICATION
	ACCESS TRK-1 jack and ACCESS TRK-2 jack, respectively.	2 lighted.
97	At PERIPHERAL DECODER POINTS— Operate 2 key.	At PERIPHERAL DECODER POINTS— 2 lamp lighted. 0 lamp remains lighted.
98	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuit under test— In ***port 0*** relay C0 operated and relay A0 remains operated. At VOLTMETER— Meter indicates between 42.75 and 52.5 volts on the 120-volt scale.
99	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At circuits under test— In ***port 2*** relay C2 operated and relay A2 remains operated. In ***port 0*** relays A0 and C0 remain operated. At VOLTMETER— Meter indicates 0.
100	At front of writing shelf on TTP— Put 262C-type (900 ohms) plug into ACCESS TRK-1 jack.	
101	At VOLTMETER CONTROL— Operate GRD and 1K keys.	At VOLTMETER CONTROL— GRD and 1K lamps lighted. MET VM lamp extinguished. At VOLTMETER— Meter indicates between 9.6 and 11.6 volts on the 24-volt scale.
102	At VOLTMETER CONTROL— Release GRD key. Operate MET VM key.	At VOLTMETER CONTROL— GRD lamp extinguished. 1K lamp extinguished. MET VM lamp lighted. At VOLTMETER— Meter indicates 0.
103	At front of writing shelf on TTP— Remove 262C-type (900 ohms) plug from ACCESS TRK-1 jack.	
104	At PERIPHERAL DECODER POINTS— Release 0 and 2 keys.	At PERIPHERAL DECODER POINTS— 0 and 2 lamps extinguished.
105	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At circuits under test— In ***port 2*** relay C2 released. In ***port 0*** relays A0 and C0 remain operated.
106	At ACCESS TRUNK 2 CONTROL— Depress RLS key.	At ACCESS TRUNK 2 CONTROL— SUPV lamp extinguished.

STEP	ACTION	VERIFICATION
		EQPT ST lamp extinguished. VM lamp extinguished. At VOLTMETER CONTROL— MET VM lamp extinguished.
107	At ACCESS TRUNK 1 CONTROL— Depress RLS key.	At ACCESS TRUNK 1 CONTROL— SUPV lamp extinguished. EQPT ST lamp extinguished. At MISC TEST CONTROL— P&E lamp extinguished.
108	Repeat Steps 1 through 6.	Same as Steps 1 through 6.
109	At telephone set on TTP— Lift handset off-hook or: At TEL CKT— Operate TRFR key.	At telephone set— Access trunk 2 lamp lighted. At ACCESS TRUNK 2 CONTROL— SUPV lamp lighted. At TEL CKT— TRFR lamp lighted if TRFR key is operated.
110	At TOUCH-TONE dial— Dial 1 + TGN + MEMN + ST to gain access to ***port 3*** of the 6-port conference circuit.	At ACCESS TRUNK 2 CONTROL— EQPT ST lamp lighted steadily or flashing at a rate of 120 interruptions per minute. ***Note:*** If the EQPT ST lamp and the P&E lamp are flashing, the TTP is not connected to the circuit to be tested.
111d	If the P&E lamp is flashing— At ACCESS TRUNK 2 CONTROL— Depress RLS key.	
112d	Repeat Steps 110 and 111d until connection is successful.	
113	Place handset on-hook or release TRFR key.	At telephone set— Access trunk 2 lamp extinguished. At TEL CKT— TRFR lamp extinguished.
114	At ACCESS TRUNK 2 CONTROL— Depress VM key.	At ACCESS TRUNK 2 CONTROL— VM lamp lighted. At VOLTMETER CONTROL— 100K lamp lighted.
115	At PERIPHERAL DECODER POINTS— Operate 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp lighted.
116	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuit under test— In ***port 0*** relay A0 operated.

STEP	ACTION	VERIFICATION
117	At VOLTMETER CONTROL— Operate GRD key.	At VOLTMETER CONTROL— GRD lamp lighted. At VOLTMETER— Meter indicates 0. A deflection on the meter indicates a resistance between the tip and ring leads.
118	At VOLTMETER CONTROL— Release GRD key.	At VOLTMETER CONTROL— GRD lamp extinguished.
119	At VOLTMETER CONTROL— Operate TR REV key.	At VOLTMETER CONTROL— TR REV lamp lighted. At VOLTMETER— Meter indicates 0.
120	At VOLTMETER CONTROL— Depress FEMF key.	At VOLTMETER CONTROL— FEMF light lighted. 100K lamp extinguished. At VOLTMETER— Meter indicates 0.
121	At VOLTMETER CONTROL— Release TR REV key.	At VOLTMETER CONTROL— TR REV lamp extinguished. At VOLTMETER— Meter indicates 0.
122	At VOLTMETER CONTROL— Depress MET VM key.	At VOLTMETER CONTROL— MET VM lamp lighted. FEMF lamp extinguished. At VOLTMETER— Meter indicates 0.
123	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At VOLTMETER— Meter indicates between 42.75 and 52.5 volts on the 120-volt scale. At circuits under test— In ***port 3*** relay A3 operated. In ***port 0*** relay A0 remains operated.
124	At front of writing shelf on TTP— Plug in test telephone set "A" into ACCESS TRK-1 jack and lift receiver off-hook. Plug in test telephone set "B" into ACCESS TRK-2 jack and lift receiver off-hook. ***Note:*** The voltmeter is disconnected from the circuit when ACCESS TRK-2 jack is used.	At DISPLAY BUFFER— Lamps associated with ferrod sensors 0 and 3 extinguished.
125	At PERIPHERAL DECODER POINTS— Operate 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp lighted. 0 lamp remains lighted.

STEP	ACTION	VERIFICATION
126	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At DISPLAY BUFFER— Lamp associated with ferrod sensor 3 lighted. At circuits under test— In ***port 3*** relay B3 operated and relay A3 remains operated. In ***port 0*** relay A0 remains operated.
127	At PERIPHERAL DECODER POINTS— Release 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp extinguished. 0 lamp remains lighted.
128	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At DISPLAY BUFFER— Lamp associated with ferrod sensor 3 extinguished. At circuits under test— In ***port 3*** relay B3 released and relay A3 remains operated. In ***port 0*** relay A0 remains operated. At test telephone sets A and B— Verify that a talking path has been established between the two sets.
129	At PERIPHERAL DECODER POINTS— Operate 3 key.	At PERIPHERAL DECODER POINTS— 3 lamp lighted. 0 lamp remains lighted.
130	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuit under test— In ***port 0*** relay D0 operated and relay A0 remains operated.
131	At PERIPHERAL DECODER POINTS— Release 0 and 3 keys.	At PERIPHERAL DECODER POINTS— 0 and 3 lamps extinguished.
132	At test and control unit— Set PD GROUP switch to 6-11 position.	
133	At PERIPHERAL DECODER POINTS— Operate 6 key.	At PERIPHERAL DECODER POINTS— 6 lamp lighted.
134	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At test telephone sets A and B— Verify that a talking path has been established between the two sets. At circuits under test— Visually check that relay D0 in ***port 0*** is operated and relay D3 in ***port 3*** is operated.
135	At PERIPHERAL DECODER POINTS— Release 6 key.	At PERIPHERAL DECODER POINTS— 6 lamp extinguished.
136	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— In ***port 3*** relay D3 released and A0 remains operated. In ***port 0*** relays A0 and D0 remain operated.

STEP	ACTION	VERIFICATION
137	At test and control unit— Set PD GROUP switch to 0-5 position.	
138	At PERIPHERAL DECODER POINTS— Operate 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp lighted.
139	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— Visually check that relay D0 in ***port 0*** is released and relay D3 in ***port 3*** is released.
140	At front of writing shelf on TTP— Remove test telephone sets A and B from ACCESS TRK-1 jack and ACCESS TRK-2 jack, respectively.	At DISPLAY BUFFER— Lamps associated with ferrod sensors 0 and 3 lighted.
141	At PERIPHERAL DECODER POINTS— Operate 2 key.	At PERIPHERAL DECODER POINTS— 2 lamp lighted.
142	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuit under test— In ***port 0*** relay C0 operated and relay A0 remains operated. At VOLTMETER— Meter indicates between 42.75 and 52.5 volts on the 120-volt scale.
143	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At circuits under test— In ***port 3*** relay C3 operated and relay A3 remains operated. In ***port 0*** relays A0 and C0 remain operated. At VOLTMETER— Meter indicates 0.
144	At front of writing shelf on TTP— Put 262C-type (900 ohms) plug into ACCESS TRK-1 jack.	
145	At VOLTMETER CONTROL— Operate GRD and 1K keys.	At VOLTMETER CONTROL— GRD and 1K lamps lighted. MET VM lamp extinguished. At VOLTMETER— Meter indicates between 9.6 and 11.6 volts on the 24-volt scale.
146	At VOLTMETER CONTROL— Release GRD key. Operate MET VM key.	At VOLTMETER CONTROL— GRD lamp extinguished. 1K lamp extinguished. MET VM lamp lighted. At VOLTMETER— Meter indicates 0.

