

**OPERATION AND MAINTENANCE  
TERMINAL STATION  
HOT STANDBY  
DR 6/11-135A  
TWT AMPLIFIER  
REPAIR VERIFICATION**

*Repair verification is always the last procedure performed by the technician before leaving the station.* This section is used to verify that the equipment repair is complete, there are no alarms present, and the system requirements are met.

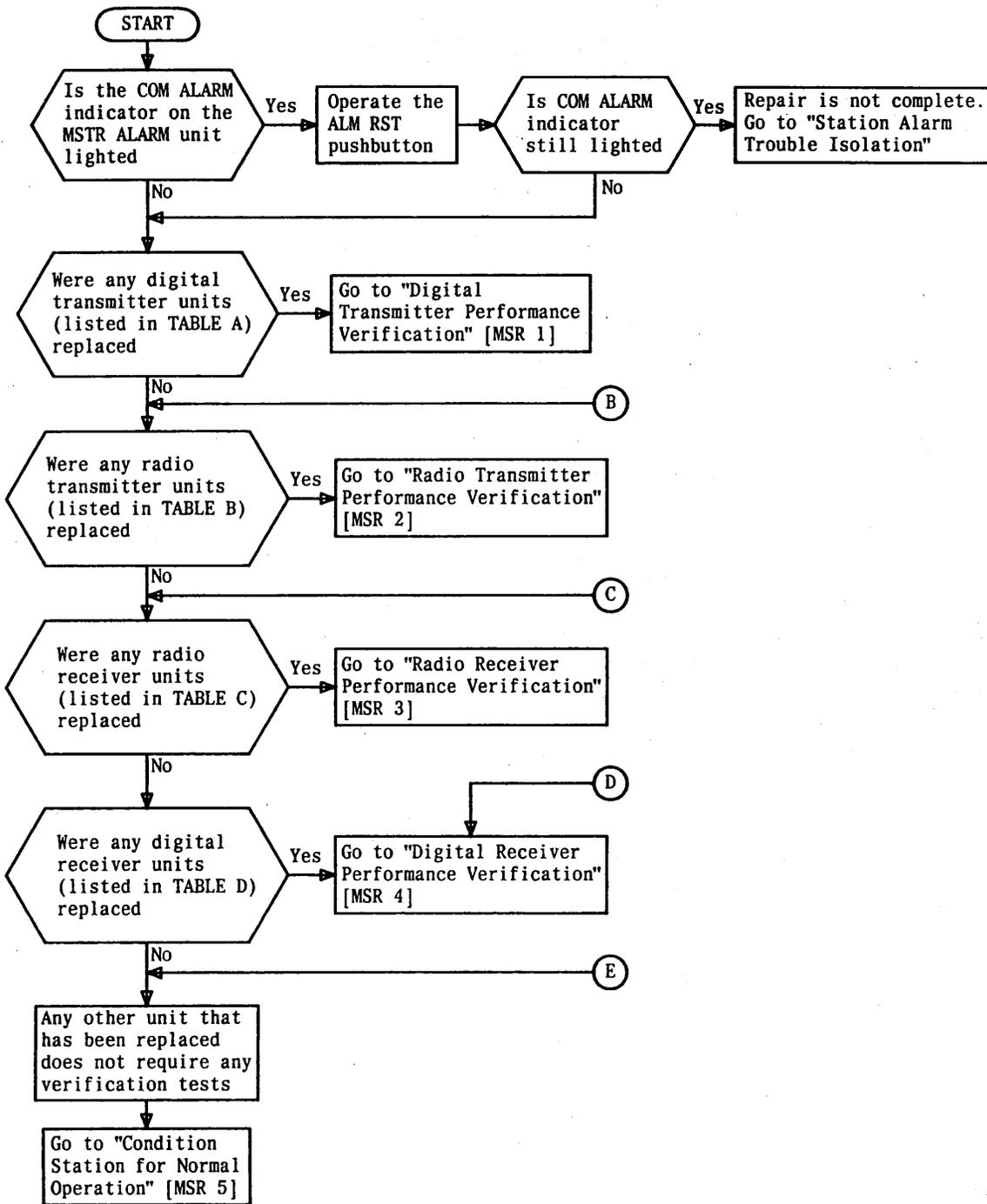
*This practice is reissued to include RF Switch Network information. The practice is used in binders 421-105-001 and 421-105-001AC.*

The following logic diagrams reference tests which verify that the repair is complete. When the requirements for all of the referenced tests are met, the equipment is repaired and ready for service. The tests can be found under the "Tests and Adjustments" tab.

