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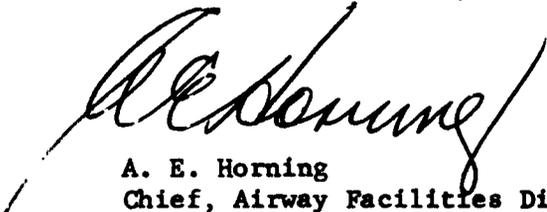
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
WESTERN REGION

WE 6790.7

4/29/68

SUBJ: PRE-INSTALLATION CLEANING OF STANDARD AND DOPPLER VOR ANTENNA SYSTEMS

1. PURPOSE. This Order delineates procedures for use in the Western Region in the cleaning of Alford loops used in Standard and Doppler VOR antenna systems. These procedures apply to new and replacement antennas and concerns Airway Facilities personnel.
2. BACKGROUND. Prior to the assembly of the antenna elements during the manufacturing process they have a protective film deposited by anodizing, or a similar process. This film varies in thickness and, therefore, in many instances acts as an R. F. insulator. This in turn causes erratic antenna operation. Experience has indicated more stable operation and lower ground error curves will result when the film is removed at standard VORs. Likewise, experience indicates an improvement in the reduction of parasitic currents in the Doppler antenna system by removal of this film.
3. PROCEDURES. Take the following actions prior to installation of standard VOR and Doppler VOR antenna systems:
 - a. The end plate and loop mating surfaces shall have protective film removed.
 - b. Remove the three coaxial receptacles and remove the film from the antenna surface.
 - c. Remove the cross connectors and remove the film from the mating surface of the cross connectors. (Care should be exercised not to distort the cross connectors.)
 - d. Following final adjustments, the surfaces exposed because of the cleaning process shall be sprayed with Krylon plastic.


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