STEP	ACTION	VERIFICATION
147	At front of writing shelf on TTP— Remove 262C-type (900 ohms) plug from ACCESS TRK-1 jack.	
148	At PERIPHERAL DECODER POINTS— Release 0 and 2 keys.	At PERIPHERAL DECODER POINTS— 0 and 2 lamp extinguished.
149	At PERIPHERAL DECODER POINTS— Depress AT 1 and AT 2 keys.	At circuits under test— In ***port 3*** relays A3 and C3 released. In ***port 0*** relays A0 and C0 released.
150	At ACCESS TRUNK 2 CONTROL— Depress RLS key.	At ACCESS TRUNK 2 CONTROL— SUPV lamp extinguished. EQPT ST lamp extinguished. VM lamp extinguished. At VOLTMETER CONTROL— MET VM lamp extinguished.
151	At ACCESS TRUNK 1 CONTROL— Depress RLS key.	At ACCESS TRUNK 1 CONTROL— SUPV lamp extinguished. EQPT ST lamp extinguished. At MISC TEST CONTROL— P&E lamp extinguished.
152	Repeat Steps 1 through 6.	Same as Steps 1 through 6.
153	At telephone set on TTP— Lift handset off-hook or: At TEL CKT— Operate TRFR key.	At telephone set— Access trunk 2 lamp lighted. At ACCESS TRUNK 2 CONTROL— SUPV lamp lighted. At TEL CKT— TRFR lamp lighted if TRFR key is operated.
154	At TOUCH-TONE dial— Dial 1 + TGN + MEMN + ST to gain access to ***port 4*** of the 6-port conference circuit.	At ACCESS TRUNK 2 CONTROL— EQPT ST lamp lighted steadily or flashing at a rate of 120 interruptions per minute. ***Note:*** If the EQPT ST lamp and the P&E lamp are flashing, the TTP is not connected to the circuit to be tested.
155e	If the P&E lamp is flashing— At ACCESS TRUNK 2 CONTROL— Depress RLS key.	
156e	Repeat Steps 154 and 155e until connection is successful.	
157	Place handset on-hook or release TRFR key.	At telephone set— Access trunk 2 lamp extinguished. At TEL CKT— TRFR lamp extinguished.

STEP	ACTION	VERIFICATION
158	At ACCESS TRUNK 2 CONTROL— Depress VM key.	At ACCESS TRUNK 2 CONTROL— VM lamp lighted. At VOLTMETER CONTROL— 100K lamp lighted.
159	At PERIPHERAL DECODER POINTS— Operate 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp lighted.
160	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuit under test— In ***port 0*** relay A0 operated.
161	At VOLTMETER CONTROL— Operate GRD key.	At VOLTMETER CONTROL— GRD lamp lighted. At VOLTMETER— Meter indicates 0. A deflection on the meter indicates a resistance between the tip and ring leads.
162	At VOLTMETER CONTROL— Release GRD key.	At VOLTMETER CONTROL— GRD lamp extinguished.
163	At VOLTMETER CONTROL— Operate TR REV key.	At VOLTMETER CONTROL— TR REV lamp lighted. At VOLTMETER— Meter indicates 0.
164	At VOLTMETER CONTROL— Depress FEMF key.	At VOLTMETER CONTROL— FEMF lamp lighted. 100K lamp extinguished. At VOLTMETER— Meter indicates 0.
165	At VOLTMETER CONTROL— Release TR REV key.	At VOLTMETER CONTROL— TR REV lamp extinguished. At VOLTMETER— Meter indicates 0.
166	At VOLTMETER CONTROL— Depress MET VM key.	At VOLTMETER CONTROL— MET VM lamp lighted. FEMF lamp extinguished. At VOLTMETER— Meter indicates 0.
167	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At VOLTMETER— Meter indicates between 42.75 and 52.5 volts on the 120-volt scale. At circuits under test— In ***port 4*** relay A4 operated. In ***port 0*** relay A0 remains operated.
168	At front of writing shelf on TTP— Plug in test telephone set "A" into ACCESS	At DISPLAY BUFFER— Lamps associated with ferrod sensors 0 and

STEP	ACTION	VERIFICATION
	TRK-1 jack and lift receiver off-hook. Plug in test telephone set "B" into ACCESS TRK-2 jack and lift receiver off-hook. ***Note:*** Voltmeter is disconnected from the circuit when ACCESS TRK-2 jack is used.	4 extinguished.
169	At PERIPHERAL DECODER POINTS— Operate 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp lighted. 0 lamp remains lighted.
170	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At DISPLAY BUFFER— Lamp associated with ferrod sensor 4 lighted. At circuits under test— In ***port 4*** relay B4 operated and relay A4 remains operated. In ***port 0*** relay A0 remains operated.
171	At PERIPHERAL DECODER POINTS— Release 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp extinguished. 0 lamp remains lighted.
172	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At DISPLAY BUFFER— Lamp associated with ferrod sensor 4 extinguished. At circuits under test— In ***port 4*** relay B4 released and relay A4 remains operated. In ***port 0*** relay A0 remains operated. At test telephone sets A and B— Verify that a talking path has been established between the two sets.
173	At PERIPHERAL DECODER POINTS— Operate 3 key.	At PERIPHERAL DECODER POINTS— 3 lamp lighted. 0 lamp remains lighted.
174	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuit under test— In ***port 0*** relay D0 operated and relay A0 remains operated.
175	At PERIPHERAL DECODER POINTS— Release 0 and 3 keys.	At PERIPHERAL DECODER POINTS— 0 and 3 lamps extinguished.
176	At test and control unit— Set PD GROUP switch to 6-11 position.	
177	At PERIPHERAL DECODER POINTS— Operate 7 key.	At PERIPHERAL DECODER POINTS— 7 lamp lighted.
178	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At test telephone sets A and B— Verify that a talking path has been established between the two sets.

STEP	ACTION	VERIFICATION
		At circuits under test— Visually check that relay D0 in ***port 0*** is operated and relay D4 in ***port 4*** is operated.
179	At PERIPHERAL DECODER POINTS— Release 7 key.	At PERIPHERAL DECODER POINTS— 7 lamp extinguished.
180	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— In ***port 4*** relay D4 released and relay A4 remains operated. In ***port 0*** relays A0 and D0 remain operated.
181	At test and control unit— Set PD GROUP switch to 0-5 position.	
182	At PERIPHERAL DECODER POINTS— Operate 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp lighted.
183	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— Visually check that relay D0 in ***port 0*** is released and D4 in ***port 4*** is released.
184	At front of writing shelf on TTP— Remove test telephone sets A and B from ACCESS TRK-1 jack and ACCESS TRK-2 jack, respectively.	At DISPLAY BUFFER— Lamps associated with ferrod sensors 0 and 4 lighted.
185	At PERIPHERAL DECODER POINTS— Operate 2 key.	At PERIPHERAL DECODER POINTS— 2 lamp lighted. 0 lamp remains lighted.
186	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— In ***port 0*** relay C0 operated and relay A0 remains operated. In ***port 4*** relay A4 remains operated.
187	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At circuits under test— In ***port 4*** relays A4 and C4 operated. In ***port 0*** relays A0 and C0 remain operated.
188	At front of writing shelf on TTP— Put 262C-type (900 ohms) plug into ACCESS TRK-1 jack.	
189	At VOLTMETER CONTROL— Operate GRD and 1K keys.	At VOLTMETER CONTROL— GRD and 1K lamps lighted. MET VM lamp extinguished. At VOLTMETER— Meter indicates between 9.6 and 11.6 volts on the 24-volt scale.