If referenced test requirements are not met, corrective action must be taken to clear any equipment alarms. If there are no equipment alarm indications, report the nature of the trouble to the technical support group for further instructions.

**ISSUING ORGANIZATION**

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MR 1—Station Repair Verification (Sheet 1 of 2)

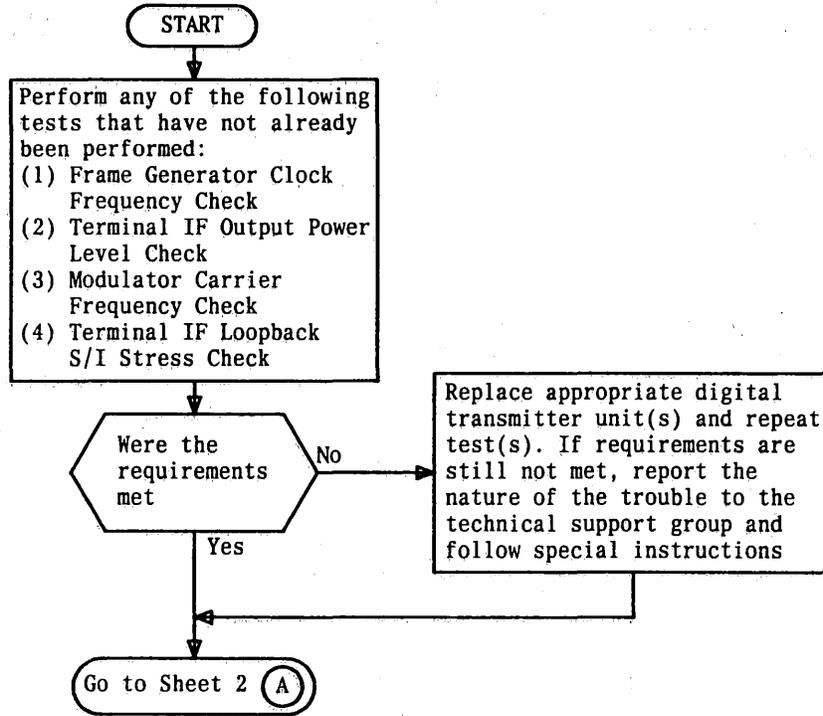
TABLE A
TERMINAL TRANSMITTER CIRCUITS AFFECTING SYSTEM REQUIREMENTS
B3ZS DCODR FRAME GEN CRC CODER D/A CONVR TRMT FLT 64QAM MOD

TABLE C
RADIO RECEIVER CIRCUITS AFFECTING SYSTEM REQUIREMENTS
RF PREAMPLIFIER RECEIVER DOWN CONV & MWV GEN LINEAR DELAY EQUALIZER IF FILTER AND BASIC EQUALIZER IF AGC AMPL ADAPTIVE SLOPE EQL

