NO. 3 ESS SYSTEM VERIFICATION AMARC FUNCTION

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1. GENERAL INFORMATION

1.1 Description

1.11 This section contains the procedures necessary to diagnose and exercise the hardware in a No. 3 ESS office which interfaces with an Automatic Message Accounting Recording Center (AMARC).

1.12 This section will not be followed by an Operational Test (600 series handbook) section because of the nature of the recording process. Unlike No. 2/2B ESS, in which AMA recording is done on magnetic tape in the local office, this system relies on a centralized recording center and outside plant facilities. Therefore, the operational testing will be performed by telephone company personnel once the office is in the turnover-to-cutover period.

1.2 Sequence

1.21 Refer to Handbook 269, Section 1B, for the preferred test sequence.

1.3 References

1.31 The following documents will be useful as references during the execution of the tests:

Document	Title
SD-1C905-01	Teletypewriter Controller Schematic
CD-1C905-01	Teletypewriter Controller Circuit Description
BSP 592-031-100	Data Set 202T, Transmitter-Receiver Description and Operation
BSP 592-031-200	Data Set 202T, Transmitter-Receiver Installation and Connections
BSP 592-031-500	Data Set 202T, Transmitter-Receiver Test Procedures
HB 269 Section 500	Planning Information for System Verification
HB 269 Section 503	Operational Testing - General Information
IM-3H300-01	No. 3 ESS Input Manual
OM-3H300-01	No. 3 ESS Output Manual

2. RECORDS AND REQUIREMENTS

2.1 Records

2.11 The results of this section's test shall be recorded on forms SD-97-1313 and SD-97-1315. Detailed information for completing the record forms appears in Handbook 3, Section 6B.

2.21 The tests in this section are based on the No. 2 ESS Performance Requirements BSP 820-600-180 and the No. 3 ESS Performance Requirements BSP 820-650-180.

TABLE 1

TEST PROCEDURES

STEP	PROCEDURE OR TYPE-IN	SYSTEM RESPONSE	REMARKS
1	Diagnose TTYCs 2 and 3 from the MC TTY by typing: DGN:TTYC a! (a = 2 or 3)	tt DGN TTYC a ATP	
2	Run the local self test on each 202T data set as follows: a) Depress and hold the LT key for approximately 15 seconds. b) If the TM indicator light goes out in "a" above, repeat "a" four additional times.		The TM indicator light on the data set must remain illuminated while the LT key is depressed. A properly operating data set will sometimes fail in a self-test interval of more than 15 seconds because an error in only one bit will cause the TM lamp to go off. However, more than one failure in five successive tests of 15 seconds duration should not occur. If it does, replace the faulty data set.
3	Visually verify for TTY channels 2 and 3 that there are six coaxial cables running from the R, S and I connectors for each channel to both 3A Processors.		Located on the No. 3 ESS maintenance frame are TTY controller units 0 and 1. In an office equipped with the AMARC feature, the right side of TTY controller unit 0 is TTY channel 2 and the right side of TTY controller unit 1 is TTY channel 3.

TABLE 1 (Cont'd)

STEP	PROCEDURE OR TYPE-IN	SYSTEM RESPONSE	REMARKS
4	Visually verify: a) A connectorized cable from port 5 of TTY channel 2 to the connector (jack) on the left side of the "PRIMARY" data set. b) A connectorized cable from port 5 of TTY channel 3 to the connector (jack) on the left side of the "BACKUP" data set.		At the wiring side of the J3H001EG data interface unit (mounted in a miscellaneous frame) the 202T data set on the right is designated the "PRIMARY" data set. It is to be wired to TTY channel 2. Likewise, the data set on the left of the mounting plate is designated the "BACKUP" data set and is to be wired to TTY channel 3.
5	Visually verify: a) A 2-pair cable from the connector (plug) on the right side of the "PRIMARY" data set to punchings 190-193 on block J06 on the HCDF. b) A 2-pair cable from the connector (plug) on the right side of the "BACKUP" data set to punchings 200-203 on block J06 on the HCDF.		
6	Verify that the following options are wired on TTY channels 2 and 3: a) 10-bit signaling, option "R". b) 1200 BAUD rate, option "T".		Consult SD-1C905-01, notes 108 and 109, for information on options "R" and "T".

No arrows shown due to extensive changes.

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