STEP	ACTION	VERIFICATION
190	At VOLTMETER CONTROL— Release GRD key. Operate MET VM key.	At VOLTMETER CONTROL— GRD lamp extinguished. 1K lamp extinguished. MET VM lamp lighted. At VOLTMETER— Meter indicates 0.
191	At front of writing shelf in TTP— Remove 262C-type (900 ohms) plug from ACCESS TRK-1 jack.	
192	At PERIPHERAL DECODER POINTS— Release 0 and 2 keys.	At PERIPHERAL DECODER POINTS— 0 and 2 lamps extinguished.
193	At PERIPHERAL DECODER POINTS— Depress AT 1 and AT 2 keys.	At circuits under test— In ***port 0*** relays A0 and C0 released. In ***port 4*** relays A4 and C4 released.
194	At ACCESS TRUNK 2 CONTROL— Depress RLS key.	At ACCESS TRUNK 2 CONTROL— SUPV lamp extinguished. EQPT ST lamp extinguished. VM lamp extinguished. At VOLTMETER CONTROL— MET VM lamp extinguished.
195	At ACCESS TRUNK 1 CONTROL— Depress RLS key.	At ACCESS TRUNK 1 CONTROL— SUPV lamp extinguished. EQPT ST lamp extinguished. At MISC TEST CONTROL— P&E lamp extinguished.
196	Repeat Steps 1 through 6.	Same as Steps 1 through 6.
197	At TOUCH-TONE dial— Dial 1 + TGN + MEMN + ST to gain access to ***port 5*** of the 6-port conference circuit.	At ACCESS TRUNK CONTROL— EQPT ST lamp lighted steadily or flashing at a rate of 120 interruptions per minute. ***Note:*** If the EQPT ST lamp and the P&E lamp are flashing, the TTP is not connected to the circuit to be tested.
198f	If the P&E lamp is flashing— At ACCESS TRUNK 2 CONTROL— Depress RLS key.	
199f	Repeat Steps 197 and 198f until connection is successful.	
200	Place handset on-hook or release TRFR key.	At telephone set— Access trunk 2 lamp extinguished. At TEL CKT— TRFR lamp extinguished.

STEP	ACTION	VERIFICATION
201	At ACCESS TRUNK 2 CONTROL— Depress VM key.	At ACCESS TRUNK 2 CONTROL— VM lamp lighted. At VOLTMETER CONTROL— 100K lamp lighted.
202	At PERIPHERAL DECODER POINTS— Operate 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp lighted.
203	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuit under test— In ***port 0*** relay A0 operated.
204	At VOLTMETER CONTROL— Operate GRD key.	At VOLTMETER CONTROL— GRD lamp lighted. At VOLTMETER— Meter indicates 0. A deflection on the meter indicates a resistance between the tip and ring leads.
205	At VOLTMETER CONTROL— Release GRD key.	At VOLTMETER CONTROL— GRD lamp extinguished.
206	At VOLTMETER CONTROL— Operate TR REV key.	At VOLTMETER CONTROL— TR REV lamp lighted. At VOLTMETER— Meter indicates 0.
207	At VOLTMETER CONTROL— Depress FEMF key.	At VOLTMETER CONTROL— FEMF lamp lighted. 100K lamp extinguished. At VOLTMETER— Meter indicates 0.
208	At VOLTMETER CONTROL— Release TR REV key.	At VOLTMETER CONTROL— TR REV lamp extinguished. At VOLTMETER— Meter indicates 0.
209	At VOLTMETER CONTROL— Depress MET VM key.	At VOLTMETER CONTROL— MET VM lamp lighted. FEMF lamp extinguished. At VOLTMETER— Meter indicates 0.
210	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At VOLTMETER— Meter indicates between 42.75 and 52.5 volts on the 120-volt scale. At circuits under test— In ***port 5*** relay A5 operated. In ***port 0*** relay A0 remains operated.
211	At front of writing shelf on TTP— Plug in test telephone set "A" into ACCESS	At DISPLAY BUFFER— Lamps associated with ferrod sensors 0 and

STEP	ACTION	VERIFICATION
	TRK-1 jack and lift receiver off-hook. Plug in test telephone set "B" into ACCESS TRK-2 jack and lift receiver off-hook. ***Note:*** Voltmeter is disconnected from the circuit when ACCESS TRK-2 jack is used.	5 extinguished.
212	At PERIPHERAL DECODER POINTS— Operate 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp lighted. 0 lamp remains lighted.
213	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At DISPLAY BUFFER— Lamp associated with ferrod sensor 5 lighted. At circuits under test— In ***port 5*** relay B5 operated and relay A5 remains operated. In ***port 0*** relay A0 remains operated.
214	At PERIPHERAL DECODER POINTS— Release 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp extinguished. 0 lamp remains lighted.
215	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At DISPLAY BUFFER— Lamp associated with ferrod sensor 5 extinguished. At circuits under test— In ***port 5*** relay B5 released and relay A5 remains operated. In ***port 0*** relay A0 remains operated. At test telephone sets A and B— Verify that a talking path has been established between the two sets.
216	At PERIPHERAL DECODER POINTS— Operate 3 key.	At PERIPHERAL DECODER POINTS— 3 lamp lighted. 0 lamp remains lighted.
217	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuit under test— In ***port 0*** relay D0 operated and relay A0 remains operated.
218	At PERIPHERAL DECODER POINTS— Release 0 and 3 keys.	At PERIPHERAL DECODER POINTS— 0 and 3 lamps extinguished.
219	At test and control unit— Set PD GROUP switch to 6-11 position.	
220	At PERIPHERAL DECODER POINTS— Operate 8 key.	At PERIPHERAL DECODER POINTS— 8 lamp lighted.
221	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At test telephone sets A and B— Verify that a talking path has been established between the two sets.

STEP	ACTION	VERIFICATION
		At circuits under test— Visually check that relay D0 in ***port 0*** is operated and relay D5 in ***port 5*** is operated.
222	At PERIPHERAL DECODER POINTS— Release 8 key.	At PERIPHERAL DECODER POINTS— 8 lamp extinguished.
223	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— In ***port 5*** relay D5 released and relay A5 remains operated. In ***port 0*** relays A0 and D0 remain operated.
224	At test and control unit— Set PD GROUP switch to 0-5 position.	
225	At PERIPHERAL DECODER POINTS— Operate 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp lighted.
226	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— Visually check that relay D0 in ***port 0*** is released and relay D5 in ***port 5*** is released.
227	At front of writing shelf on TTP— Remove test telephone sets A and B from ACCESS TRK-1 jack and ACCESS TRK-2 jack, respectively.	At DISPLAY BUFFER— Lamps associated with ferrod sensors 0 and 5 lighted.
228	At PERIPHERAL DECODER POINTS— Operate 2 key.	At PERIPHERAL DECODER POINTS— 2 lamp lighted. 0 lamp remains lighted.
229	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— In ***port 0*** relay C0 operated and relay A0 remains operated. In ***port 5*** relay A5 remains operated.
230	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At circuits under test— In ***port 5*** relays A5 and C5 operated. In ***port 0*** relays A0 and C0 remain operated.
231	At front of writing shelf on TTP— Put 262C-type (900 ohms) plug into ACCESS TRK-1 jack.	
232	At VOLTMETER CONTROL— Operate GRD and 1K keys.	At VOLTMETER CONTROL— GRD and 1K lamps lighted. MET VM lamp extinguished. At VOLTMETER— Meter indicates between 9.6 and 11.6 volts on the 24-volt scale.

STEP	ACTION	VERIFICATION
233	At VOLTMETER CONTROL— Release GRD key. Operate MET VM key.	At VOLTMETER CONTROL— GRD lamp extinguished. 1K lamp extinguished. MET VM lamp lighted. At VOLTMETER— Meter indicates 0.
234	At front of writing shelf on TTP— Remove 262C-type (900 ohms) plug from ACCESS TRK-1 jack.	
235	At PERIPHERAL DECODER POINTS— Release 0 and 2 keys.	At PERIPHERAL DECODER POINTS— 0 and 2 lamps extinguished.
236	At PERIPHERAL DECODER POINTS— Depress AT 1 and AT 2 keys.	At circuits under test— In ***port 0*** relays A0 and C0 released. In ***port 5*** relays A5 and C5 released.
237	At ACCESS TRUNK 2 CONTROL— Depress RLS key.	At ACCESS TRUNK 2 CONTROL— SUPV lamp extinguished. EQPT ST lamp extinguished. VM lamp extinguished. At VOLTMETER CONTROL— MET VM lamp extinguished.
238	At ACCESS TRUNK 1 CONTROL— Depress RLS key.	At ACCESS TRUNK 1 CONTROL— SUPV lamp extinguished. EQPT ST lamp extinguished. At MISC TEST CONTROL— P&E lamp extinguished.
239	To clear the DISPLAY BUFFER— At maintenance TTY— For No. 2 ESS offices type in: UB SY:CLB! For No. 2B ESS offices type in: STOP:UTIL!	At DISPLAY BUFFER— Ferrod sensor display removed from display buffer lamps.
B. Transmission Loss Measurement		
13	Repeat Steps 1 through 12.	
14	At ACCESS TRUNK 1 CONTROL— Depress VM key.	At ACCESS TRUNK 1 CONTROL— VM lamp lighted. At VOLTMETER CONTROL— 100K lamp lighted. At VOLTMETER— Meter indicates 0.
15	At VOLTMETER CONTROL— Depress GRD and 1K keys.	At VOLTMETER CONTROL— GRD and 1K lamps lighted.

