

NO. 3 ESS  
 SYSTEM VERIFICATION TESTS  
 DIRECT INTERFACE TO D4 CHANNEL UNIT

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1. GENERAL INFORMATION

1.1 Description

This section provides instructions for performing the system verification test on trunk groups equipped with direct interface to D4 channel units SD-3C328-01. This test will consist of running software diagnostics to verify the operation of the hardware. No translation tests are made at this time.

1.2 Testing Prerequisites

1.21 The tests of Handbook 269, Section 534, System Verification of service circuits, must be successfully completed prior to the performance of this section.

1.22 Cabling from the Network Frame circuit SD-3H901-01 CAD13 X option to the CDF and the cross-connects to SD-3C328-01 must be in place before this test can be run.

1.3 References

The following documents may prove useful during the execution of the test and for troubleshooting.

<u>Document</u>	<u>Description</u>
SD-3C328-01	No. 3 ESS Channel Unit
TLM-3H110	Trouble Locating Manual Trunks
PA-3H300	Office Data Table Layout
PR-3H284	Program Listing - Two-way E&M Trunk Tests (EMTWT)
SD-3H901-01	Network Frame Circuit
ED-3H108	Method of Cabling for ED-97797-70 LP CDF
J98726	No. 3 ESS Channel Unit

2. RECORDS AND REQUIREMENTS

2.1 The results of the tests of this section shall be recorded on forms SD-97-1313 and SD-97-1315. For detailed information on filling out test records see Handbook 3.

2.2 The tests in this section are based on the No. 3 ESS Performance Requirements as specified in BSP 820-650-180.

3. TEST PREPARATION

It will be necessary to consult Input Form ESS 3201-2 Trunk Assignment Table to determine which trunks (Group and Member) are direct D4 interface, i.e., Trunk Order Code 51327.

NOTE: Direct D4 interface trunks may be in the same trunk group as other E&M trunks not equipped with direct interface.

4. TEST PROCEDURE

4.1 General

4.11 The Diagnostic Control Program (DCON) controls the testing of trunks. The EMTWT test program is accessed from DCON.

4.12 A trunk must be removed from service prior to testing using of the form:

→ RMV:TRK(a,b),DSA!

where: a = trunk group number (decimal)  
 B = member number (decimal)

4.13 The

→ RST:TRK(a,b)!

message will request that the diagnostic be run.

## 5. ANALYSIS OF ERROR PRINTOUTS

5.1 Error printouts will be of the general form:

```
M tt DGN TRK a b STF
  pp-tttt-oo s ffff ffff ffff ffff
```

where: a = trunk group number (decimal)  
 b = member number (decimal)  
 p = phase number that failed  
 t = test number that failed  
 o = operation number that failed  
 s = Start Code Mismatch bit (a '1' indicates a Start Code Mismatch)  
 f = Failure code (binary). This code is the result of an "exclusive OR" of the expected results of the failing operation with the actual results. A '1' in a bit location indicates a mismatch.

5.2 Translation data must always be considered a possible cause of failures. Using the "Functional Listing" of the translation tables in conjunction with the Office Data Tables Layout, PA-3H300, it is possible to check for errors.

5.3 If translations appear to be correct, the trouble number (pp-tttt-oo) and failure code should be used in conjunction with the TLM to locate probable faulty hardware areas.

5.4 The installer may elect to run the failing test or entire phase repetitively or in the step mode to aid in troubleshooting. To run the failing test repetitively use a message of the form:

→ DGN:TRK(a,b),PH p,TST t;RPT

where: p = phase number  
 t = test number

To run a test in the step mode use:

DGN:TRK (a,b),

→ DGN:TRK(a,b,PH p;<sup>RPT</sup>STEP!

To clear a repetitive or step from the system, use:

→ CLR:RPT!

→ CLR:STEP!

NOTE: The current Input and Output Manuals should always be checked to verify message formats.

Arrows indicate new or changed information.

Manager, ESS Installation & Field Engineering

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