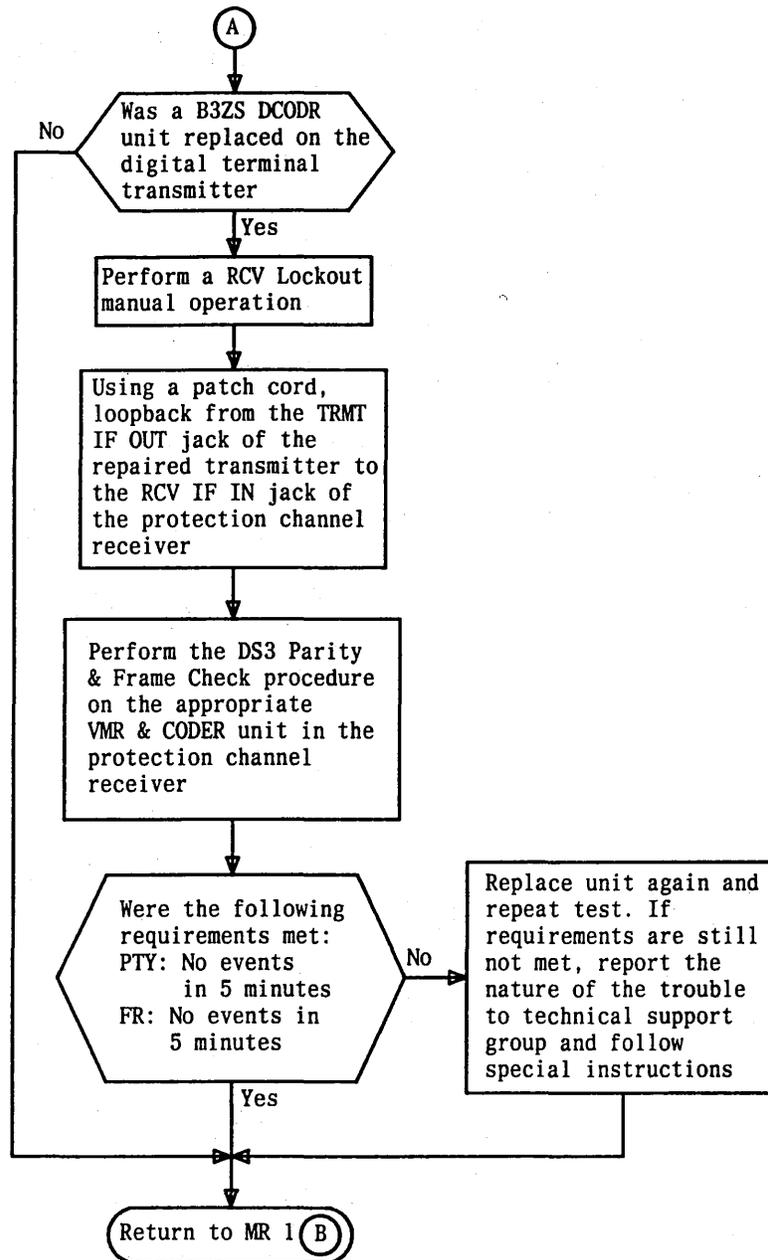
TABLE B
RADIO TRANSMITTER CIRCUITS AFFECTING SYSTEM REQUIREMENTS
IF PREDISTORTER TRANSMITTER UP CONV & MWV GEN TWT AMPLIFIER TWT POWER SUPPLY ALC NETWORK RF SWITCH RF SWITCH NETWORK SWITCH CONTROL NETWORK

TABLE D
TERMINAL RECEIVER CIRCUITS AFFECTING SYSTEM REQUIREMENTS
64QAM DEMOD 64QAM DECSN TRNSV FLT CRLTR RCV FLT TERM FRMR RCV SW LINE ALNMT FRAME RMVR VMR & CODER

PREREQUISITE: There are no terminal transmitter alarms.