STEP	ACTION	VERIFICATION
		100K lamp extinguished. At VOLTMETER— Meter indicates 0.
16	At test and control unit— Set PD GROUP switch to 0-5 position.	
17	At PERIPHERAL DECODER POINTS— Operate 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp lighted.
18	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At VOLTMETER— Meter indicates between 9.6 and 11.6 volts on the 24-volt scale. At circuit under test— In ***port 0*** relay B0 operated.
19	At PERIPHERAL DECODER POINTS— Release 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp extinguished.
20	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At VOLTMETER— Meter indicates 0. At circuit under test— In ***Port 0*** relay B0 released.
21	At VOLTMETER CONTROL— Release GRD key.	At VOLTMETER CONTROL— GRD lamp extinguished. 1K lamp remains lighted.
22	At ACCESS TRUNK 1 CONTROL— Depress XMSN key.	At ACCESS TRUNK 1 CONTROL— XMSN lamp lighted. VM lamp extinguished. At VOLTMETER CONTROL— 1K lamp extinguished.
23	At ACCESS TRUNK 2 CONTROL— Depress VM key.	At ACCESS TRUNK 2 CONTROL— VM lamp lighted. At VOLTMETER CONTROL— 100K lamp lighted. At VOLTMETER— Meter indicates 0.
24	At VOLTMETER CONTROL— Depress GRD and 1K keys.	At VOLTMETER CONTROL— GRD and 1K lamps lighted. 100K lamp extinguished. At VOLTMETER— Meter indicates 0.
25	At test and control unit— Set PD GROUP switch to 6-11 position.	
26	At PERIPHERAL DECODER POINTS— Operate 10 key.	At PERIPHERAL DECODER POINTS— 10 lamp lighted.

STEP	ACTION	VERIFICATION
27	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At VOLTMETER— Meter indicates between 9.6 and 11.6 volts on the 24-volt scale. At circuit under test— In ***port 1*** relay B1 operated.
28	At PERIPHERAL DECODER POINTS— Release 10 key.	At PERIPHERAL DECODER POINTS— 10 lamp extinguished.
29	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At VOLTMETER— Meter indicates 0. At circuit under test— In ***port 1*** relay B1 released.
30	At VOLTMETER CONTROL— Release GRD key.	At VOLTMETER CONTROL— GRD lamp extinguished. 1K lamp remains lighted.
31	At ACCESS TRUNK 2 CONTROL— Depress XMSN key.	At ACCESS TRUNK 2 CONTROL— XMSN lamp lighted. VM lamp extinguished. At VOLTMETER CONTROL— 1K lamp extinguished.
32g	If TTP is equipped with a TMS— At TRANSMISSION MEASURING CONTROL— Set MEASURE switch to MEAS 2. Set TEST SET switch to TMS. Depress CAL key.	At TRANSMISSION MEASURING CONTROL— CAL lamp lighted.
33h	If TTP is not equipped with a TMS— At front of writing shelf on TTP— Connect portable TMS to TRANS MEAS-TMS 1 jack using appropriate cord. Set DIAL MEAS EXT switch to MEAS.	
34	At TMS— Set ADD DBM switch to 0 position.	
35	At TRANSMISSION MEASURING CONTROL— Set SEND switch to 0 DBM 1 KHZ position.	
36	At TMS— Adjust CAL 1 for 0 dBm on meter.	
37g	If TTP is equipped with a TMS— At TRANSMISSION MEASURING CONTROL— Release CAL key.	At TRANSMISSION MEASURING CONTROL— CAL lamp extinguished.
38	At circuits under test— Block operate relay S0 in ***port 0.*** Block operate relay S1 in ***port 1.***	

STEP	ACTION	VERIFICATION
39	At test and control unit— Set PD GROUP switch to 0-5 position.	
40	At PERIPHERAL DECODER POINTS— Operate 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp lighted.
41	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	
42	At PERIPHERAL DECODER POINTS— Release 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp extinguished.
43	At test and control unit— Set PD GROUP switch to 6-11 position.	
44	At PERIPHERAL DECODER POINTS— Operate 9 key.	At PERIPHERAL DECODER POINTS— 9 lamp lighted.
45	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At TMS— Meter indicates between 0 and -2.0 dBm. At circuit under test— In ***port 0*** relay A0 operated. In ***port 1*** relay A1 operated.
46	At TRANSMISSION MEASURING CONTROL— Depress REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp lighted. At TMS— Meter indicates between 0 and -2.0 dBm.
47	At TRANSMISSION MEASURING CONTROL— Release REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp extinguished.
48	At PERIPHERAL DECODER POINTS— Release 9 key.	At PERIPHERAL DECODER POINTS— 9 lamp extinguished.
49	At test and control unit— Set PD GROUP switch to 0-5 position.	
50	At PERIPHERAL DECODER POINTS— Operate 0 and 1 keys.	At PERIPHERAL DECODER POINTS— 0 and 1 lamps lighted.
51	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	
52	At PERIPHERAL DECODER POINTS— Release 0 and 1 keys.	At PERIPHERAL DECODER POINTS— 0 and 1 lamps extinguished.
53	At test and control unit— Set PD GROUP switch to 6-11 position.	
54	At PERIPHERAL DECODER POINTS— Operate 9 and 10 keys.	At PERIPHERAL DECODER POINTS— 9 and 10 lamps lighted.

STEP	ACTION	VERIFICATION
55	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At TMS— Meter indicates between 0 and -1.5 dBm. At circuits under test— In ***port 0*** relay B0 operated and A0 remains operated. In ***port 1*** relay B1 operated and A1 remains operated.
56	At TRANSMISSION MEASURING CONTROL— Depress REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp lighted. At TMS— Meter indicates between 0 and -1.5 dBm.
57	At TRANSMISSION MEASURING CONTROL— Release REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp extinguished.
58	At PERIPHERAL DECODER POINTS— Release 9 and 10 keys.	At PERIPHERAL DECODER POINTS— 9 and 10 lamps extinguished.
59	At test and control unit— Set PD GROUP switch to 0-5 position.	
60	At PERIPHERAL DECODER POINTS— Operate 0, 1, 3, and 4 keys.	At PERIPHERAL DECODER POINTS— 0, 1, 3, and 4 lamps lighted.
61	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At TMS— Meter indicates between 0 and -1.5 dBm. At circuits under test— In ***port 0*** relay D0 operated and relays A0 and B0 remain operated. In ***port 1*** relay D1 operated and relays A1 and B1 remain operated.
62	At TRANSMISSION MEASURING CONTROL— Depress REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp lighted. At TMS— Meter indicates between 0 and -1.5 dBm.
63	At TRANSMISSION MEASURING CONTROL— Release REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp extinguished.
64	At PERIPHERAL DECODER POINTS— Release 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp extinguished. 0, 3, and 4 lamps remain lighted.
65	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— In ***port 0*** relay B0 released and relays A0 and D0 remain operated. In ***port 1*** relays A1, B1, and D1 remain operated.

STEP	ACTION	VERIFICATION
66	At PERIPHERAL DECODER POINTS— Release 3 and 4 keys.	At PERIPHERAL DECODER POINTS— 3 and 4 lamps extinguished. 0 lamp remains lighted.
67	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At TMS— Meter indicates between 0 and -2.0 dBm. At circuits under test— In ***port 1*** relay B1 released and relays A1 and D1 remain operated. In ***port 0*** relays A0 and D0 remain operated.
68	At TRANSMISSION MEASURING CONTROL— Depress REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp lighted. At TMS— Meter indicates between 0 and -2.0 dBm.
69	At TRANSMISSION MEASURING CONTROL— Release REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp extinguished.
70	At PERIPHERAL DECODER POINTS— Release 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp extinguished.
71	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuit under test— In ***port 0*** relays A0 and D0 released.
72	At test and control unit— Set PD GROUP switch to 6-11 position.	
73	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuit under test— In ***port 1*** relays A1 and D1 released.
74	At circuits under test— Remove blocks from S0 and S1 relays.	
75	At ACCESS TRUNK 2 CONTROL— Depress RLS key.	At ACCESS TRUNK 2 CONTROL— SUPV lamp extinguished. EQPT ST lamp extinguished. XMSN lamp extinguished.
76	At ACCESS TRUNK 1 CONTROL— Depress RLS key.	At ACCESS TRUNK 1 CONTROL— SUPV lamp extinguished. EQPT ST lamp extinguished XMSN lamp extinguished.
77	Repeat Steps 1 through 12 to gain access to ***port 0*** and ***port 2*** of the 6-port conference circuit.	Same as Steps 1 through 12.
78	At test and control unit— Set PD GROUP switch to 0-5 position.	

