

**OPERATION AND MAINTENANCE  
TERMINAL STATION  
1 X N FREQUENCY DIVERSITY  
DR 6/11-135A AND 135EC  
EXCESS ALARM**

The following flowchart is used to clear the EXCESS ERR RATE, MFR, and ACTY indicators on the CHAN CONTR unit. These indicators light when the associated system performance thresholds have been exceeded. Use these indicators with the flowchart to determine if the alarm is caused by a unit in the terminal receiving circuits. If a unit has failed, refer to the "Terminal" tab under the "Replacement Procedures" tab to replace the unit. If tests are necessary, refer to the "Terminal Procedures" tab or the "Station Procedures" tab in the "Tests and Adjustments" section.

The alarms are "history" indicators. The activity that caused these alarms may have stopped. Therefore, other than the EXCESS alarm indicators, there probably will be no other activity on the digital terminal. Where the trouble activities have temporarily stopped, consult the technical support group and/or O&M Maintenance Support document. Where trouble-indicating activity is detected, use the following flowchart to clear the EXCESS indicators.

**Note:** Although these alarms and indicators can be locally reset, they will be *automatically* reset (if the problem is repaired) at the end of the PERFORMANCE TEST mode. This test is invoked by the alarm center and will take about 15 minutes to run.

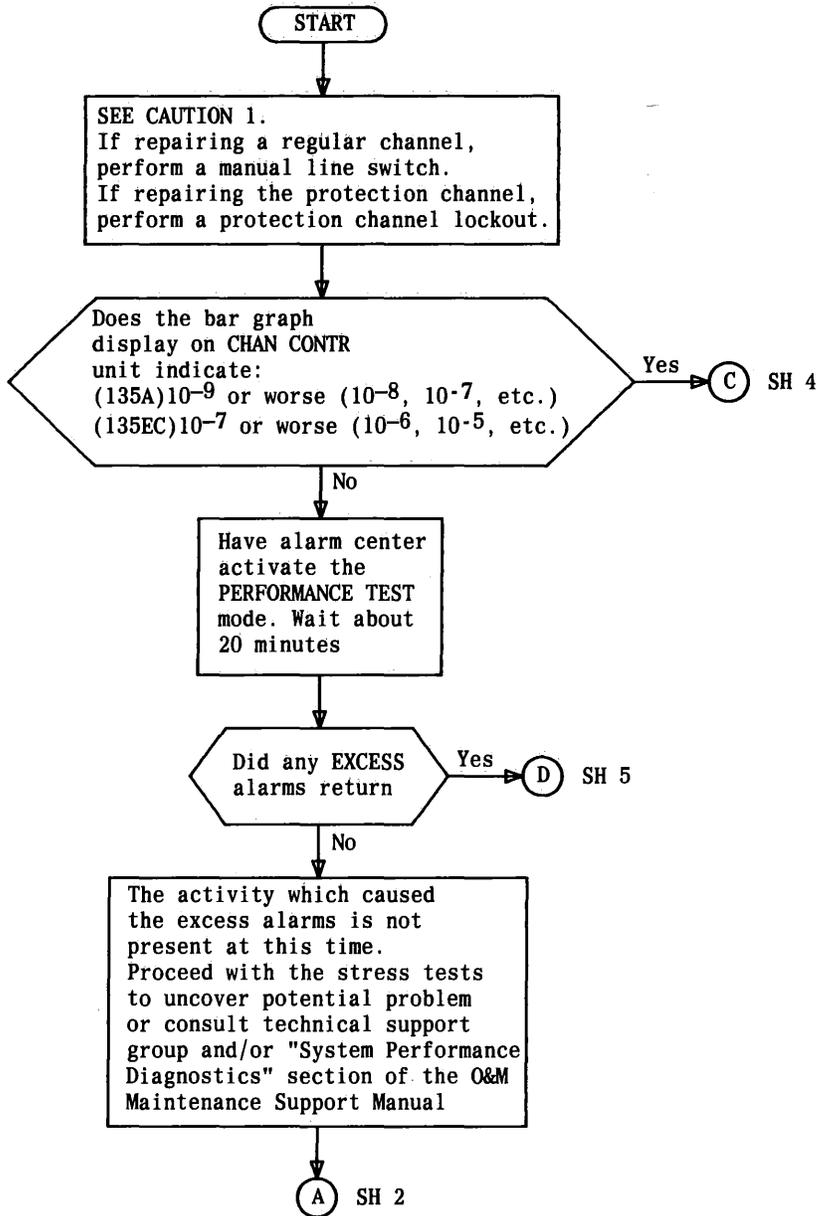
**Warning:** To prevent ESD (electrostatic discharge) damage to a unit, ensure all ESD precautions are followed.

