

ORDER

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
GREAT LAKES REGION

GL 6630.5

4/30/76

SUBJ: ANTENNA COAXIAL STATIC DISCHARGERS

1. **PURPOSE.** This Order authorizes installation of a static discharger in all antenna coaxial systems of the AN/GRT-21 and 22, VHF and UHF transmitters and type FA-8190/8191 transceivers (BUEC).
2. **DISTRIBUTION.** This Order is distributed to the Airway Facilities Division, Section level and above; [REDACTED]
3. **ACTION.** Upon receipt of this Order, Airway Facilities Sector Managers shall take action to have Coaxial Static Dischargers installed in the antenna systems of all solid state transmitters and transceivers type AN/GRT-21/22 and FA-8190/8191 (BUEC).
4. **BACKGROUND.** The solid state transmitters and transceivers have RF power sensor diodes that are very sensitive and are subject to failure due to high voltage static buildup on the coaxial transmission lines of the antenna system.
5. **PROCEDURE.** Procure connectors and resistors and assemble in accordance with appendix 1 of this Order. One static discharger should be installed between the Watt Meter body and the antenna coaxial lead-in for all type AN/GRT-21/22 and FA-8190/8191 equipments. Connection should be made to the antenna side first to eliminate any static build-up that may occur during the disconnect time. CAUTION; during antenna maintenance tasks per 6630.2, do not megger coax while connected to solid state transmitters or transceivers, as this will also damage the power sensor diodes.
6. **TEST AFTER COMPLETION.** Check the antenna system and monitor transmitter to ascertain proper operation and certify the system.
7. **CORRECTION TO FACILITY DRAWINGS.** Correct facility antenna drawings to show installation of static dischargers and submit to AGL-433.5 for coordination and completion by AGL-443.


J. TRUHAN

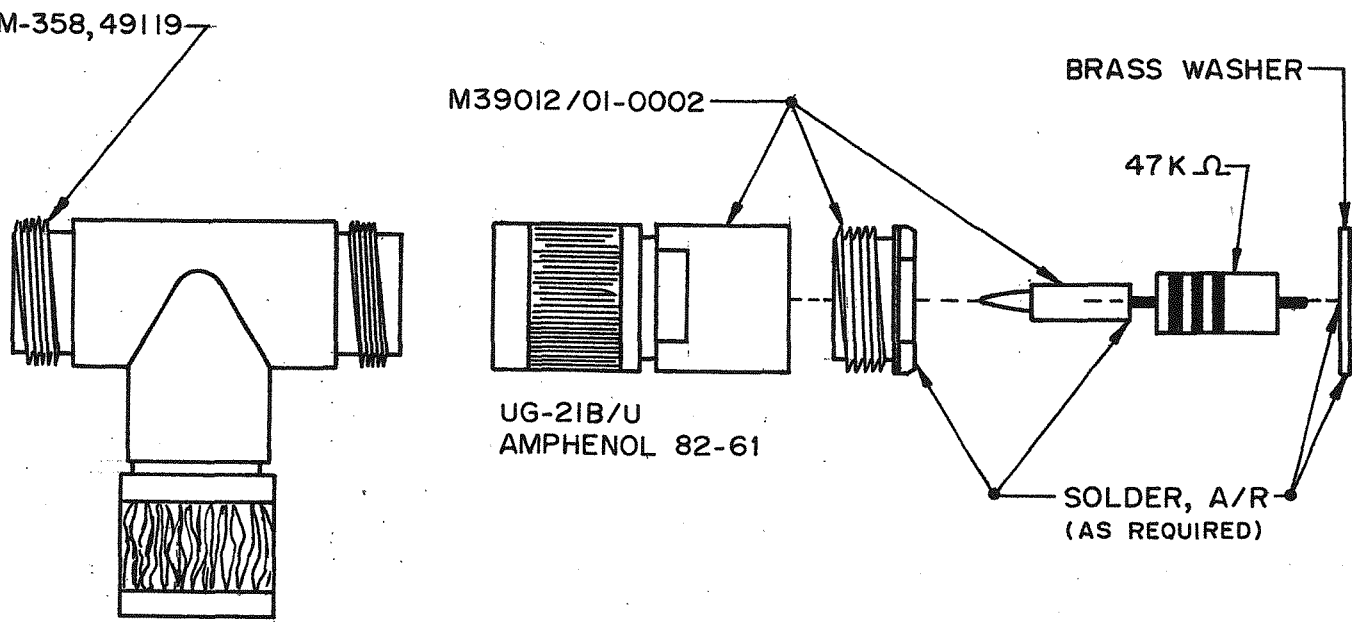
Chief, Airway Facilities Division

Enclosure

Distribution: RAF-4; [REDACTED]

Initiated By: AGL-433

APPENDIX I. STATIC INTERFERENCE PROTECTOR



STATIC INTERFERENCE PROTECTOR FOR
GRT/21-22 AND GRR/23-24 AND
FA-8190 AND 8191.

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