STEP	ACTION	VERIFICATION
79	At ACCESS TRUNK 2 CONTROL— Depress VM key.	At ACCESS TRUNK 2 CONTROL— VM lamp lighted. At VOLTMETER CONTROL— 100K lamp lighted. At VOLTMETER— Meter indicates 0.
80	At VOLTMETER CONTROL— Depress GRD and 1K keys.	At VOLTMETER CONTROL— GRD and 1K lamps lighted. 100K lamp extinguished. At VOLTMETER— Meter indicates 0.
81	At PERIPHERAL DECODER POINTS— Operate 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp lighted.
82	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At VOLTMETER— Meter indicates between 9.6 and 11.6 volts on the 24-volt scale. At circuit under test— In ***port 2*** relay B2 operated.
83	At PERIPHERAL DECODER POINTS— Release 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp extinguished.
84	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At VOLTMETER— Meter indicates 0. At circuit under test— In ***port 2*** relay B2 released.
85	At VOLTMETER CONTROL— Release GRD key.	At VOLTMETER CONTROL— GRD lamp extinguished. 1K lamp remains lighted.
86	At ACCESS TRUNK 1 CONTROL— Depress XMSN key.	At ACCESS TRUNK 1 CONTROL— XMSN lamp lighted.
87	At ACCESS TRUNK 2 CONTROL— Depress XMSN key.	At ACCESS TRUNK 2 CONTROL— XMSN lamp lighted. VM lamp extinguished. At VOLTMETER CONTROL— 1K lamp extinguished.
88	At circuits under test— Block operate S0 in ***port 0***. Block operate S2 in ***port 2***.	
89	At PERIPHERAL DECODER POINTS— Operate 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp lighted.
90	At PERIPHERAL DECODER POINTS— Depress AT 1 and AT 2 keys.	At TMS— Meter indicates between 0 and -2.0 dBm.

STEP	ACTION	VERIFICATION
		At circuits under test— In ***port 2*** relay A2 operated. In ***port 0*** relay A0 operated.
91	At TRANSMISSION MEASURING CONTROL— Depress REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp lighted. At TMS— Meter indicates between 0 and -2.0 dBm.
92	At TRANSMISSION MEASURING CONTROL— Release REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp extinguished.
93	At PERIPHERAL DECODER POINTS— Operate 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp lighted. 0 lamp remains lighted.
94	At PERIPHERAL DECODER POINTS— Depress AT 1 and AT 2 keys.	At TMS— Meter indicates between 0 and -1.5 dBm. At circuits under test— In ***port 0*** relay B0 operated and relay A0 remains operated. In ***port 2*** relay B2 operated and A2 remains operated.
95	At TRANSMISSION MEASURING CONTROL— Depress REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp lighted. At TMS— Meter indicates between 0 and -1.5 dBm.
96	At TRANSMISSION MEASURING CONTROL— Release REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp extinguished.
97	At PERIPHERAL DECODER POINTS— Operate 3 and 5 keys.	At PERIPHERAL DECODER POINTS— 3 and 5 lamps lighted.
98	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At TMS— Meter indicates between 0 and -1.5 dBm. At circuits under test— In ***port 0*** relay D0 operated and relays A0 and B0 remain operated. In ***port 2*** relay D2 operated and relays A2 and B2 remain operated.
99	At TRANSMISSION MEASURING CONTROL— Depress REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp lighted. At TMS— Meter indicates between 0 and -1.5 dBm.
100	At TRANSMISSION MEASURING CONTROL— Release REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp extinguished.

STEP	ACTION	VERIFICATION
101	At PERIPHERAL DECODER POINTS— Release 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp extinguished. 0, 3, and 5 lamps remain lighted.
102	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— In ***port 0*** relay B0 released and relays A0 and D0 remain operated. In ***port 2*** relays A2, B2 and D2 remain operated.
103	At PERIPHERAL DECODER POINTS— Release 3 and 5 keys.	At PERIPHERAL DECODER POINTS— 3 and 5 lamps extinguished. 0 lamp remains lighted.
104	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At TMS— Meter indicates between 0 and -2.0 dBm. At circuits under test— In ***port 2*** relay B2 released and relays A2 and D2 remain operated. In ***port 0*** relays A0 and D0 remain operated.
105	At TRANSMISSION MEASURING CONTROL— Depress REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp lighted. At TMS— Meter indicates between 0 and -2.0 dBm.
106	At TRANSMISSION MEASURING CONTROL— Release REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp extinguished.
107	At PERIPHERAL DECODER POINTS— Release 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp extinguished.
108	At PERIPHERAL DECODER POINTS— Depress AT 1 and AT 2 keys.	At circuits under test— In ***port 0*** relays A0 and D0 released. In ***port 2*** relays A2 and D2 released.
109	At circuits under test— Remove blocks from S0 and S2 relays.	
110	At ACCESS TRUNK 2 CONTROL— Depress RLS key.	At ACCESS TRUNK 2 CONTROL— SUPV lamp extinguished. EQPT ST lamp extinguished. XMSN lamp extinguished.
111	At ACCESS TRUNK 1 CONTROL— Depress RLS key.	At ACCESS TRUNK 1 CONTROL— SUPV lamp extinguished. EQPT ST lamp extinguished. XMSN lamp extinguished.
112	Repeat Steps 1 through 12 to gain access to ***port 0*** and ***port 3*** of the 6-port conference circuit.	Same as Steps 1 through 12.

STEP	ACTION	VERIFICATION
113	At ACCESS TRUNK 2 CONTROL— Depress VM key.	At ACCESS TRUNK 2 CONTROL— VM lamp lighted. At VOLTMETER CONTROL— 100K lamp lighted. At VOLTMETER— Meter indicates 0.
114	At VOLTMETER CONTROL— Depress GRD and 1K keys.	At VOLTMETER CONTROL— GRD and 1K lamps lighted. 100K lamp extinguished. At VOLTMETER— Meter indicates 0.
115	At PERIPHERAL DECODER POINTS— Operate 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp lighted.
116	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At VOLTMETER— Meter indicates between 9.6 and 11.6 volts on the 24-volt scale. At circuit under test— In ***port 3*** relay B3 operated.
117	At PERIPHERAL DECODER POINTS— Release 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp extinguished.
118	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At VOLTMETER— Meter indicates 0. At circuit under test— In ***port 3*** relay B3 released.
119	At VOLTMETER CONTROL— Release GRD key.	At VOLTMETER CONTROL— GRD lamp extinguished. 1K lamp remains lighted.
120	At ACCESS TRUNK 1 CONTROL— Depress XMSN key.	At ACCESS TRUNK 1 CONTROL— XMSN lamp lighted.
121	At ACCESS TRUNK 2 CONTROL— Depress XMSN key.	At ACCESS TRUNK 2 CONTROL— XMSN lamp lighted. VM lamp extinguished. At VOLTMETER CONTROL— 1K lamp extinguished.
122	At circuit under test— Block operate S0 in ***port 0.*** Block operate S3 in ***port 3.***	
123	At PERIPHERAL DECODER POINTS— Operate 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp lighted.
124	At PERIPHERAL DECODER POINTS— Depress AT 1 and AT 2 keys.	At TMS— Meter indicates between 0 and -2.0 dBm.

STEP	ACTION	VERIFICATION
		At circuits under test— In ***port 0*** relay A0 operated. In ***port 3*** relay A3 operated.
125	At TRANSMISSION MEASURING CONTROL— Depress REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp lighted. At TMS— Meter indicates between 0 and -2.0 dBm.
126	At TRANSMISSION MEASURING CONTROL— Release REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp extinguished.
127	At PERIPHERAL DECODER POINTS— Operate 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp lighted. 0 lamp remains lighted.
128	At PERIPHERAL DECODER POINTS— Depress AT 1 and AT 2 keys.	At TMS— Meter indicates between 0 and -1.5 dBm. At circuits under test— In ***port 3*** relay B3 operated and relay A3 remains operated. In ***port 0*** relay B0 operated and relay A0 remains operated.
129	At TRANSMISSION MEASURING CONTROL— Depress REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp lighted. At TMS— Meter indicates between 0 and -1.5 dBm.
130	At TRANSMISSION MEASURING CONTROL— Release REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp extinguished.
131	At PERIPHERAL DECODER POINTS— Release 0 and 1 keys.	At PERIPHERAL DECODER POINTS— 0 and 1 lamps extinguished.
132	At test and control unit— Set PD GROUP switch to 6-11 position.	
133	At PERIPHERAL DECODER POINTS— Operate 6 key.	At PERIPHERAL DECODER POINTS— 6 lamp lighted.
134	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— In ***port 3*** relay D3 operated and relays A3 and B3 remain operated. In ***port 0*** relays A0 and B0 remain operated.
135	At test and control unit— Set PD GROUP switch to 0-5 position.	
136	At PERIPHERAL DECODER POINTS— Operate 1 and 3 keys.	At PERIPHERAL DECODER POINTS— 1 and 3 lamps lighted. 0 lamp remains lighted.