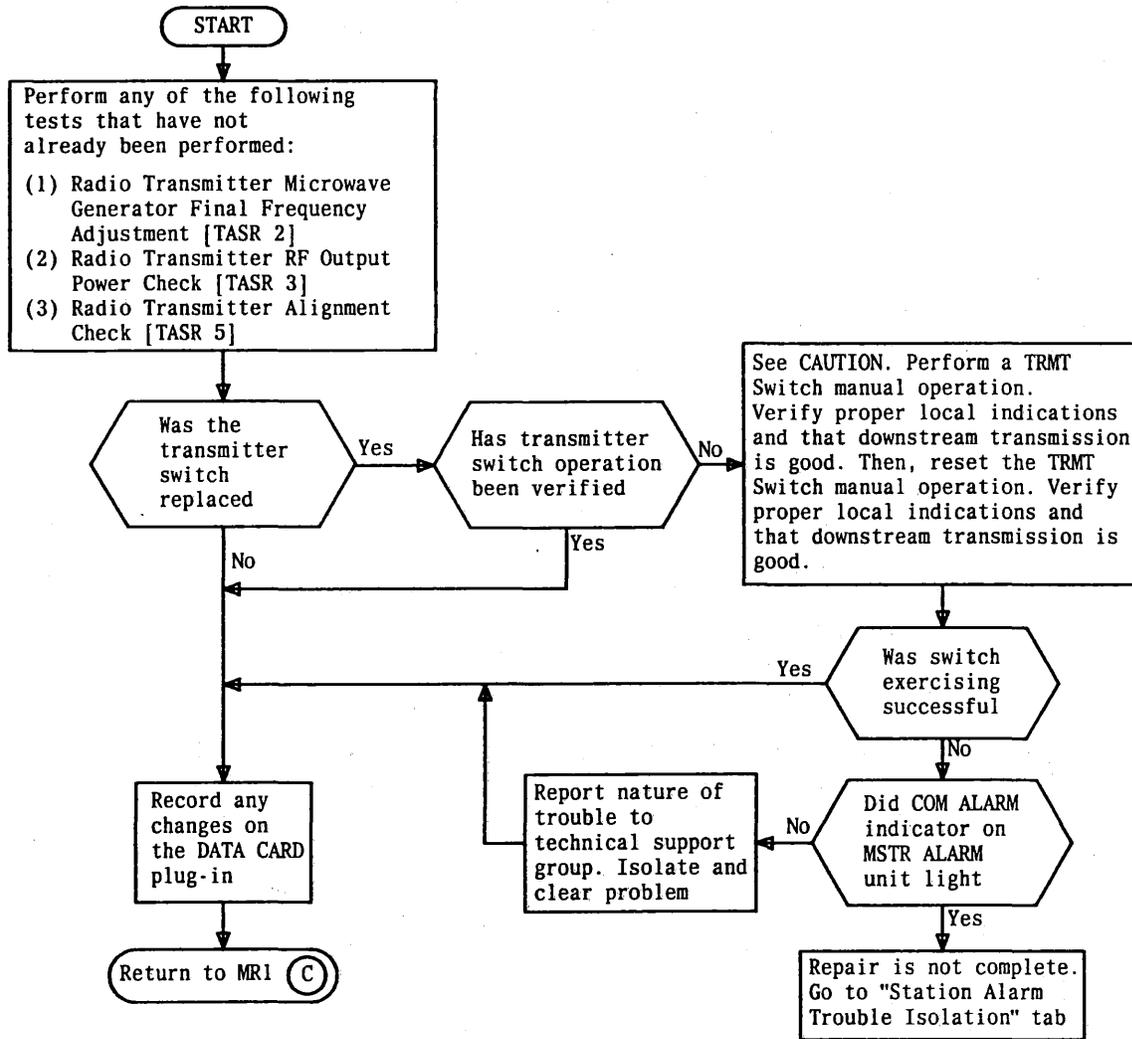
MSR 1—Digital Transmitter Performance Verification (Sheet 1 of 2)



MSR 1—Digital Transmitter Performance Verification (Sheet 2 of 2)