**This practice is reissued to include the error-correction option. The practice is used in binders 421-102-001, 421-102-080, 421-102-090, 421-102-100, 421-102-001AC, 421-102-002AC, 421-102-003AC, and 421-102-004AC.**

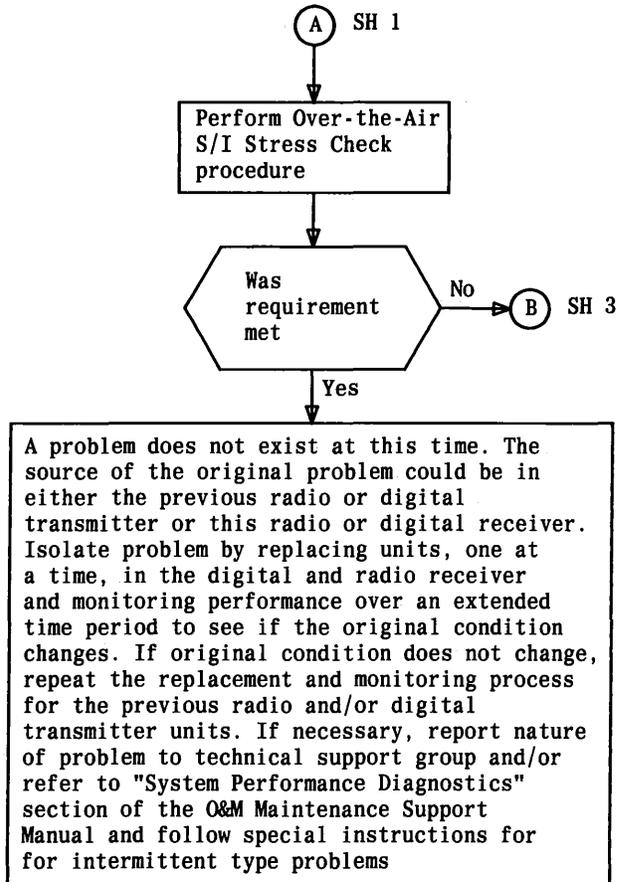
**ISSUING ORGANIZATION**

Published by the AT&T Documentation Management Organization.

**CAUTION 1: This is a service-affecting repair for the receiving direction of transmission.**



Line Terminal Excess Alarm-Clearing Flowchart (Sheet 1 of 6)



Line Terminal Excess Alarm-Clearing Flowchart (Sheet 2 of 6)

**CAUTION 2: If a line terminal unit needs to be replaced, this may be a service-affecting repair for both directions of transmission.**

(B) SH 2

NOTES:

1. If replacement unit does not correct problem, reinstall original unit.

See CAUTION 2.  
If repairing a regular channel, perform a manual span switch for BOTH directions of transmission. If repairing the protection channel, perform a protection channel lockout for BOTH directions of transmission

Perform Terminal IF Loopback S/I Stress Check procedure

Was requirement met

Yes

Convert from IF Loopback Test setup to Over-the-Air S/I Stress Check setup

No

SEE CAUTION 2 AND NOTE 2.  
Replace all units from 64QAM DEMOD to TERM FRMR one at a time, until Terminal IF Loopback S/I Stress Check requirement is met. The S/I Stress Check must be repeated after each replacement  
See NOTE 1