STEP	ACTION	VERIFICATION
137	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At TMS— Meter indicates between 0 and -1.5 dBm At circuits under test— In ***port 0*** relay D0 operated and relays A0 and B0 remain operated. In ***port 3*** relays A3, B3 and D3 remain operated.
138	At TRANSMISSION MEASURING CONTROL— Depress REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp lighted. At TMS— Meter indicates between 0 and -1.5 dBm.
139	At TRANSMISSION MEASURING CONTROL— Release REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp extinguished.
140	At PERIPHERAL DECODER POINTS— Release 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp extinguished. 0 and 3 lamps remain lighted.
141	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— In ***port 0*** relay B0 released and relays A0 and D0 remain operated. In ***port 3*** relays A3, B3, and D3 remain operated.
142	At PERIPHERAL DECODER POINTS— Release 3 key.	At PERIPHERAL DECODER POINTS— 3 lamp extinguished. 0 lamp remains lighted.
143	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At TMS— Meter indicates between 0 and -2.0 dBm. At circuits under test— In ***port 3*** relay B3 released and relays A3 and D3 remain operated. In ***port 0*** relays A0 and D0 remain operated.
144	At TRANSMISSION MEASURING CONTROL— Depress REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp lighted. At TMS— Meter indicates between 0 and -2.0 dBm.
145	At TRANSMISSION MEASURING CONTROL— Release REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp extinguished.
146	At PERIPHERAL DECODER POINTS— Release 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp extinguished.
147	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At circuits under test— In ***port 3*** relay A3 released and relay D3 remains operated. In ***port 0*** relays A0 and D0 remain operated.

STEP	ACTION	VERIFICATION
148	At test and control unit— Set PD GROUP switch to 6-11 position.	
149	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— In ***port 3*** relay D3 released. In ***port 0*** relays A0 and D0 remain operated.
150	At test and control unit— Set PD GROUP switch to 0-5 position.	
151	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuit under test— In ***port 0*** relays A0 and D0 released.
152	At circuits under test— Remove blocks from S0 and S3 relays.	
153	At ACCESS TRUNK 2 CONTROL— Depress RLS key.	At ACCESS TRUNK 2 CONTROL— SUPV lamp extinguished. EQPT ST lamp extinguished. XMSN lamp extinguished.
154	At ACCESS TRUNK 1 CONTROL— Depress RLS key.	At ACCESS TRUNK 1 CONTROL— SUPV lamp extinguished. EQPT ST lamp extinguished. XMSN lamp extinguished.
155	Repeat Steps 1 through 12 to gain access to ***port 0*** and ***port 4*** of the 6-port conference circuit.	Same as Steps 1 through 12.
156	At ACCESS TRUNK 2 CONTROL— Depress VM key.	At ACCESS TRUNK 2 CONTROL— VM lamp lighted. At VOLTMETER CONTROL— 100K lamp lighted. At VOLTMETER— Meter indicates 0.
157	At VOLTMETER CONTROL— Depress GRD and 1K keys.	At VOLTMETER CONTROL— GRD and 1K lamps lighted. 100K lamp extinguished. At VOLTMETER— Meter indicates 0.
158	At PERIPHERAL DECODER POINTS— Operate 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp lighted.
159	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At VOLTMETER— Meter indicates between 9.6 and 11.6 volts on the 24-volt scale. At circuit under test— In ***port 4*** relay B4 operated.

STEP	ACTION	VERIFICATION
160	At PERIPHERAL DECODER POINTS— Release 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp extinguished.
161	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At VOLTMETER— Meter indicates 0. At circuit under test— In ***port 4*** relay B4 released.
162	At VOLTMETER CONTROL— Release GRD key.	At VOLTMETER CONTROL— GRD lamp extinguished. 1K lamp remains lighted.
163	At ACCESS TRUNK 1 CONTROL— Depress XMSN key.	At ACCESS TRUNK 1 CONTROL— XMSN lamp lighted.
164	At ACCESS TRUNK 2 CONTROL— Depress XMSN key.	At ACCESS TRUNK 2 CONTROL— XMSN lamp lighted. VM lamp extinguished. At VOLTMETER CONTROL— 1K lamp extinguished.
165	At circuit under test— Block operate S0 in ***port 0.*** Block operate S4 in ***port 4.***	
166	At PERIPHERAL DECODER POINTS— Operate 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp lighted.
167	At PERIPHERAL DECODER POINTS— Depress AT 1 and AT 2 keys.	At TMS— Meter indicates between 0 and -2.0 dBm. At circuits under test— In ***port 0*** relay A0 operated. In ***port 4*** relay A4 operated.
168	At TRANSMISSION MEASURING CONTROL— Depress REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp lighted. At TMS— Meter indicates between 0 and -2.0 dBm.
169	At TRANSMISSION MEASURING CONTROL— Release REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp extinguished.
170	At PERIPHERAL DECODER POINTS— Operate 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp lighted. 0 lamp remains lighted.
171	At PERIPHERAL DECODER POINTS— Depress AT 1 and AT 2 keys.	At TMS— Meter indicates between 0 and -1.5 dBm. At circuits under test— In ***port 0*** relay B0 operated and relay A0 remains operated.

STEP	ACTION	VERIFICATION
		In ***port 4*** relay B4 operated and A4 remains operated.
172	At TRANSMISSION MEASURING CONTROL— Depress REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp lighted. At TMS— Meter indicates between 0 and -1.5 dBm.
173	At TRANSMISSION MEASURING CONTROL— Release REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp extinguished.
174	At PERIPHERAL DECODER POINTS— Release 0 and 1 keys.	At PERIPHERAL DECODER POINTS— 0 and 1 lamps extinguished.
175	At test and control unit— Set PD GROUP switch to 6-11 position.	
176	At PERIPHERAL DECODER POINTS— Operate 7 key.	At PERIPHERAL DECODER POINTS— 7 lamp lighted.
177	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— In ***port 4*** relay D4 operated and relays A4 and B4 remains operated. In ***port 0*** relays A0 and B0 remain operated.
178	At PERIPHERAL DECODER POINTS— Release 7 key.	At PERIPHERAL DECODER POINTS— 7 lamp extinguished.
179	At test and control unit— Set PD GROUP switch to 0-5 position.	
180	At PERIPHERAL DECODER POINTS— Operate 0, 1, and 3 keys.	At PERIPHERAL DECODER POINTS— 0, 1, and 3 lamps lighted.
181	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At TMS— Meter indicates between 0 and -1.5 dBm. At circuits under test— In ***port 0*** relay D0 operated and relays A0 and B0 remain operated. In ***port 4*** relays A4, B4, and D4 remain operated.
182	At TRANSMISSION MEASURING CONTROL— Depress REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp lighted. At TMS— Meter indicates between 0 and -1.5 dBm.
183	At TRANSMISSION MEASURING CONTROL— Release REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp extinguished.

STEP	ACTION	VERIFICATION
184	At PERIPHERAL DECODER POINTS— Release 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp extinguished. 0 and 3 lamps remain lighted.
185	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— In ***port 0*** relay B0 released and relays A0 and D0 remain operated. In ***port 4*** relays A4, B4, and D4 remain operated.
186	At PERIPHERAL DECODER POINTS— Release 3 key.	At PERIPHERAL DECODER POINTS— 3 lamp extinguished. 0 lamp remains lighted.
187	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At TMS— Meter indicates between 0 and -2.0 dBm. At circuits under test— In ***port 4*** relay B4 released and relays A4 and D4 remain operated. In ***port 0*** relays A0 and D0 remain operated.
188	At TRANSMISSION MEASURING CONTROL— Depress REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp lighted. At TMS— Meter indicates between 0 and -2.0 dBm.
189	At TRANSMISSION MEASURING CONTROL— Release REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp extinguished.
190	At PERIPHERAL DECODER POINTS— Release 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp extinguished.
191	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At circuits under test— In ***port 4*** relay A4 released and relay D4 remains operated. In ***port 0*** relays A0 and D0 remains operated.
192	At test and control unit— Set PD GROUP switch to 6-11 position.	
193	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— In ***port 4*** relay D4 released. In ***port 0*** relays A0 and D0 remain operated.
194	At test and control unit— Set PD GROUP switch to 0-5 position.	
195	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuit under test— In ***port 0*** relays A0 and D0 released.
196	At circuits under test— Remove blocks from S0 and S4 relays.	