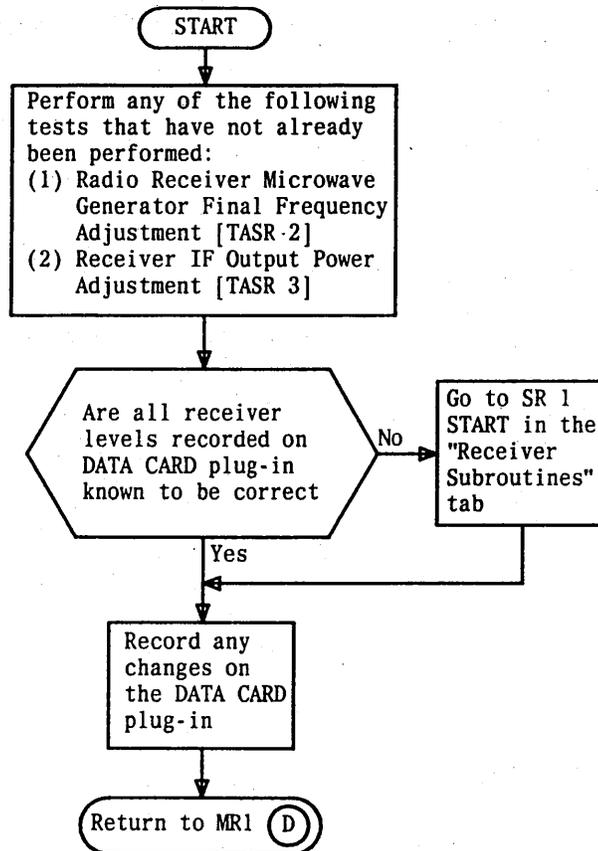
**CAUTION:** Operating and resetting the TRMT Switch WILL cause momentary out-of-frame conditions on the downstream transmission line.

PREREQUISITE: There are no radio transmitter alarms



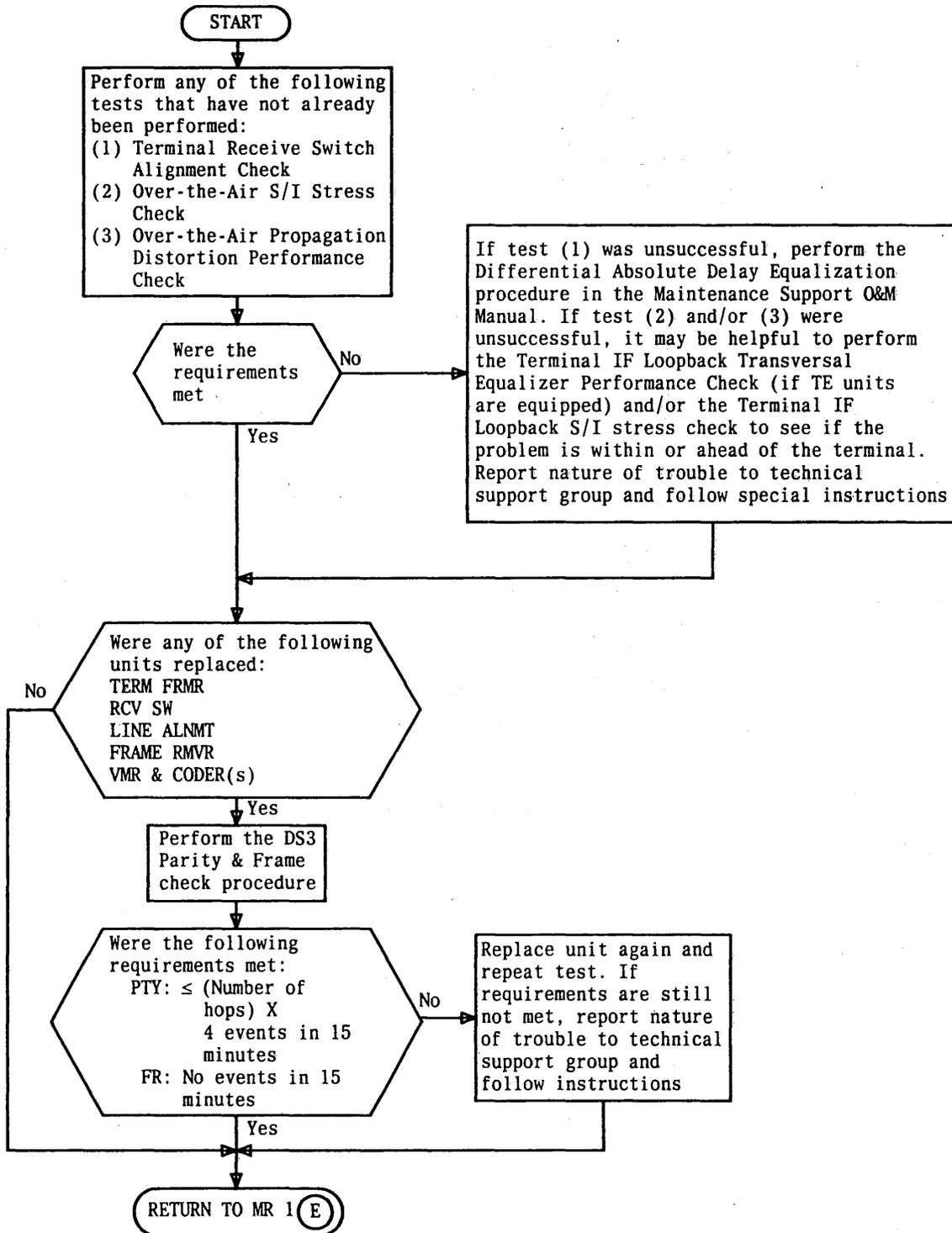
MSR 2—Radio Transmitter Performance Verification

