

**OPERATION AND MAINTENANCE
1× N FREQUENCY DIVERSITY
DR 6/11-135A AND 135EC
TWT AMPLIFIER
GENERATOR OVEN ALARM**

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Published by
The AT&T Document Development Organization

1. GENERAL

The following logic diagram, MR 1, is used to clear a TRMTR GEN OVEN indicator on the ALARM/ALARM AND METER unit. The indicator will light when the DC current in the generator oven is outside the correct range. When the indicator is lighted and all DC voltages supplied to this unit are known to be good, it will be necessary to replace the entire TRANSMITTER UP CONVR & MWV GEN (TRMTR CONVR) unit with a spare unit equipped with the proper microwave generator module. Spare microwave generator modules should *not* be replaced within a working TRMTR CONVR plug-in unit since no procedures are provided for troubleshooting between the up-converter and the microwave generator. Refer to the RADIO TRMTR tab under the REPLACEMENT PROCEDURES tab to replace the unit with a spare. If tests are necessary, refer to the RADIO TRANSMITTER PROCEDURES tab under the TESTS AND ADJUSTMENTS tab.

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

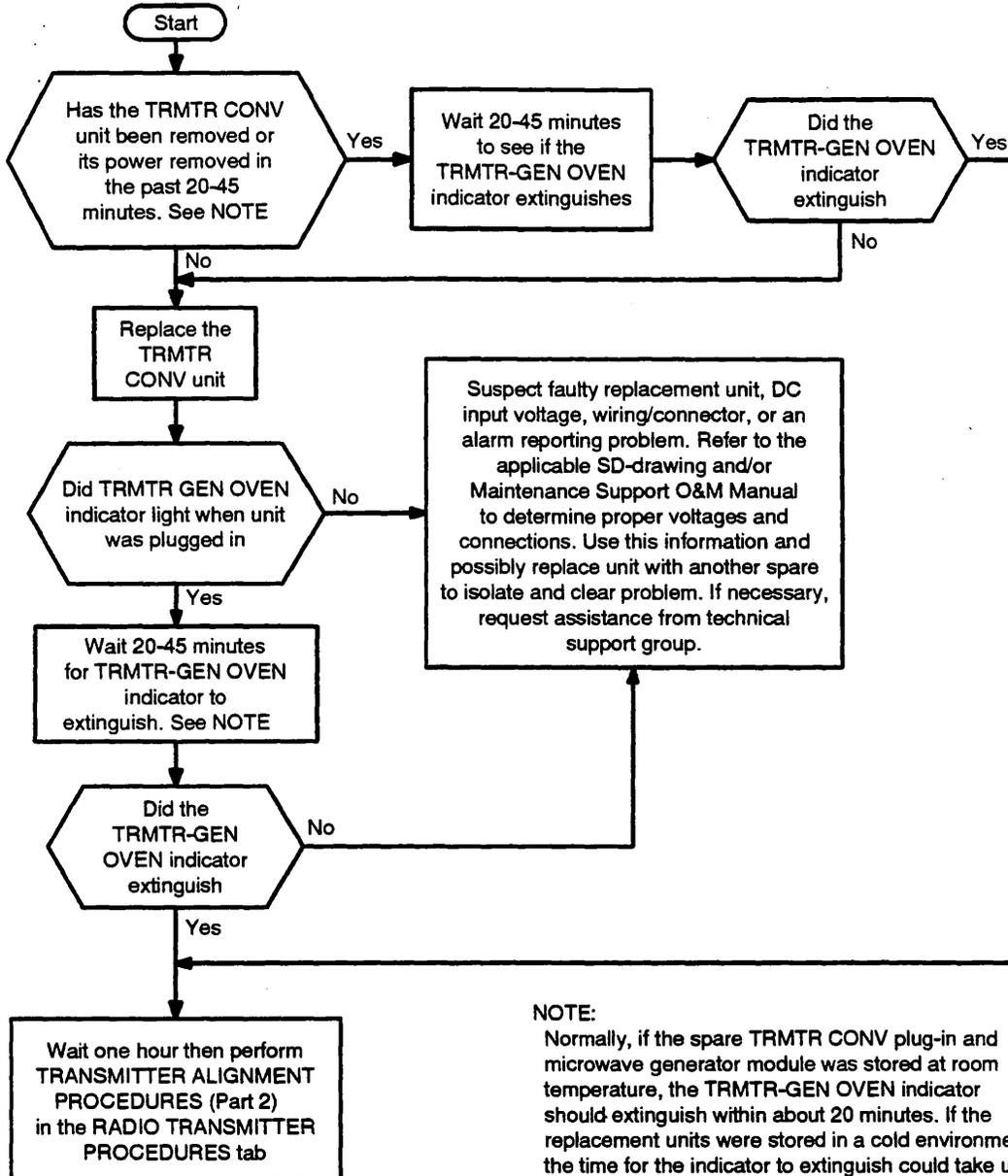
The microwave generator module within the TRMTR CONVR plug-in unit is powered directly from the -48 V or -24 V input via the backplane connector. When the TRMTR CONVR unit is replaced with a spare unit, the warm-up time required before the generator oven temperature is stable enough to permit the final frequency adjustment depends on the starting temperature of the spare unit. (See Note in MR 1.)

1.1 UPDATE INFORMATION

This practice is reissued to update the Radio Generator Oven Alarm-Clearing Diagnosis logic diagram. The practice is used in binders 421-102-001, 421-102-090, 421-103-001, and 421-103-090.

CAUTION: THIS IS A SERVICE AFFECTING PROCEDURE UNLESS THE PROPER MANUAL SWITCHING OPERATION HAS BEEN PERFORMED

PREREQUISITE: TRMTR-GEN OVEN indicator lighted on the radio ALARM/ALARM AND METER unit



NOTE:
 Normally, if the spare TRMTR CONV plug-in and microwave generator module was stored at room temperature, the TRMTR-GEN OVEN indicator should extinguish within about 20 minutes. If the replacement units were stored in a cold environment, the time for the indicator to extinguish could take up to 45 minutes.

MR 1—Radio Generator Oven Alarm-Clearing Diagnosis