STEP	ACTION	VERIFICATION
197	At ACCESS TRUNK 2 CONTROL— Depress RLS key.	At ACCESS TRUNK 2 CONTROL— SUPV lamp extinguished. EQPT ST lamp extinguished. XMSN lamp extinguished.
198	At ACCESS TRUNK 1 CONTROL— Depress RLS key.	At ACCESS TRUNK 1 CONTROL— SUPV lamp extinguished. EQPT ST lamp extinguished. XMSN lamp extinguished.
199	Repeat Steps 1 through 12 to gain access to ***ports 0*** and ***5*** of the 6-port conference circuit.	Same as Steps 1 through 12.
200	At ACCESS TRUNK 2 CONTROL— Depress VM key.	At ACCESS TRUNK 2 CONTROL— VM lamp lighted. At VOLTMETER CONTROL— 100K lamp lighted. At VOLTMETER— Meter indicates 0.
201	At VOLTMETER CONTROL— Depress GRD and 1K keys.	At VOLTMETER CONTROL— GRD and 1K lamps lighted. At VOLTMETER— Meter indicates 0.
202	At PERIPHERAL DECODER POINTS— Operate 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp lighted.
203	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At VOLTMETER— Meter indicates between 9.6 and 11.6 volts on the 24-volt scale. At circuit under test— In ***port 5*** relay B5 operated.
204	At PERIPHERAL DECODER POINTS— Release 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp extinguished.
205	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At VOLTMETER— Meter indicates 0. At circuit under test— In ***port 5*** relay B5 released.
206	At VOLTMETER CONTROL— Release GRD key.	At VOLTMETER CONTROL— GRD lamp extinguished. 1K lamp remains lighted.
207	At ACCESS TRUNK 1 CONTROL— Depress XMSN key.	At ACCESS TRUNK 1 CONTROL— XMSN lamp lighted.
208	At ACCESS TRUNK 2 CONTROL— Depress XMSN key.	At ACCESS TRUNK 2 CONTROL— XMSN lamp lighted. VM lamp extinguished.

STEP	ACTION	VERIFICATION
		AT VOLTMETER CONTROL— 1K lamp extinguished.
209	At circuits under test— Block operate S0 in ***port 0.*** Block operate S5 in ***port 5.***	
210	At PERIPHERAL DECODER POINTS— Operate 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp lighted.
211	At PERIPHERAL DECODER POINTS— Depress AT 1 and AT 2 keys.	At TMS— Meter indicates between 0 and -2.0 dBm. At circuits under test— In ***port 0*** relay A0 operated. In ***port 5*** relay A5 operated.
212	At TRANSMISSION MEASURING CONTROL— Depress REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp lighted. At TMS— Meter indicates between 0 and -2.0 dBm.
213	At TRANSMISSION MEASURING CONTROL— Release REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp extinguished.
214	At PERIPHERAL DECODER POINTS— Operate 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp lighted. 0 lamp remains lighted.
215	At PERIPHERAL DECODER POINTS— Depress AT 1 and AT 2 keys.	At TMS— Meter indicates between 0 and -1.5 dBm. At circuits under test— In ***port 0*** relay B0 operated and relay A0 remains operated. In ***port 5*** relay B5 operated and relay A5 remains operated.
216	At TRANSMISSION MEASURING CONTROL— Depress REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp lighted. At TMS— Meter indicates between 0 and -1.5 dBm.
217	At TRANSMISSION MEASURING CONTROL— Release REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp extinguished.
218	At PERIPHERAL DECODER POINTS— Release 0 and 1 keys.	At PERIPHERAL DECODER POINTS— 0 and 1 lamps extinguished.
219	At test and control unit— Set PD GROUP switch to 6-11 position.	
220	At PERIPHERAL DECODER POINTS— Operate 8 key.	At PERIPHERAL DECODER POINTS— 8 lamp lighted.

STEP	ACTION	VERIFICATION
221	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— In ***port 5*** relay D5 operated and relays A5 and B5 remain operated. In ***port 0*** relays A0 and B0 remain operated.
222	At PERIPHERAL DECODER POINTS— Release 8 key.	At PERIPHERAL DECODER POINTS— 8 lamp extinguished.
223	At test and control unit— Set PD GROUP switch to 0-5 position.	
224	At PERIPHERAL DECODER POINTS— Operate 0, 1, and 3 keys.	At PERIPHERAL DECODER POINTS— 0, 1, and 3 lamps lighted.
225	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At TMS— Meter indicates between 0 and -1.5 dBm. At circuits under test— In ***port 0*** relay D0 operated and relays A0 and B0 remain operated. In ***port 5*** relays A5, B5, and D5 remain operated.
226	At TRANSMISSION MEASURING CONTROL— Depress REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp lighted. At TMS— Meter indicates between 0 and -1.5 dBm.
227	At TRANSMISSION MEASURING CONTROL— Release REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp extinguished.
228	At PERIPHERAL DECODER POINTS— Release 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp extinguished. 0 and 3 lamps remain lighted.
229	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— In ***port 0*** relay B0 released and relays A0 and D0 remain operated. In ***port 5*** relays A5, B5, and D5 remain operated.
230	At PERIPHERAL DECODER POINTS— Release 3 key.	At PERIPHERAL DECODER POINTS— 3 lamp extinguished. 0 lamp remains lighted.
231	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At TMS— Meter indicates between 0 and -2.0 dBm. At circuits under test— In ***port 5*** relay B5 released and relays A5 and D5 remain operated. In ***port 0*** relays A0 and D0 remain operated.

STEP	ACTION	VERIFICATION
232	At TRANSMISSION MEASURING CONTROL— Depress REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp lighted. At TMS— Meter indicates between 0 and -2.0 dBm.
233	At TRANSMISSION MEASURING CONTROL— Release REV TST key.	At TRANSMISSION MEASURING CONTROL— REV TST lamp extinguished.
234	At PERIPHERAL DECODER POINTS— Release 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp extinguished.
235	At PERIPHERAL DECODER POINTS— Depress AT 2 key.	At circuits under test— In ***port 5*** relay A5 released and relay D5 remains operated. In ***port 0*** relays A0 and D0 remain operated.
236	At test and control unit— Set PD GROUP switch to 6-11 position.	
237	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— In ***port 5*** relay D5 released. In ***port 0*** relays A0 and D0 remain operated.
238	At test and control unit— Set PD GROUP switch to 0-5 position.	
239	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuit under test— In ***port 0*** relays A0 and D0 released.
240	At circuits under test— Remove blocks from S0 and S5 relays.	
241	At ACCESS TRUNK 2 CONTROL— Depress RLS key.	At ACCESS TRUNK 2 CONTROL— SUPV lamp extinguished. EQPT ST lamp extinguished. XMSN lamp extinguished.
242	At ACCESS TRUNK 1 CONTROL— Depress RLS key.	At ACCESS TRUNK 1 CONTROL— SUPV lamp extinguished. EQPT ST lamp extinguished. XMSN lamp extinguished. At MISC TEST CONTROL— P&E lamp extinguished.
243	Repeat Steps 1 through 6 for access trunk 1 to gain access to the ***phantom port*** of the 6-port conference circuit.	Same as Steps 1 through 6.
244	Repeat Steps 7 through 12 for access trunk 2 to gain access to ***port 2*** of the 6-port conference circuit.	Same as Steps 7 through 12.

STEP	ACTION	VERIFICATION
245	Repeat Steps 7 through 12 for access trunk 3 to gain access to ***port 4*** of the 6-port conference circuit.	Same as Steps 7 through 12.
246	At ACCESS TRUNK 2 CONTROL— Depress XMSN key.	At ACCESS TRUNK 2 CONTROL— XMSN lamp lighted.
247	At front of writing shelf on TTP— Plug patch cord into DBM 0 jack and ACCESS TRK-3 jack.	
248	At circuits under test— Block operate S4 relay in ***port 4.*** Block operate S2 relay in ***port 2.***	
249	At PERIPHERAL DECODER POINTS— Operate 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp lighted.
250	At PERIPHERAL DECODER POINTS— Depress AT 2 and AT 3 keys.	At TMS— Meter indicates between 0 and -2.0 dBm. At circuits under test— In ***port 4*** relay A4 operated. In ***port 2*** relay A2 operated.
251	At PERIPHERAL DECODER POINTS— Operate 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp lighted. 0 lamp remains lighted.
252	At PERIPHERAL DECODER POINTS— Depress AT 2 and AT 3 keys.	At TMS— Meter indicates between 0 and -1.5 dBm. At circuits under test— In ***port 2*** relay B2 operated and relay A2 remains operated. In ***port 4*** relay B4 operated and relay A4 remains operated.
253	At PERIPHERAL DECODER POINTS— Release 0 and 1 keys.	At PERIPHERAL DECODER POINTS— 0 and 1 lamps extinguished.
254	At test and control unit— Set PD GROUP switch to 6-11 position.	
255	At PERIPHERAL DECODER POINTS— Operate 7 key.	At PERIPHERAL DECODER POINTS— 7 lamp lighted.
256	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— In ***port 4*** relay D4 operated and relays A4 and B4 remain operated. In ***port 2*** relays A2 and B2 remain operated.
257	At PERIPHERAL DECODER POINTS— Release 7 key.	At PERIPHERAL DECODER POINTS— 7 lamp extinguished.