PREREQUISITE: There are no radio receiver alarms



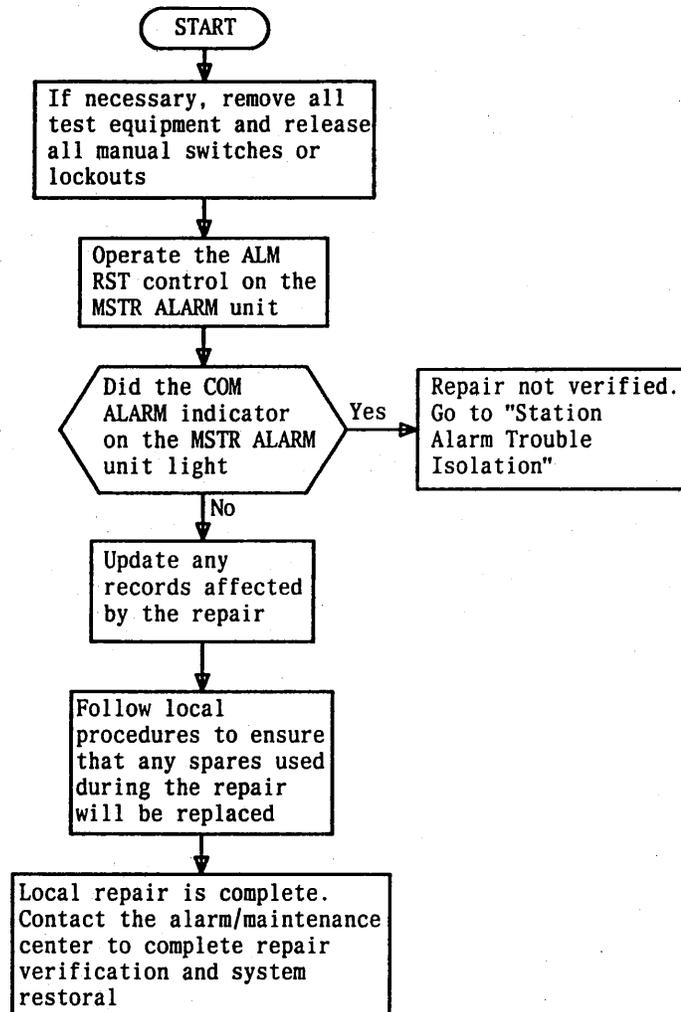
MSR 3—Radio Receiver Performance Verification

PREREQUISITE: There are no terminal receiver alarms



MSR 4—Digital Receiver Performance Verification

PREREQUISITE: All station alarms are clear



MSR 5—Condition Station for Normal Operation