Indicates the trouble is probably not in the terminal. Isolate problem by replacing the radio receiver units, one at a time, and checking for a good "Over-the-Air S/I Stress Check" requirement after each replacement. If requirement is met, replaced unit was the problem. If original condition does not change, repeat the replacement and monitoring process for the previous radio and/or digital transmitter units. If necessary, report problem to technical support group and/or refer to O&M Maintenance Support Manual and follow special instructions for failing to meet requirements of a performance margin test

Was requirement met

Yes

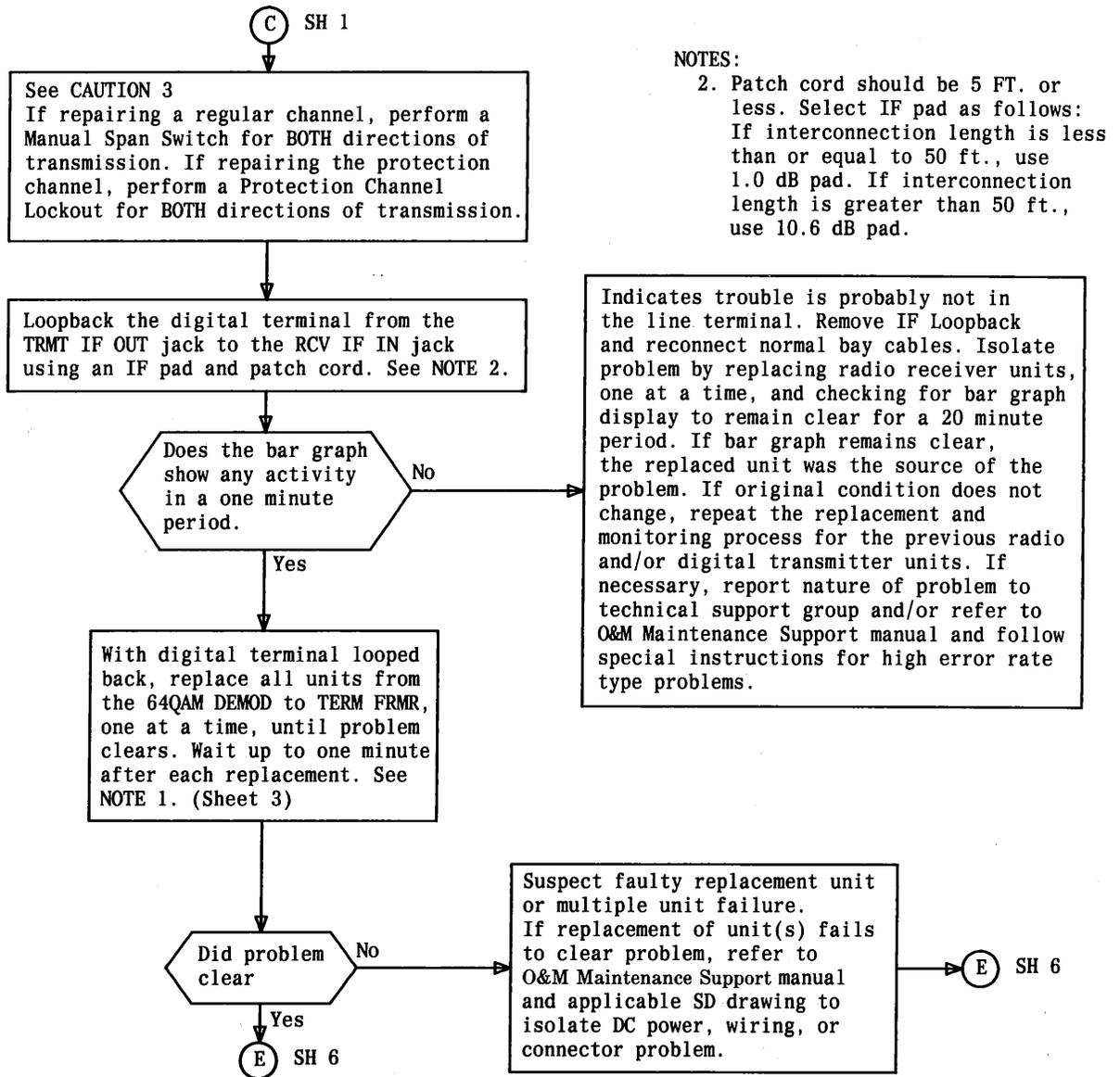
No

Suspect faulty replacement unit or multiple unit failure. If replacement of unit(s) fails to clear problem, refer to O&M Maintenance Support manual and applicable SD drawing to isolate DC power, wiring, or connector problem.