STEP	ACTION	VERIFICATION
258	At test and control unit— Set PD GROUP switch to 0-5 position.	
259	At PERIPHERAL DECODER POINTS— Operate 5 key.	At PERIPHERAL DECODER POINTS— 5 lamp lighted.
260	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At TMS— Meter indicates between 0 and -1.5 dBm. At circuits under test— In ***port 2*** relay D2 operated and relays A2 and B2 remain operated. In ***port 4*** relays A4, B4, and D4 remain operated.
261	At PERIPHERAL DECODER POINTS— Release 5 key.	At PERIPHERAL DECODER POINTS— 5 lamp extinguished.
262	At PERIPHERAL DECODER POINTS— Operate 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp lighted.
263	At PERIPHERAL DECODER POINTS— Depress AT 2 and AT 3 keys.	At TMS— Meter indicates between 0 and -2.0 dBm. At circuits under test— In ***port 4*** relay B4 released and relays A4 and D4 remain operated. In ***port 2*** relay B2 released and relays A2 and D2 remain operated.
264	At PERIPHERAL DECODER POINTS— Release 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp extinguished.
265	At PERIPHERAL DECODER POINTS— Depress AT 2 and AT 3 keys.	At circuits under test— In ***port 2*** relay A2 released and relay D2 remains operated. In ***port 4*** relay A4 released and relay D4 remains operated.
266	At test and control unit— Set PD GROUP switch to 6-11 position.	
267	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— In ***port 4*** relay D4 released. In ***port 2*** relay D2 remains operated.
268	At test and control unit— Set PD GROUP switch to 0-5 position.	
269	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuit under test— In ***port 2*** relay D2 released.
270	At circuits under test— Remove blocks from S2 and S4 relays.	

STEP	ACTION	VERIFICATION
271	At front of writing shelf on TTP— Remove patch cord from DBM 0 jack and ACCESS TRK-3 jack.	
272h	If TTP is not equipped with a TMS— At front of writing shelf on TTP— Remove cord from TRANS MEAS-TM 1 jack.	
273	At ACCESS TRUNK 2 CONTROL and ACCESS TRUNK 3 CONTROL— Depress RLS keys.	At ACCESS TRUNK 2 CONTROL and ACCESS TRUNK 3 CONTROL— SUPV lamps extinguished. EQPT ST lamps extinguished. XMSN lamps extinguished.
274	At ACCESS TRUNK 1 CONTROL— Depress RLS key.	At ACCESS TRUNK 1 CONTROL— SUPV lamp extinguished. EQPT ST lamp extinguished. At MISC TEST CONTROL— P&E lamp extinguished.
275	Repeat Steps 1 through 6 for access trunk 1 to gain access to the ***phantom port*** of the 6-port conference circuit.	Same as Steps 1 through 6.
276	Repeat Steps 7 through 12 for access trunk 2 to gain access to ***port 4*** of the 6-port conference circuit.	Same as Steps 7 through 12.
277	Repeat Steps 7 through 12 for access trunk 3 to gain access to ***port 2*** of the 6-port conference circuit.	Same as Steps 7 through 12.
278	At ACCESS TRUNK 2 CONTROL— Depress XMSN key.	At ACCESS TRUNK 2 CONTROL— XMSN lamp lighted.
279	At front of writing shelf on TTP— Plug patch cord into DBM 0 jack and ACCESS TRK-3 jack.	
280	At circuits under test— Block operate S2 relay in ***port 2.*** Block operate S4 relay in ***port 4.***	
281	At PERIPHERAL DECODER POINTS— Operate 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp lighted.
282	At PERIPHERAL DECODER POINTS— Depress AT 2 and AT 3 keys.	At TMS— Meter indicates between 0 and -2.0 dBm. At circuits under test— In ***port 2*** relay A2 operated. In ***port 4*** relay A4 operated.

STEP	ACTION	VERIFICATION
283	At PERIPHERAL DECODER POINTS— Operate 1 key.	At PERIPHERAL DECODER POINTS— 1 lamp lighted. 0 lamp remains lighted.
284	At PERIPHERAL DECODER POINTS— Depress AT 2 and AT 3 keys.	At TMS— Meter indicates between 0 and -1.5 dBm. In ***port 2*** relay B2 operated and relay A2 remains operated. In ***port 4*** relay B4 operated and relay A4 remains operated.
285	At PERIPHERAL DECODER POINTS— Release 0 and 1 keys.	At PERIPHERAL DECODER POINTS— 0 and 1 lamps extinguished.
286	At test and control unit— Set PD GROUP switch to 6-11 position.	
287	At PERIPHERAL DECODER POINTS— Operate 7 key.	At PERIPHERAL DECODER POINTS— 7 lamp lighted.
288	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— In ***port 4*** relay D4 operated and relays A4 and B4 remain operated. In ***port 2*** relays A2 and B2 remain operated.
289	At PERIPHERAL DECODER POINTS— Release 7 key.	At PERIPHERAL DECODER POINTS— 7 lamp extinguished.
290	At test and control unit— Set PD GROUP switch to 0-5 position.	
291	At PERIPHERAL DECODER POINTS— Operate 5 key.	At PERIPHERAL DECODER POINTS— 5 lamp lighted.
292	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At TMS— Meter indicates between 0 and -1.5 dBm. At circuits under test— In ***port 2*** relay D2 operated and A2 and B2 remain operated. In ***port 4*** relays A4, B4, and D4 remain operated.
293	At PERIPHERAL DECODER POINTS— Release 5 key.	At PERIPHERAL DECODER POINTS— 5 lamp extinguished.
294	At PERIPHERAL DECODER POINTS— Operate 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp lighted.
295	At PERIPHERAL DECODER POINTS— Depress AT 2 and AT 3 keys.	At TMS— Meter indicates between 0 and -2.0 dBm. At circuits under test— In ***port 4*** B4 released and relays A4 and

STEP	ACTION	VERIFICATION
		D4 remain operated. In ***port 2*** relay B2 released and relays A2 and D2 remain operated.
296	At PERIPHERAL DECODER POINTS— Release 0 key.	At PERIPHERAL DECODER POINTS— 0 lamp extinguished.
297	At PERIPHERAL DECODER POINTS— Depress AT 2 and AT 3 keys.	At circuits under test— In ***port 2*** relay A2 released and D2 remains operated. In ***port 4*** relay A4 released and relay D4 remains operated.
298	At test and control unit— Set PD GROUP switch to 6-11 position.	
299	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuits under test— In ***port 4*** relay D4 released. In ***port 2*** relay D2 remains operated.
300	At test and control unit— Set PD GROUP switch to 0-5 position.	
301	At PERIPHERAL DECODER POINTS— Depress AT 1 key.	At circuit under test— In ***port 2*** relay D2 released.
302	At circuits under test— Remove blocks from S2 and S4 relays.	
303	At front of writing shelf on TTP— Remove patch cord from DBM 0 jack and ACCESS TRK-3 jack.	
304h	If TTP is not equipped with a TMS— At front of writing shelf on TTP— Remove cord from TRANS MEAS-TM 1 jack.	
305	At ACCESS TRUNK 2 CONTROL and ACCESS TRUNK 3 CONTROL— Depress RLS keys.	At ACCESS TRUNK 2 CONTROL and ACCESS TRUNK 3 CONTROL— SUPV lamps extinguished. EQPT ST lamps extinguished. XMSN lamps extinguished.
306	At ACCESS TRUNK 1 CONTROL— Depress RLS key.	At ACCESS TRUNK 1 CONTROL— SUPV lamp extinguished. EQPT ST lamp extinguished. At MISC TEST CONTROL— P&E lamp extinguished.
307	At telephone set on TTP— Operate green release key.	

STEP	ACTION	VERIFICATION
308	Repeat all step procedures outlined in this section to test the remaining 6-port conference circuits.	