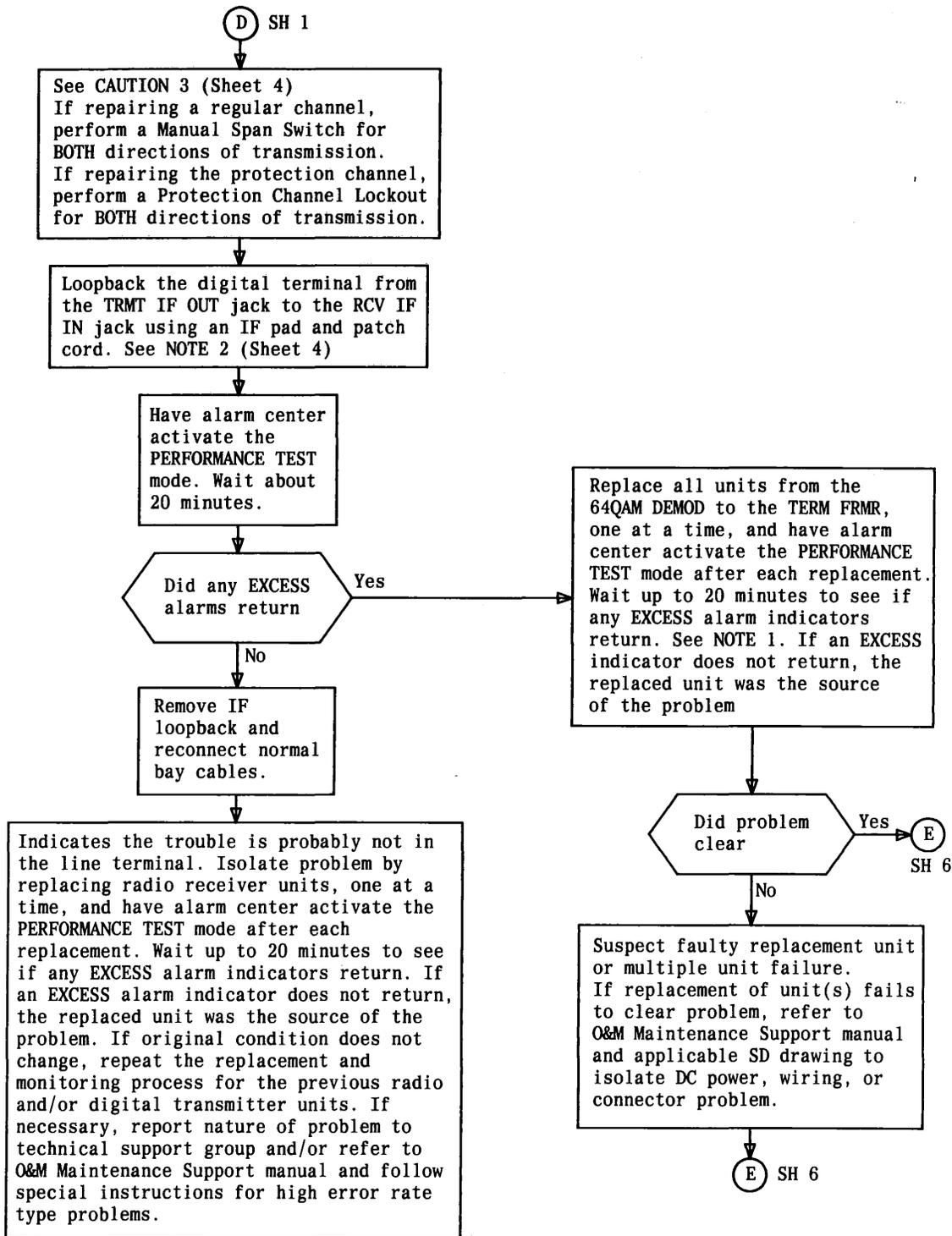
(E) SH 6

Line Terminal Excess Alarm-Clearing Flowchart (Sheet 3 of 6)

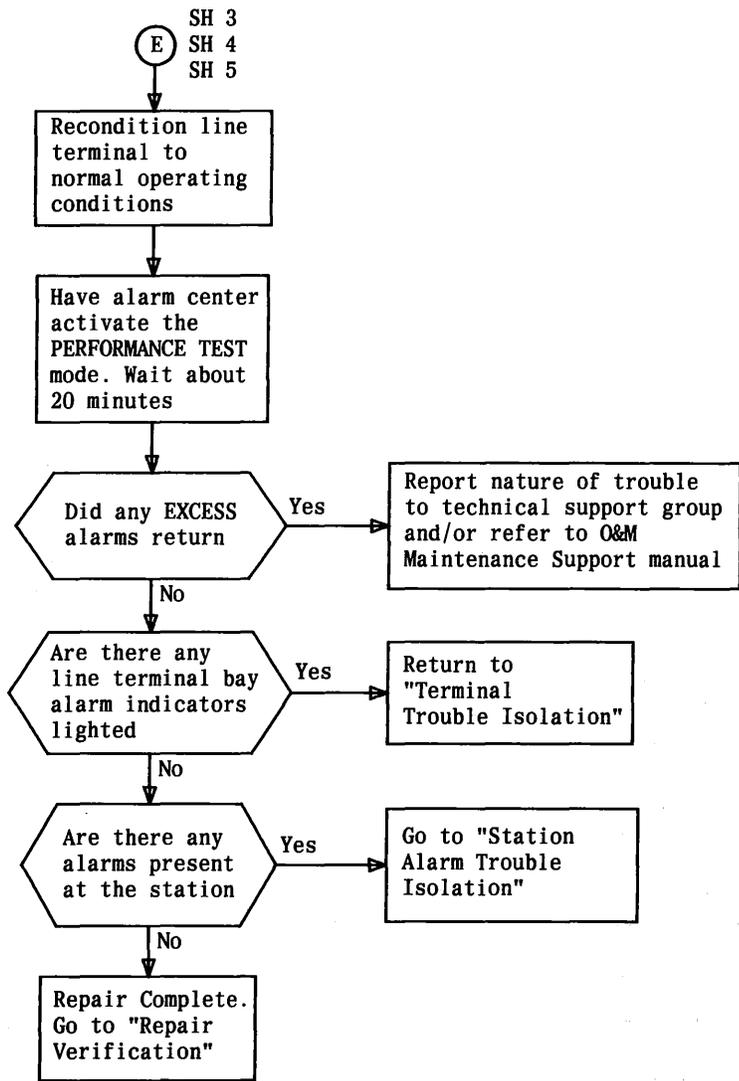
**CAUTION 3. This is a service-affecting repair for both directions of transmission.**



**Line Terminal Excess Alarm-Clearing Flowchart (Sheet 4 of 6)**



Line Terminal Excess Alarm-Clearing Flowchart (Sheet 5 of 6)



Line Terminal Excess Alarm-Clearing Flowchart (Sheet 6 of 6)